

# CATÁLOGO

Catalogue • Catálogo

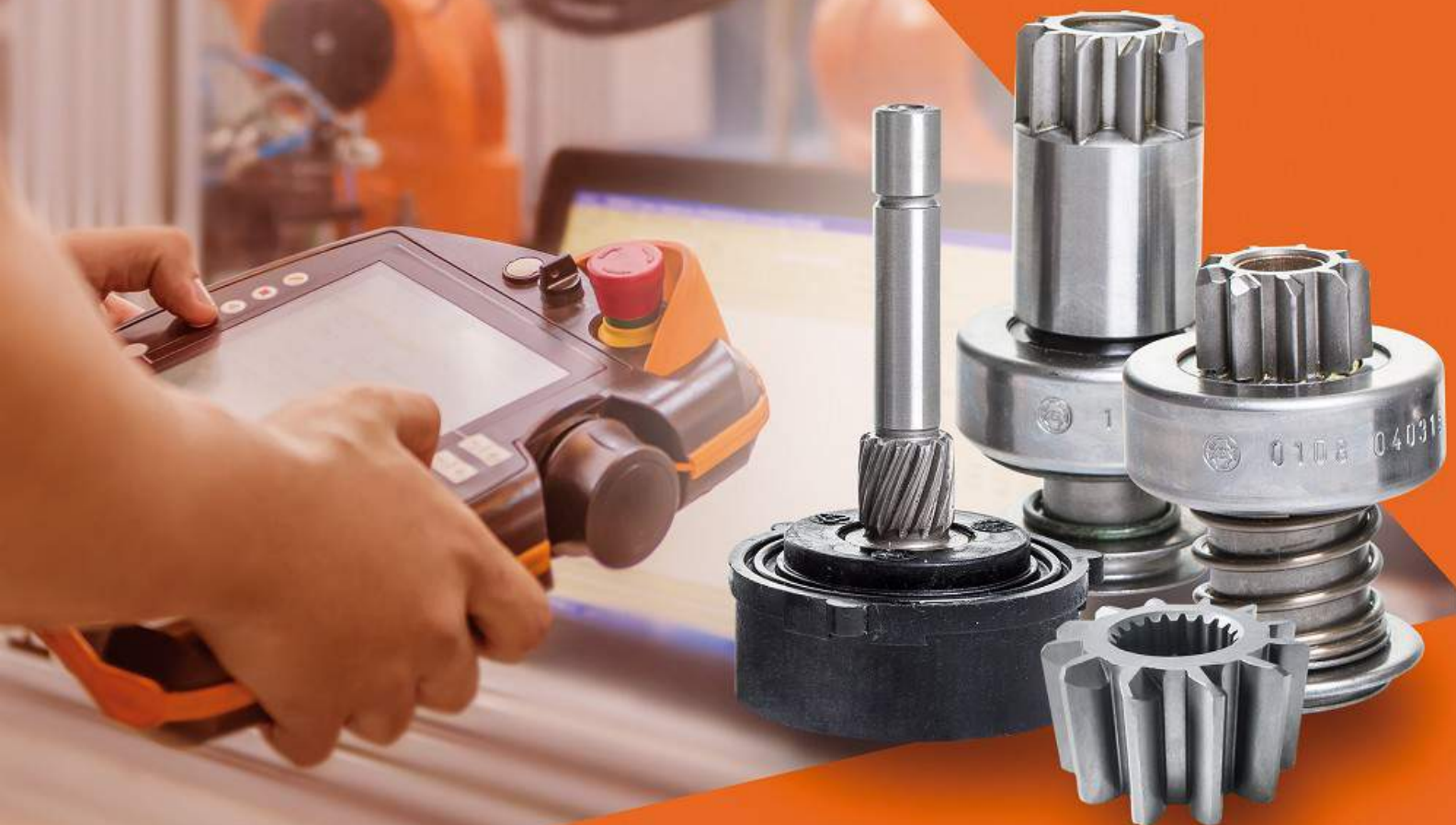
# 2018



## IMPULSORES DE PARTIDA, PINHÕES E PLANETÁRIAS

*Starter Drives, Pinions,  
and Planetary Gears*

*Impulsores de Arranque,  
Piñones y Planetários*





A ZEN S.A., localizada em Brusque, Santa Catarina, vem trabalhando no ramo automotivo desde 1960 e é uma das maiores metalúrgicas do Brasil, com participação significativa no mercado original (OEM) e de reposição (IAM).

A empresa é a maior fabricante mundial independente de impulsores de partida e uma importante fabricante de polias para alternador, tensores e outros produtos para o segmento elétrico e mecânico. A ZEN também oferece uma grande variedade de conformados a frio e morno para o mercado original, tais como anéis ABS e "dog rings".

*ZEN S.A., headquartered in Brusque, Santa Catarina, has been operating in the automotive sector since 1960 and is currently one of the leading Brazilian manufacturers of parts for the original and spare part global markets.*

*The company is the independent world leader in starter drives and a key manufacturer of alternator pulleys, tensioners, other electric products. ZEN also provides OEMs a wide variety of cold and warm forged components, like ABS rings and Dog Rings.*

*ZEN S.A., localizada en Brusque, Santa Catarina, ha trabajado en el sector automovilístico desde 1960 y es una de las mayores metalúrgicas de Brasil, con participación significativa en el mercado original (OEM) y de repuestos (IAM).*

*La empresa es la mayor fabricante mundial independiente de impulsores de arranque y una importante fabricante de poleas para alternador, tensores y otros productos para el sector eléctrico y mecánico. ZEN también ofrece una gran variedad de conformados a frio y caliente para el mercado original, como anillos ABS y "dog rings".*



#### MISSÃO MISSION / MISIÓN

Desenvolver, produzir e fornecer componentes e sistemas para veículos automotores, para os segmentos original e reposição, com geração de valor para o negócio, clientes e sociedade.

*Developing, producing and supplying components and systems for automotive vehicles, for the original segments and replacement, value generation for the business, customers and society.*

*Desarrollar, producir y suministrar componentes y sistemas para vehículos automotores, para los segmentos original y de reemplazo, con generación de valor para el negocio, los clientes y la sociedad.*

#### VISÃO VISION / VISIÓN

Ser instrumento para o progresso sustentável que conquiste a preferência de nossos clientes e o orgulho da nossa equipe, através da inovação, qualidade e excelência operacional.

*Being an instrument for the sustainable progress in order to win our customers' preference and our team's pride, through innovation, quality and operational excellence.*

*Ser un instrumento para el progreso sostenible, con el objetivo de conquistar la preferencia de nuestros clientes y el orgullo de nuestro equipo, a través de la innovación, la calidad y la excelencia operacional.*

#### VALORES VALUES / VALORES

COMPROMETIMENTO • SINCERIDADE • INTEGRIDADE  
SENSO DE URGÊNCIA • ESPÍRITO EMPREENDEDOR

*Commitment • Sincerity • Integrity • Sense of Urgency • Entrepreneurship  
Compromiso • Sinceridad • Integridad • Sentido de Urgencia • Espíritu emprendedor*



# KIT DE DISTRIBUIÇÃO ZEN

DISTRIBUTION KIT • KIT DE DISTRIBUCIÓN ZEN

**A QUALIDADE ZEN QUE VOCÊ JÁ CONHECE, AGORA  
DISPONÍVEL EM UMA NOVA LINHA DE PRODUTOS**

THE QUALITY YOU ALREADY KNOW, NOW  
AVAILABLE ON A NEW PRODUCT LINE

LA CALIDAD ZEN QUE USTED YA CONOCE, AHORA  
DISPONIBLE EN UNA NUEVA LÍNEA DE PRODUCTOS



- **30 KITs disponíveis;**  
*30 Kit available/ 30 Kits disponibles*
- **Correia padrão original;**  
*OEM standard belt / Correa estándar original*
- **Garantia de 1 ano;**  
*1 year warranty / Garantía de 1 año*
- **Solução completa para reposição.**

*Complete solution for the aftermarket /  
Solución completa de repuesto*





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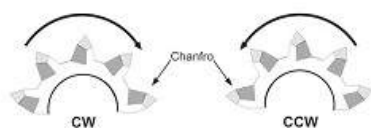
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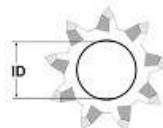
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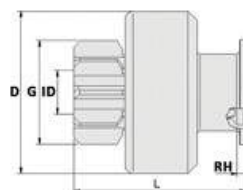


T - Nº de Dentes  
Nº Teeth  
Nº Dientes

CCW - Rotação Anti-Horária  
Counterclockwise  
Rotación Antihorária



D - Capa (mm)  
Ø Cover  
Ø Cubierta



RH - Prof. Rebaixo (mm)  
Depth Recess  
Prof. Rebaje

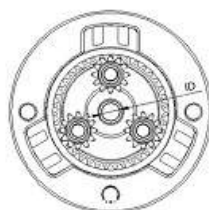
SPL - Nº de Estrias  
Nº Splines  
Nº Estrias

CW - Rotação Horária  
Clockwise  
Rotación horária

ID - Ø Bucha (mm)  
Ø Bushing  
Ø Buje

G - Ø Ext. Dentes Pinhão (mm)  
Ø Pinion O.D.  
Ø Piñón Dim. Externa

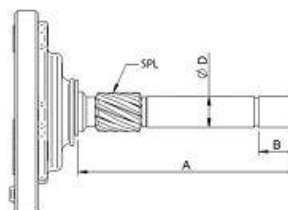
L - Comprimento Total (mm)  
Full Length  
Largo Total



ID - Ø da bucha (mm)  
Shaft Ø Bushing  
Buje Ø eje

SPL - Nº de Estrias  
Nº Splines  
Nº Estrias

D - Ø Eixo (mm)  
Ø Shaft  
Ø Eje



A - Comprimento eixo livre (mm)  
Free Shaft Length  
Largo libre de eje

B - Comprimento até o canal (mm)  
Shaft len. up to the chamfer  
Largo del eje hasta canal

| Nº ZEN               | ANTIGO<br>OLD<br>ANTIGUO | Nº ZEN | NOVO<br>NEW<br>NUEVO | Pg. |
|----------------------|--------------------------|--------|----------------------|-----|
| Impulsor de Partida  |                          |        |                      |     |
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| 1.01.0567.0 | 0567                     | 191    |                      |     |
| 1.01.0568.0 | 0568                     | 191    |                      |     |
| 1.01.0570.0 | 0570                     | 191    |                      |     |
| 1.01.0571.0 | 0571                     | 191    |                      |     |
| 1.01.0572.0 | 0572                     | 191    |                      |     |
| 1.01.0573.0 | 0573                     | 191    |                      |     |
| 1.01.0574.0 | 0574                     | 191    |                      |     |
| 1.01.0575.0 | 0575                     | 191    |                      |     |
| 1.01.0576.0 | 0576                     | 191    |                      |     |
| 1.01.0579.0 | 0579                     | 191    |                      |     |
| 1.01.0580.0 | 0580                     | 191    |                      |     |
| 1.01.0584.0 | 0584                     | 191    |                      |     |
| 1.01.0591.0 | 0591                     | 191    |                      |     |
| 1.01.0594.0 | 0594                     | 191    |                      |     |
| 1.01.0595.0 | 0595                     | 192    |                      |     |
| 1.01.0596.0 | 0596                     | 192    |                      |     |
| 1.01.0597.0 | 0597                     | 192    |                      |     |
| 1.01.0600.0 | 0600                     | 192    |                      |     |
| 1.01.0601.0 | 0601                     | 192    |                      |     |
| 1.01.0603.0 | 0603                     | 192    |                      |     |
| 1.01.0605.0 | 0605                     | 192    |                      |     |
| 1.01.0607.0 | 0607                     | 192    |                      |     |
| 1.01.0608.0 | 0608                     | 192    |                      |     |
| 1.01.0609.0 | 0609                     | 192    |                      |     |
| 1.01.0610.0 | 0610                     | 192    |                      |     |
| 1.01.0611.0 | 0611                     | 192    |                      |     |
| 1.01.0612.0 | 0612                     | 192    |                      |     |
| 1.01.0613.0 | 0613                     | 192    |                      |     |
| 1.01.0615.0 | 0615                     | 192    |                      |     |
| 1.01.0617.0 | 0617                     | 192    |                      |     |

| Nº ZEN      | ANTIGO<br>OLD<br>ANTIGUO | Nº ZEN | NOVO<br>NEW<br>NUEVO | Pg. |
|-------------|--------------------------|--------|----------------------|-----|
| 1.01.0619.0 | 0619                     | 193    |                      |     |
| 1.01.0622.0 | 0622                     | 193    |                      |     |
| 1.01.0624.0 | 0624                     | 193    |                      |     |
| 1.01.0625.0 | 0625                     | 193    |                      |     |
| 1.01.0626.0 | 0626                     | 193    |                      |     |
| 1.01.0627.0 | 0627                     | 193    |                      |     |
| 1.01.0629.0 | 0629                     | 193    |                      |     |
| 1.01.0630.0 | 0630                     | 193    |                      |     |
| 1.01.0631.0 | 0631                     | 193    |                      |     |
| 1.01.0632.0 | 0632                     | 193    |                      |     |
| 1.01.0633.0 | 0633                     | 193    |                      |     |
| 1.01.0634.0 | 0634                     | 193    |                      |     |
| 1.01.0635.0 | 0635                     | 193    |                      |     |
| 1.01.0636.0 | 0636                     | 193    |                      |     |
| 1.01.0638.0 | 0638                     | 193    |                      |     |
| 1.01.0639.0 | 0639                     | 193    |                      |     |
| 1.01.0641.0 | 0641                     | 194    |                      |     |
| 1.01.0644.0 | 0644                     | 194    |                      |     |
| 1.01.0645.0 | 0645                     | 194    |                      |     |
| 1.01.0646.0 | 0646                     | 194    |                      |     |
| 1.01.0647.0 | 0647                     | 194    |                      |     |
| 1.01.0648.0 | 0648                     | 194    |                      |     |
| 1.01.0649.0 | 0649                     | 194    |                      |     |
| 1.01.0650.0 | 0650                     | 194    |                      |     |
| 1.01.0651.0 | 0651                     | 194    |                      |     |
| 1.01.0653.0 | 0653                     | 194    |                      |     |
| 1.01.0656.0 | 0656                     | 194    |                      |     |
| 1.01.0657.0 | 0657                     | 194    |                      |     |
| 1.01.0661.0 | 0661                     | 194    |                      |     |
| 1.01.0663.0 | 0663                     | 194    |                      |     |
| 1.01.0668.0 | 0668                     | 194    |                      |     |
| 1.01.0669.0 | 0669                     | 194    |                      |     |
| 1.01.0670.0 | 0670                     | 195    |                      |     |
| 1.01.0671.0 | 0671                     | 195    |                      |     |
| 1.01.0672.0 | 0672                     | 195    |                      |     |
| 1.01.0673.0 | 0673                     | 195    |                      |     |
| 1.01.0674.0 | 0674                     | 195    |                      |     |
| 1.01.0675.0 | 0675                     | 195    |                      |     |
| 1.01.0676.0 | 0676                     | 195    |                      |     |
| 1.01.0677.0 | 0677                     | 195    |                      |     |
| 1.01.0679.0 | 0679                     | 195    |                      |     |
| 1.01.0681.0 | 0681                     | 195    |                      |     |
| 1.01.0684.0 | 0684                     | 195    |                      |     |
| 1.01.0686.0 | 0686                     | 195    |                      |     |
| 1.01.0687.0 | 0687                     | 195    |                      |     |
| 1.01.0691.0 | 0691                     | 195    |                      |     |
| 1.01.0701.0 | 0701                     | 195    |                      |     |
| 1.01.0702.0 | 0702                     | 195    |                      |     |
| 1.01.0703.0 | 0703                     | 196    |                      |     |
| 1.01.0706.0 | 0706                     | 196    |                      |     |
| 1.01.0708.0 | 0708                     | 196    |                      |     |
| 1.01.0709.0 | 0709                     | 196    |                      |     |
| 1.01.0711.0 | 0711                     | 196    |                      |     |
| 1.01.0712.0 | 0712                     | 196    |                      |     |
| 1.01.0713.0 | 0713                     | 196    |                      |     |

| Nº ZEN      | ANTIGO<br>OLD<br>ANTIGUO | Nº ZEN | NOVO<br>NEW<br>NUEVO | Pg. |
|-------------|--------------------------|--------|----------------------|-----|
| 1.01.0714.0 | 0714                     | 196    |                      |     |
| 1.01.0720.0 | 0720                     | 196    |                      |     |
| 1.01.0721.0 | 0721                     | 196    |                      |     |
| 1.01.0722.0 | 0722                     | 196    |                      |     |
| 1.01.0723.0 | 0723                     | 196    |                      |     |
| 1.01.0729.0 | 0729                     | 196    |                      |     |
| 1.01.0731.0 | 0731                     | 196    |                      |     |
| 1.01.0732.0 | 0732                     | 196    |                      |     |
| 1.01.0737.0 | 0737                     | 196    |                      |     |
| 1.01.0740.0 | 0740                     | 197    |                      |     |
| 1.01.0741.0 | 0741                     | 197    |                      |     |
| 1.01.0742.0 | 0742                     | 197    |                      |     |
| 1.01.0743.0 | 0743                     | 197    |                      |     |
| 1.01.0744.0 | 0744                     | 197    |                      |     |
| 1.01.0745.0 | 0745                     | 197    |                      |     |
| 1.01.0747.0 | 0747                     | 197    |                      |     |
| 1.01.0748.0 | 0748                     | 197    |                      |     |
| 1.01.0749.0 | 0749                     | 197    |                      |     |
| 1.01.0750.0 | 0750                     | 197    |                      |     |
| 1.01.0751.0 | 0751                     | 197    |                      |     |
| 1.01.0752.0 | 0752                     | 197    |                      |     |
| 1.01.0753.0 | 0753                     | 197    |                      |     |
| 1.01.0754.0 | 0754                     | 197    |                      |     |
| 1.01.0756.0 | 0756                     | 197    |                      |     |
| 1.01.0758.0 | 0758                     | 197    |                      |     |
| 1.01.0760.0 | 0760                     | 198    |                      |     |
| 1.01.0762.0 | 0762                     | 198    |                      |     |
| 1.01.0764.0 | 0764                     | 198    |                      |     |
| 1.01.0765.0 | 0765                     | 198    |                      |     |
| 1.01.0767.0 | 0767                     | 198    |                      |     |
| 1.01.0768.0 | 0768                     | 198    |                      |     |
| 1.01.0769.0 | 0769                     | 198    |                      |     |
| 1.01.0770.0 | 0770                     | 198    |                      |     |
| 1.01.0771.0 | 0771                     | 198    |                      |     |
| 1.01.0772.0 | 0772                     | 198    |                      |     |
| 1.01.0773.0 | 0773                     | 198    |                      |     |
| 1.01.0774.0 | 0774                     | 198    |                      |     |
| 1.01.0775.0 | 0775                     | 198    |                      |     |
| 1.01.0776.0 | 0776                     | 198    |                      |     |
| 1.01.0778.0 | 0778                     | 198    |                      |     |
| 1.01.0779.0 | 0779                     | 198    |                      |     |
| 1.01.0781.0 | 0781                     | 199    |                      |     |
| 1.01.0783.0 | 0783                     | 199    |                      |     |
| 1.01.0784.0 | 0784                     | 199    |                      |     |
| 1.01.0785.0 | 0785                     | 199    |                      |     |
| 1.01.0786.0 | 0786                     | 199    |                      |     |
| 1.01.0787.0 | 0787                     | 199    |                      |     |
| 1.01.0790.0 | 0790                     | 199    |                      |     |
| 1.01.0791.0 | 0791                     | 199    |                      |     |
| 1.01.0792.0 | 0792                     | 199    |                      |     |
| 1.01.0793.0 | 0793                     | 199    |                      |     |
| 1.01.0794.0 | 0794                     | 199    |                      |     |
| 1.01.0796.0 | 0796                     | 199    |                      |     |
| 1.01.0797.0 | 0797                     | 199    |                      |     |
| 1.01.0798.0 | 0798                     | 199    |                      |     |

| Nº ZEN      | ANTIGO<br>OLD<br>ANTIGUO | Nº ZEN | NOVO<br>NEW<br>NUEVO | Pg. |
|-------------|--------------------------|--------|----------------------|-----|
| 1.01.0799.0 | 0799                     | 199    |                      |     |
| 1.01.0800.0 | 0800                     | 199    |                      |     |
| 1.01.0801.0 | 0801                     | 200    |                      |     |
| 1.01.0803.0 | 0803                     | 200    |                      |     |
| 1.01.0805.0 | 0805                     | 200    |                      |     |
| 1.01.0806.0 | 0806                     | 200    |                      |     |
| 1.01.0808.0 | 0808                     | 200    |                      |     |
| 1.01.0809.0 | 0809                     | 200    |                      |     |
| 1.01.0813.0 | 0813                     | 200    |                      |     |
| 1.01.0814.0 | 0814                     | 200    |                      |     |
| 1.01.0815.0 | 0815                     | 200    |                      |     |
| 1.01.0816.0 | 0816                     | 200    |                      |     |
| 1.01.0817.0 | 0817                     | 200    |                      |     |
| 1.01.0818.0 | 0818                     | 200    |                      |     |
| 1.01.0820.0 | 0820                     | 200    |                      |     |
| 1.01.0821.0 | 0821                     | 200    |                      |     |
| 1.01.0822.0 | 0822                     | 200    |                      |     |
| 1.01.0823.0 | 0823                     | 200    |                      |     |
| 1.01.0825.0 | 0825                     | 201    |                      |     |
| 1.01.0826.0 | 0826                     | 201    |                      |     |
| 1.01.0828.0 | 0828                     | 201    |                      |     |
| 1.01.0830.0 | 0830                     | 201    |                      |     |
| 1.01.0831.0 | 0831                     | 201    |                      |     |
| 1.01.0832.0 | 0832                     | 201    |                      |     |
| 1.01.0836.0 | 0836                     | 201    |                      |     |
| 1.01.0837.0 | 0837                     | 201    |                      |     |
| 1.01.0838.0 | 0838                     | 201    |                      |     |
| 1.01.0841.0 | 0841                     | 201    |                      |     |
| 1.01.0843.0 | 0843                     | 201    |                      |     |
| 1.01.0844.0 | 0844                     | 201    |                      |     |
| 1.01.0846.0 | 0846                     | 201    |                      |     |
| 1.01.0850.0 | 0850                     | 201    |                      |     |
| 1.01.0851.0 | 0851                     | 201    |                      |     |
| 1.01.0852.0 | 0852                     | 201    |                      |     |
| 1.01.0853.0 | 0853                     | 202    |                      |     |
| 1.01.0854.0 | 0854                     | 202    |                      |     |
| 1.01.0855.0 | 0855                     | 202    |                      |     |
| 1.01.0857.0 | 0857                     | 202    |                      |     |
| 1.01.0860.0 | 0860                     | 202    |                      |     |
| 1.01.0861.0 | 0861                     | 202    |                      |     |
| 1.01.0863.0 | 0863                     | 202    |                      |     |
| 1.01.0866.0 | 0866                     | 202    |                      |     |
| 1.01.0868.0 | 0868                     | 202    |                      |     |
| 1.01.0871.0 | 0871                     | 202    |                      |     |
| 1.01.0874.0 | 0874                     | 202    |                      |     |
| 1.01.0875.0 | 0875                     | 202    |                      |     |
| 1.01.0878.0 | 0878                     | 202    |                      |     |
| 1.01.0879.0 | 0879                     | 202    |                      |     |
| 1.01.0887.0 | 0887                     | 202    |                      |     |
| 1.01.0888.0 | 0888                     | 202    |                      |     |
| 1.01.0890.0 | 0890                     | 203    |                      |     |
| 1.01.0892.0 | 0892                     | 203    |                      |     |
| 1.01.0893.0 | 0893                     | 203    |                      |     |
| 1.01.0894.0 | 0894                     | 203    |                      |     |
| 1.01.0895.0 | 0895                     | 203    |                      |     |

| Nº ZEN      | ANTIGO<br>OLD<br>ANTIGUO | NOVO<br>NEW<br>NUEVO | Pg. |
|-------------|--------------------------|----------------------|-----|
| 1.01.0898.0 | 0898                     | 203                  |     |
| 1.01.0900.0 | 0900                     | 203                  |     |
| 1.01.0901.0 | 0901                     | 203                  |     |
| 1.01.0902.0 | 0902                     | 203                  |     |
| 1.01.0905.0 | 0905                     | 203                  |     |
| 1.01.0906.0 | 0906                     | 203                  |     |
| 1.01.0907.0 | 0907                     | 203                  |     |
| 1.01.0908.0 | 0908                     | 203                  |     |
| 1.01.0910.0 | 0910                     | 203                  |     |
| 1.01.0914.0 | 0914                     | 203                  |     |
| 1.01.0915.0 | 0915                     | 203                  |     |
| 1.01.0916.0 | 0916                     | 204                  |     |
| 1.01.0917.0 | 0917                     | 204                  |     |
| 1.01.0918.0 | 0918                     | 204                  |     |
| 1.01.0919.0 | 0919                     | 204                  |     |
| 1.01.0920.0 | 0920                     | 204                  |     |
| 1.01.0921.0 | 0921                     | 204                  |     |
| 1.01.0925.0 | 0925                     | 204                  |     |
| 1.01.0926.0 | 0926                     | 204                  |     |
| 1.01.0929.0 | 0929                     | 204                  |     |
| 1.01.0930.0 | 0930                     | 204                  |     |
| 1.01.0931.0 | 0931                     | 204                  |     |
| 1.01.0932.0 | 0932                     | 204                  |     |
| 1.01.0933.0 | 0933                     | 204                  |     |
| 1.01.0935.0 | 0935                     | 204                  |     |
| 1.01.0936.0 | 0936                     | 204                  |     |
| 1.01.0937.0 | 0937                     | 204                  |     |
| 1.01.0938.0 | 0938                     | 205                  |     |
| 1.01.0940.0 | 0940                     | 205                  |     |
| 1.01.0942.0 | 0942                     | 205                  |     |
| 1.01.0943.0 | 0943                     | 205                  |     |
| 1.01.0945.0 | 0945                     | 205                  |     |
| 1.01.0946.0 | 0946                     | 205                  |     |
| 1.01.0947.0 | 0947                     | 205                  |     |
| 1.01.0948.0 | 0948                     | 205                  |     |
| 1.01.0950.0 | 0950                     | 205                  |     |
| 1.01.0951.0 | 0951                     | 205                  |     |
| 1.01.0953.0 | 0953                     | 205                  |     |
| 1.01.0954.0 | 0954                     | 205                  |     |
| 1.01.0957.0 | 0957                     | 205                  |     |
| 1.01.0958.0 | 0958                     | 205                  |     |
| 1.01.0959.0 | 0959                     | 205                  |     |
| 1.01.0960.0 | 0960                     | 205                  |     |
| 1.01.0961.0 | 0961                     | 206                  |     |
| 1.01.0962.0 | 0962                     | 206                  |     |
| 1.01.0965.0 | 0965                     | 206                  |     |
| 1.01.0969.0 | 0969                     | 206                  |     |
| 1.01.0970.0 | 0970                     | 206                  |     |
| 1.01.0972.0 | 0972                     | 206                  |     |
| 1.01.0975.0 | 0975                     | 206                  |     |
| 1.01.0976.0 | 0976                     | 206                  |     |
| 1.01.0977.0 | 0977                     | 206                  |     |
| 1.01.0978.0 | 0978                     | 206                  |     |
| 1.01.0981.0 | 0981                     | 206                  |     |
| 1.01.0983.0 | 0983                     | 206                  |     |

| Nº ZEN      | ANTIGO<br>OLD<br>ANTIGUO | NOVO<br>NEW<br>NUEVO | Pg. |
|-------------|--------------------------|----------------------|-----|
| 1.01.0985.0 | 0985                     | 206                  |     |
| 1.01.0989.0 | 0989                     | 206                  |     |
| 1.01.0990.0 | 0990                     | 206                  |     |
| 1.01.0991.0 | 0991                     | 206                  |     |
| 1.01.0996.0 | 0996                     | 207                  |     |
| 1.01.0997.0 | 0997                     | 207                  |     |
| 1.01.0998.0 | 0998                     | 207                  |     |
| 1.01.0999.0 | 0999                     | 207                  |     |
| 1.01.1001.0 | 1001                     | 207                  |     |
| 1.01.1002.0 | 1002                     | 207                  |     |
| 1.01.1003.0 | 1003                     | 207                  |     |
| 1.01.1004.0 | 1004                     | 207                  |     |
| 1.01.1005.0 | 1005                     | 207                  |     |
| 1.01.1011.0 | 1011                     | 207                  |     |
| 1.01.1013.0 | 1013                     | 207                  |     |
| 1.01.1016.0 | 1016                     | 207                  |     |
| 1.01.1017.0 | 1017                     | 207                  |     |
| 1.01.1018.0 | 1018                     | 207                  |     |
| 1.01.1019.0 | 1019                     | 207                  |     |
| 1.01.1020.0 | 1020                     | 207                  |     |
| 1.01.1021.0 | 1021                     | 208                  |     |
| 1.01.1022.0 | 1022                     | 208                  |     |
| 1.01.1023.0 | 1023                     | 208                  |     |
| 1.01.1024.0 | 1024                     | 208                  |     |
| 1.01.1025.0 | 1025                     | 208                  |     |
| 1.01.1026.0 | 1026                     | 208                  |     |
| 1.01.1027.0 | 1027                     | 208                  |     |
| 1.01.1030.0 | 1030                     | 208                  |     |
| 1.01.1031.0 | 1031                     | 208                  |     |
| 1.01.1033.0 | 1033                     | 208                  |     |
| 1.01.1036.0 | 1036                     | 208                  |     |
| 1.01.1037.0 | 1037                     | 208                  |     |
| 1.01.1038.0 | 1038                     | 208                  |     |
| 1.01.1042.0 | 1042                     | 208                  |     |
| 1.01.1043.0 | 1043                     | 208                  |     |
| 1.01.1046.0 | 1046                     | 208                  |     |
| 1.01.1047.0 | 1047                     | 209                  |     |
| 1.01.1048.0 | 1048                     | 209                  |     |
| 1.01.1054.0 | 1054                     | 209                  |     |
| 1.01.1056.0 | 1056                     | 209                  |     |
| 1.01.1057.0 | 1057                     | 209                  |     |
| 1.01.1058.0 | 1058                     | 209                  |     |
| 1.01.1059.0 | 1059                     | 209                  |     |
| 1.01.1060.0 | 1060                     | 209                  |     |
| 1.01.1062.0 | 1062                     | 209                  |     |
| 1.01.1063.0 | 1063                     | 209                  |     |
| 1.01.1064.0 | 1064                     | 209                  |     |
| 1.01.1065.0 | 1065                     | 209                  |     |
| 1.01.1067.0 | 1067                     | 209                  |     |
| 1.01.1068.0 | 1068                     | 209                  |     |
| 1.01.1069.0 | 1069                     | 209                  |     |
| 1.01.1070.0 | 1070                     | 209                  |     |
| 1.01.1071.0 | 1071                     | 210                  |     |
| 1.01.1072.0 | 1072                     | 210                  |     |
| 1.01.1073.0 | 1073                     | 210                  |     |

| Nº ZEN      | ANTIGO<br>OLD<br>ANTIGUO | NOVO<br>NEW<br>NUEVO | Pg. |
|-------------|--------------------------|----------------------|-----|
| 1.01.1074.0 | 1074                     | 210                  |     |
| 1.01.1076.0 | 1076                     | 210                  |     |
| 1.01.1081.0 | 1081                     | 210                  |     |
| 1.01.1082.0 | 1082                     | 210                  |     |
| 1.01.1088.0 | 1088                     | 210                  |     |
| 1.01.1090.0 | 1090                     | 210                  |     |
| 1.01.1091.0 | 1091                     | 210                  |     |
| 1.01.1092.0 | 1092                     | 210                  |     |
| 1.01.1097.0 | 1097                     | 210                  |     |
| 1.01.1098.0 | 1098                     | 210                  |     |
| 1.01.1104.0 | 1104                     | 210                  |     |
| 1.01.1107.0 | 1107                     | 210                  |     |
| 1.01.1108.0 | 1108                     | 210                  |     |
| 1.01.1109.0 | 1109                     | 211                  |     |
| 1.01.1112.0 | 1112                     | 211                  |     |
| 1.01.1113.0 | 1113                     | 211                  |     |
| 1.01.1117.0 | 1117                     | 211                  |     |
| 1.01.1133.0 | 1133                     | 211                  |     |
| 1.01.1134.0 | 1134                     | 211                  |     |
| 1.01.1152.0 | 1152                     | 211                  |     |
| 1.01.1153.0 | 1153                     | 211                  |     |
| 1.01.1155.0 | 1155                     | 211                  |     |
| 1.01.1156.0 | 1156                     | 211                  |     |
| 1.01.1157.0 | 1157                     | 211                  |     |
| 1.01.1158.0 | 1158                     | 211                  |     |
| 1.01.1159.0 | 1159                     | 211                  |     |
| 1.01.1160.0 | 1160                     | 211                  |     |
| 1.01.1161.0 | 1161                     | 211                  |     |
| 1.01.1162.0 | 1162                     | 211                  |     |
| 1.01.1168.0 | 1168                     | 212                  |     |
| 1.01.1169.0 | 1169                     | 212                  |     |
| 1.01.1170.0 | 1170                     | 212                  |     |
| 1.01.1171.0 | 1171                     | 212                  |     |
| 1.01.1172.0 | 1172                     | 212                  |     |
| 1.01.1173.0 | 1173                     | 212                  |     |
| 1.01.1174.0 | 1174                     | 212                  |     |
| 1.01.1177.0 | 1177                     | 212                  |     |
| 1.01.1178.0 | 1178                     | 212                  |     |
| 1.01.1179.0 | 1179                     | 212                  |     |
| 1.01.1180.0 | 1180                     | 212                  |     |
| 1.01.0020.1 | 1184                     | 212                  |     |
| 1.01.0287.1 | 1187                     | 212                  |     |
| 1.01.0409.1 | 1188                     | 212                  |     |
| 1.01.0433.1 | 1189                     | 212                  |     |
| 1.01.0491.1 | 1190                     | 212                  |     |
| 1.01.0536.1 | 1191                     | 213                  |     |
| 1.01.0620.1 | 1192                     | 213                  |     |
| 1.01.0623.1 | 1193                     | 213                  |     |
| 1.01.0629.1 | 1194                     | 213                  |     |
| 1.01.0649.1 | 1195                     | 213                  |     |
| 1.01.0650.1 | 1196                     | 213                  |     |
| 1.01.0651.1 | 1197                     | 213                  |     |
| 1.01.0652.1 | 1198                     | 213                  |     |
| 1.01.0662.1 | 1199                     | 213                  |     |
| 1.01.0737.1 | 1200                     | 213                  |     |

| Nº ZEN      | ANTIGO<br>OLD<br>ANTIGUO | NOVO<br>NEW<br>NUEVO | Pg. |
|-------------|--------------------------|----------------------|-----|
| 1.01.0750.1 | 1201                     | 213                  |     |
| 1.01.0778.1 | 1204                     | 213                  |     |
| 1.01.0780.1 | 1205                     | 213                  |     |
| 1.01.0786.1 | 1206                     | 213                  |     |
| 1.01.0793.1 | 1207                     | 213                  |     |
| 1.01.0824.1 | 1208                     | 213                  |     |
| 1.01.0833.1 | 1209                     | 214                  |     |
| 1.01.0870.1 | 1210                     | 214                  |     |
| 1.01.0883.1 | 1211                     | 214                  |     |
| 1.01.0884.1 | 1212                     | 214                  |     |
| 1.01.0885.1 | 1213                     | 214                  |     |
| 1.01.0921.1 | 1215                     | 214                  |     |
| 1.01.0941.1 | 1217                     | 214                  |     |
| 1.01.0974.1 | 1218                     | 214                  |     |
| 1.01.1014.1 | 1221                     | 214                  |     |
| 1.01.1078.1 | 1222                     | 214                  |     |
| 1.01.1080.1 | 1223                     | 214                  |     |
| 1.01.0620.2 | 1224                     | 214                  |     |
| 1.01.0623.2 | 1225                     | 214                  |     |
| 1.01.0662.2 | 1226                     | 214                  |     |
| 1.01.0786.2 | 1227                     | 214                  |     |
| 1.01.0824.2 | 1228                     | 214                  |     |
| 1.01.0968.3 | 1351                     | 215                  |     |
| 1.01.0024.4 | 1359                     | 215                  |     |
| 1.01.0105.4 | 1364                     | 215                  |     |
| 1.01.0748.4 | 1372                     | 215                  |     |
| 1.01.1451.0 | 1451                     | 215                  |     |
| 1.01.1453.0 | 1453                     | 215                  |     |
| 1.01.1454.0 | 1454                     | 215                  |     |
| 1.01.1455.0 | 1455                     | 215                  |     |
| 1.01.1458.0 | 1458                     | 215                  |     |
| 1.01.1467.0 | 1467                     | 215                  |     |
| 1.01.1468.0 | 1468                     | 215                  |     |
| 1.01.1469.0 | 1469                     | 215                  |     |
| 1.01.1470.0 | 1470                     | 215                  |     |
| 1.01.1471.0 | 1471                     | 215                  |     |
| 1.01.1472.0 | 1472                     | 215                  |     |
| 1.01.1473.0 | 1473                     | 215                  |     |
| 1.01.1474.0 | 1474                     | 216                  |     |
| 1.01.1475.0 | 1475                     | 216                  |     |
| 1.01.1477.0 | 1477                     | 216                  |     |
| 1.01.1478.0 | 1478                     | 216                  |     |
| 1.01.1480.0 | 1480                     | 216                  |     |
| 1.01.1482.0 | 1482                     | 216                  |     |
| 1.01.1483.0 | 1483                     | 216                  |     |
| 1.01.1484.0 | 1484                     | 216                  |     |
| 1.01.1485.0 | 1485                     | 216                  |     |
| 1.01.1486.0 | 1486                     | 216                  |     |
| 1.01.1487.0 | 1487                     | 216                  |     |
| 1.01.1496.0 | 1496                     | 216                  |     |
| 1.01.1502.0 | 1502                     | 216                  |     |
| 1.01.1504.0 | 1504                     | 216                  |     |
| 1.01.1509.0 | 1509                     | 216                  |     |
| 1.01.1516.0 | 1516                     | 216                  |     |
| 1.01.1518.0 | 1518                     | 217                  |     |

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|-------------|--------------------------|--------|----------------------|-----|
| 1.01.1521.0 | 1521                     | 217    |                      |     |
| 1.01.1523.0 | 1523                     | 217    |                      |     |
| 1.01.1526.0 | 1526                     | 217    |                      |     |
| 1.01.1532.0 | 1532                     | 217    |                      |     |
| 1.01.1533.0 | 1533                     | 217    |                      |     |
| 1.01.1534.0 | 1534                     | 217    |                      |     |
| 1.01.1538.0 | 1538                     | 217    |                      |     |
| 1.01.1539.0 | 1539                     | 217    |                      |     |
| 1.01.1545.0 | 1545                     | 217    |                      |     |
| 1.01.1547.0 | 1547                     | 217    |                      |     |
| 1.01.1548.0 | 1548                     | 217    |                      |     |
| 1.01.1550.0 | 1550                     | 217    |                      |     |
| 1.01.1552.0 | 1552                     | 217    |                      |     |
| 1.01.1553.0 | 1553                     | 217    |                      |     |
| 1.01.1555.0 | 1555                     | 217    |                      |     |
| 1.01.1556.0 | 1556                     | 218    |                      |     |
| 1.01.1557.0 | 1557                     | 218    |                      |     |
| 1.01.1561.0 | 1561                     | 218    |                      |     |
| 1.01.1562.0 | 1562                     | 218    |                      |     |
| 1.01.1563.0 | 1563                     | 218    |                      |     |
| 1.01.1566.0 | 1566                     | 218    |                      |     |
| 1.01.1567.0 | 1567                     | 218    |                      |     |
| 1.01.1570.0 | 1570                     | 218    |                      |     |
| 1.01.1573.0 | 1573                     | 218    |                      |     |
| 1.01.1574.0 | 1574                     | 218    |                      |     |
| 1.01.1575.0 | 1575                     | 218    |                      |     |
| 1.01.1576.0 | 1576                     | 218    |                      |     |
| 1.01.1577.0 | 1577                     | 218    |                      |     |
| 1.01.1585.0 | 1585                     | 218    |                      |     |
| 1.01.1588.0 | 1588                     | 218    |                      |     |
| 1.01.1592.0 | 1592                     | 218    |                      |     |
| 1.01.1594.0 | 1594                     | 219    |                      |     |
| 1.01.1595.0 | 1595                     | 219    |                      |     |
| 1.01.1596.0 | 1596                     | 219    |                      |     |
| 1.01.1597.0 | 1597                     | 219    |                      |     |
| 1.01.1600.0 | 1600                     | 219    |                      |     |
| 1.01.1601.0 | 1601                     | 219    |                      |     |
| 1.01.1602.0 | 1602                     | 219    |                      |     |
| 1.01.1603.0 | 1603                     | 219    |                      |     |
| 1.01.1604.0 | 1604                     | 219    |                      |     |
| 1.01.1605.0 | 1605                     | 219    |                      |     |
| 1.01.1607.0 | 1607                     | 219    |                      |     |
| 1.01.1608.0 | 1608                     | 219    |                      |     |
| 1.01.1612.0 | 1612                     | 219    |                      |     |
| 1.01.1613.0 | 1613                     | 219    |                      |     |
| 1.01.1614.0 | 1614                     | 219    |                      |     |
| 1.01.1615.0 | 1615                     | 219    |                      |     |
| 1.01.1616.0 | 1616                     | 220    |                      |     |
| 1.01.1617.0 | 1617                     | 220    |                      |     |
| 1.01.1618.0 | 1618                     | 220    |                      |     |
| 1.01.1619.0 | 1619                     | 220    |                      |     |
| 1.01.1620.0 | 1620                     | 220    |                      |     |
| 1.01.1621.0 | 1621                     | 220    |                      |     |
| 1.01.1622.0 | 1622                     | 220    |                      |     |
| 1.01.1623.0 | 1623                     | 220    |                      |     |

| Nº ZEN      | ANTIGO<br>OLD<br>ANTIGUO | Nº ZEN | NOVO<br>NEW<br>NUEVO | Pg. |
|-------------|--------------------------|--------|----------------------|-----|
| 1.01.1624.0 | 1624                     | 220    |                      |     |
| 1.01.1629.0 | 1629                     | 220    |                      |     |
| 1.01.1630.0 | 1630                     | 220    |                      |     |
| 1.01.1631.0 | 1631                     | 220    |                      |     |
| 1.01.1632.0 | 1632                     | 220    |                      |     |
| 1.01.1633.0 | 1633                     | 220    |                      |     |
| 1.01.1635.0 | 1635                     | 220    |                      |     |
| 1.01.1636.0 | 1636                     | 220    |                      |     |
| 1.01.1637.0 | 1637                     | 221    |                      |     |
| 1.01.1638.0 | 1638                     | 221    |                      |     |
| 1.01.1641.0 | 1641                     | 221    |                      |     |
| 1.01.1642.0 | 1642                     | 221    |                      |     |
| 1.01.1643.0 | 1643                     | 221    |                      |     |
| 1.01.1646.0 | 1646                     | 221    |                      |     |
| 1.01.1647.0 | 1647                     | 221    |                      |     |
| 1.01.1648.0 | 1648                     | 221    |                      |     |
| 1.01.1650.0 | 1650                     | 221    |                      |     |
| 1.01.1651.0 | 1651                     | 221    |                      |     |
| 1.01.1655.0 | 1655                     | 221    |                      |     |
| 1.01.1656.0 | 1656                     | 221    |                      |     |
| 1.01.1658.0 | 1658                     | 221    |                      |     |
| 1.01.1661.0 | 1661                     | 221    |                      |     |
| 1.01.1666.0 | 1666                     | 221    |                      |     |
| 1.01.1667.0 | 1667                     | 221    |                      |     |
| 1.01.1668.0 | 1668                     | 222    |                      |     |
| 1.01.1669.0 | 1669                     | 222    |                      |     |
| 1.01.1670.0 | 1670                     | 222    |                      |     |
| 1.01.1671.0 | 1671                     | 222    |                      |     |
| 1.01.1672.0 | 1672                     | 222    |                      |     |
| 1.01.1673.0 | 1673                     | 222    |                      |     |
| 1.01.1674.0 | 1674                     | 222    |                      |     |
| 1.01.1675.0 | 1675                     | 222    |                      |     |
| 1.01.1676.0 | 1676                     | 222    |                      |     |
| 1.01.1677.0 | 1677                     | 222    |                      |     |
| 1.01.1678.0 | 1678                     | 222    |                      |     |
| 1.01.1679.0 | 1679                     | 222    |                      |     |
| 1.01.1680.0 | 1680                     | 222    |                      |     |
| 1.01.1681.0 | 1681                     | 222    |                      |     |
| 1.01.1682.0 | 1682                     | 222    |                      |     |
| 1.01.1684.0 | 1684                     | 222    |                      |     |
| 1.01.1685.0 | 1685                     | 223    |                      |     |
| 1.01.1686.0 | 1686                     | 223    |                      |     |
| 1.01.1687.0 | 1687                     | 223    |                      |     |
| 1.01.1690.0 | 1690                     | 223    |                      |     |
| 1.01.1691.0 | 1691                     | 223    |                      |     |
| 1.01.1692.0 | 1692                     | 223    |                      |     |
| 1.01.1693.0 | 1693                     | 223    |                      |     |
| 1.01.1695.0 | 1695                     | 223    |                      |     |
| 1.01.1696.0 | 1696                     | 223    |                      |     |
| 1.01.1697.0 | 1697                     | 223    |                      |     |
| 1.01.1698.0 | 1698                     | 223    |                      |     |
| 1.01.1699.0 | 1699                     | 223    |                      |     |
| 1.01.1700.0 | 1700                     | 223    |                      |     |
| 1.01.1701.0 | 1701                     | 223    |                      |     |
| 1.01.1702.0 | 1702                     | 223    |                      |     |

| Nº ZEN      | ANTIGO<br>OLD<br>ANTIGUO | Nº ZEN | NOVO<br>NEW<br>NUEVO | Pg. |
|-------------|--------------------------|--------|----------------------|-----|
| 1.01.1704.0 | 1704                     | 223    |                      |     |
| 1.01.1705.0 | 1705                     | 224    |                      |     |
| 1.01.1706.0 | 1706                     | 224    |                      |     |
| 1.01.1707.0 | 1707                     | 224    |                      |     |
| 1.01.1708.0 | 1708                     | 224    |                      |     |
| 1.01.1709.0 | 1709                     | 224    |                      |     |
| 1.01.1711.0 | 1711                     | 224    |                      |     |
| 1.01.1712.0 | 1712                     | 224    |                      |     |
| 1.01.1713.0 | 1713                     | 224    |                      |     |
| 1.01.1714.0 | 1714                     | 224    |                      |     |
| 1.01.1715.0 | 1715                     | 224    |                      |     |
| 1.01.1716.0 | 1716                     | 224    |                      |     |
| 1.01.1717.0 | 1717                     | 224    |                      |     |
| 1.01.1718.0 | 1718                     | 224    |                      |     |
| 1.01.1719.0 | 1719                     | 224    |                      |     |
| 1.01.1720.0 | 1720                     | 224    |                      |     |
| 1.01.1722.0 | 1722                     | 224    |                      |     |
| 1.01.1723.0 | 1723                     | 225    |                      |     |
| 1.01.1725.0 | 1725                     | 225    |                      |     |
| 1.01.1726.0 | 1726                     | 225    |                      |     |
| 1.01.1727.0 | 1727                     | 225    |                      |     |
| 1.01.1729.0 | 1729                     | 225    |                      |     |
| 1.01.1731.0 | 1731                     | 225    |                      |     |
| 1.01.1733.0 | 1733                     | 225    |                      |     |
| 1.01.1734.0 | 1734                     | 225    |                      |     |
| 1.01.1735.0 | 1735                     | 225    |                      |     |
| 1.01.1736.0 | 1736                     | 225    |                      |     |
| 1.01.1740.0 | 1740                     | 225    |                      |     |
| 1.01.1741.0 | 1741                     | 225    |                      |     |
| 1.01.1743.0 | 1743                     | 225    |                      |     |
| 1.01.1744.0 | 1744                     | 225    |                      |     |
| 1.01.1745.0 | 1745                     | 225    |                      |     |
| 1.01.1751.0 | 1751                     | 225    |                      |     |
| 1.01.1752.0 | 1752                     | 226    |                      |     |
| 1.01.1753.0 | 1753                     | 226    |                      |     |
| 1.01.1754.0 | 1754                     | 226    |                      |     |
| 1.01.1755.0 | 1755                     | 226    |                      |     |
| 1.01.1756.0 | 1756                     | 226    |                      |     |
| 1.01.1757.0 | 1757                     | 226    |                      |     |
| 1.01.1758.0 | 1758                     | 226    |                      |     |
| 1.01.1759.0 | 1759                     | 226    |                      |     |
| 1.01.1761.0 | 1761                     | 226    |                      |     |
| 1.01.1762.0 | 1762                     | 226    |                      |     |
| 1.01.1763.0 | 1763                     | 226    |                      |     |
| 1.01.1764.0 | 1764                     | 226    |                      |     |
| 1.01.1765.0 | 1765                     | 226    |                      |     |
| 1.01.1766.0 | 1766                     | 226    |                      |     |
| 1.01.1767.0 | 1767                     | 226    |                      |     |
| 1.01.1768.0 | 1768                     | 226    |                      |     |
| 1.01.1769.0 | 1769                     | 227    |                      |     |
| 1.01.1770.0 | 1770                     | 227    |                      |     |
| 1.01.1771.0 | 1771                     | 227    |                      |     |
| 1.01.1772.0 | 1772                     | 227    |                      |     |
| 1.01.1774.0 | 1774                     | 227    |                      |     |
| 1.01.1775.0 | 1775                     | 227    |                      |     |

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| 1.01.1776.0 | 1776                     | 227    |                      |     |
| 1.01.1777.0 | 1777                     | 227    |                      |     |
| 1.01.1778.0 | 1778                     | 227    |                      |     |
| 1.01.1779.0 | 1779                     | 227    |                      |     |
| 1.01.1780.0 | 1780                     | 227    |                      |     |
| 1.01.1781.0 | 1781                     | 227    |                      |     |
| 1.01.1784.0 | 1784                     | 227    |                      |     |
| 1.01.1785.0 | 1785                     | 227    |                      |     |
| 1.01.1786.0 | 1786                     | 227    |                      |     |
| 1.01.1787.0 | 1787                     | 227    |                      |     |
| 1.01.1788.0 | 1788                     | 228    |                      |     |
| 1.01.1790.0 | 1790                     | 228    |                      |     |
| 1.01.1791.0 | 1791                     | 228    |                      |     |
| 1.01.1794.0 | 1794                     | 228    |                      |     |
| 1.01.1796.0 | 1796                     | 228    |                      |     |
| 1.01.1797.0 | 1797                     | 228    |                      |     |
| 1.01.1799.0 | 1799                     | 228    |                      |     |
| 1.01.1800.0 | 1800                     | 228    |                      |     |
| 1.01.1801.0 | 1801                     | 228    |                      |     |
| 1.01.1803.0 | 1803                     | 228    |                      |     |
| 1.01.1805.0 | 1805                     | 228    |                      |     |
| 1.01.1806.0 | 1806                     | 228    |                      |     |
| 1.01.1807.0 | 1807                     | 228    |                      |     |
| 1.01.1808.0 | 1808                     | 228    |                      |     |
| 1.01.1809.0 | 1809                     | 228    |                      |     |
| 1.01.1810.0 | 1810                     | 228    |                      |     |
| 1.01.1811.0 | 1811                     | 229    |                      |     |
| 1.01.1812.0 | 1812                     | 229    |                      |     |
| 1.01.1813.0 | 1813                     | 229    |                      |     |
| 1.01.1815.0 | 1815                     | 229    |                      |     |
| 1.01.1816.0 | 1816                     | 229    |                      |     |
| 1.01.1818.0 | 1818                     | 229    |                      |     |
| 1.01.1819.0 | 1819                     | 229    |                      |     |
| 1.01.1820.0 | 1820                     | 229    |                      |     |
| 1.01.1822.0 | 1822                     | 229    |                      |     |
| 1.01.1823.0 | 1823                     | 229    |                      |     |
| 1.01.1824.0 | 1824                     | 229    |                      |     |
| 1.01.1825.0 | 1825                     | 229    |                      |     |
| 1.01.1826.0 | 1826                     | 229    |                      |     |
| 1.01.1827.0 | 1827                     | 229    |                      |     |
| 1.01.1828.0 | 1828                     | 229    |                      |     |
| 1.01.1829.0 | 1829                     | 229    |                      |     |
| 1.01.1830.0 | 1830                     | 230    |                      |     |
| 1.01.1831.0 | 1831                     | 230    |                      |     |
| 1.01.1837.0 | 1837                     | 230    |                      |     |
| 1.01.1838.0 | 1838                     | 230    |                      |     |
| 1.01.1839.0 | 1839                     | 230    |                      |     |
| 1.01.1840.0 | 1840                     | 230    |                      |     |
| 1.01.1841.0 | 1841                     | 230    |                      |     |
| 1.01.1845.0 | 1845                     | 230    |                      |     |
| 1.01.1846.0 | 1846                     | 230    |                      |     |
| 1.01.1847.0 | 1847                     | 230    |                      |     |
| 1.01.1848.0 | 1848                     | 230    |                      |     |
|             | 1849                     | 230    |                      |     |
| 1.01.1853.0 | 1853                     | 230    |                      |     |



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| 1.01.1854.0 |                          | 1854   |                      | 230 |
| 1.01.1856.0 |                          | 1856   |                      | 230 |
| 1.01.1857.0 |                          | 1857   |                      | 230 |
| 1.01.1858.0 |                          | 1858   |                      | 231 |
| 1.01.1860.0 |                          | 1860   |                      | 231 |
| 1.01.1861.0 |                          | 1861   |                      | 231 |
| 1.01.1862.0 |                          | 1862   |                      | 231 |
| 1.01.1863.0 |                          | 1863   |                      | 231 |
| 1.01.1864.0 |                          | 1864   |                      | 231 |
| 1.01.1865.0 |                          | 1865   |                      | 231 |
| 1.01.1866.0 |                          | 1866   |                      | 231 |
| 1.01.1871.0 |                          | 1871   |                      | 231 |
| 1.01.1872.0 |                          | 1872   |                      | 231 |
| 1.01.1873.0 |                          | 1873   |                      | 231 |
| 1.01.1874.0 |                          | 1874   |                      | 231 |
| 1.01.1875.0 |                          | 1875   |                      | 231 |
| 1.01.1876.0 |                          | 1876   |                      | 231 |
| 1.01.1878.0 |                          | 1878   |                      | 231 |
| 1.01.1879.0 |                          | 1879   |                      | 231 |
| 1.01.1880.0 |                          | 1880   |                      | 232 |
| 1.01.1881.0 |                          | 1881   |                      | 232 |
| 1.01.1882.0 |                          | 1882   |                      | 232 |
|             |                          | 1883   |                      | 232 |
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| BV 590 F4L912 Deutz Diesel                             | 0308          | 183        | 6150  | 1073   | 210 | Motor Estacionário M80  | 0062          | 177        |
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| Integra 4 Cil 1.8L 1834cc                              | 9542          | 235        | Caminhões 6000, 8500 e 9200 Com<br>Motores MWM 4.10 TCA e MWM 4.12<br>TCE                                     | 1679   | 222 | Trator 4100   | 1796          | 228        |
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| Integra L4 1.7L 1678cc                                 | 1212          | 214        | Chassis MA 7.9, MA8.5, MA9.2,<br>MA10.0, MA12.0, MA15.0 e MT12.0<br>Com Motores MWM4.10 TCA e MWM<br>4.12 TCE | 1679   | 222 | Trator 4100.4   | 1796          | 228        |
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| 4100   | 0062          | 177        |   |        |     |   |               |            |
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| 145, 145 1.6ie                   | 12683  | 240 | Giulia Super 1.3, 1.6                         | 0307          | 183        | Ambassador V8 6.4L 390cid        | 0135          | 180        |
| 146 1.4 16V                      | 1169   | 212 | Giulietta 1.3, 1.8, 2.0                       | 0108          | 179        | Ambassador V8 6.4L 6391cc 390cid | 0135          | 180        |
| 156 1.9 JTD                      | 1718   | 224 | Giulietta TD.                                 | 0706          | 196        | Ambassador V8 6.6L 401cid        | 0135          | 180        |
| 159 2.2 JTS                      | 0756   | 197 | GT Junior                                     | 0307          | 183        | Ambassador V8 6.6L 6571cc 401cid | 0135          | 180        |
| 2300                             | 0077   | 178 | GT Veloce 2000                                | 0307          | 183        | Ambassador V8 6.6L 6572cc 401cid | 0135          | 180        |
| 2300B                            | 0077   | 178 | GTV2000 2.0 e 2.5                             | 0108          | 179        | American                         | 0135          | 180        |
| 2600TT                           | 0223   | 181 | JK2000  | 0015          | 176        | AMX 8 cil 5.0L 304cid            | 0135          | 180        |
| 30                               | 0291   | 182 | JK2150  | 0015          | 176        | AMX 8 cil 5.0L 4982cc 304cid     | 0135          | 180        |
| 30AR8                            | 0310   | 183 | Spider 2.2 JTS                                | 0756          | 197        | AMX 8 cil 5.0L 4983cc 304cid     | 0135          | 180        |
| 30AR8                            | 0407   | 186 | <b>Allis Chalmers</b>                         | <b>Nº ZEN</b> | <b>Pg.</b> | AMX 8 cil 5.9L 5899cc 360cid     | 0135          | 180        |
| 30AR8                            | 0601   | 192 | 7030 6 426 Diesel                             | 0607          | 192        | AMX 8 cil 5.9L 5900cc 360cid     | 0135          | 180        |
| 32                               | 0291   | 182 | 7040 6 426 Diesel                             | 0607          | 192        | AMX 8 cil 6.6L 6571cc 401cid     | 0135          | 180        |
| 32AR8                            | 0310   | 183 | 7045 6 426 Diesel                             | 0607          | 192        | AMX 8 cil 6.6L 6572cc 401cid     | 0135          | 180        |
| 32AR8                            | 0407   | 186 | 7050 6 426 Diesel                             | 0607          | 192        | AMX V8 4.8L 290cid               | 0135          | 180        |
| 32AR8                            | 0601   | 192 | 7060 6 426 Diesel                             | 0607          | 192        | AMX V8 5.6L 343cid               | 0135          | 180        |
| 35                               | 0291   | 182 | 7080 6 426 Diesel                             | 0607          | 192        | AMX V8 5.6L 5585cc 343cid        | 0135          | 180        |
| 35AR8                            | 0310   | 183 | 7580 6 426 Diesel                             | 0607          | 192        | AMX V8 5.9L 360cid               | 0135          | 180        |
| 35AR8                            | 0407   | 186 | 8030 6 426 Diesel                             | 0607          | 192        | AMX V8 5.9L 5899cc 360cid        | 0135          | 180        |
| 35AR8                            | 0601   | 192 | 8050 6 426 Diesel                             | 0607          | 192        | AMX V8 5.9L 5900cc 360cid        | 0135          | 180        |
| 40 AR8                           | 0291   | 182 | 8070 6 426 Diesel                             | 0607          | 192        | AMX V8 6.4L 390cid               | 0135          | 180        |
| 400                              | 0036   | 233 | ACC 20 / 25 / 30 Continental F135             | 0567          | 191        | AMX V8 6.4L 6391cc 390cid        | 0135          | 180        |
| 40AR8                            | 0310   | 183 | ACC 20 / 25 / 30 Continental F163             | 0567          | 191        | Gremlin L6 3.8L 232cid           | 0135          | 180        |
| 40AR8                            | 0407   | 186 | ACC 35 / 40 / 45 / 50 / 55 Continental F163   | 0567          | 191        | Gremlin L6 3.8L 3802cc 232cid    | 0135          | 180        |
| 40AR8                            | 0601   | 192 | ACC 60 / 70 / 80 / 100 / 120 Continental F245 | 0567          | 191        | Gremlin L6 4.2L 258cid           | 0135          | 180        |
| 450                              | 0036   | 233 | ACC 60C / 70C / 100C Continental F245         | 0567          | 191        | Gremlin L6 4.2L 4228cc 258cid    | 0135          | 180        |
| Alfa 145                         | 1033   | 208 | ACP 110 Continental F245                      | 0567          | 191        | Gremlin L6 4.2L 4229cc 258cid    | 0135          | 180        |
| Alfa 146 1.9 JTD                 | 1033   | 208 | ACP 130 Continental F245                      | 0567          | 191        | Gremlin V8 5.0L 304cid           | 0135          | 180        |
| Alfa 147 1.9 JTD                 | 1033   | 208 | ACP 150 Continental F245                      | 0567          | 191        | Gremlin V8 5.0L 4982cc 304cid    | 0135          | 180        |
| Alfa 156 1.9 JTD                 | 1033   | 208 | ACP 20 / 25 / 30 Continental F135             | 0567          | 191        | Gremlin V8 5.0L 4983cc 304cid    | 0135          | 180        |
| Alfa 164 2.0                     | 0482   | 188 | ACP 20 / 25 / 30 Continental F163             | 0567          | 191        | Hornet L6 3.8L 232cid            | 0135          | 180        |
| Alfa 164 3.0                     | 0482   | 188 | ACP 40 / 50 Continental F163                  | 0567          | 191        | Hornet L6 3.8L 3802cc 232cid     | 0135          | 180        |
| Alfa 164TD                       | 0706   | 196 | ACP 60 / 70 / 80 Continental F245             | 0567          | 191        | Hornet L6 4.2L 258cid            | 0135          | 180        |
| Alfa 33 1.3, 1.5, 1.6            | 0482   | 188 | ACS 100 / 120 Continental F245                | 0567          | 191        | <b>Ashok LeyLand</b>             | <b>Nº ZEN</b> | <b>Pg.</b> |
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| Alfa 6 2.5 TD                    | 0366   | 185 | L2 6 426 Diesel                               | 0607          | 192        | <b>Asia Motors</b>               | <b>Nº ZEN</b> | <b>Pg.</b> |
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| Alfa 75 2.0                      | 0482   | 188 | M2 6 426 Diesel                               | 0607          | 192        | 1135-15                          | 0392          | 185        |
| Alfa 75TD                        | 0706   | 196 | M3 6 426 Diesel                               | 0607          | 192        | 1135-50                          | 0392          | 185        |
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| Alfa 90 2.0                      | 0482   | 188 | N6 6 426 Diesel                               | 0607          | 192        | 2135                             | 0392          | 185        |
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| Alfasud 1.2, 1.5                 | 0307   | 183 | Ambassador V8 4.8L 290cid                     | 0135          | 180        | Compressor AX430                 | 0133          | 179        |
| Alfetta 1.6,1.8, 2.0             | 0108   | 179 | Ambassador V8 5.0L 304cid                     | 0135          | 180        | PR425                            | 0087          | 233        |
| Alfetta 2.0 turbo diesel         | 0225   | 182 | Ambassador V8 5.0L 4982cc 304cid              | 0135          | 180        | Towner                           | 0519          | 189        |
| Alfetta 1.6, 1.8                 | 0307   | 183 | Ambassador V8 5.0L 4983cc 304cid              | 0135          | 180        | Towner Daewoo                    | 0854          | 202        |
| Alfetta 2.0 turbo diesel         | 0366   | 185 | Ambassador V8 5.6L 343cid                     | 0135          | 180        | Towner Com Motor Mando           | 0940          | 205        |
| Alfetta TD.                      | 0706   | 196 | Ambassador V8 5.6L 5585cc 343cid              | 0135          | 180        | <b>Astra</b>                     | <b>Nº ZEN</b> | <b>Pg.</b> |
| Arna 1.2 e 1.3                   | 0108   | 179 | Ambassador V8 5.9L 360cid                     | 0135          | 180        | BM 201 OM-8360.05.200 8.0L       | 1059          | 209        |
| Brera 2.2 JTS                    | 0756   | 197 | Ambassador V8 5.9L 5899cc 360cid              | 0135          | 180        | BM 201 OM-8360.05.300 8.0L       | 1059          | 209        |
| Especial/Special                 | 0189   | 181 |   |               |            | BM 44D12R OM-8360.05.200 8.1L    | 1059          | 209        |
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| F2                               | 0108   | 179 |   |               |            |                                  |               |            |

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| Carregadeira Ar 95 e Super TCD 4,1 L4 95kW Tier 4i                           | 1751          | 225        | 80D                                   | 0482          | 188        | Allegro                          | 0380          | 233        |
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| Escavadeira 190LC TCD2012 L06 2V 143HP Tier 4                                | 1751          | 225        | 80L                                   | 0108          | 179        | Maxi                             | 0170          | 233        |
| Escavadeira 340LC TCD2013 L06 2V 226PS Tier 4                                | 1751          | 225        | 80TD                                  | 0482          | 188        | Maxi                             | 0171          | 233        |
| Manipuladora de Materiais 180MH, 200MH TCD2012 L06 2V 143HPTier 4            | 1751          | 225        | 90                                    | 0080          | 178        | Maxi                             | 0380          | 233        |
| Manipuladora de Materiais 350MH TCD2013 L06 2V 226PS Tier 4                  | 1751          | 225        | 90                                    | 0482          | 188        | Mini                             | 0170          | 233        |
| Manipuladora de Materiais 400MH TCD6,1 L6 238PS Tier 4i                      | 1751          | 225        | 90 1.9 D                              | 1067          | 209        | Mini                             | 0171          | 233        |
| Manipuladora de Materiais 520MH TCD2013 L06 2V248PS                          | 1751          | 225        | 90D                                   | 0482          | 188        | Mini                             | 0380          | 233        |
| Rolos Compactadores AW 1110, AW 1120 TCD2012 L04 96kW                        | 1751          | 225        | A1 1.2 TFSI - 1.4 TFSI START/STOP     | 1826          | 229        | Morris 1100                      | 0486          | 189        |
| Rolos Compactadores AW 1130, AW 1140 TCD2012 L04 103kW                       | 1751          | 225        | A1 1.6 TDI - 2.0 TDI START/STOP       | 1826          | 229        | <b>Autobianchi</b>               | <b>Nº ZEN</b> | <b>Pg.</b> |
| <b>Atlas Copco</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | A1 1.6 TDI START/STOP                 | 1824          | 229        | Especial/Special                 | 1056          | 209        |
| Caminhões  | 0378          | 185        | A3 1.6, 1.8 e 2.0                     | 0475          | 188        | <b>Bautz</b>                     | <b>Nº ZEN</b> | <b>Pg.</b> |
| Compressores XAHS 146 C3, XAS 186 C3, XATS 156 C3 Deutz TCD 2012 4 Cil. 82kW | 1751          | 225        | A3 1.6i, 1.6T                         | 0932          | 204        | Especial/Special                 | 1076          | 210        |
| Compressores XAHS 186 C3, XAVS 166C3 Deutz TCD 2013 4 Cil. 104kW             | 1751          | 225        | A3 1.9 TDI                            | 0937          | 204        | <b>Bedford</b>                   | <b>Nº ZEN</b> | <b>Pg.</b> |
| Especial/Special   | 0226          | 182        | A3                                    | 1017          | 207        | 6C4                              | 0067          | 177        |
| Máquina Fresadora de Asfalto PL1000T TCD2012 L06 2V 6 Cil 150kW              | 1751          | 225        | A3 1.6, 1.8 e 1.8 Turbo               | 1069          | 209        | 6D4                              | 0067          | 177        |
| PR700  | 0290          | 182        | A3 1.6 - 1.8 T                        | 1108          | 210        | 6RT                              | 0067          | 177        |
| Traçadores com motor Deutz 8 cil   | 0101          | 178        | A3 1.6 - 1.6 FSI                      | 1632          | 220        | CA 1.6,2.0                       | 0412          | 186        |
| Traçadores   | 0378          | 185        | A3 2.0 FSI                            | 1632          | 220        | Caminhão                         | 0486          | 189        |
| <b>Audi</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | A3 1.9 TDI - 2.0 TDI - 3.2 V6 quattro | 1856          | 230        | CF                               | 0170          | 233        |
| 100  | 0080          | 178        | A3 1.8, 1.8T                          | 12690         | 240        | CF                               | 0171          | 233        |
| 100 1.8, 1.9, 2.0  | 0108          | 179        | A3 1.2 TFSI - 1.4 TFSI START/STOP     | 1826          | 229        | CF 1.6,2.0                       | 0412          | 186        |
| 100  | 0482          | 188        | A3 1.6 TDI - 2.0 TDI START/STOP       | 1826          | 229        | CF 1.8 e 2.3                     | 1188          | 212        |
| 100 5D turbo D 2.0   | 0228          | 182        | A3 1.6 TDI START/STOP                 | 1824          | 229        | Chevanne                         | 0170          | 233        |
| 1000   | 0015          | 176        | A3 1.9 TDI, 2.0 TDI, 3.2 V6 quattro   | 1823          | 229        | Chevanne                         | 0171          | 233        |
| 100D   | 0631          | 193        | A4 1.6i, 1.8i                         | 0745          | 197        | Ha Van                           | 0170          | 233        |
| 100INJ   | 0482          | 188        | A4                                    | 0925          | 204        | Ha Van                           | 0171          | 233        |
| 100TD  | 0631          | 193        | A4 2.5 TDI                            | 1631          | 220        | Ha Van                           | 0380          | 233        |
| 200  | 0482          | 188        | A4 - Avant - Quattro 1.9TDI           | 1067          | 209        | MIDI                             | 0686          | 195        |
| 200 turbo  | 0108          | 179        | A6 1.6, 1.8 e 2.0                     | 0475          | 188        | MIDI                             | 0765          | 198        |
| 200I   | 0108          | 179        | A6                                    | 0925          | 204        | Rascal                           | 0686          | 195        |
| 4000 Diesel  | 0420          | 186        | A6 2.5 TDI                            | 1631          | 220        | TD                               | 0067          | 177        |
| 4000 Diesel turbo  | 0420          | 186        | A6 - Avant 1.9 TDI                    | 1067          | 209        | TL 1000 330                      | 1616          | 220        |
| 4000 TD  | 0474          | 188        | A8 2.5 TDI                            | 1631          | 220        | TL 1260 330                      | 1616          | 220        |
| 60   | 0080          | 178        | Coupe 1.6                             | 0482          | 188        | TL 1630 330 Turbo (107 bhp)      | 1616          | 220        |
| 72   | 0080          | 178        | Fox 100 1.6, 1.8, 1.9                 | 0068          | 178        | TL 860 330                       | 1616          | 220        |
| 80   | 0080          | 178        | Fox 4000 1.6, 1.7                     | 0068          | 178        | <b>Benfra</b>                    | <b>Nº ZEN</b> | <b>Pg.</b> |
| 80   | 0108          | 179        | Fox 50 1.3, 1.5                       | 0068          | 178        | 10 CH Motor Aifo-8361/000 8.1L   | 1059          | 209        |
| 80 1.6 D   | 0474          | 188        | Fox 80 1.3, 1.5, 1.6                  | 0068          | 178        | 10 CH Motor Aifo-8361/01 8.1L    | 1059          | 209        |
| 80 1.6 TD  | 0474          | 188        | Quattro                               | 0108          | 179        | 9.11 Motor Aifo-8361S/000 8.1L   | 1059          | 209        |
| 80 1.6, 1.8 e 1.9  | 0482          | 188        | Quattro                               | 0482          | 188        | 9.11 Motor Aifo-8361S/10.00 5.9L | 1059          | 209        |
| 80 D 1.6L  | 1067          | 209        | Quattro                               | 1631          | 220        | 9.12 Motor Aifo-8361S/10.00 5.9L | 1059          | 209        |
| 80 TD 1.9  | 1067          | 209        | S 3 Quattro                           | 1655          | 221        | 9.32 Motor Aifo-8361S/10.00 5.9L | 1059          | 209        |
| 80D  | 0420          | 186        | TT                                    | 1108          | 210        | <b>Berliet</b>                   | <b>Nº ZEN</b> | <b>Pg.</b> |
|  |               |            | TT 1.8 T - 3.2 V6 quattro             | 1856          | 230        | 400                              | 1159          | 211        |
|  |               |            | TT Coupe 1.8                          | 1655          | 221        | 450                              | 1159          | 211        |
|  |               |            | <b>Audi</b>                           | <b>Nº ZEN</b> | <b>Pg.</b> | 480                              | 1159          | 211        |
|  |               |            | A3 1.6 FSI 2.0 FSI                    | 1890          | 232        | 500                              | 1159          | 211        |
|  |               |            | A3 L4 2.0L 1984cc 121cid              | 1891          | 232        | 530                              | 1159          | 211        |
|  |               |            | A3 L4 2.0L 1984cc 121cid GAS          | 1891          | 232        | 550                              | 1159          | 211        |
|  |               |            | TT L4 2.0L 1984cc 121cid CCTA         | 1891          | 232        | 560                              | 1159          | 211        |
|  |               |            | TT Quattro L4 2.0L 1984cc 121cid CCTA | 1891          | 232        | <b>Bluebird Bus</b>              | <b>Nº ZEN</b> | <b>Pg.</b> |
|  |               |            | <b>Austin</b>                         | <b>Nº ZEN</b> | <b>Pg.</b> | Bluebird                         | 9402          | 234        |
|  |               |            | 1100                                  | 0170          | 233        | <b>BMW</b>                       | <b>Nº ZEN</b> | <b>Pg.</b> |
|  |               |            | 1100                                  | 0171          | 233        | 125i 3.0L 2996cc                 | 1765          | 226        |
|  |               |            | Allegro                               | 0170          | 233        | 135i 3.0L 2979cc                 | 1765          | 226        |

| BMW                                | Nº ZEN | Pg. | BMW                             | Nº ZEN | Pg. | BMW   | Nº ZEN        | Pg.        |
|------------------------------------|--------|-----|---------------------------------|--------|-----|---|---------------|------------|
| 1500                               | 0223   | 181 | 520                             | 0395   | 186 | BMW série 5 e série E34 - E36 Todos os tipos exceto diesel          | 0997          | 207        |
| 1502                               | 0223   | 181 | 520I                            | 0223   | 181 | D35 1.4   | 1001          | 207        |
| 1600                               | 0223   | 181 | 520I                            | 0475   | 188 | D50 2.1   | 1001          | 207        |
| 1602                               | 0223   | 181 | 523 i                           | 0108   | 179 | M535I   | 0300          | 183        |
| 1800                               | 0223   | 181 | 523i                            | 0475   | 188 | Motor MWM 4.10TCA AGRALE CAMINHAO 8500D                             | 1679          | 222        |
| 1800TI                             | 0223   | 181 | 523i 3.0L 2996cc                | 1765   | 226 | Motor MWM 4.10TCA AGRALE CAMINHAO 8500D                             | 1805          | 228        |
| 1802                               | 0223   | 181 | 524D                            | 0969   | 206 | Motor MWM 4.12TCE Agrale MA 12 185CV                                | 1679          | 222        |
| 2000                               | 0223   | 181 | 524TD                           | 0573   | 191 | Motor MWM 4.12TCE Agrale MA 12 185CV                                | 1805          | 228        |
| 2002                               | 0223   | 181 | 525                             | 0223   | 181 | Motor MWM 4.12TCE ITEC MIDI BUS (América Latina)                    | 1679          | 222        |
| 2002 Turbo                         | 0223   | 181 | 525                             | 0300   | 183 | Motor MWM 4.12TCE ITEC MIDI BUS (América Latina)                    | 1805          | 228        |
| 2500                               | 0223   | 181 | 525                             | 0361   | 185 | Pulverizadora Montana Parruda 2627M e 2627H Com Motor MWM 4.10L TCA | 1679          | 222        |
| 2500                               | 0300   | 183 | 525                             | 0395   | 186 | Pulverizadora Montana Parruda 2627M e 2627H Com Motor MWM 4.10L TCA | 1805          | 228        |
| 2600                               | 0015   | 176 | 525                             | 1033   | 208 | R100  | 0325          | 184        |
| 2600L                              | 0015   | 176 | 525 2.5 TD                      | 1477   | 216 | R45   | 0325          | 184        |
| 2800                               | 0223   | 181 | 525E                            | 0482   | 188 | R60   | 0325          | 184        |
| 2800                               | 0300   | 183 | 525i                            | 0475   | 188 | R65   | 0325          | 184        |
| 3000                               | 0223   | 181 | 528                             | 0108   | 179 | R75   | 0325          | 184        |
| 3000                               | 0300   | 183 | 528                             | 0223   | 181 | R80   | 0325          | 184        |
| 315                                | 0361   | 185 | 528                             | 0300   | 183 | Série 1   | 1720          | 224        |
| 316                                | 0223   | 181 | 528                             | 0361   | 185 | Série 3   | 1720          | 224        |
| 316                                | 0361   | 185 | 528                             | 0395   | 186 | Série 5   | 1720          | 224        |
| 316, 318, 325 série E36            | 0997   | 207 | 528I                            | 0223   | 181 | Série 6   | 1720          | 224        |
| 316i                               | 0475   | 188 | 528I                            | 0475   | 188 | Série 7   | 1720          | 224        |
| 318                                | 0223   | 181 | 528i 3.0L 2996cc                | 1765   | 226 | Séries 5  | 1486          | 216        |
| 318                                | 0361   | 185 | 528I                            | 0068   | 178 | Séries 7  | 1486          | 216        |
| 318 TDS                            | 1487   | 216 | 530                             | 0300   | 183 | Séries 8  | 1486          | 216        |
| 318i                               | 0475   | 188 | 530Li 3.0L, N52B30AF, Non-Turbo | 1765   | 226 | Séries X5   | 1486          | 216        |
| 318i                               | 0969   | 206 | 628                             | 0361   | 185 | X1  | 1720          | 224        |
| 320                                | 0108   | 179 | 630                             | 0300   | 183 | X3 2.0 2.5 e 3.0  | 1720          | 224        |
| 320                                | 0223   | 181 | 635                             | 0300   | 183 | X3 3.0L 2979cc  | 1765          | 226        |
| 320                                | 0361   | 185 | 663                             | 0300   | 183 | X3 3.0L 2996cc  | 1765          | 226        |
| 320                                | 0395   | 186 | 725 2.5 TD                      | 1477   | 216 | X5  | 1720          | 224        |
| 3200                               | 0015   | 176 | 725 TDS 12V                     | 1033   | 208 | X6  | 1720          | 224        |
| 3200CS                             | 0015   | 176 | 728                             | 0223   | 181 | Z4 2.2 2.5 e 3.0  | 1720          | 224        |
| 320I                               | 0223   | 181 | 728                             | 0300   | 183 | Z4 2.5L 2497cc  | 1765          | 226        |
| 320I                               | 0395   | 186 | 728                             | 0361   | 185 | Z4 3.0L 2979cc  | 1765          | 226        |
| 320I                               | 0475   | 188 | 728 série E38                   | 0997   | 207 | Z4 3.0L 2996cc  | 1765          | 226        |
| 321I                               | 0395   | 186 | 728i                            | 0475   | 188 | <b>Bobcat</b>   | <b>Nº ZEN</b> | <b>Pg.</b> |
| 323 i                              | 0108   | 179 | 728I                            | 0068   | 178 | 1075 John Deere 4-276 Dsl   | 9459          | 234        |
| 324                                | 1033   | 208 | 730                             | 0300   | 183 | 1080 John Deere 4-276 Dsl   | 9459          | 234        |
| 324D                               | 0573   | 191 | 730i 3.0L 2996cc                | 1765   | 226 | 1080B John Deere 4-276 Dsl  | 9459          | 234        |
| 324D                               | 0969   | 206 | 732                             | 0300   | 183 | 1600 Kubota V1702 Diesel  | 0650          | 194        |
| 324TD                              | 0573   | 191 | 733                             | 0300   | 183 | 2400 Perkins 4-236 Dsl  | 0649          | 194        |
| 325                                | 1033   | 208 | 735                             | 0300   | 183 | 2410 Perkins 4-236 Dsl  | 0649          | 194        |
| 325 2.5 TD                         | 1477   | 216 | 740i 3.0L 2979cc                | 1765   | 226 | 3023 Kubota V1702 Dsl   | 0649          | 194        |
| 325E                               | 0482   | 188 | 745                             | 0300   | 183 | 641 Deutz F2L511 Dsl  | 0649          | 194        |
| 325i                               | 0475   | 188 | 750I                            | 0573   | 191 | 643 Kubota D1402BA Diesel   | 0650          | 194        |
| 325i                               | 0482   | 188 | 90                              | 0482   | 188 | 741 Deutz F2L511D Dsl   | 0649          | 194        |
| 3300                               | 0223   | 181 | 900                             | 0482   | 188 | 743 Kubota V1702BA Diesel   | 0650          | 194        |
| 3300                               | 0300   | 183 | 900 Turbo                       | 0482   | 188 |   |               |            |
| 5 Séries Active Hybrid 3.0L 2979cc | 1765   | 226 | 900 Turbo 16                    | 0482   | 188 |   |               |            |
| 503                                | 0015   | 176 | 9000                            | 0482   | 188 |   |               |            |
| 518                                | 0223   | 181 | 9000INJ                         | 0482   | 188 |   |               |            |
| 518                                | 0361   | 185 | BMW 320, Séries X3,X5           | 1718   | 224 |   |               |            |
| 518i                               | 0475   | 188 | BMW 325                         | 1630   | 220 |   |               |            |
| 520                                | 0108   | 179 | BMW 525                         | 1630   | 220 |   |               |            |
| 520                                | 0223   | 181 | BMW 725                         | 1630   | 220 |   |               |            |
| 520                                | 0367   | 185 |                                 |        |     |   |               |            |

| Bobcat   | Nº ZEN        | Pg.        | Cadillac   | Nº ZEN        | Pg.        | Case   | Nº ZEN | Pg. |
|--|---------------|------------|--|---------------|------------|--|--------|-----|
| 743B Kubota V1702BA Diesel                         | 0650          | 194        | DeVille V8 4.6L 281cid Gasolina                                  | 0774          | 198        | CS 105 PRO Sisu 4Cil 102 HP 4.4                | 1698   | 223 |
| 753 Kubota V2203B Diesel                           | 0650          | 194        | Eldorado V8 4.6L 281cid Gasolina                                 | 0774          | 198        | CS 110 Sisu 4 Cil Turbo 4.4                    | 1701   | 223 |
| 7753 Kubota V2203B Diesel                          | 0650          | 194        | Escalade 5.7   | 0756          | 197        | CS 110 Sisu 4 cil Turbo 4.4                    | 1600   | 219 |
| 843B Isuzu 4JB1PK-01 Dsl                           | 0649          | 194        | Escalade 5.3L (325) V8   | 10003         | 232        | CS 130   | 1698   | 223 |
| 843HC Isuzu 4JB1PK-01 Dsl                          | 0649          | 194        | Escalade 5.3L (325) V8   | 12720         | 240        | CS 130 Sisu 6 cil Turbo 6.6                    | 1600   | 219 |
| 853  | 1831          | 230        | Seville V8 4.6L 281cid   | 0774          | 198        | CS 68 Sisu 3 Cil Turbo 3.3                     | 1701   | 223 |
| 853 Isuzu 4JB1PK-03 Dsl                            | 0649          | 194        | Seville V8 4.6L 281cid Gasolina                                  | 0774          | 198        | CS 68 Sisu 3 cil Turbo 3.3                     | 1600   | 219 |
| 853C   | 1831          | 230        | SRX V6 3.0L 182cid   | 0806          | 200        | CS 75 Sisu 3 Cil Turbo 3.3                     | 1701   | 223 |
| 853H   | 1831          | 230        | STS V6 3.6L 217cid   | 0806          | 200        | CS 75 Sisu 3 cil Turbo 3.3                     | 1600   | 219 |
| 853H Isuzu 4JB1PK-03 Dsl                           | 0649          | 194        | <b>Carraro</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | CS 78 Sisi 4 Cil Turbo 4.4                     | 1698   | 223 |
| 853HC  | 1831          | 230        | Especial/Special   | 1076          | 210        | CS 78 Sisu 4 cil Turbo 4.4                     | 1600   | 219 |
| 943 Perkins 4-236 Dsl                              | 0649          | 194        | Super Tigre 625  | 1005          | 207        | CS 85 PRO Sisu 4 Cil 85HP 4.4                  | 1698   | 223 |
| 974 Perkins 4-236 Dsl                              | 0649          | 194        | Tigrone 625  | 0308          | 183        | CS 94 Sisu 4 Cil Turbo 4.4                     | 1698   | 223 |
| 975 J. Deere 4-276 Dsl                             | 9459          | 234        | <b>Carrier</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | CS 95 PRO Sisu 4 Cil 93HP 4.4                  | 1698   | 223 |
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| Especial/Special                                   | 0644          | 194        | <b>Case</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | CVX 150 Sisu 6 Cil Turbo 150 HP 6.6            | 1698   | 223 |
| Especial/Special                                   | 1194          | 213        | 1190 3 165 Diesel  | 0411          | 186        | CVX 160 Sisu 6 Cil 160 HP 6.6                  | 1698   | 223 |
| Especial/Special                                   | 1195          | 213        | 1290 4 Cil 195 Diesel  | 0411          | 186        | CVX 170 Sisu 6 Cil Turbo 170 HP 6.6            | 1698   | 223 |
| Melroe   | 1196          | 213        | 1294 4 Cil 219 Diesel  | 0411          | 186        | CVX 190 Sisu 6 Cil 196 HP 6.6                  | 1698   | 223 |
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| D200K  | 0398          | 186        | 450B   | 1829          | 229        | Grader FG 140.2                                | 0722   | 196 |
| D25  | 0398          | 186        | 480C   | 1829          | 229        | JX 60 NEF 4Cil 60HP 4.5                        | 1700   | 223 |
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| Electra V6 3.8L 3800cc 231cid                      | 0433          | 187        | Case IH C9   | 1809          | 228        | Pá Carregadeira W18                            | 0105   | 179 |
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| Enclave V6 3.6L 3564cc 217cid                      | 0806          | 200        | Colheitadeira  | 0784          | 199        | Pá Carregadeira W20                            | 0034   | 176 |
| LaCrosse V6 3.0L 182cid                            | 0806          | 200        | Colheitadeira de Cana A7000 e A7700 com motor Cummins            | 1811          | 229        | Pá Carregadeira W20                            | 0105   | 179 |
| LaCrosse V6 3.6L 217cid                            | 0806          | 200        | Colheitadeira de Cana A7000 e A7700 com motor Cummins            | 13131         | 237        | Pá Carregadeira W20                            | 0722   | 196 |
| LaCrosse V6 3.6L 3564cc 217cid                     | 0806          | 200        | Colheitadeira de Cana A7000 e A7700 - com motor Cummins          | 13117         | 237        | Pá Carregadeira W20                            | 1364   | 215 |
| LeSabre V6 3.0L 181cid                             | 0433          | 187        | Colheitadeira de cana A8000 e A8800 com Motor Case IH C9         | 1809          | 228        | Pá Carregadeira W20, 521D, 621D, W130          | 1679   | 222 |
| Regal V6 3.1                                       | 0783          | 199        |  |               |            | Pá Carregadeira W20, 521D, 621D, W130          | 1805   | 228 |
| Skylark V6 3.0L 181cid                             | 0433          | 187        |  |               |            | Pá Carregadeira W20B                           | 0105   | 179 |
| Somerset Regal V6 3.0L 181cid                      | 0433          | 187        |  |               |            |  |        |     |
| Somerset V6 3.0L 181cid                            | 0433          | 187        |  |               |            |  |        |     |

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|---|---------------|------------|--|---------------|------------|--|---------------|------------|
| Pá Carregadeira W20B  | 1364          | 215        | Colheitadeira de cana A8000 e A8800 com Motor Case IH C9 | 13138         | 237        | Motoniveladora 120H                    | 1205          | 213        |
| Pá Carregadeira W36 com motor Cummins                       | 0088          | 233        | <b>Caterpillar</b>                                       | <b>Nº ZEN</b> | <b>Pg.</b> | Motoniveladora 12E                     | 0036          | 233        |
| Pá Carregadeira W36 com motor Cummins e Scania              | 0133          | 179        | 2.5kW/12 Volt  | 9402          | 234        | Motoniveladora 12E                     | 0121          | 239        |
| Pá Carregadeira W36, W36B turbo com motor Cummins e Scania  | 0122          | 239        | 3114   | 1831          | 230        | Motoniveladora 12E                     | 0201          | 239        |
| Pá Carregadeira W36B com motor Cummins e Scania             | 0133          | 179        | 320B Mitsubishi 24V                                      | 0887          | 202        | Motoniveladora 140B 3306               | 0122          | 239        |
| Pá Carregadeira W36B turbo                                  | 0089          | 233        | 3508   | 0626          | 193        | Motoniveladora 140B 3306               | 0133          | 179        |
| Pá Carregadeira W7 com motor Perkins 6 cil                  | 0024          | 176        | 3512   | 0626          | 193        | Motoniveladora 140B (3306)             | 0089          | 233        |
| Pá Carregadeira W7 Perkins 6 cil                            | 1359          | 215        | 3516   | 0626          | 193        | Motores geradores 3304T                | 0089          | 233        |
| Quantum 65C NEF 4Cil Tier III 60HP 3.2                      | 1700          | 223        | Blue Bird USA Cat 3126 7.2                               | 1595          | 219        | Motores geradores 3306T                | 0089          | 233        |
| Quantum 75C NEF 4Cil Tier III 78HP 3.2                      | 1700          | 223        | Blue Diamond USA   | 1837          | 230        | Pá Carregadeira 930                    | 0089          | 233        |
| Retroescavadeira 580H                                       | 0118          | 179        | Carregadeira 916   | 0776          | 198        | Pá Carregadeira 930                    | 0133          | 179        |
| Retroescavadeira Cummins                                    | 0970          | 206        | Carregadeira 926   | 0776          | 198        | Pá Carregadeira 960                    | 0122          | 239        |
| Retroescavadeira 580 Perkins 4 cil                          | 0024          | 176        | Carregadeira 926E  | 0776          | 198        | Pá Carregadeira 966                    | 0089          | 233        |
| Retroescavadeira 580 Perkins 4 cil                          | 1359          | 215        | Cat 3216 7.2 F650  | 1837          | 230        | Pá Carregadeira 966                    | 0122          | 239        |
| Retroescavadeira 580CK Perkins 4cil                         | 0024          | 176        | Cat D300   | 0088          | 233        | Pá Carregadeira 966                    | 0133          | 179        |
| Retroescavadeira 580CK Perkins 4 cil                        | 1359          | 215        | Caterpillar  | 0117          | 179        | Pipelayers 583h D342 Diesel            | 0555          | 190        |
| Retroescavadeira 580E Perkins 4 cil                         | 0024          | 176        | Caterpillar Facet 10061                                  | 0555          | 190        | Pipelayers 583k D342 Diesel            | 0555          | 190        |
| Retroescavadeira 580E Perkins 4 cil                         | 1359          | 215        | Caterpillar Facet  | 0556          | 190        | Pipelayers 594 D353 Diesel             | 0555          | 190        |
| Retroescavadeira 580H                                       | 0024          | 176        | Colheitadeira MT 875.                                    | 1205          | 213        | Pipelayers 594h D353 Diesel            | 0555          | 190        |
| Retroescavadeira 580H                                       | 1359          | 215        | Duty 3204 Motor Médio                                    | 0776          | 198        | Track Tractors D7e                     | 0555          | 190        |
| Tractor Farm 1290 4 Cil 195 Diesel                          | 0507          | 189        | Engine 6 Cyl D 343                                       | 0556          | 190        | Track Tractors D8k D342 Diesel         | 0555          | 190        |
| Tractor Farm 1294 4 Cil 219 Diesel                          | 0507          | 189        | Escavadeira 943 3204                                     | 0776          | 198        | Track Tractors D9g                     | 0555          | 190        |
| Tractor Farm 1390 4 Cil 219 Diesel                          | 0507          | 189        | Escavadeira 215B   | 0776          | 198        | Track Tractors D9h D353 Diesel         | 0555          | 190        |
| Tractor Farm 1490 4 Cil 219 Diesel                          | 0507          | 189        | Escavadeira 953 3204                                     | 0776          | 198        | Tranportador de Ferramentas IT18B 3204 | 0776          | 198        |
| Tractor Farm 995 4 Cil 219 Diesel                           | 0507          | 189        | Grupo Gerador 3304T                                      | 0122          | 239        | Tranportador de Ferramentas IT28B 3204 | 0776          | 198        |
| Trator 42 MT  | 0117          | 179        | Grupo Gerador 3304T                                      | 0133          | 179        | Trator de Esteiras 631E                | 0122          | 239        |
| Trator  | 0134          | 179        | Grupo Gerador 3306T                                      | 0122          | 239        | Trator de Esteiras 631E                | 0133          | 179        |
| Trator 5100   | 0970          | 206        | Grupo Gerador 3306T                                      | 0133          | 179        | Trator de Esteiras D4D                 | 0122          | 239        |
| Trator 2470   | 0087          | 233        | Máquinas com motor D330C                                 | 0097          | 178        | Trator de Esteiras D4D                 | 0133          | 179        |
| Trator 4490   | 0087          | 233        | Máquinas com motor D333C                                 | 0097          | 178        | Trator de Esteiras D4E                 | 0089          | 233        |
| Trator 580H/SH/SH 4x4 Cummins 433.9                         | 0497          | 189        | Máquinas com motor D334C                                 | 0097          | 178        | Trator de Esteiras D4E                 | 0122          | 239        |
| Trator Agrícola 2470  | 0133          | 179        | Máquinas com motor D336C                                 | 0097          | 178        | Trator de Esteiras D4E                 | 0133          | 179        |
| Trator Agrícola 2470 e 4490                                 | 0122          | 239        | Máquinas com motor D344C                                 | 0097          | 178        | Trator de Esteiras D5B                 | 0122          | 239        |
| Trator Agrícola 4490  | 0133          | 179        | Máquinas com motor D330C                                 | 9028          | 233        | Trator de Esteiras D5B                 | 0133          | 179        |
| Trator MX 135   | 0814          | 200        | Máquinas com motor D333C                                 | 9028          | 233        | Trator de Esteiras D6C                 | 0122          | 239        |
| Trator W20 Cummins 6BT590                                   | 0748          | 197        | Máquinas com motor D334C                                 | 9028          | 233        | Trator de Esteiras D6C                 | 0133          | 179        |
| Trator W36  | 0087          | 233        | Máquinas com motor D336C                                 | 9028          | 233        | Trator de Esteiras D6D                 | 0089          | 233        |
| Tratores  | 9302          | 234        | Máquinas com motor D344C                                 | 9028          | 233        | Trator de Esteiras D6D                 | 0122          | 239        |
| Tratores Magnum MX220, MX240 e MX270 com motor Cummins 8,3L | 13130         | 237        | Máquinas   | 9426          | 234        | Trator de Esteiras D6D                 | 0133          | 179        |
| TX36  | 1616          | 220        | Máquinas equipadas com motor D311                        | 0110          | 179        | Trator de Esteiras D6E                 | 0122          | 239        |
| W18   | 0105          | 179        | Máquinas equipadas com motor D320                        | 0110          | 179        | Trator de Esteiras D6E                 | 0133          | 179        |
| W18   | 1364          | 215        | Máquinas equipadas com motor D330                        | 0110          | 179        | Trator de Esteiras D8L                 | 0122          | 239        |
| W20 (MBB-OM 352)  | 0105          | 179        | Máquinas equipadas com motor D333                        | 0110          | 179        | Trator de Esteiras D8L                 | 0133          | 179        |
| W20 (MBB-OM 352)  | 1364          | 215        | Máquinas equipadas com motor D342                        | 0110          | 179        | Trator de Esteiras D8L e 631E          | 0088          | 233        |
| W20B (MBB-OM 352A)  | 0105          | 179        | Máquinas equipadas com motor D343                        | 0110          | 179        | Trator Esteira D4H 3204                | 0776          | 198        |
| W20B (MBB-OM 352A)  | 1364          | 215        | Máquinas equipadas com motor D311                        | 9074          | 234        | V60E Perkins 4-236                     | 10048         | 235        |
| Windrower 6000 225 gasolina                                 | 0495          | 189        | Máquinas equipadas com motor D320                        | 9074          | 234        | V80E Perkins 4-236                     | 10048         | 235        |
| Windrower 6500 225 gasolina                                 | 0495          | 189        | Máquinas equipadas com motor D330                        | 9074          | 234        | <b>CBT</b>                             | <b>Nº ZEN</b> | <b>Pg.</b> |
| <b>Case IH</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | Máquinas equipadas com motor D333                        | 9074          | 234        | 1000 Perkins 4, 6 cil                  | 1359          | 215        |
| C9 8200242 38MT - 24V                                       | 13138         | 237        | Máquinas equipadas com motor D342                        | 9074          | 234        | 1065                                   | 1364          | 215        |
|   |               |            | Máquinas equipadas com motor D343                        | 9074          | 234        | 1065 (MBB-OM 314)                      | 1364          | 215        |
|   |               |            | Moto Scraper 631E  | 0088          | 233        | 1090 Perkins 6 cil                     | 0060          | 177        |
|   |               |            | Moto Scraper 631E  | 0122          | 239        | 1090 Perkins 4, 6 cil                  | 1359          | 215        |
|   |               |            | Moto Scraper 631E  | 0133          | 179        | 1100 Perkins 4, 6 cil                  | 1359          | 215        |
|   |               |            | Motoniveladora 120B                                      | 0089          | 233        | 1105 (MBB-OM 352)                      | 1364          | 215        |
|   |               |            | Motoniveladora 120B                                      | 0122          | 239        | 2080 (MBB-OM 314)                      | 1364          | 215        |
|   |               |            | Motoniveladora 120B 3306                                 | 0133          | 179        |  |               |            |

| CBT                                    | Nº ZEN        | Pg.        | Chrysler                                     | Nº ZEN | Pg. | Chrysler                                | Nº ZEN        | Pg.        |
|--|---------------|------------|--|--------|-----|---|---------------|------------|
| 2105 (MBB-OM 352)                      | 1364          | 215        | Daytona 3.0                                  | 0750   | 197 | Neon 2.0L (122) L4 Plymouth             | 1478          | 216        |
| 2600                                   | 1364          | 215        | Dodge Álcool                                 | 0070   | 178 | Neon II 1.6 - 2.0 16V                   | 1545          | 217        |
| 8060 4x4 (MBB-OM 352)                  | 1364          | 215        | Dodge  | 0352   | 185 | New Yorker                              | 0817          | 200        |
| 8240 Perkins 4236 álcool               | 1359          | 215        | Dodge  | 0506   | 189 | New Yorker 4 Cil 2.6L 2555cc 156cid     | 9307          | 234        |
| 8240 4.248 JF 12v                      | 1690          | 223        | Dodge 2.2, 2.5 lts                           | 0532   | 190 | Omni                                    | 0339          | 184        |
| 8440                                   | 1073          | 210        | Dodge  | 0573   | 191 | Saragata 3.0                            | 0575          | 191        |
| 8440                                   | 1364          | 215        | Dodge Série S                                | 0661   | 194 | Saragata 3.0 3.0                        | 0750          | 197        |
| 950                                    | 1364          | 215        | Dodge 6cil e 8cil - Motor B                  | 0675   | 195 | Sebring L4 2.4L 2360cc 144cid           | 1771          | 227        |
| Javali                                 | 0627          | 193        | Dodge 1500                                   | 0397   | 186 | Shadow 2.5, 3.0 V6                      | 0532          | 190        |
| Oliver 1020                            | 0034          | 176        | Dodge C17                                    | 0392   | 185 | Spirit 2.5, 3.0 V6                      | 0532          | 190        |
| Oliver 1020                            | 1364          | 215        | Dodge C20                                    | 0392   | 185 | Spirit                                  | 0641          | 194        |
| Oliver 1065                            | 0034          | 176        | Dodge C2662                                  | 0392   | 185 | Stratus                                 | 0852          | 201        |
| Oliver 1105                            | 0034          | 176        | Dodge C2664                                  | 0392   | 185 | Stratus 2.0L (122) L4 Plymouth          | 1478          | 216        |
| Oliver 950                             | 0034          | 176        | Dodge D100                                   | 0049   | 177 | Town                                    | 0817          | 200        |
| Trator 1000 Perkins 4 e 6 cil          | 0024          | 176        | Dodge D100 gasolina                          | 0070   | 178 | Town E Country 4 Cil 2.6L 2555cc 156cid | 9307          | 234        |
| Trator 1065 (MBB-OM 314)               | 0105          | 179        | Dodge D14000 MWM 6 cil e partida Wapsa       | 0085   | 178 | Voyager 2.5, 3.0 V6                     | 0532          | 190        |
| Trator 1090 Perkins 4 e 6 cil          | 0024          | 176        | Dodge D400 Perkins 4 cil                     | 0024   | 176 | Voyager V6 3.0                          | 0575          | 191        |
| Trator 1100 Perkins 4 e 6 cil          | 0024          | 176        | Dodge D400                                   | 0049   | 177 | Voyager 2.5 e 3.0.                      | 0641          | 194        |
| Trator 1105 (MBB-OM 352)               | 0105          | 179        | Dodge D400 Perkins 4 cil                     | 1359   | 215 | Voyager 2.5 TD                          | 0706          | 196        |
| Trator 2080 (MBB-OM 314)               | 0105          | 179        | Dodge D500                                   | 0054   | 177 | Voyager 3.3 V6                          | 0750          | 197        |
| Trator 2105 (MBB-OM 352)               | 0105          | 179        | Dodge D700                                   | 0049   | 177 | <b>Citroen</b>                          | <b>Nº ZEN</b> | <b>Pg.</b> |
| Trator 2600                            | 0105          | 179        | Dodge D750 MWM 6 cil                         | 0085   | 178 | AX                                      | 0482          | 188        |
| Trator 8060 4x4 (MBB-OM 352)           | 0105          | 179        | Dodge D900 gasolina                          | 0070   | 178 | Ax                                      | 0775          | 198        |
| Trator 8240 Perkins 4236               | 0024          | 176        | Dodge D950 MWM                               | 0034   | 176 | AX 1.4 diesel                           | 0775          | 198        |
| Trator 8240                            | 0118          | 179        | Dodge D950 MWM 6 cil                         | 0085   | 178 | Ax                                      | 0976          | 206        |
| Trator 8260 4x4 com motor Perkins      | 0118          | 179        | Dodge D950 MWM                               | 1364   | 215 | Ax                                      | 1152          | 211        |
| Trator 8440                            | 0105          | 179        | Dodge Dakota 2.5 Diesel                      | 0573   | 191 | AX Sport                                | 0775          | 198        |
| Trator Oliver 1020                     | 0105          | 179        | Dodge Eagle Vision Intrepid                  | 0817   | 200 | Berlingo                                | 0846          | 201        |
| Trator Oliver 1065                     | 0105          | 179        | Dodge Fifth Avenue                           | 0817   | 200 | Berlingo                                | 0976          | 206        |
| Trator Oliver 950                      | 0105          | 179        | Dodge Horizon                                | 0339   | 184 | Berlingo 1.8 D, 1.9 D e 2.0 HDi         | 1023          | 208        |
| <b>Chrysler</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> | Dodge Neon                                   | 1545   | 217 | Berlingo 1.8, 1.8 d                     | 1031          | 208        |
| 135                                    | 1359          | 215        | Dodge P700 MWM                               | 1364   | 215 | Berlingo 1.8, 1.8 d                     | 1037          | 208        |
| 155                                    | 1359          | 215        | Dodge P900 MWM                               | 1364   | 215 | Berlingo 1.9 D                          | 1576          | 218        |
| 50                                     | 1359          | 215        | Dodge Polara 1800                            | 0077   | 178 | Berlingo 2.0 HDi                        | 1576          | 218        |
| 60                                     | 1359          | 215        | Dodge RAM                                    | 1470   | 215 | Berlingo                                | 1752          | 226        |
| Avenger L4 2.4L 2360cc 144cid          | 1771          | 227        | Dodge Ranger DKCF, DVC, WC                   | 0486   | 189 | Berlingo 1.6 HDi                        | 1758          | 226        |
| Breeze 2.0L (122) L4                   | 1478          | 216        | Dodge Ranger KC, VC                          | 0486   | 189 | Berlingo 1.1, 1.4 e 1.6                 | 1763          | 226        |
| C-300                                  | 1359          | 215        | Dodge Ranger KCF, DKC                        | 0486   | 189 | Berlingo 2.0                            | 1774          | 227        |
| C-500 Y110                             | 1359          | 215        | Dodge T17                                    | 0392   | 185 | Berlingo 1.6 HDi                        | 1812          | 229        |
| Caliber L4 1.8L 1798cc 110cid          | 1771          | 227        | Dynanty                                      | 0817   | 200 | Berlingo                                | 1822          | 229        |
| Caliber L4 2.0L 1998cc 122cid          | 1771          | 227        | E Class 4 Cil 2.6L 2555cc 156cid             | 9307   | 234 | BX                                      | 0961          | 206        |
| Caliber L4 2.0L 1998cc 122cid VIN A    | 1771          | 227        | Executive Limousine 4 Cil 2.6L 2555cc 156cid | 9307   | 234 | BX                                      | 1152          | 211        |
| Caliber L4 2.4L 2360cc 144cid          | 1771          | 227        | Executive Sedan 4 Cil 2.6L 2555cc 156cid     | 9307   | 234 | BX 14                                   | 0108          | 179        |
| Caliber L4 2.4L 2360cc 144cid VIN A    | 1771          | 227        | Grand Caravan 3.0 i LE                       | 0641   | 194 | BX 16                                   | 1187          | 212        |
| Caminhão Dodge com motor Perkins 4 cil | 0102          | 178        | HY 40  | 1359   | 215 | BX14                                    | 0482          | 188        |
| Caminhão Dodge D300 com motor Perkins  | 0118          | 179        | Imperial                                     | 0817   | 200 | BX14                                    | 0775          | 198        |
| Caminhão Dodge D950 com motor MWM      | 0105          | 179        | Jeep Cherokee                                | 0801   | 200 | BX16                                    | 0482          | 188        |
| Caminhão Dodge P700 com motor MWM      | 0105          | 179        | Jeep Cherokee                                | 0825   | 201 | BX16                                    | 0775          | 198        |
| Caminhão Dodge P900 com motor MWM      | 0105          | 179        | Jeep Cherokee Sport                          | 0573   | 191 | BX16                                    | 0926          | 204        |
| Caravan                                | 0817          | 200        | Journey L4 2.4L 2360cc 144cid                | 1771   | 227 | BX17 Diesel                             | 0800          | 199        |
| Chrysler Concorde 3.3L                 | 9492          | 234        | LeBaron 4 Cil 2.6L 2555cc 156cid             | 9307   | 234 | BX19 Diesel                             | 0800          | 199        |
| Concorde                               | 0817          | 200        | Liberty 2.4L                                 | 1538   | 217 | C1 1.0                                  | 1545          | 217        |
| Crosfire 3.2L - 3199cc                 | 1485          | 216        | Liberty 3.7L                                 | 1538   | 217 | C1, C2, C3 1.4 Hdi e 1.6 Hdi            | 1812          | 229        |
| Daytona 3.0                            | 0575          | 191        | Neon   | 0852   | 201 | C2                                      | 0458          | 188        |
|  |               |            | Neon 2.0L (122) L4                           | 1478   | 216 | C2 1.6 HDi                              | 1758          | 226        |
|  |               |            |  |        |     | C2 1.1, 1.4 e 1.6                       | 1763          | 226        |
|  |               |            |  |        |     | C2                                      | 1822          | 229        |



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| C22   | 0108   | 179 | Xantia 1.6 / 1.8i / 2.0i 16V                               | 0787          | 199        | Mercur Deutz F4L912                        | 0308          | 183        |
| C25   | 0108   | 179 | Xantia   | 0846          | 201        | Senator Deutz F6L912                       | 0308          | 183        |
| C25   | 1187   | 212 | Xantia   | 0961          | 206        | <b>Clark</b>                               | <b>Nº ZEN</b> | <b>Pg.</b> |
| C3  | 0458   | 188 | Xantia 1.6, 1.8 8V /16V, 2.0 8V/16V, 2.0 CT turbo, 2.0 HDI | 1031          | 208        | 1075 John Deere 4276                       | 9459          | 234        |
| C3  | 0965   | 206 | Xantia 1.6, 1.8 8V /16V, 2.0 8V/16V, 2.0 CT turbo, 2.0 HDI | 1037          | 208        | 1080 J. Deere 4276                         | 9459          | 234        |
| C3 1.1i, 1.4i, 1.6 16V                      | 0976   | 206 | XM 2.0i  | 0787          | 199        | 2000 Perkins 2.5L                          | 0649          | 194        |
| C3  | 1752   | 226 | XM   | 0961          | 206        | 641 Deutz F2L511                           | 0649          | 194        |
| C3  | 1755   | 226 | XM 2.5 TD  | 1024          | 208        | 741 Deutz F2L511                           | 0649          | 194        |
| C3 1.6 16V HDI                              | 1758   | 226 | XM 2.1 diesel  | 1030          | 208        | 843 Perkins 2.5L                           | 0649          | 194        |
| C3 1.1, 1.4 e 1.6                           | 1763   | 226 | XM 2.1 turbo diesel  | 1030          | 208        | 843B Isuzu Engines                         | 0649          | 194        |
| C3  | 1822   | 229 | XM 2.0 CT Turbo, 2.0,i                                     | 1031          | 208        | 853 / 853H Isuzu Engines                   | 0649          | 194        |
| C4  | 1755   | 226 | XM 2.0 CT Turbo, 2.0,i                                     | 1037          | 208        | 943 Perkins 4-236                          | 0649          | 194        |
| C4 1.6 HDI                                  | 1758   | 226 | XM 2.0i  | 0775          | 198        | 974 Perkins 4-236                          | 0649          | 194        |
| C4 1.6 16V Bio flex e 1.6 Hdi               | 1812   | 229 | Xsara 1.8 / 2.0 16V  | 0787          | 199        | 975 J. Deere 4276                          | 9459          | 234        |
| C4  | 1822   | 229 | Xsara 1.4i   | 0976          | 206        | C20 Séries Continental Y112 Engine         | 0567          | 191        |
| C4 Pallas                                   | 0806   | 200 | Xsara 1.8, 1.8 16V, 2.0 16V, 2.0 16V VTS                   | 1031          | 208        | C25 Séries Continental Y112 Engine         | 0567          | 191        |
| C5 1.6 HDI                                  | 1758   | 226 | Xsara 1.8, 1.8 16V, 2.0 16V, 2.0 16V VTS                   | 1037          | 208        | C30 Séries Continental F162 Engine         | 0567          | 191        |
| C5 1.6 Hdi e 2.2 HDi                        | 1812   | 229 | Xsara 1.4 e 1.6  | 1763          | 226        | C40 Séries Continental F162 Engine         | 0567          | 191        |
| C5  | 1822   | 229 | XSara  | 1822          | 229        | C50 Séries Continental F162 Engine         | 0567          | 191        |
| Citroen BX 19 Diesel                        | 0646   | 194 | Xsara Picasso 2.0 16V.                                     | 0976          | 206        | C60 Séries Continental F209 Engine         | 0567          | 191        |
| Congo                                       | 0846   | 201 | Xsara Picasso  | 1752          | 226        | CF20 Séries Continental Y112 Engine        | 0567          | 191        |
| CX 2.0                                      | 1187   | 212 | Xsara Picasso 1.6 HDI                                      | 1758          | 226        | CF25 Séries Continental Y112 Engine        | 0567          | 191        |
| CX Athena                                   | 0404   | 186 | Xsara Picasso 1.6  | 1763          | 226        | CF30 Séries Continental F162 Engine        | 0567          | 191        |
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| Empilhadeiras                      | 9426   | 234 | New Yorker V8 6.6L 655cc 400cid                             | 0495   | 189 | Motor 250 Super                | 0133   | 179 |
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| Motor PK4236 Pick Up               | 1359   | 215 | Newport V8 5.9L 360cid                                      | 0495   | 189 | Motor 6CTA 8.3 lts             | 0089   | 233 |
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| Pá Carregadeira Michigan 55A       | 1364   | 215 | Newport V8 7.2L 7211cc 440cid                               | 0495   | 189 | Motor N855                     | 0133   | 179 |
| Pá Carregadeira Michigan 55C       | 0105   | 179 | Newport V8 7.2L 7212cc 440cid                               | 0495   | 189 | Motor NT                       | 0088   | 233 |
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| Pá Carregadeira Michigan 75A       | 1359   | 215 | Town Country V8 6.3L 6286cc 383cid                          | 0495   | 189 | Motores                        | 0970   | 206 |
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| Pá Carregadeira Michigan 75II      | 1359   | 215 | Town Country V8 6.6L 6555cc 400cid                          | 0495   | 189 | Motores                        | 12684  | 240 |
| Pá Carregadeira Michigan 75III     | 0024   | 176 | Town Country V8 6.6L 6556cc 400cid                          | 0495   | 189 | Motores B / 4BT / 6BT / 6BTAA  | 12688  | 240 |
| Pá Carregadeira Michigan 75III     | 0105   | 179 | Town Country V8 7.2L 440cid                                 | 0495   | 189 | Motores C e ISC de 8,3 litros  | 1809   | 228 |
| Pá Carregadeira Michigan 75III     | 1359   | 215 | Town Country V8 7.2L 7211cc 440cid                          | 0495   | 189 | Motores C e ISC de 8,3 litros  | 13130  | 237 |
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| Charmant 1300                   | 0809          | 200        | Allis                               | 0651          | 194        | B250 V8 5.2L 5211cc 318cid         | 0816   | 200 |
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| 781 3 146 Diesel                | 0411          | 186        | Tratores M600, M610, M620 Deutz     | 1751          | 225        | D100 Pick Up V8 6.3L 383cid        | 0495   | 189 |
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| 990 4 Cil 186 Diesel            | 0411          | 186        | 4V                                  | 1751          | 225        | D100 Pick Up V8 6.6L 6555cc 400cid | 0495   | 189 |
| 991 4 Cil 186 Diesel            | 0411          | 186        | <b>Dimex</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> | D100 Pick Up V8 6.6L 6556cc 400cid | 0495   | 189 |
| 995 4 Cil 219 Diesel            | 0411          | 186        | Ônibus                              | 12686         | 240        | D100 Pick Up V8 7.2L 440cid        | 0495   | 189 |
| 996 4 Cil 219 Diesel            | 0411          | 186        | <b>Dodge</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> | D100 Pick Up V8 7.2L 7211cc 440cid | 0495   | 189 |
|                                 |               |            | 1500                                | 0609          | 192        | D100 Pick Up V8 7.2L 7212cc 440cid | 0495   | 189 |
|                                 |               |            |                                     |               |            | D100 Séries V8 6.3L 6286cc 383cid  | 0495   | 189 |

| Dodge                              | Nº ZEN | Pg. | Dodge                                   | Nº ZEN | Pg. | Dodge                                  | Nº ZEN | Pg. |
|------------------------------------|--------|-----|---|--------|-----|--|--------|-----|
| D150 V8 5.9L 360cid                | 0495   | 189 | Diplomat V8 5.2L 318cid                 | 0495   | 189 | Todos os modelos Chrysler 7.2L(440) V8 | 0495   | 189 |
| D150 V8 6.6L 400cid                | 0495   | 189 | Diplomat V8 5.2L 5211cc 318cid          | 0495   | 189 | Trucks S Séries                        | 0419   | 186 |
| D150 V8 7.2L 440cid                | 0495   | 189 | Dodge 1500                              | 0463   | 188 | Van A100 V8 5.2L 5212cc 318cid         | 0495   | 189 |
| D150 V6 3.9L 3906cc 239cid         | 0816   | 200 | Dodge 1500 1.8                          | 0714   | 196 | Van B100 L6 3.7L 3687cc 225cid         | 0495   | 189 |
| D150 V8 5.2L 5211cc 318cid         | 0816   | 200 | Especial/Special                        | 9302   | 234 | Van B100 V8 5.2L 5211cc 318cid         | 0495   | 189 |
| D150 V8 5.9L 360cid                | 0816   | 200 | GTX                                     | 0050   | 177 | Van B100 Van L6 3.2L 198cid            | 0495   | 189 |
| D200 V8 5.9L 360cid                | 0495   | 189 | Intrepid 3.3L                           | 9492   | 234 | Van B100 Van L6 3.2L 3254cc 198cid     | 0495   | 189 |
| D200 V8 6.6L 400cid                | 0495   | 189 | Magnum V8 5.2L 318cid                   | 0495   | 189 | Van B100 Van L6 3.7L 225cid            | 0495   | 189 |
| D200 V8 7.2L 440cid                | 0495   | 189 | Mini Ram 4 Cil 2.6L 2555cc 156cid VIN G | 9307   | 234 | Van B100 Van L6 3.7L 3687cc 225cid     | 0495   | 189 |
| D200 Pick Up V8 5.9L 360cid        | 0495   | 189 | Mirada L6 3.7L 3687cc 225cid            | 0495   | 189 | Van B100 Van V8 5.2L 318cid            | 0495   | 189 |
| D200 Pick Up V8 5.9L 5899cc 360cid | 0495   | 189 | Mirada V8 5.2L 318cid                   | 0495   | 189 | Van B100 Van V8 5.2L 5212cc 318cid     | 0495   | 189 |
| D200 Pick Up V8 5.9L 5900cc 360cid | 0495   | 189 | Monaco L6 3.7L 3687cc 225cid            | 0495   | 189 | Van B150 L6 3.7L 3687cc 225cid         | 0495   | 189 |
| D200 Pick Up V8 6.3L 383cid        | 0495   | 189 | Monaco V8 5.2L 318cid                   | 0495   | 189 | Van B150 V8 5.2L 5211cc 318cid         | 0495   | 189 |
| D200 Pick Up V8 6.3L 6286cc 383cid | 0495   | 189 | Monaco V8 5.2L 5212cc 318cid            | 0495   | 189 | Van B200 L6 3.7L 225cid                | 0495   | 189 |
| D200 Pick Up V8 6.6L 400cid        | 0495   | 189 | P200 L6 3.7L 3687cc 225cid              | 0495   | 189 | Van B200 L6 3.7L 3687cc 225cid         | 0495   | 189 |
| D200 Pick Up V8 6.6L 6555cc 400cid | 0495   | 189 | P300 L6 3.7L 3687cc 225cid              | 0495   | 189 | Van B200 V8 5.2L 5211cc 318cid         | 0495   | 189 |
| D200 Pick Up V8 6.6L 6556cc 400cid | 0495   | 189 | P300 V8 5.9L 360cid                     | 0495   | 189 | Van B200 Van L6 3.2L 198cid            | 0495   | 189 |
| D200 Pick Up V8 7.2L 440cid        | 0495   | 189 | Pick Up Durango 4x4                     | 0714   | 196 | Van B200 Van L6 3.2L 3254cc 198cid     | 0495   | 189 |
| D200 Pick Up V8 7.2L 7211cc 440cid | 0495   | 189 | Polara                                  | 0050   | 177 | Van B200 Van L6 3.7L 225cid            | 0495   | 189 |
| D200 Pick Up V8 7.2L 7212cc 440cid | 0495   | 189 | Polara L6 3.7L 225cid                   | 0495   | 189 | Van B200 Van L6 3.7L 3687cc 225cid     | 0495   | 189 |
| D200 Séries V8 6.3L 6286cc 383cid  | 0495   | 189 | Polara L6 3.7L 3687cc 225cid            | 0495   | 189 | Van B200 Van V8 5.2L 318cid            | 0495   | 189 |
| D250 V8 5.9L 360cid                | 0495   | 189 | Polara V8 4.5L 4473cc 273cid            | 0495   | 189 | Van B200 Van V8 5.2L 5212cc 318cid     | 0495   | 189 |
| D250 V6 3.9L 3906cc 239cid         | 0816   | 200 | Polara V8 5.2L 318cid                   | 0495   | 189 | Van B250 L6 3.7L 3687cc 225cid         | 0495   | 189 |
| D250 V8 5.2L 5211cc 318cid         | 0816   | 200 | Polara V8 5.2L 5212cc 318cid            | 0495   | 189 | Van B250 V8 5.2L 5211cc 318cid         | 0495   | 189 |
| D250 V8 5.9L 360cid                | 0816   | 200 | Ram 1500 V6 3.9L 3906cc 239cid          | 0816   | 200 | Van B300 L6 3.7L 225cid                | 0495   | 189 |
| D300 V8 5.9L 360cid                | 0495   | 189 | Ram 1500 V8 5.2L 5211cc 318cid          | 0816   | 200 | Van B300 L6 3.7L 3687cc 225cid         | 0495   | 189 |
| D300 V8 6.6L 400cid                | 0495   | 189 | Ram 1500 V8 5.9L 360cid                 | 0816   | 200 | Van B300 V8 5.2L 5211cc 318cid         | 0495   | 189 |
| D300 V8 7.2L 440cid                | 0495   | 189 | Ram 2500 V8 5.2L 5211cc 318cid          | 0816   | 200 | Van B300 Van L6 3.7L 225cid            | 0495   | 189 |
| D300 Pick Up V8 5.9L 360cid        | 0495   | 189 | Ram 2500 V8 5.9L 360cid                 | 0816   | 200 | Van B300 Van L6 3.7L 3687cc 225cid     | 0495   | 189 |
| D300 Pick Up V8 5.9L 5899cc 360cid | 0495   | 189 | Ram 2500 V10 8.0L 7990cc 488cid         | 1212   | 214 | Van B300 Van V8 5.2L 318cid            | 0495   | 189 |
| D300 Pick Up V8 5.9L 5900cc 360cid | 0495   | 189 | Ram 2500 10 Cil 8.0L 7990cc 488cid      | 9632   | 235 | Van B300 Van V8 5.2L 5212cc 318cid     | 0495   | 189 |
| D300 Pick Up V8 6.3L 383cid        | 0495   | 189 | Ram 3500 V8 5.9L 360cid                 | 0816   | 200 | Van B350 V8 5.2L 5211cc 318cid         | 0495   | 189 |
| D300 Pick Up V8 6.3L 6286cc 383cid | 0495   | 189 | Ram 3500 V10 8.0L 7990cc 488cid         | 1212   | 214 | W100 V8 5.9L 360cid                    | 0495   | 189 |
| D300 Pick Up V8 6.6L 400cid        | 0495   | 189 | Ram 3500 10 Cil 8.0L 7990cc 488cid      | 9632   | 235 | W150 V6 3.9L 3906cc 239cid             | 0816   | 200 |
| D300 Pick Up V8 6.6L 6555cc 400cid | 0495   | 189 | Ram 4000 8 cil. 5.9L 360cid             | 0816   | 200 | W150 V8 5.2L 5211cc 318cid             | 0816   | 200 |
| D300 Pick Up V8 6.6L 6556cc 400cid | 0495   | 189 | Ramcharger V8 5.9L 360cid               | 0495   | 189 | W150 V8 5.9L 360cid                    | 0816   | 200 |
| D300 Pick Up V8 7.2L 440cid        | 0495   | 189 | Ramcharger V8 5.9L 5899cc 360cid        | 0495   | 189 | W250 V8 5.2L 5211cc 318cid             | 0816   | 200 |
| D300 Pick Up V8 7.2L 7211cc 440cid | 0495   | 189 | Ramcharger V8 6.6L 400cid               | 0495   | 189 | W250 V8 5.9L 360cid                    | 0816   | 200 |
| D300 Pick Up V8 7.2L 7212cc 440cid | 0495   | 189 | Ramcharger V8 6.6L 6555cc 400cid        | 0495   | 189 | W350 V8 5.9L 360cid                    | 0816   | 200 |
| D300 Séries V8 6.3L 6286cc 383cid  | 0495   | 189 | Ramcharger V8 6.6L 6556cc 400cid        | 0495   | 189 | <b>Dodge Truck</b>                     |        |     |
| D350 V8 5.9L 360cid                | 0495   | 189 | Ramcharger V8 7.2L 440cid               | 0495   | 189 | A100 Truck V8 5.2L 318cid              | 0495   | 189 |
| D350 V8 5.9L 360cid                | 0816   | 200 | Ramcharger V8 7.2L 7211cc 440cid        | 0495   | 189 | CB300 V8 5.9L 360cid VIN K             | 0495   | 189 |
| D400 V8 5.9L 360cid                | 0495   | 189 | Ramcharger V8 7.2L 7212cc 440cid        | 0495   | 189 | CB300 V8 5.9L 360cid VIN T             | 0495   | 189 |
| D400 V8 7.2L 440cid                | 0495   | 189 | Ramcharger V8 5.2L 5211cc 318cid        | 0816   | 200 | Compass L4 2.0L 1998cc 122cid          | 1771   | 227 |
| D450 V8 5.9L 360cid                | 0495   | 189 | Ramcharger V8 5.9L 360cid               | 0816   | 200 | Compass L4 2.0L 1998cc 122cid VIN A    | 1771   | 227 |
| D450 V8 7.2L 440cid                | 0495   | 189 | Royal Mini Ram 4 Cil 2.6L 2555cc 156cid | 9307   | 234 | Compass L4 2.4L 2360cc 144cid          | 1771   | 227 |
| Dakota V6 3.9L 3906cc 239cid       | 0816   | 200 | Royal Monaco V8 5.2L 318cid             | 0495   | 189 | D100 L6 3.7L 3687cc 225cid             | 0495   | 189 |
| Dakota V8 5.2L 5211cc 318cid       | 0816   | 200 | St. Regis L6 3.7L 3687cc 225cid         | 0495   | 189 | D100 V8 5.2L 5211cc 318cid             | 0495   | 189 |
| Dart L6 3.2L 198cid                | 0495   | 189 | St. Regis V8 5.2L 318cid                | 0495   | 189 | D100 Pick Up L6 3.7L 3687cc 225cid     | 0495   | 189 |
| Dart L6 3.2L 3254cc 198cid         | 0495   | 189 | Todos os modelos Chrysler 5.9L(360) V8  | 0495   | 189 | D100 Pick Up V8 5.2L 318cid            | 0495   | 189 |
| Dart L6 3.7L 3687cc 225cid         | 0495   | 189 | Todos os modelos Chrysler 6.3L(383) V8  | 0495   | 189 | D100 Pick Up V8 5.2L 5212cc 318cid     | 0495   | 189 |
| Dart V8 4.5L 273cid                | 0495   | 189 | Todos os modelos Chrysler 6.6L(400) V8  | 0495   | 189 | D150 L6 3.7L 3687cc 225cid             | 0495   | 189 |
| Dart V8 4.5L 4473cc 273cid         | 0495   | 189 | Todos os modelos Chrysler 6.8L(413) V8  | 0495   | 189 | D150 V8 5.2L 5211cc 318cid             | 0495   | 189 |
| Dart V8 5.2L 318cid                | 0495   | 189 |   |        |     | D200 L6 3.7L 3687cc 225cid             | 0495   | 189 |
| Dart V8 5.2L 5212cc 318cid         | 0495   | 189 |   |        |     | D200 V8 5.2L 5211cc 318cid             | 0495   | 189 |
| Dart V8 5.6L 340cid                | 0495   | 189 |   |        |     | D200 Pick Up L6 3.7L 3687cc 225cid     | 0495   | 189 |
| Dart V8 5.6L 5572cc 340cid         | 0495   | 189 |   |        |     |  |        |     |
| Diplomat L6 3.7L 3687cc 225cid     | 0495   | 189 |   |        |     |  |        |     |

| Dodge Truck                         | Nº ZEN        | Pg.        | Especial/Special                   | Nº ZEN        | Pg.        | Fiat                       | Nº ZEN | Pg. |
|-------------------------------------|---------------|------------|------------------------------------|---------------|------------|----------------------------|--------|-----|
| D200 Pick Up V8 5.2L 318cid         | 0495          | 189        | Motor de Popa                      | 1673          | 222        | 131 1.6 e 1.8              | 0213   | 181 |
| D200 Pick Up V8 5.2L 5212cc 318cid  | 0495          | 189        | Motores ZM                         | 1729          | 225        | 131 2.0                    | 0394   | 185 |
| D250 L6 3.7L 3687cc 225cid          | 0495          | 189        | Retroescavadeira Chinesa           | 1711          | 224        | 131                        | 0407   | 186 |
| D250 V8 5.2L 5211cc 318cid          | 0495          | 189        | Safari                             | 1518          | 217        | 131 2.0, 2.5 diesel        | 0601   | 192 |
| D300 L6 3.7L 3687cc 225cid          | 0495          | 189        | T 206                              | 1518          | 217        | 131 Mirafiori 1.3          | 0325   | 184 |
| D300 V8 5.2L 5211cc 318cid          | 0495          | 189        | <b>Esttem</b>                      | <b>Nº ZEN</b> | <b>Pg.</b> | 131D 2.0 e 2.5             | 0291   | 182 |
| D300 Pick Up L6 3.7L 3687cc 225cid  | 0495          | 189        | MPF                                | 1509          | 216        | 132 1.6, 1.8 e 0.2         | 0213   | 181 |
| D300 Pick Up V8 5.2L 318cid         | 0495          | 189        | <b>Falr</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> | 132 2.0                    | 0394   | 185 |
| D300 Pick Up V8 5.2L 5212cc 318cid  | 0495          | 189        | 742 9D - 130                       | 1827          | 229        | 132                        | 0407   | 186 |
| D350 V8 5.2L 5211cc 318cid          | 0495          | 189        | M1620H                             | 0087          | 233        | 132 2.0, 2.5 diesel        | 0601   | 192 |
| Dakota V6 3.9L 3906cc 239cid        | 0495          | 189        | <b>Farymann</b>                    | <b>Nº ZEN</b> | <b>Pg.</b> | 132D 2.0 e 2.5             | 0291   | 182 |
| Journey L4 2.4L 2360cc 144cid VIN B | 1771          | 227        | D 40 - E 40                        | 0638          | 193        | 133                        | 0769   | 198 |
| Ramcharger L6 3.7L 3687cc 225cid    | 0495          | 189        | Marine 36A 0.6L Diesel             | 0781          | 199        | 133L                       | 0769   | 198 |
| Ramcharger V8 5.2L 318cid           | 0495          | 189        | Marine 36E 0.6L Diesel             | 0781          | 199        | 141                        | 0120   | 179 |
| Ramcharger V8 5.2L 5211cc 318cid    | 0495          | 189        | Marine 41A 0.7L Diesel             | 0781          | 199        | 147                        | 0060   | 177 |
| Ramcharger V8 5.2L 5212cc 318cid    | 0495          | 189        | Marine 41E 0.7L Diesel             | 0781          | 199        | 147                        | 0111   | 179 |
| W100 L6 3.7L 3687cc 225cid          | 0495          | 189        | <b>Fendt</b>                       | <b>Nº ZEN</b> | <b>Pg.</b> | 147                        | 0743   | 197 |
| W100 V8 5.2L 5211cc 318cid          | 0495          | 189        | Especial/Special                   | 1076          | 210        | 147 1.1 e 1.3              | 0965   | 206 |
| W100 Pick Up L6 3.7L 3687cc 225cid  | 0495          | 189        | <b>Fiat</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> | 147 Brio, SPR, SPT         | 0743   | 197 |
| W100 Pick Up V8 5.2L 318cid         | 0495          | 189        | 1.9 JTD MJ                         | 1752          | 226        | 150 NC,NT20 8220.02 9.6L   | 1059   | 209 |
| W100 Pick Up V8 5.2L 5212cc 318cid  | 0495          | 189        | 110 NC OM-8360.04.200 6.9L         | 1059          | 209        | 150 NC17 OM-8360.03 8.1L   | 1059   | 209 |
| W150 L6 3.7L 3687cc 225cid          | 0495          | 189        | 1100D 217D                         | 0533          | 190        | 1500                       | 0533   | 190 |
| W150 V8 5.2L 5211cc 318cid          | 0495          | 189        | 1100T                              | 0713          | 196        | 1500                       | 0713   | 196 |
| W200 L6 3.7L 3687cc 225cid          | 0495          | 189        | 1100TD                             | 0120          | 179        | 1500L                      | 0533   | 190 |
| W200 V8 5.2L 318cid                 | 0495          | 189        | 1100TN                             | 0953          | 205        | 150NC                      | 0367   | 185 |
| W200 V8 5.2L 5211cc 318cid          | 0495          | 189        | 124                                | 0120          | 179        | 150NR                      | 0367   | 185 |
| W200 Pick Up L6 3.7L 3687cc 225cid  | 0495          | 189        | 124 Special                        | 0120          | 179        | 150NT                      | 0367   | 185 |
| W200 Pick Up V8 5.2L 318cid         | 0495          | 189        | 124 Special 1.4 e 0.6              | 0213          | 181        | 159                        | 0087   | 233 |
| W200 Pick Up V8 5.2L 5212cc 318cid  | 0495          | 189        | 125                                | 0713          | 196        | 159 17 OM-8360.05.254 8.1L | 1059   | 209 |
| W250 V8 5.2L 5211cc 318cid          | 0495          | 189        | 125 Polonês                        | 0533          | 190        | 159NC                      | 0367   | 185 |
| W300 L6 3.7L 3687cc 225cid          | 0495          | 189        | 125 Special                        | 0213          | 181        | 159NR                      | 0367   | 185 |
| W300 V8 5.2L 5211cc 318cid          | 0495          | 189        | 127 1.3D                           | 0060          | 177        | 159NT                      | 0367   | 185 |
| W300 Pick Up L6 3.7L 3687cc 225cid  | 0495          | 189        | 127 0.9, 1.05, 1.3                 | 0120          | 179        | 160 26 8210.02.020 13,8L   | 1059   | 209 |
| W300 Pick Up V8 5.2L 318cid         | 0495          | 189        | 127 0.9                            | 0408          | 186        | 1600S                      | 0533   | 190 |
| W300 Pick Up V8 5.2L 5212cc 318cid  | 0495          | 189        | 127 1.05                           | 0408          | 186        | 180                        | 0078   | 233 |
| W350 V8 5.2L 5211cc 318cid          | 0495          | 189        | 127                                | 1024          | 208        | 1800                       | 0533   | 190 |
| <b>DongFeng</b>                     | <b>Nº ZEN</b> | <b>Pg.</b> | 127 Brasile Diesel                 | 0394          | 185        | 1800                       | 0713   | 196 |
| Caminhões                           | 1819          | 229        | 127 Sport 1.3                      | 0408          | 186        | 1800B                      | 0533   | 190 |
| <b>Eagle</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> | 128                                | 0120          | 179        | 190 F20-190 (Unic V 85 S)  | 0087   | 233 |
| Vision 3.3L                         | 9492          | 234        | 128 com motor 1100 e 1300          | 0183          | 180        | 190PAC20                   | 0087   | 233 |
| <b>Eicher</b>                       | <b>Nº ZEN</b> | <b>Pg.</b> | 128 1.1 e 1.3                      | 0325          | 184        | 210                        | 0078   | 233 |
| Especial/Special                    | 1076          | 210        | 128 Super Europa                   | 0743          | 197        | 217N                       | 0953   | 205 |
| <b>Escort Tractor</b>               | <b>Nº ZEN</b> | <b>Pg.</b> | 129.16 8360.05.B 8.1L              | 1059          | 209        | 2300                       | 0533   | 190 |
| Especial/Special                    | 1502          | 216        | 13.304F                            | 0087          | 233        | 2300                       | 0713   | 196 |
| <b>Especial/Special</b>             | <b>Nº ZEN</b> | <b>Pg.</b> | 130                                | 0213          | 181        | 238                        | 0120   | 179 |
| Cooplantio                          | 1733          | 225        | 130 CP3 7.4L                       | 1059          | 209        | 238 1.8                    | 0407   | 186 |
| Especial                            | 1574          | 218        | 130 NC OM-8360.04.300 6.9L         | 1059          | 209        | 241T                       | 0120   | 179 |
| Especial/Special                    | 1570          | 218        | 130 NC,NR,NT20 8220.02 9.6L        | 1059          | 209        | 241TN                      | 0291   | 182 |
| Estate                              | 1518          | 217        | 130 NC14, NT14 OM-8360.04.200 6.9L | 1059          | 209        | 241TN                      | 0310   | 183 |
| Jeep (Company MM) MDI 3000          | 1615          | 219        | 130 Super                          | 0389          | 185        | 260                        | 0087   | 233 |
| Jumps Auto                          | 1772          | 227        | 1300                               | 0533          | 190        | 260 (Unic V 85 S)          | 0087   | 233 |
| Jumps Auto                          | 1786          | 227        | 1300                               | 0713          | 196        | 26304DFS                   | 0087   | 233 |
| Maruti                              | 1797          | 228        | 1300S                              | 0367          | 185        | 30.304DFSA                 | 0087   | 233 |
| Motocicletas                        | 0818          | 200        | 130NC                              | 0367          | 185        | 332                        | 0953   | 205 |
| Motocicletas                        | 0947          | 205        | 130NR                              | 0367          | 185        | 352                        | 0953   | 205 |
| Motocicletas                        | 1722          | 224        | 130NT                              | 0367          | 185        | 40NC                       | 0291   | 182 |
| Motor de Popa                       | 1656          | 221        | 131 1.3                            | 0120          | 179        | 440                        | 1624   | 220 |
|                                     |               |            |                                    |               |            | 450                        | 0310   | 183 |

| Fiat                       | Nº ZEN | Pg. | Fiat                            | Nº ZEN | Pg. | Fiat                          | Nº ZEN | Pg. |
|----------------------------|--------|-----|---------------------------------|--------|-----|-------------------------------|--------|-----|
| 450                        | 1624   | 220 | 75NC10                          | 0367   | 185 | Caminhão 880.15               | 0648   | 194 |
| 450DT                      | 0310   | 183 | 79 F10 OM-8340.04.200, 250 4,6L | 1059   | 209 | Caminhão 955                  | 0648   | 194 |
| 455                        | 1624   | 220 | 80                              | 1624   | 220 | Caminhão 980                  | 0648   | 194 |
| 465C                       | 0291   | 182 | 85                              | 1624   | 220 | Caminhão FNM D11000           | 0121   | 239 |
| 466DT                      | 0291   | 182 | 850                             | 0367   | 185 | Caminhão FNM D11000           | 0201   | 239 |
| 480DT                      | 0291   | 182 | 880                             | 0367   | 185 | Caminhão FNM D9500            | 0036   | 233 |
| 50                         | 1624   | 220 | 880DT                           | 0367   | 185 | Caminhão FNM D9500            | 0121   | 239 |
| 50 F10 OM-8340.04.250 4,6L | 1059   | 209 | Abarth Rally                    | 0213   | 181 | Caminhão FNM D9500            | 0201   | 239 |
| 500                        | 0291   | 182 | Allis                           | 0561   | 191 | Campagnola diesel             | 0291   | 182 |
| 500                        | 0310   | 183 | Argenta 2.0                     | 0111   | 179 | Campagnola                    | 0407   | 186 |
| 500                        | 0806   | 200 | Argenta 2.5                     | 0291   | 182 | Campagnola 1107 A             | 0213   | 181 |
| 500                        | 1752   | 226 | Argenta 1.6                     | 0389   | 185 | Campagnola AD                 | 0213   | 181 |
| 500 (Cinquecento) 704, 903 | 0786   | 199 | Argenta 2.5                     | 0407   | 186 | Campagnola JD                 | 0213   | 181 |
| 500DT                      | 0291   | 182 | Argenta 2.5 diesel              | 0601   | 192 | Campagnolo Diesel             | 0953   | 205 |
| 500DT                      | 0310   | 183 | Argenta 2.5                     | 0875   | 202 | CHT Turbo 2.0                 | 0394   | 185 |
| 500DT                      | 0768   | 198 | BI20 25 30 C                    | 0291   | 182 | Coupe                         | 0713   | 196 |
| 500F                       | 0768   | 198 | BIM20 25                        | 0291   | 182 | Croma 1.6                     | 0389   | 185 |
| 500L                       | 0768   | 198 | Brava                           | 0213   | 181 | Croma 2.2 16V                 | 0756   | 197 |
| 500R                       | 0768   | 198 | Brava 1.8 HGT                   | 0998   | 207 | Croma 2.5 Turbo               | 0875   | 202 |
| 505                        | 0291   | 182 | Brava 1.9 JTD                   | 1033   | 208 | Croma 2000                    | 0394   | 185 |
| 505C                       | 0291   | 182 | Brava 1.6                       | 1169   | 212 | Croma D e TD                  | 1104   | 210 |
| 505S                       | 0291   | 182 | Brava 1.6 16V                   | 1561   | 218 | DI12 15                       | 0291   | 182 |
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| Trator de Esteira 7D                                 | 0985   | 206 | Caminhão 50.10           | 0601   | 192 | Ducato 14                       | 0875          | 202        |
| Trator de Esteira 7D - Substitui 10479654            | 1679   | 222 | Caminhão 50.8            | 0601   | 192 | Ducato 14 4X4                   | 0875          | 202        |
| Trator de Esteira 7D - Substitui 10479654            | 1805   | 228 | Caminhão 50.9            | 0601   | 192 | Ducato 18                       | 0875          | 202        |
| Trator de Esteira FD170                              | 1811   | 229 | Caminhão 55.8            | 0601   | 192 | Ducato 18 Maxi                  | 0875          | 202        |
| Trator de Esteira FD170                              | 13118  | 237 | Caminhão 55.9            | 0601   | 192 | Ducato 10 2.5D                  | 0291          | 182        |
| Trator de Esteiras AD14 com motor Scania             | 0087   | 233 | Caminhão 60.10           | 0601   | 192 | Ducato 13 2.5D                  | 0291          | 182        |
| Trator de Esteiras AD14 com motor Scania             | 0122   | 239 | Caminhão 60.8            | 0601   | 192 | Ducato 719 2.8                  | 1025          | 208        |
| Trator de Esteiras AD14 com motor Scania             | 0133   | 179 | Caminhão 60.9            | 0367   | 185 | Ducato 720 2.8                  | 1025          | 208        |
| Trator de Esteiras ADB                               | 0092   | 178 | Caminhão 65.10           | 0601   | 192 | Ducato 721 2.8                  | 1025          | 208        |
| Trator FA-200 8215 Diesel Diesel                     | 0778   | 198 | Caminhão 70.10           | 0601   | 192 | Ducato 722 2.8                  | 1025          | 208        |
| Trator FD-14 8205 Diesel                             | 0778   | 198 | Caminhão 75.10           | 0601   | 192 | Ducato 723 2.8                  | 1025          | 208        |
| Trator FD-20 8215 Diesel                             | 0778   | 198 | Caminhão 79.10           | 0601   | 192 | Ducato 724 2.8                  | 1025          | 208        |
| Wheel Loader FR-20 8215 Diesel                       | 1204   | 213 | Caminhão 79.13           | 0601   | 192 | Ducato 725 2.8                  | 1025          | 208        |
| Wheel Loader FR-20B 8215 Diesel                      | 1204   | 213 | Caminhão 80              | 0367   | 185 | Ducato 726 2.8                  | 1025          | 208        |
| Wheel LoaderFL-20 8215 Diesel                        | 1204   | 213 | Caminhão 80              | 0601   | 192 | Ducato 729 2.8                  | 1025          | 208        |
|  |        |     | Caminhão 90              | 0601   | 192 | Ducato Argentino                | 0838          | 201        |
|  |        |     | Caminhão 90.13           | 0367   | 185 | Engines BF4L1011 2.71L - 2732cc | 1043          | 208        |
|  |        |     | Caminhões 1000           | 0315   | 183 | Engines F2L1011 1.4L - 1366cc   | 1043          | 208        |
|  |        |     | Caminhões 120E           | 0315   | 183 | Engines F3L1011 2.0L - 2049cc   | 1043          | 208        |
|  |        |     | Caminhões 150            | 0315   | 183 | Engines F4L1011 2.7L - 2732cc   | 1043          | 208        |
|  |        |     | Caminhões 150T           | 0315   | 183 | Especial/Special                | 0630          | 193        |
|  |        |     | Caminhões 160E           | 0315   | 183 | Eurocargo                       | 1157          | 211        |
|  |        |     | Caminhões 160T           | 0315   | 183 | Furgão Daily                    | 0291          | 182        |
|  |        |     | Caminhões 605C           | 0315   | 183 | Iveco BF4L1011 2.71L - 2732cc   | 1483          | 216        |
|  |        |     | Caminhões 640            | 0315   | 183 | Iveco BF4L1011 2.7L - 2732cc    | 1483          | 216        |
|  |        |     | Caminhões 680            | 0315   | 183 | Iveco F2L1011 1.4L - 1366cc     | 1483          | 216        |
|  |        |     | Caminhões 780            | 0315   | 183 | Iveco F3L1011 2.0L - 2049cc     | 1483          | 216        |
|  |        |     | Caminhões 805            | 0315   | 183 | Iveco F4L1011 2.7L - 2732cc     | 1483          | 216        |
|  |        |     | Daily                    | 0310   | 183 | Iveco F4L1011 2.7L - 2732cc     | 1483          | 216        |
|  |        |     | Daily Turbo 09.09 Diesel | 0875   | 202 | Microônibus City Plus           | 1650          | 221        |
|  |        |     | Daily Turbo 35.10 Diesel | 0875   | 202 |                                 |               |            |
|  |        |     | Daily Turbo 49.10 Diesel | 0875   | 202 | <b>Ford</b>                     | <b>Nº ZEN</b> | <b>Pg.</b> |
|  |        |     | Daily 28.8               | 0301   | 183 | 100 1.5                         | 0293          | 183        |
|  |        |     | Daily 28.8               | 0407   | 186 | 1000 2-77 Shibaura Diesel       | 0684          | 195        |
|  |        |     | Daily 28.8               | 0601   | 192 | 12 M                            | 0015          | 176        |
|  |        |     | Daily 30.8               | 0301   | 183 | 15 M                            | 0015          | 176        |
|  |        |     | Daily 30.8               | 0407   | 186 | 1500 2cyl Shibaura Diesel       | 0684          | 195        |
|  |        |     | Daily 30.8               | 0601   | 192 | 1600 2-77 Shibaura Diesel       | 0684          | 195        |
|  |        |     | Daily 32.8               | 0407   | 186 | 17 M                            | 0015          | 176        |
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| 2000                          | 0322   | 184 | Caminhões C1722e (4x2), C2422e(6x2), C2622e (6x4), C2428e (6x2), C2628e (6x4) Com Motor Cummins Eletrônico ISB (4 e 6 Cilindros) | 1679   | 222 | Cargo 2215  | 0505   | 189 |
| 3,6 Kw                        | 1676   | 222 |  |        |     | Cargo 2218  | 0505   | 189 |
| 3000                          | 0322   | 184 |  |        |     | Cargo 2218 T  | 0505   | 189 |
| 3010S                         | 1624   | 220 |  |        |     | Cargo 2319  | 0505   | 189 |
| 3600 Tractor                  | 0677   | 195 | Caminhões C1722e (4x2), C2422e(6x2), C2622e (6x4), C2428e (6x2), C2628e (6x4) Com Motor Cummins Eletrônico ISB (4 e 6 Cilindros) | 1805   | 228 | Cargo 2422 Cummins 6CTAA 8.3  | 1648   | 221 |
| 3830                          | 1624   | 220 |  |        |     | Cargo 2425 Cummins 6CTAA 8.3  | 1648   | 221 |
| 4000                          | 0322   | 184 |  |        |     | Cargo 2425 Mixer Cummins 6CTAA 8.3  | 1648   | 221 |
| 4010S                         | 1624   | 220 |  |        |     | Cargo 2630 Cummins 6CTAA 8.3  | 1648   | 221 |
| 4030                          | 1624   | 220 | Caminhões C815e (4x2), CI317e (4x2), C1517e (4x2), C1717e (4x2) Com Motor Cummins Eletrônico ISB (4 e 6 Cilindros)               | 1679   | 222 | Cargo C 1215  | 0105   | 179 |
| 4600                          | 0024   | 176 |  |        |     | Cargo C 1215  | 1364   | 215 |
| 4600                          | 1359   | 215 |  |        |     | Cargo C 1216  | 0105   | 179 |
| 5000                          | 0322   | 184 |  |        |     | Cargo C 1216  | 1364   | 215 |
| 5010S                         | 1624   | 220 | Caminhões C815e (4x2), CI317e (4x2), C1517e (4x2), C1717e (4x2) Com Motor Cummins Eletrônico ISB (4 e 6 Cilindros)               | 1805   | 228 | Cargo C 1216 6BT  | 1691   | 223 |
| 5600                          | 0024   | 176 |  |        |     | Cargo C 1217  | 0105   | 179 |
| 5600                          | 1359   | 215 |  |        |     | Cargo C 1217  | 1364   | 215 |
| 6600 4 cil                    | 0024   | 176 | Caminhões com Motores Cummins  | 12688  | 240 | Cargo C 1217 E  | 1697   | 223 |
| 6600 4 cil                    | 1359   | 215 | Campana C/R  | 0032   | 233 | Cargo C 1317 E  | 1697   | 223 |
| 7000                          | 0322   | 184 | Capri 2.8  | 0068   | 178 | Cargo C 1412 6BTA   | 1691   | 223 |
| A, D Series                   | 0398   | 186 | Capri  | 0080   | 178 | Cargo C 1415  | 0105   | 179 |
| A0406                         | 0313   | 183 | Capri 1.3 e 1.6  | 0220   | 181 | Cargo C 1415  | 1364   | 215 |
| A0506                         | 0313   | 183 | Capri 1.3, 1.6, 2.0  | 0222   | 181 | Cargo C 1416  | 0105   | 179 |
| Bedford                       | 0134   | 179 | Capri 1.3 e 1.6  | 0280   | 233 | Cargo C 1416  | 1364   | 215 |
| Belina com motor CHT          | 0293   | 183 | Capri 1.3, 1.5 e 2.0   | 0307   | 183 | Cargo C 1416 6BT  | 1691   | 223 |
| Belina I                      | 0044   | 176 | Capri 1.3, 1.6, 2.0, 2000GT  | 0362   | 185 | Cargo C 1417  | 0105   | 179 |
| Belina II com motor CHT 1.6   | 0108   | 179 | Capri  | 0412   | 186 | Cargo C 1417  | 1364   | 215 |
| Bronco 4.9 lts                | 1192   | 213 | Capri 2.3  | 0482   | 188 | Cargo C 1421  | 0105   | 179 |
| Bronco 5.0 lts                | 1192   | 213 | Capri 1.6, 2.0   | 0520   | 189 | Cargo C 1421  | 1364   | 215 |
| Bronco 5.8 lts                | 1192   | 213 | Capri II 2.3, 2.8  | 0108   | 179 | Cargo C 1517 E  | 1697   | 223 |
| Bronco 4.9 lts                | 1224   | 214 | Cargo com motor Cummins  | 0497   | 189 | Cargo C 1617  | 0105   | 179 |
| Bronco 5.0 lts                | 1224   | 214 | Cargo 7.8 lts  | 0625   | 193 | Cargo C 1617  | 1364   | 215 |
| Bronco 5.8 lts                | 1224   | 214 | Cargo Cummins ISBe 6 cil   | 1623   | 220 | Cargo C 1617 6BTAA  | 1691   | 223 |
| C-Max 2000                    | 1714   | 224 | Cargo  | 1743   | 225 | Cargo C 1621  | 0105   | 179 |
| Caminhão                      | 0041   | 176 | Cargo  | 1785   | 227 | Cargo C 1621  | 1364   | 215 |
| Caminhão 1519 Ford 7.8 lts    | 1190   | 212 | Cargo 1113   | 0085   | 178 | Cargo C 1621 6BTAA  | 1691   | 223 |
| Caminhão 1521 Ford 7.8 lts    | 1190   | 212 | Cargo 1114   | 0505   | 189 | Cargo C 1717 E  | 1697   | 223 |
| Caminhão 1621 Ford 7.8 lts    | 1190   | 212 | Cargo 1117   | 0505   | 189 | Cargo C 1722 E  | 1697   | 223 |
| Caminhão 2318 Ford 7.8 lts    | 1190   | 212 | Cargo 1217   | 1523   | 217 | Cargo C 2422 E  | 1697   | 223 |
| Caminhão 2321 Ford 7.8 lts    | 1190   | 212 | Cargo 1218   | 0505   | 189 | Cargo C 2428 E  | 1697   | 223 |
| Caminhão 3021 Ford 7.8 lts    | 1190   | 212 | Cargo 1313   | 0085   | 178 | Cargo C 2622 E  | 1697   | 223 |
| Caminhão 3323 Ford 7.8 lts    | 1190   | 212 | Cargo 1314   | 0505   | 189 | Cargo C 2628 E  | 1697   | 223 |
| Caminhão Cargo 1317           | 0087   | 233 | Cargo 1317   | 0505   | 189 | Cargo C 814   | 0105   | 179 |
| Caminhão Cargo 1320           | 0087   | 233 | Cargo 1416, 1722, 1716   | 12682  | 240 | Cargo C 814   | 1364   | 215 |
| Caminhão Cargo 1517           | 0087   | 233 | Cargo 1417   | 1523   | 217 | Cargo C 815   | 0105   | 179 |
| Caminhão Cargo 1520           | 0087   | 233 | Cargo 1418   | 0505   | 189 | Cargo C 815   | 1364   | 215 |
| Caminhão Cargo 1617           | 0087   | 233 | Cargo 1421 Cummins   | 1523   | 217 | Cargo C 815 E   | 1697   | 223 |
| Caminhão Cargo 1620           | 0087   | 233 | Cargo 1514   | 0505   | 189 | Cargo Eletrônico - 1932, 2632, 2932, 4532 e 5032 com motor Cummins ISL 8.3L | 1809   | 228 |
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| Caminhão Cargo CF 7000.       | 1190   | 212 | Cargo 1619   | 0505   | 189 | Club 8 Cil 4.7L 4727cc 289cid   | 0053   | 177 |
| Caminhão F100 com motor 4 cil | 0104   | 178 | Cargo 1622 Cummins 6CTAA 8.3   | 1648   | 221 | Club Wagon 8 Cil 4.3L 4261cc 260cid   | 0053   | 177 |
| Caminhão F4000                | 1845   | 230 | Cargo 1622 1630, 2422, 2425, 2622, 2626, 2630, 2631, 3222, 4030 com motor Cummins 6CTAA 8,3 litros                               | 13130  | 237 | Club Wagon 8 Cil 4.7L 4727cc 289cid   | 0053   | 177 |
| Caminhão F75 com motor 4 cil  | 0104   | 178 | Cargo 1622, 1630, 2422, 2425, 2622, 2626, 2630, 2631, 3222, 4030 6CTAA 8,3 litr com motor Cummins                                | 1809   | 228 | Consul 2.3  | 0108   | 179 |
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| Consul  | 0412   | 186 | Custom 8 Cil 4.3L 4261cc 260cid           | 0053   | 177 | Escort Audi  | 0798   | 199 |
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| Country Sedan 8 Cil 5.0L 302cid               | 0053   | 177 | Custom 500 8 Cil 5.0L 4949cc 302cid       | 0053   | 177 | Escort   | 12717  | 240 |
| Country Sedan 8 Cil 5.0L 4949cc 302cid        | 0053   | 177 | Custom 500 8 Cil 5.8L 351cid              | 0053   | 177 | Escort Ghia  | 0323   | 184 |
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| Country Sedan 8 Cil 5.8L 5752cc 351cid        | 0053   | 177 | Custom 500 8 Cil 5.8L 5752cc 351cid       | 0053   | 177 | Escort GL  | 0467   | 188 |
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| Country Squire 8 Cil 5.8L 5753cc 351cid       | 0053   | 177 | D1314                                     | 0661   | 194 | Escort LX L4 1.9 gasolina                          | 0455   | 188 |
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| F1000 MWM                        | 0085   | 178 | F250 MWM SÉRIE X - 10 E 229       | 1596   | 219 | Fairlane 8 Cil 5.0L 302cid        | 0053   | 177 |
| F1000 gasolina 6 cil             | 0162   | 180 | F250                              | 1675   | 222 | Fairlane 8 Cil 5.0L 4949cc 302cid | 0053   | 177 |
| F1000 Maxion HSD                 | 0657   | 194 | F250                              | 1684   | 222 | Fairlane 8 Cil 5.8L 351cid        | 0053   | 177 |
| F1000 4.9l. Gasolina             | 0794   | 199 | F250                              | 1845   | 230 | Fairlane 8 Cil 5.8L 5752cc 351cid | 0053   | 177 |
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| F12000 Perkins 6 cil             | 1359   | 215 | F400                              | 0162   | 180 | Falcon 8 Cil 5.8L 5752cc 351cid   | 0053   | 177 |
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| Taurus 1.3 e 1.6                                       | 0220   | 181 | Verona                             | 0762   | 198 | Severe Duty com motor Cummins ISX   | 13117         | 237        |
| Taurus 1.3, 1.6, 2.0                                   | 0222   | 181 | Verona 1.8i, 2.0i                  | 12685  | 240 | Severe Duty com motor DD13  | 1810          | 228        |
| Taurus 2.0 e 2.3                                       | 0238   | 182 | Verona GLX                         | 0323   | 184 | Substitui Mitsubishi FL0379, MIB970379. Denso 428000-4451                       | 1811          | 229        |
| Taurus 2.0 V6  | 0307   | 183 | Verona LX 1.6                      | 0108   | 179 |   |               |            |
| Taurus V6 3.5L 3496cc 213cid                           | 1677   | 222 | Versailles 1.8, 2.0 e 2.0i         | 0108   | 179 |   |               |            |
| Taurus   | 1871   | 231 | VL com odore                       | 0475   | 188 |   |               |            |
| Taurus V6 3.0  | 13268  | 237 | XR2                                | 0520   | 189 |   |               |            |
|  |        |     | XR3                                | 0323   | 184 |   |               |            |
|  |        |     | XR3 com motor Zetec 1.8            | 0520   | 189 |   |               |            |

| Freightliner   | Nº ZEN | Pg. | General Motors/Chevrolet                             | Nº ZEN | Pg. | General Motors/Chevrolet                 | Nº ZEN | Pg. |
|--|--------|-----|--|--------|-----|--|--------|-----|
| Substitui Mitsubishi MK0077, 009T70077, 8MJ4298AM e VV0977. Denso 428000-4420, 4 | 1811   | 229 | C10  | 0045   | 177 | Caminhão D478                            | 0568   | 191 |
|  |        |     | C10 V8 5.0L 305cid                                   | 1189   | 212 | Caminhões de linha pesada 6V             | 0626   | 193 |
|  |        |     | C10 Suburban V8 5.0L 305cid                          | 1189   | 212 | Capice Modelo Antigo                     | 0522   | 189 |
| General Motors/Chevrolet   | Nº ZEN | Pg. | C20  | 0013   | 176 | Captiva 3.6                              | 0806   | 200 |
| 400  | 0020   | 176 | C20  | 0020   | 176 | Caravan                                  | 0045   | 177 |
| 400  | 1184   | 212 | C20 V8 5.0L 305cid                                   | 1189   | 212 | Cavalier 2.4                             | 0756   | 197 |
| 4006MT   | 0118   | 179 | C20 Suburban V8 5.0L 305cid                          | 1189   | 212 | Cavalier 4 cil                           | 0783   | 199 |
| 6500 Kodiak GM 7.0L(427) V8 Gasolina   | 0774   | 198 | C2500 V6 4.3L 262cid                                 | 1189   | 212 | Celebrity                                | 0653   | 194 |
| 7000 FWD Control 6 Cil.  | 1827   | 229 | C4500 Kodiak V8 8.1L 496cid                          | 0774   | 198 | Celta 1.0i                               | 0837   | 201 |
| 8000MT   | 0118   | 179 | C5500 Kodiak V8 8.1L 496cid                          | 0774   | 198 | Celta 1.0                                | 0843   | 201 |
| 8500 FWD Control 6 Cil.  | 1827   | 229 | C5500 Kodiak GM 6.0L(366) V8 Gasolina                | 0774   | 198 | Celta 1.0                                | 1064   | 209 |
| Acadia V6 3.6L 217cid  | 0806   | 200 | C5500 Kodiak GM 7.0L(427) V8 Gasolina                | 0774   | 198 | Celta 1.0                                | 1745   | 225 |
| Acadia V6 3.6L 3564cc 217cid   | 0806   | 200 | C5500 Kodiak GM 7.4L(454) V8 Gasolina                | 0774   | 198 | Celta                                    | 10003  | 232 |
| Agile 1.4  | 1745   | 225 | C5500 Kodiak GM 7.4L(454) V8 Gasolina                | 0774   | 198 | Celta                                    | 12720  | 240 |
| Ascona   | 0243   | 182 | C5500 Kodiak GM 8.1L(496) V8 Gasolina                | 0774   | 198 | Chevette 1.4 gasolina                    | 0080   | 178 |
| Astra 1.8i   | 0745   | 197 | C60 GM 6.0L(366) V8 Gasolina                         | 0774   | 198 | Chevette 1.4 e 1.6                       | 0108   | 179 |
| Astra 2.0i 16v   | 0745   | 197 | C60 GM 7.0L(427) V8 Gasolina                         | 0774   | 198 | Chevette Junior álcool e gasolina        | 0108   | 179 |
| Astra 1.8  | 0770   | 198 | C60 GM 7.4L(454) V8 Gasolina                         | 0774   | 198 | Chevrolet 8 cilindros                    | 0676   | 195 |
| Astra 1.8 / 2.0 / 2.0 16V  | 1209   | 214 | C60 GM 7.4L(454) V8 Gasolina                         | 0774   | 198 | Chevrolet V6 Citation                    | 0653   | 194 |
| Astra 1.8 e 2.0  | 10003  | 232 | C60 GM 8.1L(496) V8 Gasolina                         | 0774   | 198 | Chevy Diesel                             | 0737   | 196 |
| Astra 1.8i, 2.0i, 2.0 MPFI, 2.0i 16V   | 12683  | 240 | C60 Kodiak V8 6.0L 366cid                            | 0774   | 198 | Chevy 500                                | 0108   | 179 |
| Astra  | 12720  | 240 | C60 Kodiak V8 7.0L 7011cc 427cid                     | 0774   | 198 | Chevy Lux                                | 0141   | 180 |
| Astra 1.8 e 2.0  | 12720  | 240 | C6500 Kodiak V8 6.0L 366cid                          | 0774   | 198 | Chevy Lux                                | 0351   | 185 |
| Astra 2.0 MPFI   | 0745   | 197 | C6500 Kodiak V8 7.0L 7011cc 427cid                   | 0774   | 198 | Classic 1.0                              | 1745   | 225 |
| Astra Sedan 1.8i   | 0745   | 197 | C6500 Kodiak V8 7.4L 454cid                          | 0774   | 198 | Cobalt 1.4 e 1.8                         | 1745   | 225 |
| Astra Sedan 2.0i   | 0745   | 197 | C6500 Kodiak V8 8.1L 496cid                          | 0774   | 198 | Cobalt                                   | 10003  | 232 |
| Astra Sedan 2.0i 16v   | 0745   | 197 | C70 GM 6.0L(366) V8 Gasolina                         | 0774   | 198 | Corsa 1.0, 1.4                           | 0482   | 188 |
| Astra Sedan 1.8i, 2.0i, 2.0 MPFI, 2.0i 16V                                       | 12683  | 240 | C70 GM 7.0L(427) V8 Gasolina                         | 0774   | 198 | Corsa 1.0 e 1.4                          | 0747   | 197 |
| Avalanche 5.3L(325) V8   | 10003  | 232 | C70 GM 7.4L(454) V8 Gasolina                         | 0774   | 198 | Corsa 1.0, 1.4, 1.6 EFI.                 | 0837   | 201 |
| Avalanche 5.3L(325) V8   | 12720  | 240 | C70 GM 8.1L(496) V8 Gasolina                         | 0774   | 198 | Corsa                                    | 0843   | 201 |
| B7 V8 7.0L 7011cc 427cid   | 0774   | 198 | C70 Kodiak V8 6.0L 366cid                            | 0774   | 198 | Corsa                                    | 0945   | 205 |
| Blazer   | 0292   | 183 | C70 Kodiak V8 7.0L 7011cc 427cid                     | 0774   | 198 | Corsa                                    | 1209   | 214 |
| Blazer 4.3 V6  | 0756   | 197 | C75  | 0045   | 177 | Corsa                                    | 1557   | 218 |
| Blazer V6  | 0770   | 198 | C7500 Kodiak 8 Cil 7.0L 7011cc 427cid                | 0774   | 198 | Corsa 1.8                                | 10003  | 232 |
| Blazer 2.5 Diesel  | 0861   | 202 | C7500 Kodiak V8 6.0L 366cid GM 6.0L(366) V8 Gasolina | 0774   | 198 | Corsa 1.8                                | 12720  | 240 |
| Blazer   | 0916   | 204 | C7500 Kodiak V8 7.0L 7011cc 427cid                   | 0774   | 198 | Cruze 1.8                                | 1745   | 225 |
| Blazer 4.3 V6  | 0958   | 205 | C7500 Kodiak V8 7.4L 454cid                          | 0774   | 198 | D20                                      | 0024   | 176 |
| Blazer Diesel  | 1168   | 212 | C7500 Kodiak V8 8.1L 496cid                          | 0774   | 198 | D20 Maxion                               | 0826   | 201 |
| Blazer Maxion HS 4 cil 2.5   | 1635   | 220 | C7500 Kodiak GM 6.0L(366) V8 Gasolina                | 0774   | 198 | D20                                      | 0978   | 206 |
| Blazer 2.2 e 2.4   | 10003  | 232 | C7C7500 Kodiak V8 6.0L 366cid                        | 0774   | 198 | D40                                      | 0118   | 179 |
| Blazer 2.2 EFI   | 12683  | 240 | C80 GM 6.0L(366) V8 Gasolina                         | 0774   | 198 | D6000 com motor Maxion                   | 0118   | 179 |
| Blazer   | 12720  | 240 | C80 GM 7.0L(427) V8 Gasolina                         | 0774   | 198 | D6000                                    | 0978   | 206 |
| Blazer 2.2 e 2.4   | 12720  | 240 | C80 GM 7.4L(454) V8 Gasolina                         | 0774   | 198 | Envoy 5.3L/5.3L XL (325) V8              | 10003  | 232 |
| Blazer 2.2 EFI   | 0745   | 197 | C80 GM 8.1L(496) V8 Gasolina                         | 0774   | 198 | Envoy 5.3L/5.3L XL (325) V8              | 12720  | 240 |
| Blazer DLX   | 12682  | 240 | Calibra 2.0 / 2.0i / 2.0i 16V                        | 1209   | 214 | Equinox V6 3.0L 182cid                   | 0806   | 200 |
| Blazer V6 USA  | 0610   | 192 | Camaro   | 0522   | 189 | Equinox V6 3.6L 217cid                   | 0806   | 200 |
| Blitz  | 0243   | 182 | Camaro V6 2.8L 173cid                                | 1189   | 212 | Especial/Special com motor Perkins 6 cil | 0024   | 176 |
| Buick  | 0020   | 176 | Camaro V6 3.1L 189cid                                | 1189   | 212 | Especial/Special                         | 0624   | 193 |
| C Séries C1500 6.5   | 1198   | 213 | Caminhão com motor 4.53                              | 0114   | 179 | Express Vans 4.8L(291) V8                | 10003  | 232 |
| C Séries C1500 6.5 Turbo   | 1198   | 213 | Caminhão com motor Perkins                           | 0121   | 239 | Express Vans 5.3L(325) V8                | 10003  | 232 |
| C Séries C1500 6.5 Turbo Suburban  | 1198   | 213 | Caminhão com motor Perkins                           | 0201   | 239 | Express Vans 4.8L(291) V8                | 12720  | 240 |
| C Séries C2500 6.2   | 1198   | 213 | Caminhão Perkins 6 cil                               | 1359   | 215 | Express Vans 5.3L(325) V8                | 12720  | 240 |
| C Séries C2500 6.5   | 1198   | 213 | Caminhão 14190                                       | 0625   | 193 | General Motors 1.8 16V DOCH (Flex)       | 10003  | 232 |
| C Séries C2500 6.5 Turbo   | 1198   | 213 | Caminhão D478  | 0093   | 178 | General Motors 1.8 8V SOCH               | 10003  | 232 |
| C Séries C2500 6.5 Turbo Suburban  | 1198   | 213 |  |        |     | GMC                                      | 0610   | 192 |
| C Séries C3500 6.5 Turbo   | 1198   | 213 |  |        |     | GMC                                      | 0611   | 192 |
|  |        |     |  |        |     | GMC 6100 Maxion 4 Cil.                   | 0978   | 206 |

| General Motors/Chevrolet                | Nº ZEN | Pg. | General Motors/Chevrolet                                | Nº ZEN | Pg. | General Motors/Chevrolet               | Nº ZEN | Pg. |
|---|--------|-----|---|--------|-----|--|--------|-----|
| GMC Sonoma 2.2 Its                      | 0612   | 192 | N108  | 1873   | 231 | S10 2.2 e 2.4                          | 12720  | 240 |
| Grand Blazer 4.1                        | 0915   | 203 | N109  | 1873   | 231 | S10 Blazer V6 2.8L 173cid              | 1189   | 212 |
| Impala Modelo Antigo                    | 0522   | 189 | N200  | 1873   | 231 | S10 Blazer V6 4.3L 262cid              | 1189   | 212 |
| Impala 3.4L(207) V6                     | 10003  | 232 | N300  | 1873   | 231 | S10 Pick Up V6 2.8L 173cid             | 1189   | 212 |
| Impala 3.4L(207) V6                     | 12720  | 240 | N300P   | 1873   | 231 | S10, EFI, MPFI                         | 12683  | 240 |
| Ipanema 1.8                             | 0108   | 179 | Nova  | 0522   | 189 | Safari XT 4.3 V6                       | 0756   | 197 |
| Ipanema 2.0 MPFI                        | 0745   | 197 | Novo Corsa  | 1064   | 209 | Sail                                   | 1848   | 230 |
| Ipanema 2.0 MPFI                        | 12683  | 240 | Novo Prisma LT e LTZ Com Motor 1.0L e 1.4L SPE/4 (SOCH) | 1745   | 225 | Saturno 91                             | 0752   | 197 |
| K10 V8 5.0L 305cid                      | 1189   | 212 | Nubira  | 0770   | 198 | Savana Vans 4.8L (291) V8              | 10003  | 232 |
| K10 Suburban V8 5.0L 305cid             | 1189   | 212 | Omega 2.0   | 0243   | 182 | Savana Vans 5.3L/5.3L XL (325) V8      | 10003  | 232 |
| K1500 V6 4.3L 262cid                    | 1189   | 212 | Omega 3.0, 4.1  | 0482   | 188 | Savana Vans 4.8L (291) V8              | 12720  | 240 |
| K20 V8 5.0L 305cid                      | 1189   | 212 | Omega 2.0i  | 0745   | 197 | Savana Vans 5.3L/5.3L XL (325) V8      | 12720  | 240 |
| K20 Suburban V8 5.0L 305cid             | 1189   | 212 | Omega 2.2i  | 0745   | 197 | Série D - d20 Plus Maxion S4T JF 12V   | 1690   | 223 |
| K2500 V6 4.3L 262cid                    | 1189   | 212 | Omega 3.0i  | 0745   | 197 | Sierra 6.6L Diesel                     | 1608   | 219 |
| K5 Blazer V8 5.0L 305cid                | 1189   | 212 | Omega 2.0i, 2.2i, 3.0i                                  | 12683  | 240 | Sierra Pick Up 4.8L (291) V8           | 10003  | 232 |
| Kadett 1.8                              | 0108   | 179 | Omega Australiano 3.8 V6                                | 0919   | 204 | Sierra Pick Up 5.3L/5.3L XL (325) V8   | 10003  | 232 |
| Kadett                                  | 0243   | 182 | Omega CD 4.1  | 1680   | 222 | Sierra Pick Up 4.8L (291) V8           | 12720  | 240 |
| Kadett 2.0 MPFI                         | 0745   | 197 | Omega Suprema 2.2, 3.0                                  | 0482   | 188 | Sierra Pick Up 5.3L/5.3L XL (325) V8   | 12720  | 240 |
| Kadett 2.0 MPFI                         | 12683  | 240 | Omega Suprema 2.0i, 2.2i, 3.0i                          | 12683  | 240 | Silverado gasolina                     | 0020   | 176 |
| Kodiak                                  | 1608   | 219 | Onix Com Motor 1.0 e 1.4 SPE/4 (SOCH)                   | 1745   | 225 | Silverado                              | 0454   | 188 |
| Kodiak C8500 GM 6.0L(366) V8 Gasolina   | 0774   | 198 | Opala 4 e 6 cil   | 0020   | 176 | Silverado 4.1                          | 0482   | 188 |
| Kodiak C8500 GM 7.0L(427) V8 Gasolina   | 0774   | 198 | Opala   | 0045   | 177 | Silverado 6.0 - 8.1                    | 0756   | 197 |
| Kodiak C8500 GM 7.4L(454) V8 Gasolina   | 0774   | 198 | Opala   | 0046   | 177 | Silverado 6 cil a gasolina 12V         | 0915   | 203 |
| Kodiak C8500 GM 8.1L(496) V8 Gasolina   | 0774   | 198 | Pick Up Perkins 4 cil                                   | 0024   | 176 | Silverado Maxion S4 Diesel             | 0978   | 206 |
| Lanos                                   | 0770   | 198 | Pick Up Modelo Antigo                                   | 0522   | 189 | Silverado MWM Diesel                   | 0991   | 206 |
| Lumina V6 3.1 Its e 4.0 Its             | 0783   | 199 | Pick Up Perkins 4 cil Diesel                            | 1359   | 215 | Silverado MWM                          | 1022   | 208 |
| Lumina (Sedan) 3.1L(189) V6             | 10003  | 232 | Pick Up 400   | 0161   | 180 | Silverado                              | 1608   | 219 |
| Lumina(Sedan) 3.1L(189) V6              | 12720  | 240 | Pick Up Apache  | 0013   | 176 | Silverado com Motor MWM                | 12682  | 240 |
| Malibu                                  | 0522   | 189 | Pick Up C10   | 0010   | 176 | Silverado Pick Up 4.8L(291) V8         | 10003  | 232 |
| Malibu 2.4                              | 0756   | 197 | Pick Up C10   | 0045   | 177 | Silverado Pick Up 5.3L(325) V8         | 10003  | 232 |
| Malibu V6 3.6L 217cid                   | 0806   | 200 | Pick Up C10   | 0161   | 180 | Silverado Pick Up 4.8L(291) V8         | 12720  | 240 |
| Malibu V6 3.6L 3564cc 217cid            | 0806   | 200 | Pick Up C10   | 0161   | 180 | Silverado Pick Up 5.3L(325) V8         | 12720  | 240 |
| Malibu 3.1L(189) V6                     | 10003  | 232 | Pick Up C14   | 0010   | 176 | Spark                                  | 1048   | 209 |
| Malibu 3.1L(189) V6                     | 12720  | 240 | Pick Up C15   | 0010   | 176 | Spectrum L4 1.5L 1471cc 92cid          | 0498   | 189 |
| Manta                                   | 0243   | 182 | Pick Up C15   | 0045   | 177 | Spectrum L4 1.5L 1471cc 92cid w/Turbo  | 0498   | 189 |
| Marajó 1.4 álcool e gasolina            | 0080   | 178 | Pick Up D20 com motor Maxion                            | 0118   | 179 | Spectrum L4 1.5L 1471cc 92cid wo/Turbo | 0498   | 189 |
| Marajó 1.4 e 1.6                        | 0108   | 179 | Pick Up D20   | 12682  | 240 | Spin 1.8                               | 1745   | 225 |
| Meriva 1.8                              | 10003  | 232 | Pick Up S10 Importada 2.2 modelo LS /com motor 4cil     | 0612   | 192 | SSR Sport Truck 5.3L (325) V8          | 10003  | 232 |
| Meriva 1.8                              | 12720  | 240 | Pick Up S10 com Motor Maxion HS                         | 12682  | 240 | SSR Sport Truck 5.3L (325) V8          | 12720  | 240 |
| Minivan 3.4 Its                         | 0783   | 199 | Pick Up Silverado Sierra Importado DIE                  | 1194   | 213 | Suburban 5.7 - 7.4 - 8.1               | 0756   | 197 |
| Montana 1.4                             | 1745   | 225 | Pick Up Sonoma 2.2 Its. Importada                       | 0612   | 192 | Suburban 5.3L(325) V8                  | 10003  | 232 |
| Montana                                 | 10003  | 232 | Prisma  | 10003  | 232 | Suburban 5.3L(325) V8                  | 12720  | 240 |
| Montana                                 | 12720  | 240 | Prisma  | 12720  | 240 | Suprema 2.0, 2.0i, 3.0i.               | 0745   | 197 |
| Monte Carlo                             | 0522   | 189 | S10 Importada   | 0351   | 185 | Suprema 2.0 / 2.2 / 3.0                | 1209   | 214 |
| Monte Carlo V6 3.1 Its                  | 0783   | 199 | S10 2.5 Diesel Maxion                                   | 0657   | 194 | T5500 GM 6.0L(366) V8 Gasolina         | 0774   | 198 |
| Monte Carlo 3.4L(207) V6                | 10003  | 232 | S10 2.2 Gasolina  | 0745   | 197 | T6500 V8 6.0L 366cid                   | 0774   | 198 |
| Monte Carlo 3.4L(207) V6                | 12720  | 240 | S10 4.3 V6  | 0756   | 197 | T7500 V8 6.0L 366cid                   | 0774   | 198 |
| Monza                                   | 0108   | 179 | S10   | 0770   | 198 | Tahoe 4.8L(291) V8                     | 10003  | 232 |
| Motor                                   | 0611   | 192 | S10 Diesel  | 0861   | 202 | Tahoe 5.3L(325) V8                     | 10003  | 232 |
| Motor 1.8 8V SOCH e 1.8 16V DOCH (Flex) | 12720  | 240 | S10 Maxion HSD  | 0916   | 204 | Tahoe 4.8L(291) V8                     | 12720  | 240 |
| Motor para Empilhadeira Hyster          | 0610   | 192 | S10 MWM Diesel  | 1063   | 209 | Terrain V6 3.0L 182cid                 | 0806   | 200 |
| Motor para Empilhadeira Hyster XM50     | 0612   | 192 | S10 Maxion HS 4 cil 2.5                                 | 1635   | 220 | Topkick Trucks 6.6L Diesel             | 1608   | 219 |
| MPV V6 3.4 Its                          | 0783   | 199 | S10 2.8 Diesel  | 1776   | 227 | Tracker                                | 0595   | 192 |
| N107                                    | 1873   | 231 | S10 2.2 e 2.4   | 10003  | 232 | Trailblazer 5.3L(325) V8               | 10003  | 232 |
|   |        |     | S10   | 12720  | 240 | Trailblazer 5.3L(325) V8               | 12720  | 240 |



| General Motors/Chevrolet                                 | Nº ZEN        | Pg.        | GMC                                    | Nº ZEN        | Pg.        | Harley Davidson                       | Nº ZEN        | Pg.        |
|--|---------------|------------|--|---------------|------------|---------------------------------------|---------------|------------|
| Traverse V6 3.6L 217cid                                  | 0806          | 200        | C7000 GM 7.0L(427) V8 Gasolina         | 0774          | 198        | Electra Glide Classic - FLHTC         | 0898          | 203        |
| Truck  | 0625          | 193        | C7000 GM 8.1L(496) V8 Gasolina         | 0774          | 198        | Electra Glide Special - FLHX          | 0898          | 203        |
| Truck 350  | 0522          | 189        | C7000 Topkick V8 7.0L 7011cc 427cid    | 0774          | 198        | Electra Glide Sport - FLHS            | 0898          | 203        |
| Truck Big 10 Modelo Antigo                               | 0522          | 189        | C7500 Topkick V8 6.0L 366cid           | 0774          | 198        | Electra Glide Super Sport - FLHFB     | 0898          | 203        |
| Truck C60/C70  | 0522          | 189        | C7500 Topkick V8 7.0L 7011cc 427cid    | 0774          | 198        | Fat Bob - FXEF                        | 0898          | 203        |
| Vectra 2.0   | 0243          | 182        | C7500 Topkick V8 7.4L 454cid           | 0774          | 198        | Fat Bob - FXEF 1200                   | 0898          | 203        |
| Vectra 2.0 16v   | 0745          | 197        | C7500 Topkick V8 8.1L 496cid           | 0774          | 198        | Fat Bob - FXEF-80                     | 0898          | 203        |
| Vectra 2.0 GSi MPFI / 2.0 GLS MPFI                       | 1209          | 214        | C7500 Topkick GM 6.0L(366) V8 Gasolina | 0774          | 198        | Glide Heritage - FLH                  | 0898          | 203        |
| Vectra 2.2   | 10003         | 232        | C80 GM 6.0L(366) V8 Gasolina           | 0774          | 198        | Harley Davidson FL                    | 0898          | 203        |
| Vectra 2.2   | 12720         | 240        | C80 GM 7.0L(427) V8 Gasolina           | 0774          | 198        | Harley Davidson FLH                   | 0898          | 203        |
| Vectra CD  | 0770          | 198        | C80 GM 7.4L(454) V8 Gasolina           | 0774          | 198        | Harley Davidson FS                    | 0898          | 203        |
| Vectra GLS 2.0   | 0745          | 197        | C80 GM 8.1L(496) V8 Gasolina           | 0774          | 198        | Heritage Softail - FLST               | 0898          | 203        |
| Vectra GSI 2.0i 16v                                      | 0745          | 197        | Jimmy V8 5.0L 305cid                   | 1189          | 212        | Heritage Softail Classic - FLSTC      | 0898          | 203        |
| Vectra II (SOHC) 1.8/2.0/2.2 - 8V                        | 12720         | 240        | K1500 V6 4.3L 262cid                   | 1189          | 212        | Low Glide - FXRS                      | 0898          | 203        |
| Venture 3.4L(207) V6                                     | 10003         | 232        | K1500 V8 5.0L 305cid                   | 1189          | 212        | Low Glide Custom - FXRC               | 0898          | 203        |
| Venture 3.4L(207) V6                                     | 12720         | 240        | K1500 Suburban V8 5.0L 305cid          | 1189          | 212        | Moto                                  | 1566          | 218        |
| Yukon 4.8L (291) V8                                      | 10003         | 232        | K2500 V6 4.3L 262cid                   | 1189          | 212        | MY91 - 06 BT except MY06 Dyna         | 1201          | 213        |
| Yukon 5.3L/5.3L XL (325) V8                              | 10003         | 232        | S15 Jimmy V6 2.8L 173cid               | 1189          | 212        | MY91 - 06 BT except MY06 Dyna         | 1566          | 218        |
| Yukon 4.8L (291) V8                                      | 12720         | 240        | S15 Jimmy V6 4.3L 262cid               | 1189          | 212        |                                       |               |            |
| Yukon 5.3L/5.3L XL (325) V8                              | 12720         | 240        | S15 Pick Up 6 Cil 2.8L 173cid          | 1189          | 212        | <b>Harvester</b>                      | <b>Nº ZEN</b> | <b>Pg.</b> |
| Zafira 2.0 MPFI  | 0745          | 197        | S15 Pick Up 6 Cil 4.3L 262cid          | 1189          | 212        | D 430                                 | 0224          | 182        |
| Zafira 2.0 SFI 16v                                       | 0745          | 197        | Sonoma V6 2.8L 173cid                  | 1189          | 212        | D 432                                 | 0224          | 182        |
| Zafira   | 0770          | 198        | T5500 GM 6.0L(366) V8 Gasolina         | 0774          | 198        | D 439                                 | 0224          | 182        |
| Zafira 2.0   | 10003         | 232        | T6500 V8 6.0L 366cid                   | 0774          | 198        | <b>Hatz</b>                           | <b>Nº ZEN</b> | <b>Pg.</b> |
| Zafira 2.0 MPFI  | 12683         | 240        | T7500 V8 6.0L 366cid                   | 0774          | 198        | 1D60                                  | 0931          | 204        |
| Zafira 2.0   | 12720         | 240        | Topkick C8500 GM 6.0L(366) V8 Gasolina | 0774          | 198        | 1D80                                  | 0931          | 204        |
|  |               |            | Topkick C8500 GM 7.0L(427) V8 Gasolina | 0774          | 198        | E 80 FG - E 80 G - E 85 FG - E 89     | 0638          | 193        |
| <b>Geo</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | Topkick C8500 GM 7.4L(454) V8 Gasolina | 0774          | 198        | Motor                                 | 1451          | 215        |
| Spectrum L4 1.5L 1471cc 92cid wo/Turbo                   | 0498          | 189        | Topkick C8500 GM 8.1L(496) V8 Gasolina | 0774          | 198        | <b>Hillman</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> |
|  |               |            | <b>Goldoni</b>                         | <b>Nº ZEN</b> | <b>Pg.</b> | Avenger                               | 0170          | 233        |
| <b>GMC</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | Transcar 23                            | 1065          | 209        | Avenger                               | 0171          | 233        |
| B7 V8 6.0L 366cid  | 0774          | 198        | <b>Gradall</b>                         | <b>Nº ZEN</b> | <b>Pg.</b> | Hunter                                | 0170          | 233        |
| B7 V8 7.0L 7011cc 427cid                                 | 0774          | 198        | Motor MWM                              | 12684         | 240        | Hunter                                | 0171          | 233        |
| C1500 V6 4.3L 262cid                                     | 1189          | 212        | <b>Gurgel</b>                          | <b>Nº ZEN</b> | <b>Pg.</b> | <b>Hino</b>                           | <b>Nº ZEN</b> | <b>Pg.</b> |
| C1500 V8 5.0L 305cid                                     | 1189          | 212        | BR 800                                 | 0323          | 184        | Caminhões FB/FF basculante            | 1098          | 210        |
| C1500 Suburban V8 5.0L 305cid                            | 1189          | 212        | Carajas com motor VW AP 1.8            | 0108          | 179        | IW                                    | 1827          | 229        |
| C2500 V6 4.3L 262cid                                     | 1189          | 212        | Tocantins L                            | 0323          | 184        | W04D                                  | 1827          | 229        |
| C2500 V8 5.0L 305cid                                     | 1189          | 212        | TR 1.6                                 | 0323          | 184        | <b>Hitachi</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> |
| C2500 Suburban V8 5.0L 305cid                            | 1189          | 212        | <b>Hanomag</b>                         | <b>Nº ZEN</b> | <b>Pg.</b> | Escavadeira EX100M-2 Isuzu 4BD1       | 0850          | 201        |
| C4500 Topkick V8 8.1L 496cid                             | 0774          | 198        | 20                                     | 0419          | 186        | Escavadeira EX100-2 Isuzu 4BD1        | 0850          | 201        |
| C5500 Topkick 8 Cil 8.1L 496cid GM 8.1L(496) V8 Gasolina | 0774          | 198        | 22C                                    | 0419          | 186        | Maxima                                | 1016          | 207        |
| C5500 Topkick V8 8.1L 496cid                             | 0774          | 198        | 30                                     | 0419          | 186        | Motores Estacionários                 | 1725          | 225        |
| C5500 Topkick GM 7.0L(427) V8 Gasolina                   | 0774          | 198        | 33C                                    | 0419          | 186        | Osgr 2.2KW 12v                        | 1608          | 219        |
| C5500 Topkick GM 7.4L(454) V8 Gasolina                   | 0774          | 198        | 400D                                   | 0419          | 186        | S108 116, S108 61 A, B, C, D, E, F, G | 0536          | 190        |
| C5500 Topkick GM 8.1L(496) V8 Gasolina                   | 0774          | 198        | <b>Harley Davidson</b>                 | <b>Nº ZEN</b> | <b>Pg.</b> | Tsuru Altima                          | 1016          | 207        |
| C5C5500 Topkick GM 6.0L(366) V8 Gasolina                 | 0774          | 198        | Disc Glide - FXDG                      | 0898          | 203        | <b>Honda</b>                          | <b>Nº ZEN</b> | <b>Pg.</b> |
| C6000 GM 6.0L(366) V8 Gasolina                           | 0774          | 198        | Disc Glide - FXRDG                     | 0898          | 203        | Accord 1.6                            | 0327          | 184        |
| C6000 GM 7.0L(427) V8 Gasolina                           | 0774          | 198        | Electra Glide - FLH                    | 0898          | 203        | Accord 1.8 - 2.0                      | 0815          | 200        |
| C6000 GM 7.4L(454) V8 Gasolina                           | 0774          | 198        | Electra Glide - FLH 1200               | 0898          | 203        | Accord                                | 0818          | 200        |
| C6000 GM 8.1L(496) V8 Gasolina                           | 0774          | 198        | Electra Glide - FLH-80                 | 0898          | 203        | Accord                                | 9350          | 234        |
| C6000 Topkick V8 7.0L 7011cc 427cid                      | 0774          | 198        | Electra Glide - FLHS                   | 0898          | 203        | Accord 1600, 1599cc                   | 0349          | 185        |
| C6500 Topkick V8 7.0L 7011cc 427cid                      | 0774          | 198        | Electra Glide - FLHT                   | 0898          | 203        | Accord L4 2.4L 2354cc                 | 1849          | 230        |
| C6500 Topkick V8 8.1L 496cid                             | 0774          | 198        | Electra Glide Classic - FLHC           | 0898          | 203        | Accord L4 2.4L 2354cc 144cid          | 1849          | 230        |
| C6500 Topkick GM 7.0L(427) V8 Gasolina                   | 0774          | 198        |  |               |            | Aerodeck                              | 0815          | 200        |
|  |               |            |  |               |            | Amaze                                 | 1887          | 232        |
|  |               |            |  |               |            | Ballade 1500                          | 0353          | 185        |
|  |               |            |  |               |            | City                                  | 1759          | 226        |
|  |               |            |  |               |            | Civic                                 | 0809          | 200        |

| Honda                                       | Nº ZEN        | Pg.        | Hyster                                  | Nº ZEN        | Pg.        | Hyundai                                 | Nº ZEN        | Pg.        |
|---|---------------|------------|---|---------------|------------|---|---------------|------------|
| Civic                                       | 0818          | 200        | Empilhadeira                            | 1846          | 230        | Tucson L4 2.0L 1975cc VIN B             | 1770          | 227        |
| Civic 1.7L                                  | 1548          | 217        | Empilhadeira H50xm                      | 0958          | 205        | Tucson L4 2.4L 2359cc VIN C             | 1770          | 227        |
| Civic                                       | 1734          | 225        | Empilhadeira H55XM GM 2.2               | 0783          | 199        | Veracruz                                | 1800          | 228        |
| Civic L4 2.0L 1998cc 122cid                 | 1849          | 230        | Empilhadeira Hyster                     | 0610          | 192        | <b>Hyundai Truck</b>                    | <b>Nº ZEN</b> | <b>Pg.</b> |
| Civic 1.3 - 1.4 - 1.5 - 1.6                 | 9186          | 234        | Empilhadeira Hyster XM50                | 0612          | 192        | Magentis V6 2.7L 2656cc                 | 1771          | 227        |
| Civic                                       | 9350          | 234        | Guindaste KF                            | 0056          | 177        | Optima V6 2.7L 2656cc                   | 1771          | 227        |
| Civic 1300 16V                              | 0353          | 185        | H-150-275H Perkins 6-354                | 0649          | 194        | Rondo V6 2.7L 2656cc                    | 1771          | 227        |
| Civic 1300, 1343cc D13B1                    | 0353          | 185        | H350A Perkins 6-354                     | 0649          | 194        | Santa Fé V6 2.7L 2656cc                 | 1771          | 227        |
| Civic 1200                                  | 0349          | 185        | H80 XM                                  | 0756          | 197        | Tucson L4 2.0L 1975cc                   | 1775          | 227        |
| Civic 1250                                  | 0349          | 185        | Lift TK 4.3L                            | 1473          | 215        | <b>Infiniti</b>                         | <b>Nº ZEN</b> | <b>Pg.</b> |
| Civic 1300 12V, 1335cc EW2/3                | 0353          | 185        | XL 80                                   | 1473          | 215        | I30 3.0                                 | 1017          | 207        |
| Civic 1300 L4 1.3 Gas.                      | 0832          | 201        | <b>Hyundai</b>                          | <b>Nº ZEN</b> | <b>Pg.</b> | QX4 V6 3.3L 3275cc                      | 0712          | 196        |
| Civic 1300 STD L4 1.3 Gas.                  | 0832          | 201        | Accent GLS                              | 0450          | 187        | <b>Innocenti</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> |
| Civic 1400                                  | 0353          | 185        | Azera                                   | 1800          | 228        | Mini                                    | 0170          | 233        |
| Civic 1500 D15B2                            | 0353          | 185        | Elantra                                 | 0595          | 192        | Mini                                    | 0171          | 233        |
| Civic 1500 D15Z                             | 0353          | 185        | Elantra L4 2.0L 1975cc                  | 1775          | 227        | MINI 3 Cil                              | 0765          | 198        |
| Civic DX L4 1.3 Gas.                        | 0832          | 201        | Entourage GLS Mini Passenger Van 4-Door | 1800          | 228        | Regent                                  | 0170          | 233        |
| Civic L4 1.3L 1342cc 82cid                  | 0353          | 185        | Excel                                   | 0450          | 187        | Regent                                  | 0171          | 233        |
| Civic L4 1.5L 1487cc                        | 0353          | 185        | Genesis Coupe                           | 1800          | 228        | <b>Inter</b>                            | <b>Nº ZEN</b> | <b>Pg.</b> |
| Civic L4 1.5L 1491cc 91cid                  | 0353          | 185        | Genesis Sedan 4-Door 3.8                | 1800          | 228        | Especial/Special                        | 0677          | 195        |
| Civic L4 1.5L 1493cc                        | 0353          | 185        | H 100                                   | 1577          | 218        | <b>International</b>                    | <b>Nº ZEN</b> | <b>Pg.</b> |
| Civic L4 1.6L 1590cc 97cid                  | 0353          | 185        | H-1 2.5 TD - 2.5 TD 4WD                 | 1607          | 219        | Caminhões Paystar com motor Cummins     | 13117         | 237        |
| Concerto 1.3 - 1.4 - 1.5 (16v)              | 9186          | 234        | H100                                    | 1607          | 219        | Caminhões Prostar com motor Cummins     | 13117         | 237        |
| CRV   | 1734          | 225        | H100 2.5 Diesel                         | 1794          | 228        | Caminhões Transtar com motor Cummins    | 13117         | 237        |
| CRX 1300 L4 1.3 Gas.                        | 0832          | 201        | HB20 1.6                                | 1777          | 227        | Jacto Perkins 1006/ T                   | 1622          | 220        |
| CRX 1500 HF L4 1.5 Gas.                     | 0832          | 201        | HB20 1.0                                | 1778          | 227        | Matra Maxion HS 4 cil 2.5               | 1635          | 220        |
| CRX 1500 L4 1.5 Gas.                        | 0832          | 201        | HR                                      | 1024          | 208        | Maxion S4                               | 1622          | 220        |
| CRX 1500 SI L4 1.5 Gas.                     | 0832          | 201        | HR                                      | 1607          | 219        | Motor MWM                               | 12684         | 240        |
| CRX DX L4 1.5 Gas.                          | 0832          | 201        | HR 2.5 Diesel                           | 1794          | 228        | Navistar DT360 5.9                      | 1648          | 221        |
| CRX HF L4 1.5 Gas.                          | 0832          | 201        | I10 1.1                                 | 1509          | 216        | Navistar DT446 - I6 7.6                 | 1648          | 221        |
| CRX L4 1.5L 1493cc                          | 0353          | 185        | I20 1.4                                 | 1706          | 224        | Navistar DT 444E V8 7.3                 | 1595          | 219        |
| Element L4 2.4L 2354cc                      | 1849          | 230        | i30                                     | 0595          | 192        | Perkins 1006/ T                         | 1622          | 220        |
| Fit   | 1759          | 226        | I30 1.4/1.6                             | 1706          | 224        | Retroescavadeira Maxion S 4             | 1622          | 220        |
| Fit (Jazz)                                  | 12913         | 236        | I30 2.0                                 | 1775          | 227        | Retroescavadeira Maxion HS 4 cil 2.5    | 1635          | 220        |
| Motor de Popa                               | 0708          | 196        | IX20 1.4/1.6                            | 1706          | 224        | <b>Ishikawjima</b>                      | <b>Nº ZEN</b> | <b>Pg.</b> |
| Motores de Popa de 40 a 200 HP              | 1687          | 223        | IX35 1.4/1.6                            | 1706          | 224        | Especial/Special                        | 9426          | 234        |
| Nippondenso Starter                         | 9504          | 235        | IX35                                    | 1770          | 227        | <b>Isuzu</b>                            | <b>Nº ZEN</b> | <b>Pg.</b> |
| Odyssey 2.3L NonTurbo Gas (F23Z4)           | 1849          | 230        | Migthy                                  | 12656         | 236        | Ascender 5.3L (325) V8                  | 10003         | 232        |
| Odyssey 2.4L NonTurbo Gas (K24A6)           | 1849          | 230        | Migthy Truck 2.5 ton.                   | 1577          | 218        | Ascender 5.3L (325) V8                  | 12720         | 240        |
| Prelude 2.0                                 | 0815          | 200        | Pony                                    | 0134          | 179        | C190M                                   | 0684          | 195        |
| Prelude                                     | 9350          | 234        | Pony                                    | 0450          | 187        | Campo 2.5 Diesel                        | 1861          | 231        |
| Shuttle 1.5 - 1.6                           | 9186          | 234        | Pony                                    | 0595          | 192        | Cherry                                  | 0382          | 185        |
| Wagovan L4 1.5L 1487cc                      | 0353          | 185        | Porter 2.5 TD                           | 1607          | 219        | Datsun                                  | 0351          | 185        |
| <b>Hummer</b>                               | <b>Nº ZEN</b> | <b>Pg.</b> | Porter                                  | 1794          | 228        | Engines Industrial Misc. Equipment 3AE1 | 0785          | 199        |
| H1  | 0767          | 198        | Santa Fé                                | 0595          | 192        | Especial/Special                        | 0448          | 187        |
| <b>Hyster</b>                               | <b>Nº ZEN</b> | <b>Pg.</b> | Santa Fé                                | 1800          | 228        | Especial/Special                        | 0663          | 194        |
| Empilhadeira com motor Perkins 4203         | 0186          | 181        | Santa Fé L4 2.0L 1998cc 122cid          | 1770          | 227        | Especial/Special Diesel                 | 0737          | 196        |
| Empilhadeira com motor Perkins 4236         | 0186          | 181        | Sonata 2.4 e 3.0                        | 0450          | 187        | Especial/Special                        | 0917          | 204        |
| Empilhadeira com motor Perkins GM2500 4C    | 0186          | 181        | Sonata 2.4, 3.0                         | 0595          | 192        | Especial/Special                        | 1200          | 213        |
| Empilhadeira com motor Perkins GM4100 6 cil | 0186          | 181        | Sonata GLS Sedan 4-Door                 | 1800          | 228        | Especial/Special                        | 1509          | 216        |
| Empilhadeira com motor 60XM                 | 0450          | 187        | Sonata L4 2.0L 1998cc 122cid VIN B      | 1770          | 227        | I Mark L4 1.8L 1817cc gasolina Eng      | 0349          | 185        |
| Empilhadeira com motor H45                  | 0450          | 187        | Starex                                  | 1794          | 228        | I-Mark L4 1.5L 1471cc                   | 0498          | 189        |
| Empilhadeira                                | 0595          | 192        | Stellar                                 | 0450          | 187        | I-Mark L4 1.5L 1471cc w/Turbo           | 0498          | 189        |
| Empilhadeira                                | 1195          | 213        | Stellar                                 | 0595          | 192        | I-Mark L4 1.5L 1471cc wo/Turbo          | 0498          | 189        |
| Empilhadeira                                | 1196          | 213        | Tiburon L4 2.0L 1975cc                  | 1775          | 227        |   |               |            |
| Empilhadeira Cummins                        | 1205          | 213        | Tucson                                  | 0595          | 192        |   |               |            |
|   |               |            | Tucson                                  | 1847          | 230        |   |               |            |

| Isuzu  | Nº ZEN        | Pg.        | JCB                                       | Nº ZEN        | Pg.        | John Deere                          | Nº ZEN | Pg. |
|--|---------------|------------|---|---------------|------------|-------------------------------------|--------|-----|
| Industrial                                   | 1861          | 231        | Fastrac 8280 Sisu 6 Cil Tier 4 279 HP 8.4 | 1698          | 223        | 2140 6359 / 4239D                   | 1647   | 221 |
| KB10 Thermo King estacionário diesel         | 0376          | 185        | Fastrac 8310 Sisu 6 Cil Tier 4 306 HP 8.4 | 1698          | 223        | 2150                                | 0497   | 189 |
| KB20   | 0141          | 180        | JCB Fastrac (636) 125                     | 1616          | 220        | 2240                                | 0497   | 189 |
| KBD 20 Diesel                                | 0376          | 185        | JCB Fastrac (636) 135                     | 1616          | 220        | 2330 3 e 4 cil                      | 1647   | 221 |
| KBD 25 2.0 Diesel                            | 0376          | 185        | JCB Fastrac (636) 155                     | 1616          | 220        | 2350                                | 0497   | 189 |
| KBD 27, 41, 47                               | 0946          | 205        | JCB Fastrac (636) 187                     | 1616          | 220        | 2420 3 e 4 cil                      | 1647   | 221 |
| KBD 30 diesel                                | 0376          | 185        | <b>Jeep</b>                               | <b>Nº ZEN</b> | <b>Pg.</b> | 2530 3 e 4 cil                      | 1647   | 221 |
| Marinha                                      | 1861          | 231        | Cherokee                                  | 0573          | 191        | 2550                                | 0497   | 189 |
| Misc. Industrial Equipment 2AB1              | 0684          | 195        | Cherokee                                  | 0783          | 199        | 2730 3 e 4 cil                      | 1647   | 221 |
| Misc. Industrial Equipment 3AB1              | 0684          | 195        | Cherokee                                  | 0905          | 203        | 2750                                | 0497   | 189 |
| Misc. Industrial Equipment C-190             | 0684          | 195        | Cherokee V6 2.8L 173cid                   | 1189          | 212        | 2850 6359 / 4239D                   | 1647   | 221 |
| Nippondenso Starter                          | 9504          | 235        | Cherokee 2.4 L4                           | 1538          | 217        | 2940                                | 0497   | 189 |
| NKR  | 1858          | 231        | Cherokee 3.7 V6                           | 1538          | 217        | 2950                                | 0497   | 189 |
| NKR66  | 1865          | 231        | Comanche V6 2.8L 173cid                   | 1189          | 212        | 3140 6359 / 4239D                   | 1647   | 221 |
| NPR  | 1858          | 231        | Eagle 1.6, 1.8, 2.0 T                     | 0595          | 192        | 316 Motor B43E                      | 0943   | 205 |
| Pick Up L4 1.8L 1817cc                       | 0349          | 185        | Grand Cherokee                            | 0573          | 191        | 318 Motor B43E                      | 0943   | 205 |
| Rodeo V6 3.1L 3137cc                         | 1189          | 212        | Grand Cherokee                            | 0597          | 192        | 3350 6359 / 4239D                   | 1647   | 221 |
| Trooper Diesel 2.2                           | 0946          | 205        | Jeep Cherokee                             | 0597          | 192        | 3420                                | 1647   | 221 |
| Trooper 2.8 Diesel                           | 1861          | 231        | Jeep Cherokee 4.0                         | 0597          | 192        | 3530                                | 1647   | 221 |
| Trooper 3.2 LS, LTD, RS                      | 1863          | 231        | Jeep Wrangler 4.0, 4.2                    | 0597          | 192        | 3540 6359 / 4239D                   | 1647   | 221 |
| Trooper 3.5                                  | 1863          | 231        | Renegade                                  | 0376          | 185        | 3550 6359 / 4239D                   | 1647   | 221 |
| Vanette                                      | 0382          | 185        | Renegade                                  | 0946          | 205        | 4039DFM 4cil, 239ci, 3.9L           | 9459   | 234 |
| Vehicross 3.5                                | 1863          | 231        | Wagoneer V6 2.8L 173cid                   | 1189          | 212        | 4045DFM50 4cil, 276ci, 4.5L         | 9459   | 234 |
| <b>Iveco</b>                                 | <b>Nº ZEN</b> | <b>Pg.</b> | <b>Jeep Truck</b>                         | <b>Nº ZEN</b> | <b>Pg.</b> | 4045DFM70 4 cil, 276ci, 4.5L        | 9459   | 234 |
| 320-31                                       | 0290          | 182        | Cherokee L6 4.2L 258cid                   | 0135          | 180        | 4045TFM 4cil, 276ci, 4.5L           | 9459   | 234 |
| Daily  | 1815          | 229        | Cherokee L6 4.2L 4228cc 258cid            | 0135          | 180        | 4045TFM75 4cil, 276ci, 4.5L         | 9459   | 234 |
| Daily II 29 - 35 - 40 - 45 2.3, 2.8 e 3.0 D. | 1840          | 230        | Cherokee L6 4.2L 4229cc 258cid            | 0135          | 180        | 420 2 Cil. 0.78L 771cc 47cid - B48G | 0943   | 205 |
| Daily II 50 - 60 - 65 2.3, 2.8 e 3.0 D.      | 1840          | 230        | Cherokee V8 5.9L 360cid                   | 0135          | 180        | 4420                                | 1647   | 221 |
| Daily III 29 - 35 - 40 - 45 - 2.3 e 3.0 D.   | 1840          | 230        | Compass L4 2.4L 2360cc 144cid VIN B       | 1771          | 227        | 4530 6 cil                          | 1647   | 221 |
| Daily III 50 - 60 - 65 2.3 e 3.0 D.          | 1840          | 230        | Patriot L4 2.0L 1998cc 122cid             | 1771          | 227        | 503 4239 John Deere                 | 9459   | 234 |
| <b>Jac</b>                                   | <b>Nº ZEN</b> | <b>Pg.</b> | Patriot L4 2.4L 2360cc 144cid             | 1771          | 227        | 5200                                | 1709   | 224 |
| Caminhão 1035                                | 1818          | 229        | <b>Jinma</b>                              | <b>Nº ZEN</b> | <b>Pg.</b> | 5300                                | 1709   | 224 |
| J3   | 1781          | 227        | Trator 25HP                               | 1733          | 225        | 5303                                | 1709   | 224 |
| J3 Turin                                     | 1781          | 227        | Trator 45HP                               | 1733          | 225        | 5310                                | 1709   | 224 |
| <b>Jacobsen</b>                              | <b>Nº ZEN</b> | <b>Pg.</b> | <b>John Deere</b>                         | <b>Nº ZEN</b> | <b>Pg.</b> | 5320N 3029T 3 cil 2.9               | 1647   | 221 |
| T422D Kubota D950 Diesel                     | 0353          | 185        | 1020                                      | 0497          | 189        | 5400                                | 1709   | 224 |
| <b>Jaguar</b>                                | <b>Nº ZEN</b> | <b>Pg.</b> | 1020U                                     | 0304          | 183        | 5410 4.5 4 CIL                      | 1647   | 221 |
| 420 E Type                                   | 0412          | 186        | 1030                                      | 0497          | 189        | 5410                                | 1709   | 224 |
| Daimler                                      | 0475          | 188        | 1040                                      | 0497          | 189        | 5500                                | 1709   | 224 |
| S-Type 3.0L                                  | 1585          | 218        | 1065                                      | 0497          | 189        | 5510                                | 1709   | 224 |
| Sovereign 2.9 - 3.6                          | 0475          | 188        | 1075                                      | 0497          | 189        | 5520N 4045T 4 cil 4.5               | 1647   | 221 |
| XJ6  | 0412          | 186        | 1085                                      | 0497          | 189        | 5600                                | 1090   | 210 |
| <b>JCB</b>                                   | <b>Nº ZEN</b> | <b>Pg.</b> | 1120                                      | 0497          | 189        | 5600 4039 D 3.9                     | 1647   | 221 |
| 420 / 430                                    | 1616          | 220        | 1130                                      | 0497          | 189        | 5649                                | 1647   | 221 |
| 4CX Turbocharged/Intercooled                 | 1616          | 220        | 1140                                      | 0497          | 189        | 5700 4039T 4 cil 3.9                | 1647   | 221 |
| 807C   | 1616          | 220        | 1420 3 e 4 cil                            | 1647          | 221        | 570B 6059D John Deere Dsl           | 0813   | 200 |
| 811  | 1616          | 220        | 1530                                      | 0497          | 189        | 6059 Diesel                         | 0813   | 200 |
| 812  | 1616          | 220        | 1550/608 1H 6 Cil                         | 1595          | 219        | 6068 Diesel                         | 0813   | 200 |
| 814  | 1616          | 220        | 1630                                      | 0497          | 189        | 627                                 | 1647   | 221 |
| 817  | 1616          | 220        | 1640                                      | 0497          | 189        | 6300 4039T 4 cil 3.9                | 1647   | 221 |
| 818  | 1616          | 220        | 1830                                      | 0497          | 189        | 6329D Diesel                        | 0813   | 200 |
| 820  | 1616          | 220        | 1840                                      | 0497          | 189        | 6414D / T Diesel                    | 0813   | 200 |
| Escavadeira                                  | 0947          | 205        | 2030OU                                    | 0304          | 183        | 655 Utility Tractor Various Dsl     | 0813   | 200 |
| Escavadeira                                  | 1722          | 224        | 2040                                      | 0497          | 189        | 655B 6068T John Deere Dsl           | 0813   | 200 |
| Fastrac (635) 125                            | 1616          | 220        | 2140                                      | 0497          | 189        | 6600 6059T 6 cil 5.9                | 1647   | 221 |
| Fastrac (635) 145                            | 1616          | 220        |   |               |            | 670B 6068H John Deere Dsl           | 0813   | 200 |
|  |               |            |   |               |            | 672A Various Dsl                    | 0813   | 200 |

| John Deere                               | Nº ZEN | Pg. | John Deere                  | Nº ZEN | Pg. | John Deere                            | Nº ZEN        | Pg.        |
|--|--------|-----|-----------------------------|--------|-----|---------------------------------------|---------------|------------|
| 672B 6068T John Deere Dsl                | 0813   | 200 | JD762A 6466A John Deere Dsl | 0813   | 200 | MD975                                 | 0304          | 183        |
| 690CR Diesel                             | 0813   | 200 | JD762B                      | 0813   | 200 | MIA11257                              | 1880          | 232        |
| 690D 6414T John Deere Dsl                | 0813   | 200 | John Deere 42 MT            | 0110   | 179 | MIA11473                              | 1880          | 232        |
| 693C 6414T John Deere Dsl                | 0813   | 200 | John Deere 42 MT            | 0117   | 179 | MND730                                | 0118          | 179        |
| 693D 6068 Diesel                         | 0813   | 200 | John Deere                  | 1194   | 213 | RE526375                              | 1878          | 231        |
| 727 6 cil                                | 1647   | 221 | John Deere 42 MT            | 9074   | 234 | RE527400                              | 1878          | 231        |
| 750 Various Dsl                          | 0813   | 200 | John Deere Excavator        | 9260   | 234 | Tractor                               | 0112          | 179        |
| 750B 6068 Diesel                         | 0813   | 200 | Kawasaki motores pequenos   |        |     | Trator                                | 0434          | 187        |
| 755 6068T John Deere Dsl                 | 0813   | 200 | FD620Dv - Vários Modelos    | 0950   | 205 | Trator                                | 1754          | 226        |
| 755 Utility Tractor Various Dsl          | 0813   | 200 | Máquinas Agrícolas          | 1885   | 232 | Trator 4045 4 cil 4.5 Gradall         | 1595          | 219        |
| 755A Various Dsl                         | 0813   | 200 | MD1020                      | 0304   | 183 | Trator 6300                           | 0492          | 189        |
| 755B Various Dsl                         | 0813   | 200 | MD1040                      | 0635   | 193 | Trator 6600                           | 0102          | 178        |
| 770B Various Dsl                         | 0813   | 200 | MD1065                      | 0635   | 193 | Trator 6600                           | 1837          | 230        |
| 772B Various Dsl                         | 0813   | 200 | MD1075                      | 0635   | 193 | Trator 6605 6 cil                     | 1637          | 221        |
| 7820/608 1H 6 Cil                        | 1595   | 219 | MD1085                      | 0635   | 193 | Trator 6605                           | 1837          | 230        |
| 790 Utility Tractor 6466A John Deere Dsl | 0813   | 200 | MD1120                      | 0304   | 183 | Trator 7000 com motor MWM TD 229.6    | 0496          | 189        |
| 792 6466A John Deere Dsl                 | 0813   | 200 | MD1140                      | 0635   | 193 | Trator 7200 com motor MWM TD 229.6    | 0496          | 189        |
| 793D 6466A John Deere Dsl                | 0813   | 200 | MD1530                      | 0304   | 183 | Trator 7500                           | 0102          | 178        |
| 820                                      | 0497   | 189 | MD1630                      | 0304   | 183 | Trator 7500                           | 1637          | 221        |
| 830                                      | 0497   | 189 | MD1640                      | 0635   | 193 | Trator 7505 6 cil                     | 1637          | 221        |
| 840                                      | 0497   | 189 | MD1830                      | 0304   | 183 | Trator 7505                           | 1837          | 230        |
| 850B 619 Diesel                          | 0813   | 200 | MD1840                      | 0635   | 193 | Trator Série 7000 com motor MMB       | 0105          | 179        |
| 850B 6466A John Deere Dsl                | 0813   | 200 | MD2030                      | 0304   | 183 | Trator Série 7200 turbo com motor MMB | 0105          | 179        |
| 920                                      | 0497   | 189 | MD20401                     | 0635   | 193 | Trator Série 7700 com motor MMB       | 0105          | 179        |
| 968                                      | 0497   | 189 | MD2130                      | 0304   | 183 | Trator Série 7700 turbo com motor MMB | 0105          | 179        |
| 969                                      | 0497   | 189 | MD2140                      | 0635   | 193 | Trator Triunfo                        | 0039          | 176        |
| 970                                      | 0497   | 189 | MD290                       | 0304   | 183 | Tratores com motor Perkins 3 cil      | 0102          | 178        |
| 975                                      | 0497   | 189 | MD3040                      | 0635   | 193 | Tratores                              | 0427          | 186        |
| 9930 359 Diesel                          | 9459   | 234 | MD3130                      | 0304   | 183 | Tratores                              | 12682         | 240        |
| AM132702                                 | 1880   | 232 | MD3140                      | 0635   | 193 | Tratores Cub Cadet Compact 3205       |               |            |
| Bulldozer 570                            | 1647   | 221 | MD330                       | 0304   | 183 | Kawasaki 20HP Gas                     | 0950          | 205        |
| Bulldozer 570A                           | 1647   | 221 | MD330                       | 0497   | 189 | Tratores de Grama 445 Kawasaki        | 0950          | 205        |
| Carregadeiras                            | 0427   | 186 | MD630                       | 0118   | 179 | 22HP Gas                              |               |            |
| Cefeiro Front F911 Kawasaki 22HP         | 0950   | 205 | MD820                       | 0304   | 183 | Turf Vehicle Kawasaki 18HP            | 0950          | 205        |
| Colheitadeira                            | 1837   | 230 | MD820VU                     | 0304   | 183 | Utility Vehicle (UTV) 1800 Golf       | 0950          | 205        |
| Colheitadeira 1165                       | 1637   | 221 | MD830                       | 0304   | 183 | Kawasaki 18HP                         |               |            |
| Colheitadeira 1175                       | 1637   | 221 | MD840                       | 0635   | 193 | Utility Vehicle (UTV) Gator HPX       | 0950          | 205        |
| Colheitadeira 1175                       | 1637   | 221 | MD925                       | 0304   | 183 | Kawasaki 20HP                         |               |            |
| Colheitadeira 1450                       | 1637   | 221 | MD930                       | 0304   | 183 | VU. 1630                              | 0304          | 183        |
| Colheitadeira de Algodão                 | 1754   | 226 | MD932                       | 0635   | 193 | White Wing 4276 John Deere Diesel     | 9459          | 234        |
| Especial/Special                         | 0624   | 193 | MD935                       | 0304   | 183 | <b>Johnson Evinrude</b>               | <b>Nº ZEN</b> | <b>Pg.</b> |
| Especial/Special                         | 0948   | 205 | MD940                       | 0304   | 183 | 50 / 70HP                             | 1656          | 221        |
| JD300                                    | 0304   | 183 | MD940                       | 0635   | 193 | Motor de Popa                         | 0708          | 196        |
| JD300                                    | 0497   | 189 | MD941                       | 0635   | 193 | OMC 50 / 70HP em 3 partes             | 1668          | 222        |
| JD310                                    | 0304   | 183 | MD942                       | 0304   | 183 | OMC V-6 150 / 235HP                   | 1669          | 222        |
| JD310                                    | 0497   | 189 | MD945                       | 0304   | 183 | OMC V4 / V6 60°                       | 1670          | 222        |
| JD310                                    | 0635   | 193 | MD950                       | 0304   | 183 | OMC V4 em 3 partes                    | 1671          | 222        |
| JD350                                    | 0304   | 183 | MD952                       | 0304   | 183 | <b>JPX</b>                            | <b>Nº ZEN</b> | <b>Pg.</b> |
| JD350                                    | 0497   | 189 | MD952                       | 0635   | 193 | Jeep                                  | 0806          | 200        |
| JD350                                    | 0635   | 193 | MD955                       | 0304   | 183 | Jeep                                  | 0935          | 204        |
| JD400                                    | 0304   | 183 | MD955                       | 0635   | 193 | Jeep                                  | 1023          | 208        |
| JD400                                    | 0635   | 193 | MD958                       | 0635   | 193 | Jeep XUD9A                            | 0787          | 199        |
| JD410                                    | 0635   | 193 | MD960                       | 0304   | 183 | <b>Jungheinrich</b>                   | <b>Nº ZEN</b> | <b>Pg.</b> |
| JD450                                    | 0304   | 183 | MD965                       | 0304   | 183 | DFG 30                                | 9791          | 235        |
| JD450                                    | 0635   | 193 | MD965                       | 0635   | 193 | <b>Kaeble</b>                         | <b>Nº ZEN</b> | <b>Pg.</b> |
| JD670 Diesel                             | 0813   | 200 | MD968                       | 0304   | 183 | Especial/Special                      | 1111          | 233        |
| JD670 6466A John Deere Dsl               | 0813   | 200 | MD969                       | 0304   | 183 |                                       |               |            |
| JD762A 619 John Deere Dsl                | 0813   | 200 | MD970                       | 0304   | 183 |                                       |               |            |

| Kassbohrer                              | Nº ZEN        | Pg.        | Kenworth   | Nº ZEN        | Pg.        | KHD                                    | Nº ZEN        | Pg.        |
|---|---------------|------------|--|---------------|------------|--|---------------|------------|
| S100                                    | 0316          | 183        | C500   | 0556          | 190        | DX90                                   | 0367          | 185        |
| S80                                     | 0316          | 183        | MED. HD. TRK   | 0556          | 190        | Engines F1L210 (.7L - 673cc)           | 0638          | 193        |
| <b>Kawasaki</b>                         | <b>Nº ZEN</b> | <b>Pg.</b> | Motor Cat C10/C12, Cummins ISM, CatC9/C11/C13/C15 Acert e Cummins ISX            | 1811          | 229        | Engines F2L511 1.7L 1650cc             | 0417          | 186        |
| 1100 - STX, ZXI E Ultra 150             | 0749          | 197        | Prestolite MS2-500, MS2-501, MS2-502, MS2-503, MS2-504, MS2-507, MS2-510, MS2-51 | 1811          | 229        | F10L312                                | 0290          | 182        |
| 21163 3003 F, G, YR                     | 0536          | 190        | Substitui/Reemplaza Mitsubishi KW0779, M970979, M009T70979, PC0779, PC0979, PC13 | 1811          | 229        | F10L413                                | 0290          | 182        |
| 21163 3710                              | 0536          | 190        | Substitui/Reemplaza Mitsubishi PC1479, PC1579, PC1779, PC1879, PB0979. Denso 428 | 1811          | 229        | F12L413                                | 0290          | 182        |
| 21163 3711                              | 0536          | 190        | W900   | 0556          | 190        | F1L410                                 | 0225          | 182        |
| 21163 5031                              | 0536          | 190        | <b>KHD</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | F1L410                                 | 0318          | 184        |
| 211637021                               | 1880          | 232        | 290D   | 0290          | 182        | F2L 1011                               | 0929          | 204        |
| 33                                      | 0223          | 181        | 310D   | 0290          | 182        | F2L 1011 1.4                           | 1002          | 207        |
| 34                                      | 0223          | 181        | 340D   | 0290          | 182        | F2L410                                 | 0225          | 182        |
| 440                                     | 1191          | 213        | 411D   | 0318          | 184        | F2L411                                 | 0225          | 182        |
| 550 CC Jet Ski                          | 1191          | 213        | 411W   | 0318          | 184        | F2L712                                 | 0223          | 181        |
| 650 - SC, X2                            | 0749          | 197        | 715 F2 L 1011  | 0764          | 198        | F2L812                                 | 0223          | 181        |
| 750 - SS, ST,STS,STX, SX,SXI,TS,XI, ZXI | 0749          | 197        | 716 F3 L 1011  | 0764          | 198        | F2L912                                 | 0312          | 183        |
| 900 - STX, ZXI                          | 0749          | 197        | 717 F4 L 1011  | 0764          | 198        | F3L 1011                               | 0929          | 204        |
| ATV 300 4x4                             | 0751          | 197        | 721 BF4 L 1011   | 0764          | 198        | F3L 1011 2.0                           | 1002          | 207        |
| D10006                                  | 0392          | 185        | BF4L 1011  | 0929          | 204        | F3L812                                 | 0226          | 182        |
| D130006                                 | 0392          | 185        | BF4L 1011 2.7  | 1002          | 207        | F3L911                                 | 0366          | 185        |
| D4006                                   | 0392          | 185        | BF8L513C   | 0290          | 182        | F3L912                                 | 0225          | 182        |
| D5006                                   | 0392          | 185        | D10006   | 0367          | 185        | F3L912                                 | 0312          | 183        |
| D6006                                   | 0392          | 185        | D130006  | 0367          | 185        | F4L 1011                               | 0929          | 204        |
| D6206                                   | 0392          | 185        | D25  | 0223          | 181        | F4L 1011 2.7                           | 1002          | 207        |
| D6806                                   | 0392          | 185        | D2505  | 0223          | 181        | F4L812                                 | 0226          | 182        |
| D7006                                   | 0392          | 185        | D2506  | 0318          | 184        | F6L413                                 | 0087          | 233        |
| D7206                                   | 0392          | 185        | D2506  | 0366          | 185        | F8L413                                 | 0087          | 233        |
| D8006                                   | 0392          | 185        | D30  | 0223          | 181        | F8L413                                 | 0290          | 182        |
| DX100                                   | 0392          | 185        | D30 S  | 0223          | 181        | F8M716                                 | 0290          | 182        |
| DX85                                    | 0392          | 185        | D3005  | 0223          | 181        | FHL912                                 | 0225          | 182        |
| DX90                                    | 0392          | 185        | D3006  | 0318          | 184        | Intrac                                 | 0367          | 185        |
| F1300D                                  | 0418          | 186        | D4005  | 0226          | 182        | L                                      | 0087          | 233        |
| F1300DT                                 | 0118          | 179        | D4006  | 0367          | 185        | M150E10                                | 0087          | 233        |
| F1400D                                  | 0418          | 186        | D4505  | 0226          | 182        | M150L10                                | 0087          | 233        |
| F1400DT                                 | 0118          | 179        | D4506  | 0367          | 185        | M170D                                  | 0087          | 233        |
| F1500D                                  | 0418          | 186        | D5005  | 0226          | 182        | M200L                                  | 0087          | 233        |
| F1500DT                                 | 0118          | 179        | D5006  | 0367          | 185        | M232D                                  | 0087          | 233        |
| F1600D                                  | 0418          | 186        | D5505  | 0226          | 182        | M270D                                  | 0290          | 182        |
| F1600DT                                 | 0118          | 179        | D6006  | 0367          | 185        | M90D7FL                                | 0036          | 233        |
| F1800D                                  | 0418          | 186        | D6206  | 0367          | 185        | M90D7L                                 | 0036          | 233        |
| F1800DT                                 | 0118          | 179        | D6806  | 0367          | 185        | Motor Náutico BFM1012                  | 1751          | 225        |
| F1902DT                                 | 0118          | 179        | D7006  | 0367          | 185        | Motores BF6L913, BF6L913C 6 Cil        | 1751          | 225        |
| F2100                                   | 0760          | 198        | D7206  | 0367          | 185        | Motores F3L912, F3L913 3 Cil           | 1751          | 225        |
| F2103                                   | 0760          | 198        | D7506  | 0367          | 185        | Motores F4L912, F4L913 4 Cil           | 1751          | 225        |
| F2105                                   | 0760          | 198        | D8005  | 0036          | 233        | Motores F6L912, F6L913 6 Cil           | 1751          | 225        |
| F2105D                                  | 0118          | 179        | D8006  | 0367          | 185        | Motors engines BF4L1011 2.7 L - 2732cc | 1472          | 215        |
| F2105DF                                 | 0418          | 186        | DL1300   | 0087          | 233        | Motors engines F2L1011 1.4 - 1366cc    | 1472          | 215        |
| F2300                                   | 0760          | 198        | DP210  | 0290          | 182        | R                                      | 0087          | 233        |
| F2303                                   | 0760          | 198        | DX100  | 0367          | 185        | S                                      | 0087          | 233        |
| F2305                                   | 0760          | 198        | DX50V  | 0366          | 185        | SH                                     | 0087          | 233        |
| Intrac                                  | 0392          | 185        | DX85   | 0367          | 185        | TL                                     | 0087          | 233        |
| Magnum 2x4                              | 0751          | 197        |  |               |            | TR                                     | 0087          | 233        |
| Magnum 4x4                              | 0751          | 197        |  |               |            | <b>Kia</b>                             | <b>Nº ZEN</b> | <b>Pg.</b> |
| SB2500DH                                | 0760          | 198        |  |               |            | Amanti                                 | 1800          | 228        |
| Sportsman 4x4                           | 0751          | 197        |  |               |            | Besta 1000cc                           | 0786          | 199        |
| SX440                                   | 0536          | 190        |  |               |            | Besta 2.5 - 2.7                        | 1601          | 219        |
| SX550                                   | 0536          | 190        |  |               |            | Besta 2.7                              | 1667          | 221        |

| Kia                                   | Nº ZEN        | Pg.        | Kohler  | Nº ZEN        | Pg.        | Komatsu  | Nº ZEN        | Pg.        |
|---------------------------------------|---------------|------------|---|---------------|------------|--|---------------|------------|
| Besta 2.7 arranque Mando              | 13021         | 237        | 2509811   | 1880          | 232        | Trator de Esteiras D65 com motor Cummins N855  | 0088          | 233        |
| Bongo                                 | 1607          | 219        | 2509811S  | 1880          | 232        | Trator de Esteiras D65A com motor Cummins N855 | 0088          | 233        |
| Bongo                                 | 1667          | 221        | <b>Komatsu</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | Trator de Esteiras D65A com motor Cummins N855 | 0122          | 239        |
| Bongo                                 | 1794          | 228        | 364   | 1364          | 215        | Trator de Esteiras D65A com motor Cummins N855 | 0133          | 179        |
| Bongo                                 | 1872          | 231        | Escavadeira PC200 Cummins 4B3.9                           | 0722          | 196        | Trator de Esteiras D65E com motor Cummins N855 | 0122          | 239        |
| Borrego                               | 1800          | 228        | Escavadeira PC200 Cummins 4BT3.9                          | 0722          | 196        | Trator de Esteiras D65E com motor Cummins N855 | 0133          | 179        |
| Carens II CWT 1.6                     | 1706          | 224        | Escavadeira PC200 Cummins 6B5.9                           | 0722          | 196        | Trator de Esteiras D65E com motor Cummins N855 | 0122          | 239        |
| Ceed 1.4/1.6                          | 1706          | 224        | Escavadeira PC200 Cummins 6BT5.9                          | 0722          | 196        | Trator de Esteiras D65E com motor Cummins N855 | 0133          | 179        |
| Ceed Diesel                           | 1695          | 223        | Escavadeira PC200 Cummins 6BTAA Mack                      | 0722          | 196        | Trator WA 180 Cummins 6BT 5.9                  | 0089          | 233        |
| Cerato Diesel                         | 1695          | 223        | Esteira D60F com motor Cummins N855C                      | 0089          | 233        | Varios fork lift                               | 0376          | 185        |
| Forte Koup                            | 1800          | 228        | Esteira D65E com motor Cummins N855C                      | 0089          | 233        | <b>Kubota</b>                                  | <b>Nº ZEN</b> | <b>Pg.</b> |
| Forte Koup L4 2.0L 1998cc 122cid      | 1770          | 227        | Esteira D73E com motor Cummins N855C                      | 0089          | 233        | E719463010                                     | 1880          | 232        |
| Forte Koup L4 2.4L 2359cc             | 1770          | 227        | Esteiras D60E com motor Cummins N855C                     | 0089          | 233        | E719463012                                     | 1880          | 232        |
| Forte L4 2.0L 1998cc 122cid           | 1770          | 227        | Motoniveladora GD523 com motor Cummins série C            | 0622          | 193        | Hauler KC5 ZH600B Dsl. Engine                  | 0353          | 185        |
| Forte L4 2.4L 2359cc                  | 1770          | 227        | Motoniveladora GD623 com motor Cummins série C            | 0622          | 193        | Micro trator Tobatta M140N                     | 0348          | 184        |
| Forte5 L4 2.0L 1998cc 122cid          | 1770          | 227        | P160  | 0118          | 179        | Mower Front F2100E D950 FM 21HP Dsl            | 0353          | 185        |
| Forte5 L4 2.4L 2359cc                 | 1770          | 227        | P170  | 0118          | 179        | Mower Front F2000 D950 FM 20HP Dsl             | 0353          | 185        |
| K2500 2.5D                            | 1607          | 219        | P170T   | 0118          | 179        | Mower Front F2100 D950 FM 21HP Dsl             | 0353          | 185        |
| Magentis                              | 1800          | 228        | P190  | 0118          | 179        | Tractor Compact B1550D D850 5B 17HP Dsl        | 0353          | 185        |
| New Pride                             | 1847          | 230        | P200  | 0118          | 179        | Tractor Compact B1550DT D850 5B 17HP Dsl       | 0353          | 185        |
| Optima                                | 1800          | 228        | P260  | 0118          | 179        | Tractor Compact B1550DTEX D850 5B 17HP Dsl     | 0353          | 185        |
| Optima L4 2.0L 1998cc 122cid          | 1770          | 227        | P270  | 0118          | 179        | Tractor Compact B1550E D850 5B 17HP Dsl        | 0353          | 185        |
| Picanto FLEX                          | 0450          | 187        | Pá Carregadeira com motor Cummins série C                 | 0622          | 193        | Tractor Compact B1550HSD D850 5B 17HP Dsl      | 0353          | 185        |
| Picanto Diesel                        | 1695          | 223        | PC75U Motor 4D95  | 0895          | 203        | Tractor Compact B1750DT D950 5B 20HP Dsl       | 0353          | 185        |
| Pop Pride                             | 1605          | 219        | PC80 Motor 4D95   | 0895          | 203        | Tractor Compact B1750E D950 5B 20HP Dsl        | 0353          | 185        |
| Pregio 2.5 TCID                       | 1607          | 219        | PC90 Motor 4D95   | 0895          | 203        | Tractor Compact B1750HSD D950 5B 20HP Dsl      | 0353          | 185        |
| Pride                                 | 0584          | 191        | Retroescavadeira PC150 mod. 5, (Hidráulica)               | 0118          | 179        | Tractor Compact B1750HSE D950 5B 20HP Dsl      | 0353          | 185        |
| Pride                                 | 0636          | 193        | Retroescavadeira PC150 modelo 3 com motor Cummins 6BT 5.9 | 0497          | 189        | Tractor Compact B20 D950AT 20HP Dsl            | 0353          | 185        |
| Pride                                 | 1054          | 209        | Trator de Esteiras D30E MBB OM 352, 352A                  | 0105          | 179        | Tractor Compact B20TL D950AT 20HP Dsl          | 0353          | 185        |
| ProCeed 1.4/1.6                       | 1706          | 224        | Trator de Esteiras D50A MBB OM 352, 352A                  | 0105          | 179        | Tractor Compact B6000DT ZL600 14.5HP Dsl       | 0353          | 185        |
| Rio                                   | 1048          | 209        | Trator de Esteiras D50P MBB OM 352, 352A                  | 0105          | 179        | Tractor Compact B6000DTC ZL600 14.5HP Dsl      | 0353          | 185        |
| Rio 1.6                               | 1777          | 227        | Trator de Esteiras D60A com motor Cummins N855            | 0088          | 233        | Tractor Compact B6000E ZL600 14.5HP Dsl        | 0353          | 185        |
| Rio                                   | 1847          | 230        | Trator de Esteiras D60A com motor Cummins N855            | 0122          | 239        | Tractor Compact B6100D D650 B 14HP Dsl         | 0353          | 185        |
| Rio Diesel                            | 1695          | 223        | Trator de Esteiras D60A com motor Cummins N855            | 0133          | 179        | Tractor Compact B6100DT D650 B 14HP Dsl        | 0353          | 185        |
| Rondo                                 | 1800          | 228        | Trator de Esteiras D60E com motor Cummins N855            | 0088          | 233        |  |               |            |
| Sephia GTX 1.5 16V                    | 0450          | 187        | Trator de Esteiras D60E com motor Cummins N855            | 0122          | 239        |  |               |            |
| Sephia SLX 1.6 8V                     | 0450          | 187        | Trator de Esteiras D60E com motor Cummins N855            | 0133          | 179        |  |               |            |
| Sorento                               | 1794          | 228        | Trator de Esteiras D60F com motor Cummins N855            | 0088          | 233        |  |               |            |
| Sorento                               | 1800          | 228        | Trator de Esteiras D60F com motor Cummins N855            | 0122          | 239        |  |               |            |
| Soul                                  | 1775          | 227        | Trator de Esteiras D60F com motor Cummins N855            | 0133          | 179        |  |               |            |
| Soul CWT 1.6                          | 1706          | 224        |   |               |            |  |               |            |
| Soul Diesel                           | 1695          | 223        |   |               |            |  |               |            |
| Spectra 1.6                           | 1048          | 209        |   |               |            |  |               |            |
| Spectra 5 L4 2.0L 1975cc              | 1775          | 227        |   |               |            |  |               |            |
| Spectra L4 2.0L 1975cc                | 1775          | 227        |   |               |            |  |               |            |
| Sportage com motor OHC 16V a gasolina | 0450          | 187        |   |               |            |  |               |            |
| Sportage                              | 0946          | 205        |   |               |            |  |               |            |
| Sportage 1.6                          | 1706          | 224        |   |               |            |  |               |            |
| Sportage L4 2.0L 1998cc 122cid        | 1770          | 227        |   |               |            |  |               |            |
| Sportage L4 2.4L 2359cc               | 1770          | 227        |   |               |            |  |               |            |
| Sportage L4 2.0L 1975cc               | 1775          | 227        |   |               |            |  |               |            |
| Venga 1.4/1.6                         | 1706          | 224        |   |               |            |  |               |            |
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| 2509808                               | 1880          | 232        |   |               |            |  |               |            |
| 2509808S                              | 1880          | 232        |   |               |            |  |               |            |
| 2509809                               | 1880          | 232        |   |               |            |  |               |            |
| 2509809S                              | 1880          | 232        |   |               |            |  |               |            |

| Kubota                                    | Nº ZEN        | Pg.        | Lamborghini                        | Nº ZEN | Pg. | Lancer                         | Nº ZEN        | Pg.        |
|---|---------------|------------|------------------------------------|--------|-----|--------------------------------|---------------|------------|
| Tractor Compact B6100E D650 B 14HP Dsl    | 0353          | 185        | 784DT                              | 0447   | 187 | 300 Series                     | 0398          | 186        |
| Tractor Compact B6100HSD D650 B 14HP Dsl  | 0353          | 185        | 7R                                 | 0226   | 182 | Especial/Special               | 1509          | 216        |
| Tractor Compact B6100HSE D650 B 14HP Dsl  | 0353          | 185        | 7R DT                              | 0226   | 182 | PD III A                       | 0398          | 186        |
| Tractor Compact B6100HST D650 B 14HP Dsl  | 0353          | 185        | 854                                | 0367   | 185 | <b>Lancia</b>                  | <b>Nº ZEN</b> | <b>Pg.</b> |
| Tractor Compact B6100HSTE D650 B 14HP Dsl | 0353          | 185        | 90-2                               | 0028   | 176 | Beta 1.3, 1.4, 1.6, 1.8, 2.0   | 0111          | 179        |
| Tractor Compact B6100T D650 B 14HP Dsl    | 0353          | 185        | 90-4                               | 0028   | 176 | Beta                           | 0213          | 181        |
| Tractor Compact B6100HST D650 B 14HP Dsl  | 0353          | 185        | 904DT                              | 0392   | 185 | Beta 1.3, 1.6                  | 0389          | 185        |
| Tractor Compact B6100HSTE D650 B 14HP Dsl | 0353          | 185        | 955                                | 0367   | 185 | Beta Z50                       | 0035          | 233        |
| Tractor Compact B6100T D650 B 14HP Dsl    | 0353          | 185        | 9LD 625                            | 0475   | 188 | Dedra TD                       | 0631          | 193        |
| Tractor Garden 2L600 2L600                | 0353          | 185        | C352                               | 0447   | 187 | Dedra 1.6 i.e                  | 1206          | 213        |
| Tractor Garden G6200H D640 16HP Dsl       | 0353          | 185        | C362                               | 0447   | 187 | Dedra I.E 1.6                  | 0786          | 199        |
| Trator                                    | 0339          | 184        | C453                               | 0447   | 187 | Delta 1.5, 1.6                 | 0111          | 179        |
| Trator                                    | 0343          | 184        | C503                               | 0447   | 187 | Delta 1.3                      | 0120          | 179        |
| Trator                                    | 0584          | 191        | C533                               | 0447   | 187 | Delta 1.5                      | 0389          | 185        |
| Tratores                                  | 9186          | 234        | C603                               | 0378   | 185 | Delta HF4WD                    | 0394          | 185        |
| Tratores                                  | 9403          | 234        | C603                               | 0392   | 185 | Delta TD                       | 0631          | 193        |
| <b>Lada</b>                               | <b>Nº ZEN</b> | <b>Pg.</b> | C653                               | 0447   | 187 | Delta 1.5                      | 0108          | 179        |
| 2104                                      | 0111          | 179        | Diablo 5.7                         | 1004   | 207 | Esadelta                       | 0036          | 233        |
| 2104                                      | 0213          | 181        | DT235                              | 0447   | 187 | Esadelta B                     | 0035          | 233        |
| 2108                                      | 0540          | 190        | DT503-603                          | 0366   | 185 | Esagamma                       | 0035          | 233        |
| 2110                                      | 0892          | 203        | DT653                              | 0447   | 187 | Esaro 3RO                      | 0036          | 233        |
| Especial/Special                          | 1068          | 209        | DT704                              | 0378   | 185 | Esatu                          | 0035          | 233        |
| Lada 1200                                 | 0213          | 181        | DT704                              | 0392   | 185 | Esatu                          | 0036          | 233        |
| Lada 1500                                 | 0213          | 181        | DT804                              | 0367   | 185 | Especial/Special               | 1056          | 209        |
| Laika 1.5 e 1.6                           | 0111          | 179        | DT904                              | 0367   | 185 | Especial/Special               | 1117          | 211        |
| Laika                                     | 0213          | 181        | Espada                             | 0318   | 184 | Flavia                         | 0119          | 179        |
| Niva 1.5 e 1.6                            | 0111          | 179        | Especial/Special                   | 1073   | 210 | Fulvia                         | 0119          | 179        |
| Niva                                      | 0213          | 181        | Especial/Special                   | 1076   | 210 | Gamma 2.0, 2.5                 | 0108          | 179        |
| Niva 4x4                                  | 0540          | 190        | Islero 400GTS                      | 0318   | 184 | HPE                            | 0213          | 181        |
| Niva Vaz 2121                             | 0213          | 181        | L503                               | 0447   | 187 | K 2.4 TD                       | 1477          | 216        |
| Samara                                    | 0540          | 190        | L603                               | 0378   | 185 | K 2.4 TD                       | 1630          | 220        |
| Samara                                    | 0805          | 200        | L603                               | 0392   | 185 | Lybra                          | 1033          | 208        |
| Samara 1.1-1.3 e 1.5                      | 1088          | 210        | LDA 78/4                           | 0028   | 176 | Motor 1.3 JTD 16V              | 1641          | 221        |
| <b>Lamborghini</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> | LL503                              | 0447   | 187 | Musa 1.3 - 1.9 JTD MJ          | 1752          | 226        |
| 1356                                      | 0367          | 185        | Miura P400                         | 0318   | 184 | Musa 1.4                       | 1779          | 227        |
| 1566                                      | 0367          | 185        | R1056DT                            | 0367   | 185 | Nuova Delta                    | 1169          | 212        |
| 221                                       | 0318          | 184        | R1056DT                            | 0392   | 185 | Prisma 1.5                     | 0108          | 179        |
| 226                                       | 0028          | 176        | R1156                              | 0367   | 185 | Prisma 1.5, 1.6                | 0111          | 179        |
| 230                                       | 0028          | 176        | R1256DT                            | 0367   | 185 | Prisma 1.3                     | 0120          | 179        |
| 230                                       | 0318          | 184        | R235                               | 0447   | 187 | Prisma 1.5                     | 0389          | 185        |
| 321                                       | 0318          | 184        | R240DT                             | 0312   | 183 | Prisma 1.6 4WD                 | 0394          | 185        |
| 340                                       | 0028          | 176        | R350DT                             | 0312   | 183 | Prisma TD                      | 0631          | 193        |
| 340                                       | 0318          | 184        | R355 DT                            | 0226   | 182 | Thema Turbo Diesel             | 0875          | 202        |
| 350                                       | 0318          | 184        | R483                               | 0447   | 187 | Thema 2000IE Turbo             | 0394          | 185        |
| 431                                       | 0318          | 184        | R503                               | 0225   | 182 | Thema 8.32                     | 0482          | 188        |
| 452                                       | 0028          | 176        | R503-603                           | 0366   | 185 | Thema D e TD                   | 1104          | 210        |
| 452                                       | 0318          | 184        | R603                               | 0225   | 182 | Trevi 1.6, 2.0                 | 0111          | 179        |
| 503DT                                     | 0225          | 182        | R653                               | 0447   | 187 | Trevi                          | 0213          | 181        |
| 523                                       | 0318          | 184        | R704                               | 0378   | 185 | Trevi 1.6                      | 0389          | 185        |
| 603DT                                     | 0225          | 182        | R704                               | 0392   | 185 | Ypsilon                        | 1752          | 226        |
| 624                                       | 0318          | 184        | R804                               | 0367   | 185 | Ypsilon 1.4                    | 1779          | 227        |
| 653                                       | 0367          | 185        | R804                               | 0392   | 185 | Z (Zeta) 2.0 16V, 2.0ie, Turbo | 1031          | 208        |
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| 754                                       | 0367          | 185        | S503                               | 0447   | 187 | 200                            | 1496          | 216        |
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| 13000 A6.354.4                                     | 1616   | 220 | Mark VIII LSC V8 4.6 Gas.                         | 1226   | 214 | Motores Indiel M100R                        | 1719   | 224 |
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| 8880 A4.248  | 1616   | 220 | Town Car Tournament Edition V8 4.6 Gas.           | 1199   | 213 | Caminhões Mack com motor Mack MP8           | 1811   | 229 |
| 9080 T4.236  | 1616   | 220 | Town Car Tournament Edition V8 4.6 Gas.           | 1226   | 214 | Caminhões Mack com motor Mack MP8           | 1811   | 229 |
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| Caminhões Pinnacle com motor Mack MP7  | 1811          | 229        | Jeep Scorpio                             | 1716          | 224        | Massey Ferguson                                    | 0134   | 179 |
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| Caminhões TerraPro com motor Mack MP8  | 1811          | 229        | Caminhão Bussing                         | 0538          | 190        | MF 102 Perkins-AT6.354                             | 1616   | 220 |
| Caminhões TerraPro com motor Mack E7   | 13117         | 237        | Europe Bus                               | 1178          | 212        | MF 105   | 1616   | 220 |
| Caminhões TerraPro com motor Mack MP8  | 1810          | 228        | Lions City D0836 6.9L Dsl                | 1178          | 212        | MF 1080 Perkins A4.318                             | 1616   | 220 |
| Caminhões TerraPro com motor Mack MP8  | 13118         | 237        | Lions Classic D0836 6.9L Dsl             | 1178          | 212        | MF 1080 S-4RM Perkins A4.318                       | 1616   | 220 |
| Caminhões TerraPro com motor Mack E7   | 13117         | 237        | <b>Marine Electric</b>                   | <b>Nº ZEN</b> | <b>Pg.</b> | MF 1085 A4.318                                     | 1616   | 220 |
| Caminhões TerraPro com motor Mack MP8  | 1810          | 228        | Especial/Special                         | 1042          | 208        | MF 11  | 1616   | 220 |
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| Trator M série M 240 com motor Cummins 6CTA 8.3                                  | 0122          | 239        | 700C                                     | 0078          | 233        | MF 283 Perkins P4000 4.1                           | 1622   | 220 |
| Trator M série M 240 com motor Cummins 6CTA 8.3                                  | 0133          | 179        | 77C                                      | 0078          | 233        | MF 290 Perkins P4000 4.1                           | 1622   | 220 |
| <b>Magirus Deutz</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | AA 550 Perkins / MWM 6 cil               | 1600          | 219        | MF 290   | 1700   | 223 |
| 320M   | 0290          | 182        | AA 660 Perkins / MWM 6 cil               | 1600          | 219        | MF 292 Perkins P4000 4.1                           | 1622   | 220 |
| M270D  | 0290          | 182        | C44                                      | 0078          | 233        | MF 30 D  | 1616   | 220 |
| M310D  | 0290          | 182        | Colheitadeira MF3640 PER-A 6358          | 0118          | 179        | MF 3060 Perkins A4.248                             | 1600   | 219 |
| M340D  | 0290          | 182        | Colheitadeira MF5650 turbo PER-AT 6354-4 | 0118          | 179        | MF 3060 / 3065                                     | 1616   | 220 |
| Trator   | 0929          | 204        | Colheitadeira 3640                       | 1602          | 219        | MF 3065 Perkins AT4.236                            | 1600   | 219 |
| <b>Magneti Marelli</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | Colheitadeira 5650                       | 1602          | 219        | MF 307   | 1616   | 220 |
| Viejo  | 0671          | 195        | Colheitadeira MF                         | 0182          | 180        | MF 3070 Perkins AT4.236                            | 1616   | 220 |
|  |               |            | Colheitadeira MF102                      | 0118          | 179        | MF 32 Sisu 620DS 6 Cil                             | 1698   | 223 |
|  |               |            | Colheitadeira MF1630                     | 0118          | 179        | MF 33B   | 0308   | 183 |
|  |               |            | Colheitadeira MF1630 PER-A 4248          | 0118          | 179        | MF 34 Sisu 634DSA 6 Cil                            | 1698   | 223 |
|  |               |            | Colheitadeira MF210S                     | 0118          | 179        | MF 34 yl Perkins / MWM 6c                          | 1600   | 219 |
|  |               |            | Colheitadeira MF220                      | 0118          | 179        | MF 3625 V/S/F/GE Sisl Diesel 33 DTA 3.3            | 1701   | 223 |
|  |               |            | Colheitadeira MF310                      | 0118          | 179        | MF 3635 V/S/F/GE Sisl Diesel 33 DTA 3.3            | 1701   | 223 |
|  |               |            | Colheitadeira MF3640                     | 0118          | 179        | MF 3640 A 6.358 A JF 12V                           | 1690   | 223 |
|  |               |            | Colheitadeira MF5650                     | 0118          | 179        | MF 3640 Perkins 1006-6 JF 12V                      | 1690   | 223 |
|  |               |            | Colheitadeira MF5650 PER-A 6354-4        | 0118          | 179        | MF 3640 V/S/F/GE Sisl Diesel 33 CTA 3 Cil 82HP 3.3 | 1701   | 223 |
|  |               |            | D66                                      | 0078          | 233        | MF 3645 Sisl Diesel 33 DTA 3.3                     | 1701   | 223 |
|  |               |            | E7C                                      | 0302          | 183        | MF 3650 S/F/GE Sisl Diesel 33 CTA 3 Cil 92 HP 3.3  | 1701   | 223 |
|  |               |            | Especial/Special                         | 0067          | 177        |  |        |     |
|  |               |            | Especial/Special                         | 0150          | 180        |  |        |     |
|  |               |            | Especial/Special                         | 0737          | 196        |  |        |     |

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| MF 3655 Sisu Diesel 33 DTA 3.3              | 1701   | 223 | MF 5650 A 6.354.4 JF 12V                   | 1690   | 223 | MF-60E Perkins Diesel Engines | 0649   | 194 |
| MF 3680                                     | 1700   | 223 | MF 5650 Perkins 1006-6T JF 12V             | 1690   | 223 | MF155                         | 0302   | 183 |
| MF 374 S,V,F Perkins A4.236                 | 1616   | 220 | MF 5650 Turbo AT 6.354.4 JF 12V            | 1690   | 223 | MF155                         | 0661   | 194 |
| MF 38 Perkins/MWM 6 cil                     | 1600   | 219 | MF 592 / 595 Perkins A4.318                | 1616   | 220 | MF158                         | 0302   | 183 |
| MF 383 Perkins - A4.236                     | 1600   | 219 | MF 6150 1004-4THR                          | 1616   | 220 | MF158                         | 0661   | 194 |
| MF 394 S,F Perkins A4.248                   | 1616   | 220 | MF 6160 1006-6                             | 1616   | 220 | MF168                         | 0302   | 183 |
| MF 400 Perkins / MWM 4, 6 cil               | 1600   | 219 | MF 620 / 625 Perkins A6.372                | 1616   | 220 | MF168                         | 0661   | 194 |
| MF 400X Perkins / MWM 4, 6 cil              | 1600   | 219 | MF 6270                                    | 1700   | 223 | MF186                         | 0302   | 183 |
| MF 4200 Perkins / MWM 4, 6 cil              | 1600   | 219 | MF 6280                                    | 1700   | 223 | MF186                         | 0661   | 194 |
| MF 4200                                     | 1700   | 223 | MF 6350 Sisu 620DS 6 Cil                   | 1698   | 223 | MF187                         | 0302   | 183 |
| MF 4290                                     | 1700   | 223 | MF 6360 Sisu 634DSA 6 Cil                  | 1698   | 223 | MF187                         | 0661   | 194 |
| MF 4292                                     | 1678   | 222 | MF 6460 Sisu 44CTA 4.4                     | 1698   | 223 | MF188                         | 0302   | 183 |
| MF 4292 (cab) (Brasil) Sisu 420DS 4 Cil     | 1698   | 223 | MF 6470 Sisu 44CTA 4.4                     | 1698   | 223 | MF188                         | 0661   | 194 |
| MF 4292 (plat) Sisu 420DS 4 Cil             | 1698   | 223 | MF 6485 Sisu Diesel 66CTA 130kW 6.6        | 1698   | 223 | MF1956                        | 0041   | 176 |
| MF 4297 Sisu 420DS 4 Cil                    | 1698   | 223 | MF 6490 Sisu Diesel 66CTA 6.6              | 1698   | 223 | MF220                         | 0024   | 176 |
| MF 4297 (cab) (Brasil) Sisu 420DS 4 Cil     | 1698   | 223 | MF 6495 Sisu Diesel 66CTA 6.6              | 1698   | 223 | MF220                         | 1359   | 215 |
| MF 4297 (plat) Sisu 420DS 4 Cil             | 1698   | 223 | MF 6497 Sisu Diesel 74CTA 7.4              | 1698   | 223 | MF235                         | 0024   | 176 |
| MF 4299 Sisu 420DSA 4 Cil                   | 1698   | 223 | MF 6499 Sisu Diesel 74CTA 7.4              | 1698   | 223 | MF235                         | 0043   | 176 |
| MF 4299 (plat) Sisu 420DSA 4 Cil            | 1698   | 223 | MF 675 9TD/10TD Perkins A4.236             | 1616   | 220 | MF235                         | 0668   | 194 |
| MF 4299 (plat) (Brasil) Sisu 420DSA 4 Cil   | 1698   | 223 | MF 6845 Perkins 1006-6T JF 12V             | 1690   | 223 | MF235                         | 1359   | 215 |
| MF 4435 Sisu Diesel 33 DTA 3 Cil 74 HP 3.3  | 1701   | 223 | MF 685                                     | 1616   | 220 | MF235 PER-A 3152              | 0043   | 176 |
| MF 4445 Sisu Diesel 44DTA 4 Cil 101HP 4.4   | 1698   | 223 | MF 6855 Perkins 1006-6TW JF 12V            | 1690   | 223 | MF250                         | 0024   | 176 |
| MF 4445 Sisu Diesel 44DTA 4 Cil 88HP 4.4    | 1698   | 223 | MF 6865 Perkins 1006-6T JF 12V             | 1690   | 223 | MF250                         | 1359   | 215 |
| MF 460 XTRA (cab) (Brasil) Sisu 44DTA 4 Cil | 1698   | 223 | MF 690 9TD/10TD Perkins A4.248             | 1616   | 220 | MF265                         | 0668   | 194 |
| MF 460 XTRA (plat) Sisu 44DTA 4 Cil         | 1698   | 223 | MF 7140 Sisu 620DS 6 Cil                   | 1698   | 223 | MF265                         | 1195   | 213 |
| MF 470 XTRA (cab) (Brasil) Sisu 44DTA 4 Cil | 1698   | 223 | MF 7145 Sisu 634DSA 6 Cil                  | 1698   | 223 | MF270                         | 1195   | 213 |
| MF 470 XTRA (plat) Sisu 44DTA 4 Cil         | 1698   | 223 | MF 7150 Sisu 620DS 6 Cil                   | 1698   | 223 | MF275                         | 0024   | 176 |
| MF 480 XTRA (cab) (Brasil) Sisu 44DTA 4 Cil | 1698   | 223 | MF 7170 Sisu 620DS 6 Cil                   | 1698   | 223 | MF275                         | 1195   | 213 |
| MF 480 XTRA (plat) Sisu 44DTA 4 Cil         | 1698   | 223 | MF 7180 Sisu 620DS 6 Cil                   | 1698   | 223 | MF275                         | 1359   | 215 |
| MF 487                                      | 1616   | 220 | MF 7330 Sisu 620DS 6 Cil                   | 1698   | 223 | MF285                         | 0024   | 176 |
| MF 50 10TD Perkins A4.236/A4.318            | 1616   | 220 | MF 7350 Sisu 620DS 6 Cil                   | 1698   | 223 | MF285                         | 1195   | 213 |
| MF 50 10TD/9TD Perkins A4.236/A4.212        | 1616   | 220 | MF 7370 Sisu 620DS 6 Cil                   | 1698   | 223 | MF285                         | 1359   | 215 |
| MF 50 9TD / EX Perkins A4.236               | 1616   | 220 | MF 7390 Sisu 620DS 6 Cil                   | 1698   | 223 | MF290                         | 0024   | 176 |
| MF 500 Perkins / MWM 4, 6 cil               | 1600   | 219 | MF 7415 Sisu 634DSA 6 Cil                  | 1698   | 223 | MF290                         | 1195   | 213 |
| MF 506                                      | 1616   | 220 | MF 7485 Sisu Diesel 66CTA 6 Cil 6.6        | 1698   | 223 | MF290                         | 1359   | 215 |
| MF 510                                      | 1616   | 220 | MF 7490 Sisu Diesel 66CTA 6.6              | 1698   | 223 | MF290 RA Perkins 4236         | 0024   | 176 |
| MF 520 / 525 Perkins A6.354                 | 1616   | 220 | MF 7495 Sisu Diesel 66CTA 6.6              | 1698   | 223 | MF290 RA Perkins 4236 diesel  | 1359   | 215 |
| MF 5200 Perkins / MWM 4, 6 cil              | 1600   | 219 | MF 7497 Sisu Diesel 74CTA 7.4              | 1698   | 223 | MF292                         | 1195   | 213 |
| MF 5200                                     | 1700   | 223 | MF 7499 Sisu Diesel 74.392CTA-4V 165kW 7.4 | 1698   | 223 | MF295                         | 1195   | 213 |
| MF 5275 Perkins Série 4.41 4.1              | 1622   | 220 | MF 8140 620DE                              | 1600   | 219 | MF296                         | 0024   | 176 |
| MF 5285 Perkins Série 4.41 4.1              | 1622   | 220 | MF 8150 620DS                              | 1600   | 219 | MF296                         | 1195   | 213 |
| MF 52902 Perkins Série 4.41 4.1             | 1622   | 220 | MF 8160 634DS                              | 1600   | 219 | MF296                         | 1359   | 215 |
| MF 5300 Perkins / MWM 4, 6 cil              | 1600   | 219 | MF 8160 634DS                              | 1698   | 223 | MF3366                        | 0024   | 176 |
| MF 5300 Perkins 1004 4T 4.0                 | 1622   | 220 | MF 8250 634DWE 7.4                         | 1698   | 223 | MF3366                        | 1359   | 215 |
| MF 5300                                     | 1700   | 223 | MF 8250 634DWE 7.4                         | 1600   | 219 | MF400                         | 0024   | 176 |
| MF 5310 Perkins 1004 4T 4.0                 | 1622   | 220 | MF 8280 645.142DSBIE 8.4                   | 1600   | 219 | MF400                         | 1195   | 213 |
| MF 5465 Sisu Diesel 66CTA 6 Cil             | 1698   | 223 | MF 8450 Sisu Diesel 6 Cil 7.4              | 1698   | 223 | MF400                         | 1359   | 215 |
| MF 5470 Sisu Diesel 44CTA 4 Cil 4.4         | 1698   | 223 | MF 8460 Sisu Diesel 6 Cil Tier III 7.4     | 1698   | 223 | MF487                         | 0302   | 183 |
| MF 5480 Sisu Diesel 49CTA 4 Cil 4.9         | 1698   | 223 | MF 8470 Sisu Diesel 6 Cil 8.4              | 1698   | 223 | MF487                         | 0661   | 194 |
| MF 5650 (Brasil) Sisu 620DS 6 Cil           | 1698   | 223 | MF 86HS Perkins 4.236 4.0                  | 1622   | 220 | MF507                         | 0302   | 183 |
|   |        |     | MF 9500 Séries Perkins A6.354              | 1616   | 220 | MF507                         | 0661   | 194 |
|   |        |     | MF 96 Perkins 4000 4.1                     | 1622   | 220 | MF50X                         | 0024   | 176 |
|   |        |     | MF-1205                                    | 9260   | 234 | MF50X                         | 1195   | 213 |
|   |        |     | MF-1220 Isekinouki 3-69 Diesel             | 9260   | 234 | MF510                         | 1359   | 215 |
|   |        |     | MF-1230                                    | 9260   | 234 | MF510                         | 0302   | 183 |
|   |        |     | MF-1235                                    | 9260   | 234 | MF520                         | 0661   | 194 |
|   |        |     |  |        |     | MF520                         | 0302   | 183 |
|   |        |     |  |        |     | MF520                         | 0661   | 194 |

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| MF525                    | 0302   | 183 | Trator MF3366                       | 0121          | 239        | Capella                                   | 0144          | 180        |
| MF525                    | 0661   | 194 | Trator MF400                        | 0118          | 179        | CX-7 L4 2.3L 2260cc                       | 1764          | 226        |
| MF55X                    | 0024   | 176 | Trator MF4780 (SSB-DN11)            | 0087          | 233        | CX5 L4 2.5 L                              | 1876          | 231        |
| MF55X                    | 1195   | 213 | Trator MF4780 com motor Scania DN11 | 0087          | 233        | Especial/Special                          | 0352          | 185        |
| MF55X                    | 1359   | 215 | Trator MF4780 com motor Scania DN11 | 0122          | 239        | Especial/Special                          | 0426          | 186        |
| MF65R                    | 0024   | 176 | Trator MF4780 com motor Scania DN11 | 0133          | 179        | Especial/Special                          | 0957          | 205        |
| MF65R                    | 1195   | 213 | Trator MF4780 com motor Scania DN11 | 0118          | 179        | Especial/Special                          | 12658         | 236        |
| MF65R                    | 1359   | 215 | Trator MF50X                        | 0118          | 179        | Especial/Special                          | 12659         | 236        |
| MF65X                    | 0024   | 176 | Trator MF55X                        | 0118          | 179        | Familia                                   | 0144          | 180        |
| MF65X                    | 1195   | 213 | Trator MF65R                        | 0118          | 179        | Luce                                      | 0144          | 180        |
| MF65X                    | 1359   | 215 | Trator MF65X                        | 0118          | 179        | Mazda B-2000                              | 1646          | 221        |
| MF85                     | 0034   | 176 | Trator MF65X                        | 0118          | 179        | MX 5 (Miata) 1.6 e 1.8                    | 0450          | 187        |
| MF85X                    | 0024   | 176 | Trator MF85X                        | 0118          | 179        | Pick Up 1000 1.2                          | 0144          | 180        |
| MF85X                    | 1195   | 213 | Trator MF86                         | 0118          | 179        | Proceed                                   | 0144          | 180        |
| MF85X                    | 1359   | 215 | Trator MF95                         | 0118          | 179        | SLX                                       | 0908          | 203        |
| MF86                     | 1195   | 213 | Trator MF95i                        | 0118          | 179        | Swaraj Mazda T3500                        | 1526          | 217        |
| MF87                     | 0302   | 183 | TX 45                               | 1616          | 220        | Tribute 2.3L                              | 1585          | 218        |
| MF87                     | 0661   | 194 | <b>Maxion</b>                       | <b>Nº ZEN</b> | <b>Pg.</b> | <b>MCCormick</b>                          | <b>Nº ZEN</b> | <b>Pg.</b> |
| MF95                     | 1195   | 213 | Ideal 9075 Perkins 1006-6 JF 12V    | 1690          | 223        | 80  | 1700          | 223        |
| MF95I                    | 0024   | 176 | Ideal 9090 Perkins 1006-6T JF 12V   | 1690          | 223        | Tele-Trac Sisu 44-CWA-2V 4.4              | 1698          | 223        |
| MF95I                    | 1195   | 213 | Ideal 9090 Perkins 1006-6TW JF 12V  | 1690          | 223        | <b>Mercedes Benz</b>                      | <b>Nº ZEN</b> | <b>Pg.</b> |
| MF95I                    | 1359   | 215 | Motor S4                            | 12684         | 240        | 0302-0352 Otobus                          | 0417          | 186        |
| MF95X                    | 0024   | 176 | Motores                             | 12682         | 240        | 10 T 1013                                 | 1073          | 210        |
| MF95X                    | 1359   | 215 | <b>Mazda</b>                        | <b>Nº ZEN</b> | <b>Pg.</b> | 1000                                      | 1073          | 210        |
| MX 720                   | 1698   | 223 | 2200 Pick-Up                        | 9791          | 235        | 1013A                                     | 1073          | 210        |
| MX 750                   | 1698   | 223 | 3 L4 2.5 L                          | 1876          | 231        | 1013S                                     | 1073          | 210        |
| Pick Up                  | 0118   | 179 | 3 L4 2.0L 1998cc 122cid VIN F       | 1764          | 226        | 1017                                      | 1073          | 210        |
| SC50                     | 0302   | 183 | 3 L4 2.0L 1998cc 122cid VIN G       | 1764          | 226        | 1017AF                                    | 0367          | 185        |
| SM6A                     | 0302   | 183 | 3 L4 2.0L 1999cc 122cid             | 1764          | 226        | 1017F                                     | 0367          | 185        |
| SM6B                     | 0302   | 183 | 3 L4 2.0L 1999cc 122cid VIN F       | 1764          | 226        | 108B                                      | 0015          | 176        |
| SM6C                     | 0302   | 183 | 3 L4 2.0L 1999cc 122cid VIN G       | 1764          | 226        | 11 T L1113B                               | 1073          | 210        |
| SM7                      | 0302   | 183 | 3 L4 2.0L 2000cc 122cid             | 1764          | 226        | 1100                                      | 1073          | 210        |
| SM8                      | 0302   | 183 | 3 L4 2.0L 2000cc 122cid VIN F       | 1764          | 226        | 1111 (OM321)                              | 0034          | 176        |
| SM8TU                    | 0302   | 183 | 3 L4 2.3L 2260cc                    | 1764          | 226        | 1113                                      | 0034          | 176        |
| Sprayer Sisu 620DS 6 Cil | 1698   | 223 | 3 L4 2.3L 2260cc 138cid             | 1764          | 226        | 1113B                                     | 0367          | 185        |
| Trator                   | 0085   | 178 | 323 1.3 e 1.5                       | 0450          | 187        | 12 T 1213                                 | 1073          | 210        |
| Trator                   | 0480   | 188 | 323 1.3 - 1.5 626/EGi               | 0475          | 188        | 1215 C                                    | 1038          | 208        |
| Trator Com Motor 4 cil.  | 12682  | 240 | 323 1.3 e 1.5 8T                    | 0871          | 202        | 1217                                      | 1073          | 210        |
| Trator 6270              | 1693   | 223 | 323                                 | 0874          | 202        | 1217AF                                    | 0367          | 185        |
| Trator 6280              | 1693   | 223 | 323                                 | 0908          | 203        | 124                                       | 1071          | 210        |
| Trator 6290              | 1693   | 223 | 5 L4 2.3L 2260cc                    | 1764          | 226        | 1250                                      | 1073          | 210        |
| Trator com Motor Perkins | 1693   | 223 | 5 L4 2.3L 2260cc 138cid             | 1764          | 226        | 1300 Turbo                                | 1073          | 210        |
| Trator Maxion 9150       | 0118   | 179 | 6 L4 2.5 L                          | 1876          | 231        | 1313                                      | 0034          | 176        |
| Trator Maxion 9110       | 0118   | 179 | 6 2.3L Non-Turbo, Gas (L3)          | 1764          | 226        | 1316                                      | 0034          | 176        |
| Trator Maxion 9130       | 0118   | 179 | 6 L4 2.3L 2260cc                    | 1764          | 226        | 1319                                      | 0218          | 233        |
| Trator Maxion 9170       | 0118   | 179 | 6 L4 2.3L 2260cc 138cid             | 1764          | 226        | 1320                                      | 0218          | 233        |
| Trator MF                | 0182   | 180 | 6 L4 2.3L 2260cc w/Turbo            | 1764          | 226        | 1350                                      | 1073          | 210        |
| Trator MF265             | 0118   | 179 | 6 L4 2.3L 2260cc w/Turbo            | 1764          | 226        | 13T 1313                                  | 1073          | 210        |
| Trator MF270             | 0118   | 179 | 6 L4 2.5L 2488cc 152cid             | 1764          | 226        | 14 T 1413                                 | 1073          | 210        |
| Trator MF275             | 0118   | 179 | 626                                 | 0671          | 195        | 1400 Turbo                                | 1073          | 210        |
| Trator MF275/4           | 0118   | 179 | 626SL                               | 0908          | 203        | 1417                                      | 1073          | 210        |
| Trator MF285             | 0118   | 179 | B Séries Pick Up 2.3L               | 1585          | 218        | 1418                                      | 0218          | 233        |
| Trator MF290             | 0118   | 179 | B1600                               | 0874          | 202        | 1418 R Com motores OM 364 e OM 366 em 12V | 1112          | 211        |
| Trator MF292             | 0118   | 179 | B2200                               | 0874          | 202        | 1418R OM 364 e OM 366 em 12V. 29MT        | 12957         | 236        |
| Trator MF295             | 0118   | 179 | B2200                               | 0947          | 205        | 1418R OM 364 e OM 366 em 12V. 29MT        | 12961         | 236        |
| Trator MF295/4           | 0118   | 179 | B2200                               | 1722          | 224        |   |               |            |
| Trator MF296             | 0118   | 179 | B2500D                              | 1024          | 208        |   |               |            |
| Trator MF296/4           | 0118   | 179 |                                     |               |            |   |               |            |

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| 1419                                      | 0218   | 233 | 1843L         | 0920   | 204 | 2035A                                | 0920   | 204 |
| 1420                                      | 0218   | 233 | 1848          | 0920   | 204 | 2036LS                               | 0920   | 204 |
| 1425                                      | 0218   | 233 | 1848 AK       | 0920   | 204 | 2040                                 | 0920   | 204 |
| 1425 S                                    | 0218   | 233 | 1848L         | 0920   | 204 | 2040A                                | 0920   | 204 |
| 1450                                      | 1073   | 210 | 1853          | 0920   | 204 | 2053                                 | 0920   | 204 |
| 1500                                      | 1073   | 210 | 1853L         | 0920   | 204 | 207D                                 | 0228   | 182 |
| 1513                                      | 0034   | 176 | 1857L         | 0920   | 204 | 208                                  | 0108   | 179 |
| 1516                                      | 0034   | 176 | 190           | 0482   | 188 | 208D                                 | 0572   | 191 |
| 1517                                      | 0218   | 233 | 190           | 0857   | 202 | 209D                                 | 0228   | 182 |
| 1518                                      | 0218   | 233 | 190 1.8       | 1619   | 220 | 2100                                 | 1073   | 210 |
| 1519                                      | 0218   | 233 | 190 2.0       | 1619   | 220 | 210D                                 | 0572   | 191 |
| 1520                                      | 0218   | 233 | 190 2.0 E     | 1619   | 220 | 2150                                 | 1073   | 210 |
| 1524                                      | 0218   | 233 | 190 2.3 E     | 1619   | 220 | 220                                  | 0080   | 178 |
| 1525                                      | 0218   | 233 | 190 2.5 16V   | 1619   | 220 | 220                                  | 0108   | 179 |
| 1550                                      | 1073   | 210 | 190 (W201)    | 1886   | 232 | 220                                  | 0139   | 180 |
| 15T 1513                                  | 1073   | 210 | 190B          | 0015   | 176 | 220 L4 2.2L 2197cc 134cid gasolina   | 0221   | 181 |
| 16 T 1613                                 | 1073   | 210 | 190C          | 0080   | 178 | 220 L4 2.2L 2197cc gasolina          | 0221   | 181 |
| 1600 Turbo                                | 1073   | 210 | 190D 2.2, 2.5 | 0572   | 191 | 220                                  | 0307   | 183 |
| 1617                                      | 1073   | 210 | 190DB         | 0028   | 176 | 220B                                 | 0227   | 182 |
| 1622                                      | 0218   | 233 | 190E          | 0482   | 188 | 220D L4 2.2L 2197cc 134cid gasolina  | 0221   | 181 |
| 1625                                      | 0624   | 193 | 190E          | 0492   | 189 | 220D L4 2.2L 2197cc gasolina         | 0221   | 181 |
| 1630                                      | 0624   | 193 | 190E          | 0857   | 202 | 220D                                 | 0228   | 182 |
| 1632L                                     | 1205   | 213 | 1922          | 0920   | 204 | 220D                                 | 0319   | 184 |
| 1632LS                                    | 1205   | 213 | 1924          | 0218   | 233 | 220SB                                | 0227   | 182 |
| 1634LS                                    | 1205   | 213 | 1928          | 0920   | 204 | 220SEB                               | 0227   | 182 |
| 1650                                      | 1073   | 210 | 1928L         | 0920   | 204 | 2213 (OM352)                         | 0034   | 176 |
| 170 SD y 180 SD Arr. Bosch Caz. Grande    | 0709   | 196 | 1929          | 0218   | 233 | 2216 (OM352A)                        | 0034   | 176 |
| 1700                                      | 1073   | 210 | 1932          | 0218   | 233 | 2219                                 | 0218   | 233 |
| 1720 Com motores OM 364 e OM 366 em 12V   | 1112   | 211 | 1933          | 0218   | 233 | 2220                                 | 0218   | 233 |
| 1720 OM 364 e OM 366 em 12V. 29MT         | 12957  | 236 | 1933          | 0920   | 204 | 2222                                 | 0218   | 233 |
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| 2543L                                 | 0920   | 204 | 280SL L6 2.8L 2778cc gasolina         | 0221   | 181 | 380SEL V8 3.8L 3839cc gasolina         | 0221   | 181 |
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| Caminhões 712C, 715, 714C, 915C, 1215, 1218EL, 1218L, 1418 EL, 1418L, 1718, 1725  | 1805   | 228 | Chassi p/ Ônibus OF/OH 1316 com motor M366G                        | 0105   | 179 | E 420 T- Modell  | 0630   | 193 |
| Caminhões Família Accelo: 815 e 1016 Com Motor eletrônico 24V OM 924 LA - Euro V  | 1679   | 222 | Chassi p/ Ônibus OF/OH O364 com motor M366G                        | 0105   | 179 | E 500  | 0630   | 193 |
| Caminhões Família Accelo: 815 e 1016 Com Motor eletrônico 24V OM 924 LA - Euro V  | 1805   | 228 | Chassi p/ Ônibus OF/OH O371U com motor M366G                       | 0105   | 179 | E 500 Coupe  | 0630   | 193 |
| Caminhões Família Atron 1635 Com motor eletrônico 24V OM 457 LA - Euro V  | 13119  | 237 | Chassi p/ Ônibus OH1419  | 0122   | 239 | E 500 SEC / S500   | 0630   | 193 |
| Caminhões Família Atron: 1319, 2324, 2729K (Basculante), 2729B (Betoneira) e 2729 Com Motores eletrônicos 24V OM 924 LA e OM 926 LA -Euro V | 1679   | 222 | Chassi p/ Ônibus OH1419  | 0133   | 179 | E 500 SEC Coupe  | 0630   | 193 |
| Caminhões Família Atron: 1319, 2324, 2729K (Basculante), 2729B (Betoneira) e 2729 Com Motores eletrônicos 24V OM 924 LA e OM 926 LA -Euro V | 1805   | 228 | Chassi p/ Ônibus OH1419  | 0218   | 233 | E 560 SEL  | 0630   | 193 |
| Chassi de ônibus LO 914, 0500M, 0500U, 0500R, OF 1417, OF1418, OF 1518, OF 1721, Com Motores eletrônicos 24V OM 904, OM 906, OM 924 eOM 926 | 1679   | 222 | Chassi para Ônibus 1313, 1315, 1316, O364, O371U Com motor M366G   | 1364   | 215 | E200 Kompressor - V200 - V230  | 1619   | 220 |
| Chassi de ônibus LO 914, 0500M, 0500U, 0500R, OF 1417, OF1418, OF 1518, OF 1721, Com Motores eletrônicos 24V OM 904, OM 906, OM 924 eOM 926 | 1805   | 228 | Chassi para Ônibus OF/OH 1113, 1115, Com motor M366G               | 1364   | 215 | E280   | 1031   | 208 |
| Chassi p/ Ônibus 1420   | 0122   | 239 | Citaro   | 1038   | 208 | E300   | 1031   | 208 |
| Chassi p/ Ônibus 1420   | 0133   | 179 | Class C, E, M, S, V, CLK   | 1458   | 215 | E320   | 1031   | 208 |
| Chassi p/ Ônibus 1420   | 0218   | 233 | Classe A190  | 1469   | 215 | E320 3.2L - 3199cc   | 1485   | 216 |
| Chassi p/ Ônibus 1517   | 0122   | 239 | Classe A   | 1469   | 215 | Econic   | 1038   | 208 |
| Chassi p/ Ônibus 1517   | 0133   | 179 | Classe A - A100  | 1471   | 215 | Especial/Special   | 0438   | 187 |
| Chassi p/ Ônibus 1517   | 0218   | 233 | Classe A - A160  | 1471   | 215 | Especial/Special   | 0440   | 187 |
| Chassi p/ Ônibus 1518   | 0122   | 239 | Classe A 140 - 160   | 1752   | 226 | Especial/Special   | 0985   | 206 |
| Chassi p/ Ônibus 1518   | 0133   | 179 | Classe A 160 CDI e 170 CDI   | 1031   | 208 | Especial/Special   | 1076   | 210 |
| Chassi p/ Ônibus 1518   | 0218   | 233 | Classe A 160 CDI e 170 CDI   | 1037   | 208 | Especial/Special   | 1111   | 233 |
| Chassi p/ Ônibus O364   | 0122   | 239 | Classe C (W202)  | 1886   | 232 | Família Atego (1315, 1418, 1518, 1718, 1725, 2425), L1318, 2423B,2423K, L1620  | 1679   | 222 |
| Chassi p/ Ônibus O364   | 0133   | 179 | Classe C (W203)  | 1886   | 232 | Família Atego (1315, 1418, 1518, 1718, 1725, 2425), L1318, 2423B,2423K, L1620  | 1805   | 228 |
| Chassi p/ Ônibus O364   | 0218   | 233 | Classe E (W124)  | 1886   | 232 | Família Atego 1315,1418,1518,1718,1725,2425 24V OM 904,OM 906,OM 924 e OM 926  | 0985   | 206 |
| Chassi p/ Ônibus O370   | 0122   | 239 | Classe G (W460)  | 1886   | 232 | Família Atego L1318,2423B,2423K,L1620 Chassi de ônibus 24V OM 904,OM 906,OM 924 e OM 926                                     | 0985   | 206 |
| Chassi p/ Ônibus O370   | 0133   | 179 | CLK 200 - Kompressor   | 1619   | 220 | Família Atego LO 914,0500M,0500U,0500R,OF 1417,OF1418,OF 1518,OF 1721,OF 1722 24V OM 904,OM 906,OM 924 e OM 926              | 0985   | 206 |
|   |        |     | CLK 230 - Kompressor   | 1619   | 220 | Fora de estrada 3340 (6x4), 3344 (6x4), 4140 (6x4) e 4144 (6x4)  | 13119  | 237 |
|   |        |     | CLK 320 Coupe  | 0976   | 206 | Fora de Estrada Família Axor: 2831K (Basculante), 2831B (Betoneira) e 2831P (Pla Com Motor eletrônico 24V OM 926 LA - Euro V | 1679   | 222 |
|   |        |     | CLK320 3.2L - 3199cc   | 1485   | 216 | Fora de Estrada Família Axor: 2831K (Basculante), 2831B (Betoneira) e 2831P (Pla Com Motor eletrônico 24V OM 926 LA - Euro V | 1805   | 228 |
|   |        |     | D206   | 0228   | 182 | Fora de Estrada Família Axor: 3341 K,S,P, 3344K,S,P, 4141K e 4144 K Com motor eletrônico 24V OM 457 LA - Euro V              | 13119  | 237 |
|   |        |     | D206   | 0319   | 184 |  |        |     |
|   |        |     | D306   | 0228   | 182 |  |        |     |
|   |        |     | Demais aplicações com Turbo Brake,exceto Plataforma O 400 mecânico | 1205   | 213 |  |        |     |
|   |        |     | DG206  | 0228   | 182 |  |        |     |
|   |        |     | DG206  | 0319   | 184 |  |        |     |
|   |        |     | DG306  | 0228   | 182 |  |        |     |
|   |        |     | E 190 2.3  | 0925   | 204 |  |        |     |
|   |        |     | E 200  | 0961   | 206 |  |        |     |
|   |        |     | E 200 2.0, 65KW - Diesel   | 1057   | 209 |  |        |     |
|   |        |     | E 220 2.2, 70KW - Diesel   | 1057   | 209 |  |        |     |
|   |        |     | E 250 2.5, 83KW - Diesel   | 1057   | 209 |  |        |     |
|   |        |     | E 250 T 2.5, 83KW - Diesel   | 1057   | 209 |  |        |     |

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| K6  | 1740   | 225 | L911 OM325  | 0441   | 187 | Motor Estacionário, gerador, industrial e marítimo O371 OM355-5A, 6A, 6LA | 0122   | 239 |
| Kombi Espanhola                           | 12682  | 240 | LA 1113 OM 352  | 1691   | 223 | Motor Estacionário, gerador, industrial e marítimo O371 OM355-5A, 6A, 6LA | 0218   | 233 |
| L 1113 OM 352                             | 1691   | 223 | LA 1117 OM 352 A  | 1691   | 223 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0122   | 239 |
| L 1116 OM 352 A                           | 1691   | 223 | LA1113  | 0497   | 189 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L 1117 OM 352 A                           | 1691   | 223 | LA1117  | 0497   | 189 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L 1117 OM 366 LA 8                        | 1691   | 223 | LB2325  | 0622   | 193 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L 1316 OM 352 A                           | 1691   | 223 | LG1825  | 0622   | 193 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L 1317 OM 352 A                           | 1691   | 223 | LK2325  | 0622   | 193 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L 1319 OM 366 LA                          | 1691   | 223 | LKO1113B  | 1073   | 210 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L 1516 OM 352 A                           | 1691   | 223 | LO 0814 Com motores OM 364 e OM 366 em 12V                                  | 1112   | 211 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L 1620 Com motores OM 364 e OM 366 em 12V | 1112   | 211 | LO 814 OM 364 e OM 366 em 12V. 29MT   | 12957  | 236 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L 1620 OM 364 e OM 366 em 12V. 29MT       | 12957  | 236 | LO 814 OM 364 e OM 366 em 12V. 29MT   | 12961  | 236 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L 1620 OM 364 e OM 366 em 12V. 29MT       | 12961  | 236 | LO812   | 1364   | 215 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1112 OM352                               | 0441   | 187 | LP 1219 OM 366 LA   | 1691   | 223 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1113                                     | 0497   | 189 | LP 1419 OM 366 LA   | 1691   | 223 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1114 OM358                               | 0441   | 187 | LP1013  | 0367   | 185 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1116                                     | 0497   | 189 | LP1013  | 1073   | 210 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1117                                     | 0497   | 189 | LP1113  | 0367   | 185 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1218                                     | 1038   | 208 | LP1113  | 1073   | 210 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1316                                     | 0497   | 189 | LP1219 com motor Cummins 6BT 5.9 lts  | 0497   | 189 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1317                                     | 0497   | 189 | LP1419 com motor Cummins 6BT 5.9 lts  | 0497   | 189 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1418                                     | 1038   | 208 | LP608   | 0034   | 176 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1516                                     | 0497   | 189 | LP709   | 0367   | 185 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1618 M                                   | 1038   | 208 | LP808   | 0034   | 176 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1622                                     | 1038   | 208 | LP809   | 0367   | 185 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L1625                                     | 0622   | 193 | LP813   | 0367   | 185 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L206                                      | 0223   | 181 | LP813   | 0367   | 185 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L206                                      | 0228   | 182 | LP913   | 0367   | 185 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L206                                      | 0319   | 184 | LPK1113   | 1073   | 210 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L207                                      | 0223   | 181 | LPS1113B  | 1073   | 210 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L207                                      | 0361   | 185 | LS1625  | 0622   | 193 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L2325                                     | 0622   | 193 | LS1630  | 0622   | 193 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L2423                                     | 1038   | 208 | LS1935  | 0622   | 193 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L2635                                     | 0622   | 193 | LS1941  | 0622   | 193 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L306                                      | 0223   | 181 | Marcopolo   | 0497   | 189 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L306                                      | 0228   | 182 | MB 180D   | 12682  | 240 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L306D                                     | 0319   | 184 | MBL1319 com motor Cummins 6BT 5.9 lts                                       | 0497   | 189 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L306DG                                    | 0319   | 184 | Micro ônibus L608D (OM314)  | 0034   | 176 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L307                                      | 0223   | 181 | ML 270 CDI  | 1629   | 220 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L307                                      | 0361   | 185 | ML320 3.2L - 3199cc   | 1485   | 216 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L319D                                     | 0028   | 176 | ML350 3.7L - 3724cc   | 1485   | 216 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L405                                      | 0028   | 176 | Motor Cummins 6B Eletrônico 5.9   | 1604   | 219 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L406                                      | 0028   | 176 | Motor Estacionário, gerador, industrial e marítimo OM314                    | 0133   | 179 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L406DG                                    | 0319   | 184 | Motor Estacionário, gerador, industrial e marítimo OM352                    | 0133   | 179 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L407D                                     | 0228   | 182 | Motor Estacionário, gerador, industrial e marítimo OM352A                   | 0133   | 179 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L407D                                     | 0319   | 184 | Motor Estacionário, gerador, industrial e marítimo O370 OM355-5, 6, 6A, 6LA | 0218   | 233 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L408DG                                    | 0034   | 176 | Motor Estacionário, gerador, industrial e marítimo O370 OM352               | 0218   | 233 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L408DG                                    | 0367   | 185 | Motor Estacionário, gerador, industrial e marítimo O370 OM352               | 0218   | 233 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L408G                                     | 0080   | 178 | Motor Estacionário, gerador, industrial e marítimo O370 OM355-5, 6, 6A, 6LA | 0218   | 233 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L410                                      | 0857   | 202 | Motor Estacionário, gerador, industrial e marítimo O370 OM352               | 0218   | 233 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L508D                                     | 1073   | 210 | Motor Estacionário, gerador, industrial e marítimo O370 OM352               | 0218   | 233 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L508G                                     | 0034   | 176 | Motor Estacionário, gerador, industrial e marítimo O370 OM352A              | 0218   | 233 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L608 OM314                                | 0441   | 187 | Motor Estacionário, gerador, industrial e marítimo O370 OM355-5, 6, 6A, 6LA | 0122   | 239 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L608D                                     | 1073   | 210 | Motor Estacionário, gerador, industrial e marítimo O370 OM355-5, 6, 6A, 6LA | 0122   | 239 | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |
| L608DG                                    | 0034   | 176 |   |        |     | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5         | 0218   | 233 |



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| O371UP   | 0624   | 193 | Ônibus O371  | 0122   | 239 | Sprinter 214                    | 1619   | 220 |
| O371UP (OM355-5)   | 0624   | 193 | Ônibus O371UP  | 0122   | 239 | Sprinter 216                    | 1629   | 220 |
| O400R  | 0624   | 193 | Ônibus O917  | 0118   | 179 | Sprinter 308 2.3, 58KW - Diesel | 1057   | 209 |
| O400RS   | 0624   | 193 | Ônibus OF 1113   | 0118   | 179 | Sprinter 308 D                  | 1031   | 208 |
| O400RSD  | 0624   | 193 | Ônibus OH1113  | 0118   | 179 | Sprinter 308 D                  | 1037   | 208 |
| O400RSL (OM 449A)  | 0624   | 193 | Ônibus Rodoviário O500M 1826<br>BUGGY e O500R 1830 Com Motor<br>eletrônico OM926 LA - Euro V   | 1679   | 222 | Sprinter 310 Diesel             | 0657   | 194 |
| OF 1113 OM 366 JF 12V  | 1690   | 223 | Ônibus Rodoviário O500M 1826<br>BUGGY e O500R 1830 Com Motor<br>eletrônico OM926 LA - Euro V   | 1805   | 228 | Sprinter 310 2.9, 75KW - Diesel | 1057   | 209 |
| OF 1721 Com motores OM 364 e OM<br>366 em 12V  | 1112   | 211 | Ônibus Rodoviário O500M 1826<br>BUGGY e O500R 1830 Com Motor<br>eletrônico OM926 LA - Euro V   | 13119  | 237 | Sprinter 312 2.9, 90KW - Diesel | 1057   | 209 |
| OF 1722  | 1205   | 213 | Ônibus Rodoviário: O500 RS 1836 e<br>O500 RSD 2436 6x2 Com motor<br>eletrônico OM457 LA - Euro V                                       | 1679   | 222 | Sprinter 312 D                  | 1031   | 208 |
| OF1113   | 1073   | 210 | Ônibus Urbano OF1519,OF1721,<br>OF1724, O500M 1826, O500U 1826<br>Com Motores eletrônicos 24V OM 924<br>LA eOM 926 LA - Euro V         | 1805   | 228 | Sprinter 312 D                  | 1037   | 208 |
| OH 1113 OM 366 A JF 12V  | 1690   | 223 | Ônibus Urbano OF1519,OF1721,<br>OF1724, O500M 1826, O500U 1826<br>Com Motores eletrônicos 24V OM 924<br>LA eOM 926 LA - Euro V         | 13119  | 237 | Sprinter 314                    | 1619   | 220 |
| OH 1420 Com motores OM 364 e OM<br>366 em 12V  | 1112   | 211 | Ônibus Urbano OF1519,OF1721,<br>OF1724, O500M 1826, O500U 1826<br>Com Motores eletrônicos 24V OM 924<br>LA eOM 926 LA - Euro V         | 1805   | 228 | Sprinter 316                    | 1629   | 220 |
| OH 1621L Com motores OM 364 e<br>OM 366 em 12V   | 1112   | 211 | Ônibus Urbano OF1519,OF1721,<br>OF1724, O500M 1826, O500U 1826<br>Com Motores eletrônicos 24V OM 924<br>LA eOM 926 LA - Euro V         | 13119  | 237 | Sprinter 316                    | 1629   | 220 |
| OH 1623 Com motores OM 364 e OM<br>366 em 12V  | 1112   | 211 | Ônibus Urbano OF1519,OF1721,<br>OF1724, O500M 1826, O500U 1826<br>Com Motores eletrônicos 24V OM 924<br>LA eOM 926 LA - Euro V         | 1805   | 228 | Sprinter 408 2.3, 58KW - Diesel | 1057   | 209 |
| OH 1628L   | 1205   | 213 | Ônibus Urbano OF1519,OF1721,<br>OF1724, O500M 1826, O500U 1826<br>Com Motores eletrônicos 24V OM 924<br>LA eOM 926 LA - Euro V         | 1679   | 222 | Sprinter 408D                   | 1031   | 208 |
| OM 314 3.8 4cil Diesel   | 0603   | 192 | Ônibus Urbano OF1519,OF1721,<br>OF1724, O500M 1826, O500U 1826<br>Com Motores eletrônicos 24V OM 924<br>LA eOM 926 LA - Euro V         | 1805   | 228 | Sprinter 408D                   | 1037   | 208 |
| OM 352   | 0603   | 192 | Ônibus Urbano: O500 MA 2836 e<br>O500 UA 2836 Com motor eletrônico<br>OM457 LA - Euro V  | 13119  | 237 | Sprinter 410 2.9, 75KW - Diesel | 1057   | 209 |
| OM 355   | 0603   | 192 | Plataformas O 400RSD e SRE   | 1205   | 213 | Sprinter 410 D                  | 1031   | 208 |
| OM 3555, 3556, 3556A, 3356LA, 3555<br>Série BR400  | 0624   | 193 | Rodoviário Família Axor 1933 e 2533<br>Com Motor eletrônico 24V OM 926 LA<br>- Euro V  | 1679   | 222 | Sprinter 410 D                  | 1037   | 208 |
| OM314  | 0034   | 176 | Rodoviário Família Axor 1933 e 2533<br>Com Motor eletrônico 24V OM 926 LA<br>- Euro V  | 1805   | 228 | Sprinter 412 2.9, 90KW - Diesel | 1057   | 209 |
| OM321  | 0034   | 176 | Rodoviário Família Axor: 2036<br>Estradeiro, 2036 Multiuso, 2041<br>Estradeiro, 2041 Mu Com motor<br>eletrônico 24V OM 457 LA - Euro V | 13119  | 237 | Sprinter 412D                   | 1031   | 208 |
| OM321  | 0035   | 233 | S 320 CDI  | 1629   | 220 | Sprinter 412D                   | 1037   | 208 |
| OM321 marítimo 1959 ED   | 0034   | 176 | S 420  | 0630   | 193 | Sprinter 414 2.3                | 1619   | 220 |
| OM324  | 0034   | 176 | S 500  | 0630   | 193 | Sprinter 416 CDI                | 1629   | 220 |
| OM324  | 0035   | 233 | S280   | 1031   | 208 | Sprinter com motor Maxion HS    | 12682  | 240 |
| OM324 marítimo 1961 ED   | 0034   | 176 | S321   | 1031   | 208 | Still Fork Lifts                | 1180   | 212 |
| OM326  | 0034   | 176 | Série 9 T - 917 OM 366 A JF 12V  | 1690   | 223 | Trator MB1000                   | 0367   | 185 |
| OM326  | 0035   | 233 | SL 500   | 0630   | 193 | Trator MB1300                   | 0367   | 185 |
| OM326 marítimo 1963  | 0034   | 176 | SLK32 3.2L - 3199cc  | 1485   | 216 | Tratores                        | 0378   | 185 |
| OM352  | 0034   | 176 | SLK320 3.2L - 3199cc   | 1485   | 216 | Tratores                        | 0440   | 187 |
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| OM449A   | 0920   | 204 | Sprinter Maxion HS   | 0916   | 204 | U1200                           | 0367   | 185 |
| Ônibus   | 0025   | 176 | Sprinter   | 1023   | 208 | U1213                           | 0367   | 185 |
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| Lynx XR3 L4 1.9 gasolina           | 0455          | 188        | Fuso Canter 30                     | 12812  | 236 | Wheel Loader S4E            | 12812         | 236        |
| Mariner 2.3L (140) L4              | 1585          | 218        | Fuso Canter 31                     | 12812  | 236 | <b>Morris</b>               | <b>Nº ZEN</b> | <b>Pg.</b> |
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| 25 HP Engines                      | 1453          | 215        | Fuso Canter 4DRS                   | 12812  | 236 | <b>Mosa</b>                 | <b>Nº ZEN</b> | <b>Pg.</b> |
| 30 - 60 HP 4 Stroke                | 1453          | 215        | Galant 1.6 com motor 4G5           | 0144   | 180 | Especial/Special            | 1065          | 209        |
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| Carisma 1.6 e 1.8                  | 1839          | 230        | Pajero                             | 1563   | 218 | MD940                       | 0304          | 183        |
| Celeste 1.6 com motor 4G5          | 0144          | 180        | Pajero 2.8                         | 1563   | 218 | MD942                       | 0304          | 183        |
| Celeste com motor GP 25/30         | 0450          | 187        | Pajero 2.5 td                      | 1567   | 218 | MD945                       | 0304          | 183        |
| Colt 1.2 com motor 4G5             | 0144          | 180        | Pajero 3.0 - 3.5 - 3.8             | 1706   | 224 | MD950                       | 0304          | 183        |
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| E2500 Diesel XA                    | 1046          | 208        | Pajero III 2.5 TDI                 | 1607   | 219 | MD960                       | 0304          | 183        |
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| E3000                              | 12812         | 236        | Pajero Sport 2.5 TD                | 1607   | 219 | MD968                       | 0304          | 183        |
| Eclipse 2.0T                       | 0595          | 192        | Pajero TR4                         | 1706   | 224 | MD969                       | 0304          | 183        |
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| Trator RT 82 MWM 229.3  | 0496          | 189        | Caminhões Paystar com motor MaxxForce         | 13118         | 237        | 5000                          | 1616   | 220 |
| Trator RT 82H MWM 229.3   | 0105          | 179        | Caminhões Prostar com motor Cummins ISX/Cat   | 1811          | 229        | 550                           | 1616   | 220 |
| Trator TR 62 MWM 229.3  | 0496          | 189        | Caminhões Prostar com motor Cummins ISX/Cat.  | 1810          | 228        | 555                           | 1616   | 220 |
| Trator VAP 55 MWM 229.3   | 0105          | 179        | Caminhões Prostar com motor MaxxForce         | 13118         | 237        | 5600 motor diesel 4 cil       | 0024   | 176 |
| <b>MWM</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | Caminhões Transtar com motor Cummins ISX/Cat  | 1811          | 229        | 5600                          | 1616   | 220 |
| D225  | 0366          | 185        | Caminhões Transtar com motor MaxxForce        | 13118         | 237        | 5610 motor diesel 4 cil       | 0024   | 176 |
| D225-6  | 1364          | 215        | Caminhões Transtar com motor Cummins ISX/Cat  | 1811          | 229        | 5610                          | 1616   | 220 |
| D2253   | 0028          | 176        | Caminhões Transtar com motor Cummins ISX/Cat. | 1810          | 228        | 5640 Powerstar                | 1616   | 220 |
| D2254   | 0028          | 176        | Caminhões Transtar com motor MaxxForce        | 13118         | 237        | 5700                          | 1616   | 220 |
| D22546  | 0367          | 185        | Caminhões Workstar com motor DT466            | 1809          | 228        | 5900                          | 1616   | 220 |
| D2262   | 0366          | 185        | Especial/Special                              | 0303          | 183        | 620 Combine                   | 1616   | 220 |
| D2263   | 0366          | 185        | Ônibus 4700 Com Motor MWM 4.8L euro II y III  | 1679          | 222        | 622 Combine                   | 1616   | 220 |
| D22646  | 0367          | 185        | Ônibus 4700 Com Motor MWM 4.8L euro II y III  | 1805          | 228        | 654 County                    | 1616   | 220 |
| D229-4  | 1364          | 215        | <b>New Holland</b>                            | <b>Nº ZEN</b> | <b>Pg.</b> | 655 A                         | 1616   | 220 |
| D229-6  | 1364          | 215        | 1000 2-77 Shibaura Diesel                     | 0684          | 195        | 6600 motor diesel 4 cil       | 0024   | 176 |
| D2293   | 0028          | 176        | 1426 Caterpillar Engines                      | 0649          | 194        | 6600                          | 1616   | 220 |
| D2293   | 0085          | 178        | 1426 Perkins Engines                          | 0649          | 194        | 6610 motor diesel 4 cil       | 0024   | 176 |
| D2294   | 0085          | 178        | 1495 Perkins Engines                          | 0649          | 194        | 6610                          | 1616   | 220 |
| D2296   | 0085          | 178        | 1500 2cyl Shibaura Diesel                     | 0684          | 195        | 6700                          | 1616   | 220 |
| D3254   | 0367          | 185        | 158   | 1616          | 220        | 6710                          | 1616   | 220 |
| D3272   | 0366          | 185        | 1600 2-77 Shibaura Diesel                     | 0684          | 195        | 6810                          | 1616   | 220 |
| D3273   | 0366          | 185        | 1700 2-78 Shibaura Diesel                     | 0684          | 195        | 7000                          | 1616   | 220 |
| D32746  | 0367          | 185        | 175   | 1616          | 220        | 7410                          | 1616   | 220 |
| Diter D302  | 0838          | 201        | 2000  | 1616          | 220        | 754 County                    | 1616   | 220 |
| Diter D325  | 0838          | 201        | 201   | 1616          | 220        | 7600                          | 1616   | 220 |
| Diter D889  | 0838          | 201        | 2514 E 256 C.I                                | 1616          | 220        | 7610 motor diesel 4 cil       | 0024   | 176 |
| Diter D890  | 0838          | 201        | 256   | 1616          | 220        | 7610                          | 1616   | 220 |
| Diter D900  | 0838          | 201        | 2600  | 1616          | 220        | 7630 (plat) NEF TC 78kW 4Cil  | 1700   | 223 |
| Diter D989  | 0838          | 201        | 2610  | 1616          | 220        | 764 County                    | 1616   | 220 |
| Especial/Special  | 1111          | 233        | 2810  | 1616          | 220        | 7700                          | 1616   | 220 |
| Especial/Special 4 e 6 cil.   | 12684         | 240        | 2910  | 1616          | 220        | 7710                          | 1616   | 220 |
| F250 Motor 6.07TCA  | 1022          | 208        | 3000  | 1616          | 220        | 774 County                    | 1616   | 220 |
| Motor 4 cil   | 0772          | 198        | 3230 BSD332                                   | 1616          | 220        | 7810                          | 1616   | 220 |
| Motor 06CL Sprint (GM Silverado)                                      | 0991          | 206        | 3310 01.91                                    | 1616          | 220        | 7910                          | 1616   | 220 |
| Motor 4.10T, 6.10T  | 1372          | 215        | 3310X4 01.91                                  | 1616          | 220        | 8000                          | 1616   | 220 |
| Motor 410T, 610T  | 0748          | 197        | 3430  | 1616          | 220        | 8030 (plat) NEF TAA 90kW 4Cil | 1700   | 223 |
| Motor D2256   | 0034          | 176        | 3600  | 1616          | 220        | 8200                          | 1616   | 220 |
| Motor D2256   | 0105          | 179        | 3610  | 1616          | 220        | 8260 Powerstar 7.5            | 1616   | 220 |
| Motor D2293   | 0496          | 189        | 3900  | 1616          | 220        | 8530                          | 1616   | 220 |
| Motor D2294   | 0105          | 179        | 3910  | 1616          | 220        | 8600                          | 1616   | 220 |
| Motor D2296   | 0105          | 179        | 3910 H  | 1616          | 220        | 8630                          | 1616   | 220 |
| Motor D232  | 0133          | 179        | 3930 H  | 1616          | 220        | 8700                          | 1616   | 220 |
| Motor marítimo D232 V6/V8 1970 ED e V12 T/TD 1970 ED 12 e 24 OM232 V  | 0218          | 233        | 4000  | 1616          | 220        | 8830                          | 1616   | 220 |
| Motor marítimo TD232 V6/V8 1970 ED e V12 T/TD 1970 ED 12 e 24 OM232 V | 0218          | 233        | 401C.I  | 1616          | 220        | 9000                          | 1616   | 220 |
| Motor TD2296  | 0105          | 179        | 4100  | 1616          | 220        | 910 Speed Power               | 1616   | 220 |
| Motor TD232   | 0133          | 179        | 4130 H 4.4                                    | 1616          | 220        | 912 Speed Power               | 1616   | 220 |
| Motores D e TD 232 6V, 8V, 12V  | 0122          | 239        | 444 01.91                                     | 1616          | 220        | 944 County                    | 1616   | 220 |
| TD2266  | 0367          | 185        | 4600 motor diesel 4 cil                       | 0024          | 176        | 9600                          | 1616   | 220 |
| TD229-6   | 1364          | 215        | 4600  | 1616          | 220        | 964 County                    | 1616   | 220 |
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| Caminhões Durastar com motor DT466                                    | 1809          | 228        | 4610  | 1616          | 220        | 974 County                    | 1616   | 220 |
| Caminhões Durastar com motor MaxxForce                                | 13118         | 237        | 4630  | 1616          | 220        | BSD442                        | 1616   | 220 |
| Caminhões Paystar com motor Cummins ISX/Cat                           | 1811          | 229        | Colheitadeira FNH 8040 MBB-OM352              | 0105          | 179        | Colheitadeira FNH 8040        | 1638   | 221 |
| Caminhões Paystar com motor Cummins ISX/Cat                           | 1810          | 228        | Colheitadeira FNH 8055 MBB-OM352A             | 0105          | 179        | Colheitadeira FNH 8255        | 1638   | 221 |
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| Colheitadeira TC59                           | 0315   | 183 | TS6040 (cab) NEF TAA 97kW 4Cil | 1700          | 223        | Especial/Special                     | 0957   | 205 |
| Especial/Special                             | 0150   | 180 | <b>Nissan</b>                  | <b>Nº ZEN</b> | <b>Pg.</b> | Especial/Special                     | 1070   | 209 |
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| Especial/Special                             | 1196   | 213 | 1200                           | 0141          | 180        | Especial/Special                     | 12659  | 236 |
| Especial/Special                             | 1624   | 220 | 120Y                           | 0141          | 180        | F10 L4 1.4L 1393cc 85cid             | 0853   | 202 |
| FNH 8040 (MBB-OM352)                         | 1364   | 215 | 1300                           | 0141          | 180        | Fork Lifts                           | 0644   | 194 |
| FNH 8055 (MBB-OM352A).                       | 1364   | 215 | 140Y                           | 0141          | 180        | Fork Lifts                           | 0853   | 202 |
| HTA7   | 1190   | 212 | 160Y                           | 0141          | 180        | Fork Lifts                           | 1046   | 208 |
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| L783 Perkins 4-203 Diesel                    | 0649   | 194 | 200SX L4                       | 0791          | 199        | Forklift                             | 0790   | 199 |
| L785 Perkins 4-203 Diesel                    | 0649   | 194 | 240SX L4 2.4L 2389cc           | 0679          | 195        | Forklift Diesel                      | 0901   | 203 |
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| Motoniveladora 140                           | 1805   | 228 | 310                            | 0791          | 199        | Frontier Turbo Diesel                | 1780   | 227 |
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| Motoniveladora 170 e 200                     | 1811   | 229 | 310 L4 1.5L 1488cc             | 0853          | 202        | Frontier L4 2.4L 2389cc              | 0712   | 196 |
| Motoniveladora 170 e 200                     | 13118  | 237 | 3300, 3500                     | 9791          | 235        | Frontier L4 2.4L 2389cc 146cid       | 0712   | 196 |
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| TCP8   | 1190   | 212 | Bluebird                       | 0141          | 180        | Lift Trucks H30 Vários Modelos       | 1592   | 218 |
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| TM165  | 1719   | 224 | Caball                         | 0144          | 180        | Lift Trucks AH A15 Engine            | 9495   | 234 |
| TM180  | 1719   | 224 | Cabstar 3.3 Diesel             | 0901          | 203        | Lift Trucks AH H20                   | 1592   | 218 |
| Trator                                       | 0150   | 180 | Cabstar 2.3 Diesel F22         | 1862          | 231        | Lift Trucks APH A15                  | 1592   | 218 |
| Trator                                       | 0351   | 185 | Cabstar 2.5 Diesel F22         | 1862          | 231        | Lift Trucks APH A15 Engine           | 9495   | 234 |
| Trator                                       | 0539   | 190 | Cabstar                        | 1865          | 231        | Lift Trucks APH H20 Engine           | 9495   | 234 |
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| Lift Trucks KUGH H25            | 1592   | 218 | Pulsar 1.6                  | 1207   | 213 | X-Trail 2.0 DCI                       | 1838          | 230        |
| Lift Trucks PH01 A15            | 1592   | 218 | Pulsar 1.6                  | 9525   | 235 | XTerra V6 3.3L 3275cc                 | 1764          | 226        |
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| Livina                          | 1762   | 226 | Sentra                      | 1020   | 207 | 98 V6 3.8L 3800cc 231cid              | 0433          | 187        |
| March 1.0 16V                   | 0965   | 206 | Sentra 1.6                  | 1207   | 213 | Alero 3.4L (207) V6                   | 10003         | 232        |
| March 1.6                       | 1761   | 226 | Sentra                      | 1467   | 215 | Alero 3.4L (207) V6                   | 12720         | 240        |
| Maxima V6 3.5L                  | 1876   | 231 | Sentra 1.8                  | 1727   | 225 | Aurora V8 4.0L 244cid                 | 0774          | 198        |
| Maxima II 2.0 - 3.0 V6 24V      | 1017   | 207 | Sentra 2.0                  | 1762   | 226 | Calais V6 3.0L 181cid VIN L           | 0433          | 187        |
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| Micra Automáticos               | 0554   | 190 | Skyline                     | 0141   | 180 | Silhouette 3.4L (207) V6              | 10003         | 232        |
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| Micra                           | 1708   | 224 | Stanza 1.6, 1.8             | 0499   | 189 | <b>OMC</b>                            | <b>Nº ZEN</b> | <b>Pg.</b> |
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| Nissan 23300-20H00, 23300-20H12 | 9495   | 234 | Stanza L4 2.4L 2389cc       | 0679   | 195 | V8                                    | 1673          | 222        |
| Nissan 23300-20H00, 23300-20H12 | 9495   | 234 | Sunny 1.3, 1.5, 1.6         | 0517   | 189 | <b>Onan</b>                           | <b>Nº ZEN</b> | <b>Pg.</b> |
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| NX 1600                         | 9525   | 235 | Terrano 2.4WD               | 1727   | 225 | Ascona                                | 0013          | 176        |
| NX 2000                         | 0793   | 199 | Terrano 2.70 TDi 4WD        | 1862   | 231 | Ascona 2.0 D                          | 0320          | 184        |
| NX 2000                         | 1207   | 213 | Terrano 2.7 Diesel          | 1862   | 231 | Ascona 1.2                            | 0325          | 184        |
| NX 2000                         | 9525   | 235 | Terrano II 2.4L             | 0712   | 196 | Ascona Diesel                         | 0482          | 188        |
| Pathfinder 3.0 V6 gasolina      | 0687   | 195 | Tiida 1.8                   | 1762   | 226 | Ascona A                              | 0068          | 178        |
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| Astra 1.7 D                          | 0474   | 188 | Omega 2.5 TD, 2.5 XTD                         | 1033          | 208        | 3560                                       | 0087          | 233        |
| Astra 1.6                            | 0752   | 197 | Omega 2.3 TD                                  | 1477          | 216        | 5023                                       | 0087          | 233        |
| Astra                                | 1109   | 211 | Omega 2.5 TD                                  | 1630          | 220        | 5024                                       | 0087          | 233        |
| Astra 1.2 16V                        | 1619   | 220 | Omega B 2.0 - 2.2 DTI - DTH                   | 1109          | 211        | 5036                                       | 0087          | 233        |
| Astra 1.4 16V                        | 1619   | 220 | Rekord  | 0108          | 179        | 6038                                       | 0087          | 233        |
| Astra 1.6 16V                        | 1619   | 220 | Rekord 2.0 D                                  | 0320          | 184        | 6420                                       | 0087          | 233        |
| Astra 1.6i                           | 1619   | 220 | Rekord 2.1 D                                  | 0320          | 184        | 6424                                       | 0087          | 233        |
| Astra F 1.7 td                       | 1556   | 218 | Rekord 2.3 D                                  | 0320          | 184        | Camion                                     | 0378          | 185        |
| Astra G 2.2 16V                      | 0756   | 197 | Rekord 2.3 D, 2.3 TD                          | 0573          | 191        | <b>Perkins</b>                             | <b>Nº ZEN</b> | <b>Pg.</b> |
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| Astra G 1.7L TD                      | 1557   | 218 | Rekord D                                      | 0068          | 178        | 1104 D                                     | 1700          | 223        |
| Astra G 2.2 16V                      | 10003  | 232 | Rekord PII                                    | 0015          | 176        | 1106 C                                     | 1700          | 223        |
| Astra H GTC 1.3 CDTI                 | 1752   | 226 | Saad 9.3                                      | 1109          | 211        | 248 Trator CBT 8240                        | 0024          | 176        |
| Blitz                                | 0013   | 176 | Senator                                       | 0108          | 179        | 3152                                       | 1602          | 219        |
| Blitz 1.9                            | 0015   | 176 | Senator 2.3 TD                                | 0573          | 191        | 4 E 6 CIL Tipo AN 115                      | 0439          | 187        |
| Blitz 1.9                            | 0068   | 178 | Signum 2.0 Turbo - 2.2                        | 0756          | 197        | 4-236 4 cil Diesel                         | 0649          | 194        |
| Blitz CF                             | 0108   | 179 | Signum 2.0 - 2.2 DTI                          | 1109          | 211        | 4203                                       | 1602          | 219        |
| Campo 3.1 Diesel Turbo               | 1861   | 231 | Signum 2.2                                    | 10003         | 232        | 4236                                       | 1602          | 219        |
| Comodore B                           | 0108   | 179 | Sintra 2.2 DTI                                | 1109          | 211        | 4236 A Trator MF 275, 275/4                | 0024          | 176        |
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| Corsa 1.2 16V                        | 1619   | 220 | Vauxhall                                      | 1109          | 211        | A6.358 Trator Ideal 9110                   | 0024          | 176        |
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| Corsa 1.6i                           | 1619   | 220 | Vectra 1.6                                    | 0752          | 197        | Estacionários                              | 0067          | 177        |
| Corsa 1.8 16V                        | 1619   | 220 | Vectra 2.2 16V                                | 0756          | 197        | Estacionários                              | 0096          | 178        |
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| D 1.0, 1.2                           | 0325   | 184 | Vectra 2.0 - 2.2 DI - DTI - DTH 16V - DTL 16V | 1109          | 211        | Estacionários                              | 0150          | 180        |
| Diplomat B                           | 0108   | 179 | Vectra 1.4 16V                                | 1619          | 220        | Estacionários                              | 0155          | 180        |
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| Kadett Diesel                        | 0482   | 188 | Vivaro 2.0 CDTI                               | 1838          | 230        | Industriais                                | 0150          | 180        |
| Kadett B, C                          | 0013   | 176 | Zafira 2.0 - 2.2 DI - DTI                     | 1109          | 211        | Industriais                                | 0155          | 180        |
| Kadett C, D                          | 0108   | 179 | Zafira 2.2 16V                                | 10003         | 232        | Industriais                                | 0186          | 181        |
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| Trator 400  | 0118          | 179        | 205  | 0787          | 199        | 404                                | 0397   | 186 |
| Trator 9130, 9150, 9170   | 0024          | 176        | 205  | 0800          | 199        | 404                                | 0463   | 188 |
| Trator Ideal 9110   | 0118          | 179        | 205  | 0846          | 201        | 404                                | 0961   | 206 |
| Trator Ideal 9130   | 0118          | 179        | 205 XU7 4 cil 1.6                            | 0915          | 203        | 404 Motores Indenor 6305, 6354     | 12675  | 240 |
| Trator Ideal 9150   | 0118          | 179        | 205 XUD9 4 cil 1.9 Diesel                    | 0915          | 203        | 404/8                              | 0463   | 188 |
| Trator Ideal 9170   | 0118          | 179        | 205 1.6                                      | 0926          | 204        | 404D                               | 0406   | 186 |
| Trator MF 290/4   | 0118          | 179        | 205  | 0976          | 206        | 405                                | 0287   | 182 |
| Trator MF 292   | 0118          | 179        | 205  | 1152          | 211        | 405                                | 0482   | 188 |
| Trator MF 235 -265 A3.152   | 0668          | 194        | 205GTI                                       | 0775          | 198        | 405 1.8i                           | 0745   | 197 |
| Trator MF 265   | 0043          | 176        | 206  | 0787          | 199        | 405                                | 0775   | 198 |
| Trator MF 265 AD4.203   | 0668          | 194        | 206  | 0836          | 201        | 405 1.6 / 1.8 / 1.9 / 2.0          | 0787   | 199 |
| Trator MF 275   | 0118          | 179        | 206 1.0 16V / 1.4 / 1.6 / 1.6 16V            | 0965          | 206        | 405 Diesel                         | 0800   | 199 |
| Trator MF 275/4   | 0118          | 179        | 206  | 0976          | 206        | 405                                | 0846   | 201 |
| Trator MF 283   | 0024          | 176        | 206 1.9 D                                    | 1576          | 218        | 405 XU7 4 cil 1.6                  | 0915   | 203 |
| Trator MF 283   | 0118          | 179        | 206 2.0 HDi                                  | 1576          | 218        | 405 XUD9 4 cil 1.9 Diesel          | 0915   | 203 |
| Trator MF 290   | 0118          | 179        | 206  | 1752          | 226        | 405 1.4 - 1.6 - 1.9l               | 0926   | 204 |
| Trator MF 292 turbo   | 0118          | 179        | 206 1.6 HDi                                  | 1758          | 226        | 405 Diesel                         | 0936   | 204 |
| Trator MF 296/4   | 0118          | 179        | 206  | 1822          | 229        | 405                                | 0961   | 206 |
| Trator MF 296/4, 296, 400   | 0024          | 176        | 207  | 0965          | 206        | 405 1.6                            | 0976   | 206 |
| Tratores  | 0067          | 177        | 207  | 1755          | 226        | 405 Diesel                         | 1023   | 208 |
| Tratores  | 0096          | 178        | 207 1.6 HDi                                  | 1758          | 226        | 405 1.6 GL, 1.8i, 1.9 GR,SRI, 2.0i | 1031   | 208 |
| Tratores  | 0121          | 239        | 207  | 1822          | 229        | 405 1.6 GL, 1.8i, 1.9 GR,SRI, 2.0i | 1037   | 208 |
| Tratores  | 0150          | 180        | 208  | 1755          | 226        | 405                                | 1152   | 211 |
| Tratores  | 0155          | 180        | 208  | 1822          | 229        | 405                                | 1187   | 212 |
| Tratores  | 0186          | 181        | 3008, 407 e 5008 1.6 HDi                     | 1812          | 229        | 405 FRI                            | 0915   | 203 |
| Tratores  | 0302          | 183        | 304  | 0442          | 187        | 405D 1.9 Diesel                    | 0706   | 196 |
| Tratores  | 1195          | 213        | 304  | 1822          | 229        | 405D                               | 0806   | 200 |
| Tratores  | 1196          | 213        | 305  | 0442          | 187        | 406 1.6 / 1.8 / 2.0 16V            | 0787   | 199 |
| Tratores, Industriais, Estacionários.   | 0661          | 194        | 305  | 0482          | 188        | 406                                | 0846   | 201 |
| Tratores, Industriais, Estacionários.   | 0668          | 194        | 305  | 0775          | 198        | 406 1.6/1.8 16V/2.0 16V/2.0 Turbo  | 1031   | 208 |
| V8 540  | 0286          | 182        | 305 1.9D                                     | 0800          | 199        | 406                                | 1643   | 221 |
| Various Models Diesel   | 0649          | 194        | 305 Diesel                                   | 0857          | 202        | 407 1.6 HDi                        | 1758   | 226 |
| <b>Peterbilt</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | 305 1.6                                      | 0926          | 204        | 407                                | 1822   | 229 |
| Denso 428000-4420, 428000-5190  | 1811          | 229        | 306 1.8i, 1.8i 16V                           | 0745          | 197        | 504 1.6, 1.8, 2.0 (V6)             | 0108   | 179 |
| Motor Cat C10/C12, Cummins ISM, CatC9/C11/C13/C15 Acert e Cummins ISX 386, 388, com motor Cummins ISX | 1811          | 229        | 306 1.6 / 1.8 / 2.0 / 2.0 16V                | 0787          | 199        | 504                                | 0158   | 180 |
| Prestolite MS2-500,MS2-501, MS2-502, MS2-503, MS2-504, MS2-510, MS2-511, MS2-514                      | 1811          | 229        | 306 1.9D                                     | 0800          | 199        | 504 Diesel                         | 0215   | 181 |
|   |               |            | 306  | 0846          | 201        | 504 Diesel                         | 0217   | 181 |
|   |               |            | 306 XU7 4 cil 1.6                            | 0915          | 203        | 504                                | 0287   | 182 |
|   |               |            | 306 XUD9 4 cil 1.9 Diesel                    | 0915          | 203        | 504 Diesel                         | 0460   | 188 |
|   |               |            |  |               |            | 504 Diesel                         | 0461   | 188 |

| Peugeot                            | Nº ZEN | Pg. | Peugeot                               | Nº ZEN        | Pg.        | Plymouth                            | Nº ZEN | Pg. |
|------------------------------------|--------|-----|---------------------------------------|---------------|------------|-------------------------------------|--------|-----|
| 504                                | 0463   | 188 | Boxer 2.5 TDi                         | 1643          | 221        | Barracuda V8 5.6L 340cid            | 0495   | 189 |
| 504 XD2 Diesel                     | 0771   | 198 | Boxer 2.8 HDI                         | 1650          | 221        | Barracuda V8 5.6L 5572cc 340cid     | 0495   | 189 |
| 504 XT2 Diesel                     | 0868   | 202 | Boxer                                 | 1790          | 228        | Barracuda V8 5.9L 5899cc 360cid     | 0495   | 189 |
| 504 Diesel                         | 0936   | 204 | Boxer                                 | 1874          | 231        | Barracuda V8 5.9L 5900cc 360cid     | 0495   | 189 |
| 504 2.1, 2.3 diesel                | 0961   | 206 | Boxer 2.8 Hdi 4x4                     | 1840          | 230        | Barracuda V8 5.9L 5917cc 361cid     | 0495   | 189 |
| 504                                | 0983   | 206 | Especial/Special                      | 0189          | 181        | Belvedere L6 3.7L 225cid            | 0495   | 189 |
| 504                                | 1187   | 212 | Especial/Special                      | 0297          | 183        | Belvedere L6 3.7L 3687cc 225cid     | 0495   | 189 |
| 504                                | 12682  | 240 | Especial/Special                      | 0462          | 188        | Belvedere V8 4.5L 4473cc 273cid     | 0495   | 189 |
| 504 e 505 Motor 2000               | 0741   | 197 | Especial/Special                      | 0574          | 191        | Belvedere V8 5.2L 318cid            | 0495   | 189 |
| 504 D                              | 0216   | 181 | Especial/Special                      | 0647          | 194        | Belvedere V8 5.2L 5212cc 318cid     | 0495   | 189 |
| 504 D                              | 0530   | 190 | Especial/Special                      | 1056          | 209        | Belvedere V8 7.0L 6981cc 426cid     | 0495   | 189 |
| 504D                               | 0365   | 185 | Especial/Special                      | 1509          | 216        | Belvedere II L6 3.7L 3687cc 225cid  | 0495   | 189 |
| 504D                               | 0406   | 186 | Especial/Special Com Motor Indenor    | 12675         | 240        | Belvedere II V8 4.5L 273cid         | 0495   | 189 |
| 505 1.8, 2.0                       | 0108   | 179 | Estafette                             | 0404          | 186        | Belvedere II V8 5.2L 318cid         | 0495   | 189 |
| 505                                | 0158   | 180 | Expert 1.8                            | 1031          | 208        | Belvedere II V8 5.9L 361cid         | 0495   | 189 |
| 505 Diesel                         | 0215   | 181 | Expert 1.8                            | 1037          | 208        | Belvedere II V8 7.0L 426cid         | 0495   | 189 |
| 505                                | 0287   | 182 | Expert 1.6 HDI                        | 1758          | 226        | Caravelle L6 3.7L 3687cc 225cid     | 0495   | 189 |
| 505                                | 0404   | 186 | J5                                    | 0108          | 179        | Caravelle V8 5.2L 318cid            | 0495   | 189 |
| 505                                | 0482   | 188 | J5                                    | 1187          | 212        | Caravelle 4 Cil 2.6L 2555cc 156cid  | 9307   | 234 |
| 505 XT2 Diesel                     | 0868   | 202 | J7                                    | 0463          | 188        | Cuda V8 5.2L 318cid                 | 0495   | 189 |
| 505 Diesel                         | 0936   | 204 | J7                                    | 1187          | 212        | Cuda V8 5.2L 5212cc 318cid          | 0495   | 189 |
| 505 1.6, 1.8, 2.0, 2.3, 2.5 Diesel | 0961   | 206 | J7 D                                  | 0216          | 181        | Cuda V8 5.6L 340cid                 | 0495   | 189 |
| 505 diesel XD2                     | 0983   | 206 | J9                                    | 0961          | 206        | Cuda V8 5.6L 5572cc 340cid          | 0495   | 189 |
| 505                                | 1187   | 212 | J9 D                                  | 0216          | 181        | Duster L6 3.7L 225cid               | 0495   | 189 |
| 505                                | 12682  | 240 | J9 D                                  | 0530          | 190        | Duster L6 3.7L 3687cc 225cid        | 0495   | 189 |
| 505 D                              | 0216   | 181 | Karsan J9D                            | 1161          | 211        | Duster V8 5.2L 318cid               | 0495   | 189 |
| 505 D TD                           | 0530   | 190 | Partner XU7 4 cil 1.6                 | 0915          | 203        | Duster V8 5.2L 5212cc 318cid        | 0495   | 189 |
| 505 INJ                            | 0404   | 186 | Partner 1.9 Diesel                    | 0935          | 204        | Duster V8 5.9L 360cid               | 0495   | 189 |
| 505D Turbo                         | 0365   | 185 | Partner                               | 1023          | 208        | Duster V8 5.9L 5899cc 360cid        | 0495   | 189 |
| 505D turbo Turbo                   | 0406   | 186 | Partner 1.8                           | 1031          | 208        | Duster V8 5.9L 5900cc 360cid        | 0495   | 189 |
| 604 V6                             | 0108   | 179 | Partner 1.8                           | 1037          | 208        | Fleet Special L6 3.7L 3687cc 225cid | 0495   | 189 |
| 604 Diesel                         | 0936   | 204 | Partner 1.9 D                         | 1576          | 218        | Fleet Special V8 5.9L 5917cc 361cid | 0495   | 189 |
| 604                                | 0961   | 206 | Partner 2.0 HDi                       | 1576          | 218        | Fury L6 3.7L 225cid                 | 0495   | 189 |
| 604 TD                             | 0216   | 181 | Partner                               | 1752          | 226        | Fury L6 3.7L 3687cc 225cid          | 0495   | 189 |
| 604D Turbo                         | 0365   | 185 | Partner 1.6 HDI                       | 1758          | 226        | Fury V8 4.5L 273cid                 | 0495   | 189 |
| 604D turbo Turbo                   | 0406   | 186 | Partner 1.6 HDi                       | 1812          | 229        | Fury V8 4.5L 4473cc 273cid          | 0495   | 189 |
| 605                                | 0775   | 198 | Partner Furgonato 1.1, 1.4            | 0976          | 206        | Fury V8 5.2L 318cid                 | 0495   | 189 |
| 605 2.0                            | 1031   | 208 | Partner Teepee 1.6 HDI                | 1758          | 226        | Fury V8 5.2L 5212cc 318cid          | 0495   | 189 |
| 605 2.0                            | 1037   | 208 | Partner Van, Limousine                | 0976          | 206        | Fury V8 5.9L 361cid                 | 0495   | 189 |
| 605                                | 1643   | 221 | Peugeot com motor indenor XD4. 88     | 0160          | 180        | Fury V8 5.9L 5917cc 361cid          | 0495   | 189 |
| 605 D TD                           | 0530   | 190 | Pick Up 504 com motor Indenor XD-2S   | 0215          | 181        | Fury I L6 3.7L 225cid               | 0495   | 189 |
| 605TD                              | 1072   | 210 | Pick Up 504 com motor Indenor XD-6.90 | 0215          | 181        | Fury I L6 3.7L 3687cc 225cid        | 0495   | 189 |
| 607                                | 1643   | 221 | Pick Up 504 com motor Indenor XD-4.90 | 0215          | 181        | Fury I V8 5.2L 318cid               | 0495   | 189 |
| 806 2.0                            | 1031   | 208 | Pick Up 504 com motor Indenor XD-4.90 | 0215          | 181        | Fury I V8 5.2L 5212cc 318cid        | 0495   | 189 |
| 806 2.0 turbo                      | 1031   | 208 | Pick Up 504 Diesel 1.3 Ton            | 0459          | 188        | Fury II L6 3.7L 225cid              | 0495   | 189 |
| 806 2.0, 2.0 turbo                 | 1037   | 208 | Rallye                                | 0775          | 198        | Fury II L6 3.7L 3687cc 225cid       | 0495   | 189 |
| 807                                | 1643   | 221 | Ranch 1.9 D                           | 1576          | 218        | Fury II V8 4.5L 273cid              | 0495   | 189 |
| Boxer                              | 0573   | 191 | Ranch 2.0 HDi                         | 1576          | 218        | Fury II V8 5.2L 318cid              | 0495   | 189 |
| Boxer XUD9 4 cil 1.9 Diesel        | 0915   | 203 | Ranch                                 | 1752          | 226        | Fury II V8 5.2L 5212cc 318cid       | 0495   | 189 |
| Boxer                              | 0935   | 204 | Ranch 1.6 HDi                         | 1812          | 229        | Fury III L6 3.7L 225cid             | 0495   | 189 |
| Boxer                              | 0976   | 206 | Vários modelos com Motor Indenor      | 12682         | 240        | Fury III L6 3.7L 3687cc 225cid      | 0495   | 189 |
| Boxer 2.8 HDI                      | 1022   | 208 | <b>Pioneira</b>                       | <b>Nº ZEN</b> | <b>Pg.</b> | Fury III V8 4.5L 273cid             | 0495   | 189 |
| Boxer                              | 1025   | 208 | Pioneira Sisu 420DS 4 Cil             | 1698          | 223        | Fury III V8 5.2L 318cid             | 0495   | 189 |
| Boxer 2.0                          | 1031   | 208 | <b>Plymouth</b>                       | <b>Nº ZEN</b> | <b>Pg.</b> | Fury III V8 5.2L 5212cc 318cid      | 0495   | 189 |
| Boxer 2.0                          | 1037   | 208 | Barracuda V8 5.2L 318cid              | 0495          | 189        | Gran Fury L6 3.7L 3687cc 225cid     | 0495   | 189 |
| Boxer 2.5 - TD                     | 1072   | 210 | Barracuda V8 5.2L 5212cc 318cid       | 0495          | 189        | Gran Fury V8 5.2L 318cid            | 0495   | 189 |
| Boxer                              | 1642   | 221 |                                       |               |            | Gran Fury V8 5.2L 5211cc 318cid     | 0495   | 189 |
| Boxer 2.2 HDI                      | 1642   | 221 |                                       |               |            | Gran Fury V8 5.2L 5212cc 318cid     | 0495   | 189 |



| Plymouth                          | Nº ZEN | Pg. | Plymouth                                       | Nº ZEN        | Pg.        | Porsche  | Nº ZEN        | Pg.        |
|-----------------------------------|--------|-----|--|---------------|------------|--|---------------|------------|
| GTX V8 4.5L 4473cc 273cid         | 0495   | 189 | Valiant L6 3.7L 225cid                         | 0495          | 189        | 924  | 0442          | 187        |
| GTX V8 5.2L 318cid                | 0495   | 189 | Valiant L6 3.7L 3687cc 225cid                  | 0495          | 189        | 924  | 0798          | 199        |
| GTX V8 5.2L 5212cc 318cid         | 0495   | 189 | Valiant V8 5.2L 318cid                         | 0495          | 189        | 944  | 0442          | 187        |
| GTX V8 7.0L 6981cc 426cid         | 0495   | 189 | Valiant V8 5.2L 5212cc 318cid                  | 0495          | 189        | 944  | 0798          | 199        |
| PB100 L6 3.7L 3687cc 225cid VIN N | 0495   | 189 | Valiant V8 5.9L 360cid                         | 0495          | 189        | <b>Prairie Sprayer</b>   | <b>Nº ZEN</b> | <b>Pg.</b> |
| PB100 V8 5.2L 5211cc 318cid VIN E | 0495   | 189 | Valiant V8 5.9L 5899cc 360cid                  | 0495          | 189        | 4800 Sprayer Perkins Diesel  | 0649          | 194        |
| PB150 L6 3.7L 3687cc 225cid VIN E | 0495   | 189 | VIP V8 5.2L 5212cc 318cid                      | 0495          | 189        | 4900 Sprayer Perkins Diesel  | 0649          | 194        |
| PB150 L6 3.7L 3687cc 225cid VIN H | 0495   | 189 | Volare L6 3.7L 3687cc 225cid                   | 0495          | 189        | <b>Princess</b>  | <b>Nº ZEN</b> | <b>Pg.</b> |
| PB150 V8 5.2L 5211cc 318cid VIN R | 0495   | 189 | Volare V8 5.2L 318cid                          | 0495          | 189        | 1700   | 0412          | 186        |
| PB150 V8 5.2L 5211cc 318cid VIN T | 0495   | 189 | Voyager 4 Cil 2.6L 2555cc 156cid               | 9307          | 234        | 1800   | 0412          | 186        |
| PB200 L6 3.7L 3687cc 225cid VIN N | 0495   | 189 | <b>Poclair</b>                                 | <b>Nº ZEN</b> | <b>Pg.</b> | 2000   | 0412          | 186        |
| PB200 V8 5.2L 5211cc 318cid VIN E | 0495   | 189 | FC 30  | 0308          | 183        | 2200   | 0412          | 186        |
| PB200 V8 5.2L 5211cc 318cid VIN P | 0495   | 189 | LC 80  | 0308          | 183        | <b>Puma</b>  | <b>Nº ZEN</b> | <b>Pg.</b> |
| PB200 V8 5.9L 360cid VIN T        | 0495   | 189 | LY 80  | 0308          | 183        | 7000 série 79000 MWM 4.10T   | 0748          | 197        |
| PB250 L6 3.7L 3687cc 225cid VIN E | 0495   | 189 | MCL 84   | 0308          | 183        | 914 4.0  | 1073          | 210        |
| PB250 L6 3.7L 3687cc 225cid VIN H | 0495   | 189 | <b>Polaris</b>                                 | <b>Nº ZEN</b> | <b>Pg.</b> | Caminhão 900 série 914 com motor MWM 229.4   | 0105          | 179        |
| PB250 V8 5.2L 5211cc 318cid VIN P | 0495   | 189 | 1050 - SLTH, SLTX                              | 0749          | 197        | GT VW 1600   | 0065          | 177        |
| PB250 V8 5.2L 5211cc 318cid VIN R | 0495   | 189 | 400L 2x4                                       | 0751          | 197        | GTS VW 1600  | 0065          | 177        |
| PB250 V8 5.2L 5211cc 318cid VIN T | 0495   | 189 | 400L Big Boss 6x6                              | 0751          | 197        | Ônibus   | 1651          | 221        |
| PB250 V8 5.2L 5211cc 318cid VIN U | 0495   | 189 | 650 - SL, STD                                  | 0749          | 197        | Puma GT com motor VW   | 0294          | 183        |
| PB250 V8 5.9L 360cid VIN T        | 0495   | 189 | 700 - Hurricane, SL, SLH, SLT, SLTX            | 0749          | 197        | Puma GT Malzoni  | 0015          | 176        |
| PB300 V8 5.2L 5211cc 318cid VIN E | 0495   | 189 | 780 - SL, SLT, SLX                             | 0749          | 197        | Puma GTB GM4100  | 0045          | 177        |
| PB300 V8 5.9L 360cid VIN T        | 0495   | 189 | 900 - SL                                       | 0749          | 197        | <b>Random</b>  | <b>Nº ZEN</b> | <b>Pg.</b> |
| PB350 V8 5.2L 5211cc 318cid VIN P | 0495   | 189 | ATV 300 4x4                                    | 0751          | 197        | Caminhão Florestal RK 628C-F com motor Scania DC9  | 1809          | 228        |
| PB350 V8 5.2L 5211cc 318cid VIN R | 0495   | 189 | Jet Ski  | 0751          | 197        | Caminhões Fora de Estrada RK-430B, RK-430M, RK 628 C, RK 628 C-R com motores Scania DC09 | 1809          | 228        |
| PB350 V8 5.2L 5211cc 318cid VIN T | 0495   | 189 | Magnum 4x4                                     | 0751          | 197        | <b>Rastrojero</b>  | <b>Nº ZEN</b> | <b>Pg.</b> |
| PB350 V8 5.2L 5211cc 318cid VIN U | 0495   | 189 | Sportman 4x4                                   | 0751          | 197        | IME reforma AN 115   | 0720          | 196        |
| PB350 V8 5.9L 360cid VIN 1        | 0495   | 189 | Trail Boss 250, Xplorer 4x4 Todos exceto 325cc | 0751          | 197        | <b>Reliant</b>   | <b>Nº ZEN</b> | <b>Pg.</b> |
| PB350 V8 5.9L 360cid VIN U        | 0495   | 189 | Xplorer 4x4                                    | 0751          | 197        | Scimitar   | 0412          | 186        |
| PB350 V8 5.9L 360cid VIN W        | 0495   | 189 | <b>Pontiac</b>                                 | <b>Nº ZEN</b> | <b>Pg.</b> | <b>Remy</b>  | <b>Nº ZEN</b> | <b>Pg.</b> |
| Reliant 4 Cil 2.6L 2555cc 156cid  | 9307   | 234 | Aztec 3.4L (207) V6                            | 10003         | 232        | 29MT   | 1679          | 222        |
| Roadrunner V8 5.2L 318cid         | 0495   | 189 | Aztec 3.4L (207) V6                            | 12720         | 240        | 29MT   | 1805          | 228        |
| Roadrunner V8 5.2L 5212cc 318cid  | 0495   | 189 | Firebird V6 2.8L 173cid                        | 1189          | 212        | 38 MT  | 13130         | 237        |
| Satellite L6 3.7L 225cid          | 0495   | 189 | Firebird V6 3.1L 189cid                        | 1189          | 212        | 38MT   | 1809          | 228        |
| Satellite L6 3.7L 3687cc 225cid   | 0495   | 189 | G6 V6 3.6L 217cid                              | 0806          | 200        | 39 MT  | 13131         | 237        |
| Satellite V8 4.5L 273cid          | 0495   | 189 | Grand AM 2.4                                   | 0756          | 197        | 39 MT  | 13132         | 237        |
| Satellite V8 4.5L 4473cc 273cid   | 0495   | 189 | Grand AM 3.4L (207) V6                         | 10003         | 232        | 39MT   | 1810          | 228        |
| Satellite V8 5.2L 318cid          | 0495   | 189 | Grand AM 3.4L (207) V6                         | 12720         | 240        | 39MT   | 1811          | 229        |
| Satellite V8 5.2L 5212cc 318cid   | 0495   | 189 | Grand AM 2.4                                   | 0756          | 197        | 39MT   | 13117         | 237        |
| Satellite V8 5.9L 360cid          | 0495   | 189 | Grand Am V6 3.0L 181cid                        | 0433          | 187        | 39MT   | 13118         | 237        |
| Satellite V8 5.9L 5899cc 360cid   | 0495   | 189 | Grand Prix 3.1L (189) V6                       | 10003         | 232        | 39MT   | 13119         | 237        |
| Satellite V8 5.9L 5900cc 360cid   | 0495   | 189 | Grand Prix 3.1L (189) V6                       | 12720         | 240        | 41MT   | 1521          | 217        |
| Satellite V8 5.9L 5917cc 361cid   | 0495   | 189 | Montana 3.4L (207) V6                          | 10003         | 232        | 42 MT  | 1573          | 218        |
| Savoy L6 3.7L 3687cc 225cid       | 0495   | 189 | Montana 3.4L (207) V6                          | 12720         | 240        | 44MT   | 13104         | 237        |
| Savoy V8 4.5L 4473cc 273cid       | 0495   | 189 | Sunburst L4 1.5L 1471cc 92cid                  | 0498          | 189        | 44MT   | 13105         | 237        |
| Savoy V8 5.2L 5212cc 318cid       | 0495   | 189 | Sunburst L4 1.5L 1471cc 92cid wo/Turbo         | 0498          | 189        | 44MT   | 13106         | 237        |
| Savoy V8 5.9L 5917cc 361cid       | 0495   | 189 | Sunfire 2.4                                    | 0756          | 197        | Delco 10MT   | 0381          | 185        |
| Scamp L6 3.2L 198cid              | 0495   | 189 | Sunfire 2.4 Audi                               | 0756          | 197        | Delco 22MT   | 0381          | 185        |
| Scamp L6 3.2L 3254cc 198cid       | 0495   | 189 | Torrent V6 3.6L 217cid                         | 0806          | 200        | Delco 25MT   | 0381          | 185        |
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| 9-3 1.8 Turbo - 2.0 Turbo        | 0756          | 197        | 93250                              | 0367          | 185        | Caminhão R142-410                | 0087   | 233 |
| 9.7 5.3L (325) V8                | 10003         | 232        | 93280                              | 0367          | 185        | Caminhão T 112-310 HW, EW DS11   | 0122   | 239 |
| 900 L4 2.1L 2119cc               | 0803          | 200        | Caminhão 140                       | 0087          | 233        | Caminhão T 112 DN11, DS11, DSC11 | 0122   | 239 |
| 900 L4 2.3L 2290cc 140cid        | 0803          | 200        | Caminhão 140 Super                 | 0087          | 233        | Caminhão T 112-360 HW, EW DSC11  | 0122   | 239 |
| 900 L4 2.0L 1985cc               | 0803          | 200        | Caminhão 141 Super                 | 0087          | 233        | Caminhão T 142 DS14, DSC14       | 0122   | 239 |
| 9000 L4 2.0L 1985cc              | 0803          | 200        | Caminhão 145                       | 0087          | 233        | Caminhão T 142-210 HW, EW DSC14  | 0122   | 239 |
| 9000 L4 2.3L 2290cc              | 0803          | 200        | Caminhão 145                       | 0122          | 239        | Caminhão T142                    | 0087   | 233 |
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| Caminhões   | 0378   | 185 | Motor DN11 industrial, gerador e marítimo | 0122   | 239 | R 470 DT 12.06 Euro 3  | 1658          | 221        |
| Chassi p/ ônibus K112                               | 0122   | 239 | Motor DS11 industrial e marítimo          | 0133   | 179 | Série 11.79M, 14.68M, 14.69M, 14.72A, 14.73M                       | 0920          | 204        |
| Chassi p/ ônibus K112                               | 0133   | 179 | Motor DS11 industrial, gerador e marítimo | 0122   | 239 | Serie 114  | 0920          | 204        |
| Chassi p/ ônibus K112, S112                         | 0087   | 233 | Motor DS14 industrial e marítimo          | 0133   | 179 | Série 14.74M, 14.75M, 14.77A 14.78M                                | 0920          | 204        |
| Chassi p/ ônibus S112                               | 0122   | 239 | Motor DS14 industrial, gerador e marítimo | 0122   | 239 | Série 144 - R144/460 DSC 14.15                                     | 0920          | 204        |
| Chassi p/ ônibus S112                               | 0133   | 179 | Motor DSI11 R82A                          | 0036   | 233 | Série 164 - R164/480 DC 16.02                                      | 0920          | 204        |
| Chassi p/ ônibusBR116S                              | 0133   | 179 | Motor p/ gerador e industrial DN11        | 0122   | 239 | Série 4  | 12839         | 236        |
| DS11 R82A marítimo com turbo compressor Holset 4 LE | 0036   | 233 | Ônibus B115                               | 0036   | 233 | Série DSC - 11.56A, 11.57A, 11.58A, 14.57A, 14.61A, 14.62A, 14.63A | 0920          | 204        |
| Especial/Special                                    | 1091   | 210 | Ônibus B115                               | 0121   | 239 | Série DSI - 11.71A, 11.72A, 11.74M, 11.75M, 11.76M, 11.77M, 11.78M | 0920          | 204        |
| Modelo: P 380 com motor DC 12 Euro 5                | 1809   | 228 | Ônibus BR110                              | 0036   | 233 | Serie K124/ P124   | 0920          | 204        |
| Modelo: P 420 com motor DC 12 Euro 3                | 1809   | 228 | Ônibus BR110                              | 0121   | 239 | Série R 144/530 DSC 14.13  | 0920          | 204        |
| Modelo: P 420 com motor DC 12 Euro 5                | 1809   | 228 | Ônibus BR115                              | 0087   | 233 | Série R 164/580 DC 16.01   | 0920          | 204        |
| Modelo: P 420 DT 12 com motor Euro 4                | 1809   | 228 | Ônibus BR115                              | 0122   | 239 | Série T 144/460 DSC 14.15  | 0920          | 204        |
| Modelo: P 470 com motor DT 12 Euro 3                | 1809   | 228 | Ônibus BR115                              | 0133   | 179 | Série T144/530 DSC 14.13   | 0920          | 204        |
| Modelo: P 480 com motor DT 12 Euro 4                | 1809   | 228 | Ônibus BR115S                             | 0036   | 233 | T 340 DC 11.08 Euro 3  | 1658          | 221        |
| Modelo: R 380 com motor DC 12 Euro 5                | 1809   | 228 | Ônibus BR115S                             | 0087   | 233 | T 380 DC 11.09 Euro 3  | 1658          | 221        |
| Modelo: R 420 com motor DC 12 Euro 3                | 1809   | 228 | Ônibus BR115S                             | 0121   | 239 | T 420 DC 12.14 Euro 3  | 1658          | 221        |
| Modelo: R 420 com motor DC 12 Euro 5                | 1809   | 228 | Ônibus BR115S                             | 0122   | 239 | T 420 DT 12.11 Euro 4  | 1658          | 221        |
| Modelo: R 420 com motor DT 12 Euro 4                | 1809   | 228 | Ônibus BR115S                             | 0133   | 179 | T 470 DT 12.06 Euro 3  | 1658          | 221        |
| Modelo: R 420 com motor DT 12 Euro 3                | 1809   | 228 | Ônibus BR116                              | 0087   | 233 | Tratores   | 0378          | 185        |
| Modelo: R 420 com motor DT 12 Euro 4                | 1809   | 228 | Ônibus BR116                              | 0122   | 239 | <b>Sea Doo</b>   | <b>Nº ZEN</b> | <b>Pg.</b> |
| Modelo: R 470 com motor DT 12 Euro 3                | 1809   | 228 | Ônibus BR116                              | 0133   | 179 | 110  | 0773          | 198        |
| Modelo: R 470 com motor DT 12 Euro 4                | 1809   | 228 | Ônibus BR116S                             | 0087   | 233 | 580  | 0773          | 198        |
| Modelo: R 480 com motor DT 12 Euro 4                | 1809   | 228 | Ônibus BR116S                             | 0122   | 239 | 650  | 0773          | 198        |
| Modelo: T 420 com motor DC 12 Euro 3                | 1809   | 228 | Ônibus BR116S                             | 0133   | 179 | 720  | 0773          | 198        |
| Modelo: T 420 com motor DT 12 Euro 4                | 1809   | 228 | Ônibus F94                                | 0367   | 185 | GSX Bombardier   | 0773          | 198        |
| Modelo: T 470 com motor DT 12 Euro 3                | 1809   | 228 | Ônibus L94                                | 0367   | 185 | GSX, GTI, GTS, GTX, HX, SP, SP1, SPX, XP                           | 1218          | 214        |
| Modelos: P 230, P 270, P 310 com motor DC 09 Euro 3 | 1809   | 228 | P - R 114/340                             | 0920   | 204 | GTI Bombardier   | 0773          | 198        |
| Modelos: P 230, P 270, P 310 com motor DC 09 Euro 4 | 1809   | 228 | P - R 124/360                             | 0920   | 204 | GTS Bombardier   | 0773          | 198        |
| Modelos: P 340, P 380 com motor DC 11 Euro 3        | 1809   | 228 | P - R 124/400                             | 0920   | 204 | GTX Bombardier   | 0773          | 198        |
| Modelos: P 340, P 380 com motor DC 12 Euro 4        | 1809   | 228 | P - R 124/420                             | 0920   | 204 | HX Bombardier  | 0773          | 198        |
| Modelos: R 230, R 270, R 310 com motor DC 09 Euro 3 | 1809   | 228 | P 230 DC 9.16 Euro 4                      | 1658   | 221 | Sea Doo - série 800 (modelos novos)                                | 1218          | 214        |
| Modelos: R 230, R 270, R 310 com motor DC 09 Euro 4 | 1809   | 228 | P 270 DC 9.17 Euro 4                      | 1658   | 221 | SP Bombardier  | 0773          | 198        |
| Modelos: R 340, R 380 com motor DC 12 Euro 3        | 1809   | 228 | P 310 DC 9.18 Euro 4                      | 1658   | 221 | SP1  | 0773          | 198        |
| Modelos: R 340, R 380 com motor DC 11 Euro 3        | 1809   | 228 | P 340 DC 12.10 Euro 4                     | 1658   | 221 | Toda Linha 110 HP  | 1218          | 214        |
| Modelos: R 340, R 380 com motor DC 12 Euro 4        | 1809   | 228 | P 380 DC 12.13 Euro 4                     | 1658   | 221 | Todos os modelos exceto 951  | 0773          | 198        |
| Modelos: R 230, R 270, R 310 com motor DC 09 Euro 3 | 1809   | 228 | P 380 DC 12.18 Euro 5                     | 1658   | 221 | XP   | 0773          | 198        |
| Modelos: R 230, R 270, R 310 com motor DC 09 Euro 4 | 1809   | 228 | P 420 DC 12.15 Euro 5                     | 1658   | 221 | <b>Seat</b>  | <b>Nº ZEN</b> | <b>Pg.</b> |
| Modelos: R 340, R 380 com motor DC 11 Euro 3        | 1809   | 228 | P 420 DT 12.12 Euro 4                     | 1658   | 221 | 1200 Sport 1430 cc   | 0120          | 179        |
| Modelos: R 340, R 380 com motor DC 12 Euro 4        | 1809   | 228 | P 470 DT 12.06 Euro 3                     | 1658   | 221 | 1200 Sport   | 0325          | 184        |
| Modelos: T 340, T 380 com motor DC 11 Euro 3        | 1809   | 228 | P 480 DT 12.17 Euro 4                     | 1658   | 221 | 124  | 0120          | 179        |
| Motor D11 marítimo ED                               | 0036   | 233 | P, R 124/400                              | 0367   | 185 | 124 1.8  | 0213          | 181        |
| Motor D11 R81 marítimo ED                           | 0036   | 233 | P,R 124/360                               | 0367   | 185 | 124 1.8  | 0389          | 185        |
| Motor DN11 industrial e marítimo                    | 0133   | 179 | P,R 124/420                               | 0367   | 185 | 124 D 1430   | 0325          | 184        |
|   |        |     | Plataforma p/ ônibus S112 DN11, DS11      | 0122   | 239 | 124 D especial 1.2 e 1.4   | 0325          | 184        |
|   |        |     | R - T 144/360                             | 0920   | 204 | 124D   | 0120          | 179        |
|   |        |     | R - T 144/530                             | 0920   | 204 | 124D Special   | 0120          | 179        |
|   |        |     | R 164/480                                 | 0367   | 185 | 127  | 0120          | 179        |
|   |        |     | R 164/580                                 | 0367   | 185 | 127 0.9  | 0325          | 184        |
|   |        |     | R 164/580                                 | 0920   | 204 | 127 0.9  | 0451          | 187        |
|   |        |     | R 420 DC 12.14 Euro 3                     | 1658   | 221 | 127 Fura   | 0120          | 179        |
|   |        |     | R 420 DC 12.15 Euro 5                     | 1658   | 221 | 128.3P   | 0120          | 179        |
|   |        |     | R 420 DT 12.11 Euro 4                     | 1658   | 221 | 131 1.6  | 0111          | 179        |
|   |        |     | R 470 DT 12.03 Euro 4                     | 1658   | 221 | 131  | 0120          | 179        |

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| 131 1.6   | 0213   | 181 | Ibiza 1.6   | 1108          | 210        | Octavia 2.0 TDI 16V - RS                          | 1856          | 230        |
| 131   | 0325   | 184 | Ibiza 1.2   | 1632          | 220        | Octavia 1.2 TSI START/STOP                        | 1826          | 229        |
| 131 2.5 Diesel                                  | 0601   | 192 | Ibiza 1.4 16V                                     | 1632          | 220        | Octavia 1.6 TDI - 4x4 - 2.0 TDI - 4x4 START/STOP  | 1826          | 229        |
| 131 L 1430                                      | 0325   | 184 | Ibiza 1.6   | 1632          | 220        | Rapid 1.2 TSI START/STOP                          | 1826          | 229        |
| 131 L 1.6                                       | 0389   | 185 | Ibiza 1.8   | 12690         | 240        | Rapid 1.6 TDI START/STOP                          | 1826          | 229        |
| 131E  | 0213   | 181 | Ibiza Cupra / Sport 1.8 20V turbo                 | 1069          | 209        | Roomster 1.2 TDI - 1.6 TDI START/STOP             | 1826          | 229        |
| 131L  | 0120   | 179 | Ibiza I V - V 1.2 - 12V - 1.4 - 16V - 1.6 - 16V   | 1890          | 232        | Roomster 1.2 TDI e 1.6 TDI START/STOP             | 1824          | 229        |
| 132 1.6 e 1.8                                   | 0111   | 179 | Ibiza II 1.0, 1.4L                                | 1484          | 216        | Roomster 1.2 TSI START/STOP                       | 1826          | 229        |
| 132   | 0213   | 181 | Ibiza V 1.2 TDI - 1.6 TDI START/STOP              | 1826          | 229        | Super B 2.5 TDI                                   | 1631          | 220        |
| 138   | 0120   | 179 | Ibiza V 1.2 TSI - 1.4 TSI START/STOP              | 1826          | 229        | Superb 2.0 TDI - 16V - 4x4                        | 1856          | 230        |
| 1430 1.6, 1.8                                   | 0213   | 181 | Inca 1.6 EFI                                      | 12685         | 240        | Superb 1.6 TDI START/STOP                         | 1824          | 229        |
| 1500  | 0713   | 196 | Lean 1.8  | 1655          | 221        | Superb 1.6 TDI START/STOP                         | 1826          | 229        |
| Alhambra 1.9 TDI                                | 0937   | 204 | Lean 2.8 V6                                       | 1655          | 221        | Yeti 1.4 TSI START/STOP                           | 1826          | 229        |
| Alhambra 2.0                                    | 1069   | 209 | Leon 1.4, 1.6, 1.8, 1.8T                          | 1108          | 210        | Yeti 1.6 TDI START/STOP                           | 1826          | 229        |
| Alhambra 1.8T - 2.0                             | 1108   | 210 | Leon 1.9 TDI - 2.0 TDI - 16V                      | 1856          | 230        | <b>SLC</b>  | <b>Nº ZEN</b> | <b>Pg.</b> |
| Alhambra 1.9 TDI                                | 1655   | 221 | Leon 1.4 16V                                      | 1890          | 232        | 7700 Turbo  | 1073          | 210        |
| Alhambra 1.8 turbo, 2.0                         | 12690  | 240 | Leon 1.4 TSI START/STOP                           | 1826          | 229        | D 229-3, D 229-4, D 229-6, TBD 229-EC-6, TD 229-6 | 1076          | 210        |
| Altea 1.6                                       | 1632   | 220 | Leon 1.6 TDI - 2.0 TDI START/STOP                 | 1826          | 229        | <b>Ssangyong</b>                                  | <b>Nº ZEN</b> | <b>Pg.</b> |
| Altea 2.0 FSI                                   | 1632   | 220 | Malaga  | 0786          | 199        | Actyon Sports I (QJ)                              | 1886          | 232        |
| Altea XL 1.9 TDI - 2.0 TDI - 4x4                | 1856   | 230 | Mii 1.0   | 1803          | 228        | Actyon I  | 1886          | 232        |
| Altea 1.4 16V                                   | 1890   | 232 | Octavia 1.4 - 16V - 1.6 - FSI                     | 1890          | 232        | Actyon 200 XDI                                    | 1705          | 224        |
| Altea - XL 1.2 TSI - 1.4 TSI START/STOP         | 1826   | 229 | Panda   | 0408          | 186        | Especial/Special                                  | 1037          | 208        |
| Altea - XL 1.6 TDI - 2.0 TDI START/STOP         | 1826   | 229 | Ritmo   | 0120          | 179        | Korando (K4)                                      | 1886          | 232        |
| Altea 1.9 TDI , 2.0 TDI                         | 1823   | 229 | Ritmo Diesel                                      | 0395          | 186        | Korando (KJ)                                      | 1886          | 232        |
| Arosa 1.0, 1.4L                                 | 1484   | 216 | Ritmo 65,75                                       | 0325          | 184        | Korando Cabrio (KJ)                               | 1886          | 232        |
| Cordoba 1.9 Diesel                              | 0579   | 191 | Ronda Diesel                                      | 0395          | 186        | Kyron   | 1886          | 232        |
| Cordoba 1.9 Diesel Turbo                        | 0579   | 191 | Ronda   | 0786          | 199        | Kyron XDI 2.0                                     | 1705          | 224        |
| Cordoba 1.0                                     | 0745   | 197 | Roomster 1.2 - TSI - 1.4 - 1.6 - 1.4 - 1.9 TDI    | 1890          | 232        | Musso 2.3, 2.5                                    | 0572          | 191        |
| Cordoba 1.4                                     | 0745   | 197 | Skoda Fabia 1.2 - TSI - 1.4 - 16V - 1.6 - 1.9 TDI | 1890          | 232        | Musso Sports                                      | 1886          | 232        |
| Cordoba 1.4 16V                                 | 0745   | 197 | Stella  | 1632          | 220        | Musso (FJ)  | 1886          | 232        |
| Cordoba 1.6                                     | 0745   | 197 | Supermirafiori 1430                               | 0325          | 184        | Rexton (GAB)                                      | 1886          | 232        |
| Cordoba 1.6                                     | 0799   | 199 | Terra   | 0325          | 184        | Rexton 270 XDI                                    | 1705          | 224        |
| Cordoba 1.8                                     | 0799   | 199 | Toledo 1.4, 1.6, 1.8                              | 1108          | 210        | Stavic  | 1886          | 232        |
| Cordoba 1.8 16V                                 | 0799   | 199 | Toledo III 1.9 TDI - 2.0 TDI - 16V                | 1856          | 230        | <b>Steyr Puch</b>                                 | <b>Nº ZEN</b> | <b>Pg.</b> |
| Cordoba 2.0                                     | 0799   | 199 | Toledo IV 1.2 TSI START/STOP                      | 1826          | 229        | 1000  | 0308          | 183        |
| Cordoba   | 0932   | 204 | Toledo IV 1.6 TDI START/STOP                      | 1826          | 229        | 1200  | 0308          | 183        |
| Cordoba 1.6                                     | 1069   | 209 | Vario 1.6   | 1069          | 209        | 586   | 0308          | 183        |
| Cordoba 1.0, 1.4L                               | 1484   | 216 | Vento Tdi 1.9                                     | 0937          | 204        | 590   | 0308          | 183        |
| Cordoba 1.2                                     | 1632   | 220 | <b>Shelhorst</b>                                  | <b>Nº ZEN</b> | <b>Pg.</b> | 650A  | 0316          | 183        |
| Cordoba 1.4 16V                                 | 1632   | 220 | Shelhorst   | 12692         | 240        | 690   | 0308          | 183        |
| Cordoba 1.6                                     | 1632   | 220 | <b>Sisu Diesel</b>                                | <b>Nº ZEN</b> | <b>Pg.</b> | 760A  | 0316          | 183        |
| Cordoba 1.2 - 1.2 12V - 1.4 16V - 1.6 - 1.6 16V | 1890   | 232 | 4.9 CWA 4 Cil 175HP 4.9                           | 1698          | 223        | <b>Still</b>                                      | <b>Nº ZEN</b> | <b>Pg.</b> |
| Córdoba 1.6, 1.8, 2.0                           | 1108   | 210 | 444CTA 4 Cil                                      | 1698          | 223        | Especial/Special                                  | 1071          | 210        |
| Córdoba 1.8, 1.8 16v, 2.0                       | 12690  | 240 | 84 CTA-4V SCR 8.4                                 | 1698          | 223        | <b>Styer Puch</b>                                 | <b>Nº ZEN</b> | <b>Pg.</b> |
| Cordoba SXE                                     | 0579   | 191 | <b>Skoda</b>                                      | <b>Nº ZEN</b> | <b>Pg.</b> | Especial/Special                                  | 1071          | 210        |
| Cupra 4   | 1655   | 221 | Citigo 1.0  | 1803          | 228        | <b>Subaru</b>                                     | <b>Nº ZEN</b> | <b>Pg.</b> |
| Especial/Special                                | 0639   | 193 | Especial/Special                                  | 0831          | 201        | 1800 4X4  | 1213          | 214        |
| Especial/Special                                | 0797   | 199 | Fabia 1.2   | 1632          | 220        | Brat H4 1.8L 1781cc                               | 1723          | 225        |
| Especial/Special                                | 0972   | 206 | Fabia 1.4 16V                                     | 1632          | 220        | Coupe XT  | 0600          | 192        |
| Especial/Special                                | 1056   | 209 | Fabia 1.2 12V - TSI START/STOP                    | 1826          | 229        | DL H4 1.6L 1595cc                                 | 1723          | 225        |
| Fura  | 0408   | 186 | Fabia 1.2 TDI - 1.6 TDI START/STOP                | 1826          | 229        | DL H4 1.8L 1781cc                                 | 1723          | 225        |
| Ibiza Diesel                                    | 0395   | 186 | Fabia 1.2 TDI e 1.6 TDI START/STOP                | 1824          | 229        | Especial/Special                                  | 0711          | 196        |
| Ibiza 16V                                       | 0745   | 197 | Felicia   | 0892          | 203        | Especial/Special                                  | 1191          | 213        |
| Ibiza   | 0786   | 199 | Octavia 1.9 TDI                                   | 0937          | 204        | Especial/Special 1.8 GTI Turbo 4X4                | 1213          | 214        |
| Ibiza 1.9 D/TD                                  | 0937   | 204 | Octavia 1.6, 1.8, 1.8T, 2.0                       | 1108          | 210        |   |               |            |

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| Forester 2.0                    | 1018          | 207        | 37 MT Séries DD Starters                              | 1013          | 207        | CG-II M12 Isuzu 2.0L (TK C201) Diesel         | 0792          | 199        |
| GL H4 1.8L 1781cc               | 1723          | 225        | Caterpillar Facet 1006L                               | 0555          | 190        | CG-II M20 Isuzu 2.0L (TK C201) Diesel         | 0792          | 199        |
| GL H4 1.8L 1781cc wo/Turbo      | 1723          | 225        | Caterpillar Facet                                     | 0556          | 190        | CG-II M22 Isuzu 2.0L (TK C201) Diesel         | 0792          | 199        |
| GL-10 H4 1.8L 1781cc wo/Turbo   | 1723          | 225        | Forklift SD25Z1                                       | 0376          | 185        | CG-II M30 Isuzu 2.0L (TK C201) Diesel         | 0792          | 199        |
| GLF H4 1.8L 1781cc VIN 4        | 1723          | 225        | Lift Trucks FHG20N H25                                | 1592          | 218        | NWD   | 0792          | 199        |
| Impreza 1.6, 1.8, 2.0 2WD e 4WD | 1018          | 207        | Lift Trucks FHG20N Z24                                | 1592          | 218        | SB-II Isuzu 2.0L (TK C201) Diesel             | 0792          | 199        |
| Impreza 1.8                     | 1213          | 214        | Lift Trucks FHG25N H25                                | 1592          | 218        | SB-II 30 di / TC                              | 0792          | 199        |
| Justy                           | 0517          | 189        | Lift Trucks FHG25N Z24                                | 1592          | 218        | SB-II 30 MAX                                  | 0792          | 199        |
| Justy 1.0                       | 1018          | 207        | Lift Trucks FHG30N H25                                | 1592          | 218        | SB-III  | 0792          | 199        |
| Justy 1.2                       | 0519          | 189        | Lift Trucks FHG30N Z24                                | 1592          | 218        | SB-III Isuzu 2.0L (TK C201) Diesel            | 0792          | 199        |
| Legacy 2.0, 2.2 e 2.5           | 1018          | 207        | Lifts Trucks Fhg 20N Z24 Engine                       | 9495          | 234        | SB-III MAX                                    | 0792          | 199        |
| Legacy 1.8 2WD                  | 1213          | 214        | Motores 28MT 12/24V                                   | 1112          | 211        | SB-III SR                                     | 0792          | 199        |
| Legacy 2.2                      | 1213          | 214        | Série 28MT 12/12V                                     | 0722          | 196        | Sentry Isuzu 2.0L (TK C201) Diesel            | 0792          | 199        |
| RX H4 1.8L 1781cc               | 1723          | 225        | Série 28MT 12/24V C/ Motor OM904, OM906, OM924, OM926 | 0985          | 206        | Sentry SD1200 Isuzu C201                      | 0792          | 199        |
| Standard H4 1.8L 1781cc VIN 5   | 1723          | 225        | Série 37MT 12/24V                                     | 0625          | 193        | Sentry 30 di / TC                             | 0792          | 199        |
| Subaru A11                      | 0341          | 184        | Série 37MT 12/24V (MB, VW, Ford).                     | 0624          | 193        | SNWD  | 0792          | 199        |
| <b>Suzuki</b>                   | <b>Nº ZEN</b> | <b>Pg.</b> | Série 40MT  | 0879          | 202        | Super II Isuzu 2.0L (TK C201) Diesel          | 0792          | 199        |
| Baleno                          | 0576          | 191        | Série 42 MT 12/24V                                    | 0930          | 204        | Super II 30 / MAX Isuzu 2.0L (TK C201) Diesel | 0792          | 199        |
| Corry                           | 0951          | 205        | Série 42 MT 12/24V                                    | 1210          | 214        | Super NWD                                     | 0792          | 199        |
| Jimmy                           | 0808          | 200        | Série 42MT 24V Allis Chalmer                          | 0188          | 181        | <b>Tiete</b>                                  | <b>Nº ZEN</b> | <b>Pg.</b> |
| Maruti                          | 0951          | 205        | Série 42MT 12/24V                                     | 0879          | 202        | Motor Estacionário RD900                      | 0323          | 184        |
| Samurai Gasolina                | 0352          | 185        | Série 42MT 12/24V                                     | 0914          | 203        | Motor Estacionário RD900L                     | 0323          | 184        |
| Samurai                         | 0450          | 187        | Série 42MT 24V com motor Detroit                      | 0182          | 180        | Motor Estacionário RD950                      | 0323          | 184        |
| Sidekick                        | 0450          | 187        | Série 50 MT 12/24V                                    | 1210          | 214        | Motor Estacionário RD950L                     | 0323          | 184        |
| Sidekick                        | 0595          | 192        | Série 50MT 12/24V                                     | 0879          | 202        | <b>Tigershark</b>                             | <b>Nº ZEN</b> | <b>Pg.</b> |
| SJ 410                          | 0450          | 187        | Série 50MT 12/24V                                     | 0914          | 203        | Jet Ski Mod. 770 Twin, 900, 1000 e 1100       | 1036          | 208        |
| SJ 413                          | 0450          | 187        | Série 50MT 12/24V                                     | 0930          | 204        | <b>Timberjack</b>                             | <b>Nº ZEN</b> | <b>Pg.</b> |
| Swift 1.3                       | 0576          | 191        | <b>TCM Equipment Lift Truck</b>                       | <b>Nº ZEN</b> | <b>Pg.</b> | 608, 608 Harvester - Ciber Vibrador           | 0722          | 196        |
| Swift 1.3                       | 0808          | 200        | FD100Z 6BD1 Motor 0000                                | 0894          | 203        | <b>Toyota</b>                                 | <b>Nº ZEN</b> | <b>Pg.</b> |
| Vitara 1.6 16V                  | 0450          | 187        | FD35Z 6BB1 Motor 0000                                 | 0894          | 203        | 1300  | 0871          | 202        |
| Vitara                          | 0595          | 192        | FD35Z5 Isuzu D500 0000                                | 0894          | 203        | 2B, 3B  | 9301          | 234        |
| Vitara                          | 0617          | 192        | FD38Z 6BB1 Motor 0000                                 | 0894          | 203        | 2S  | 0947          | 205        |
| Vitara 1.6                      | 0871          | 202        | FD38Z Isuzu D500 0000                                 | 0894          | 203        | 2S  | 1722          | 224        |
| Vitara                          | 1030          | 208        | FD40Z 6BB1 Motor 0000                                 | 0894          | 203        | 2S - 2Y - 3Y - 4Y                             | 9186          | 234        |
| Wagon R                         | 1509          | 216        | FD40Z2 Isuzu D500 0000                                | 0894          | 203        | 2Y  | 0947          | 205        |
| XL7 V6 3.6L 3564cc              | 0806          | 200        | FD45Z 6BB1 Motor 0000                                 | 0894          | 203        | 2Y 2.2  | 0947          | 205        |
| <b>Talbot</b>                   | <b>Nº ZEN</b> | <b>Pg.</b> | FD50Z 6BB1 Motor 0000                                 | 0894          | 203        | 2Y  | 1722          | 224        |
| Especial/Special                | 0451          | 187        | FD50Z6 Isuzu D500 0000                                | 0894          | 203        | 2Y 2.2  | 1722          | 224        |
| Especial/Special                | 1056          | 209        | FD60Z 6BB1 Motor 0000                                 | 0894          | 203        | 3Y  | 0947          | 205        |
| Tagora D                        | 0530          | 190        | FD60Z5 Isuzu D500 0000                                | 0894          | 203        | 3Y  | 1722          | 224        |
| <b>Tata</b>                     | <b>Nº ZEN</b> | <b>Pg.</b> | FD70Z 6BB1 Motor 0000                                 | 0894          | 203        | 4A - 5A - 4E - 5E                             | 0809          | 200        |
| Ace                             | 1715          | 224        | FD70Z2 Isuzu D500 0000                                | 0894          | 203        | 4K - 5K                                       | 0841          | 201        |
| Cummins 6BT 12                  | 1707          | 224        | FD80Z7 6BD1 Motor 0000                                | 0894          | 203        | Auris 2.0 D-4D                                | 1884          | 232        |
| HD 10 (TCL 4BT/6BT)             | 1682          | 222        | FG35N3 0000   | 0429          | 187        | Auris 2.2 D                                   | 1884          | 232        |
| Indica                          | 1681          | 222        | Various Models 4XC1 Engine                            | 0498          | 189        | Avensis 2.0 TD                                | 1107          | 210        |
| Indica                          | 1717          | 224        | <b>Teledyne</b>                                       | <b>Nº ZEN</b> | <b>Pg.</b> | Avensis 2.0                                   | 1211          | 214        |
| Indica Diesel                   | 1504          | 216        | Especial/Special                                      | 0645          | 194        | Avensis 1.6 - 1.8 VV T - I                    | 1547          | 217        |
| Indigo                          | 1715          | 224        | F163 0000   | 0567          | 191        | Avensis                                       | 1720          | 224        |
| LP 1210US                       | 1516          | 216        | F227 0000   | 0567          | 191        | Avensis                                       | 1857          | 230        |
| Manza                           | 1752          | 226        | F245 0000   | 0567          | 191        | Avensis 2.0 D-4D                              | 1884          | 232        |
| Pick Up                         | 1518          | 217        | F4  | 0567          | 191        | Avensis 2.2 D-4D                              | 1884          | 232        |
| Safari Diesel                   | 1717          | 224        | F6  | 0567          | 191        | Avensis 2.0                                   | 12609         | 236        |
| Safari Petrol                   | 1717          | 224        | TC56  | 0567          | 191        | Ayco 1.4 D                                    | 1812          | 229        |
| Tata Cummins                    | 1516          | 216        | Y112  | 0567          | 191        | Aygo 1.0                                      | 1545          | 217        |
| Tatamobile Sumo                 | 1518          | 217        | <b>Terex</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | Bandeirante                                   | 0025          | 176        |
| Vista                           | 1752          | 226        | Empilhadeira GEP 23                                   | 13131         | 237        | Bandeirante MBB-OM314                         | 0034          | 176        |

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| Bandeirante MBB-OM 314                  | 0105   | 179 | Coaster                                       | 1830   | 230 | Dyna   | 0140   | 180 |
| Bandeirante                             | 1221   | 214 | Colt  | 0361   | 185 | Dyna   | 0947   | 205 |
| Bandeirante (MBB-OM 314)                | 1364   | 215 | Conquest                                      | 0918   | 204 | Dyna   | 1722   | 224 |
| Bandeirantes OM 364                     | 1638   | 221 | Copain 1.0                                    | 0184   | 180 | Echo P1 1.4 D-4D   | 9678   | 235 |
| Camry                                   | 0947   | 205 | Corolla                                       | 0140   | 180 | Especial/Special   | 0376   | 185 |
| Camry 2.0 D TURBO                       | 1097   | 210 | Corolla 1.2, 1.3, 1.4, 1.6                    | 0184   | 180 | Elios  | 0809   | 200 |
| Camry                                   | 1170   | 212 | Corolla                                       | 0327   | 184 | Elios Diesel   | 1816   | 229 |
| Camry 1.8 / 2.0 / 2.2i / 3.0 V6         | 1211   | 214 | Corolla 1.9L 1858cc                           | 0353   | 185 | Europe Car Celica 2000                                       | 0353   | 185 |
| Camry 4 cil 2.0L 1998cc                 | 1555   | 217 | Corolla                                       | 0475   | 188 | Europe Car Corona 1500                                       | 0353   | 185 |
| Camry 4 cil 2.0L 1998cc 122cid          | 1555   | 217 | Corolla                                       | 0498   | 189 | Europe Car Corona 1600                                       | 0353   | 185 |
| Camry 6 cil 2.5L 2508cc                 | 1555   | 217 | Corolla 1.3                                   | 0809   | 200 | Europe Car Corona 1700                                       | 0353   | 185 |
| Camry                                   | 1722   | 224 | Corolla 1.6                                   | 0809   | 200 | Europe Car Corona 1800                                       | 0353   | 185 |
| Camry 1.8 - 2.0                         | 9186   | 234 | Corolla 1.6 Gti 16V                           | 0809   | 200 | Europe Car Corona 1900                                       | 0353   | 185 |
| Camry 4 cil 2.0L 1998cc                 | 9502   | 234 | Corolla                                       | 0818   | 200 | Europe Car Corona 2000                                       | 0353   | 185 |
| Camry 4 cil 2.0L 1998cc 122cid          | 9502   | 234 | Corolla 1.3                                   | 0841   | 201 | Fielder  | 0998   | 207 |
| Camry 6 cil 2.5L 2508cc                 | 9502   | 234 | Corolla 1.3 e 1.6 8T                          | 0874   | 202 | Fielder 1.8 16V  | 1547   | 217 |
| Camry 4 cil 2.0L 1998cc                 | 9506   | 235 | Corolla                                       | 0918   | 204 | FJ 60  | 0140   | 180 |
| Camry 4 cil 2.0L 1998cc 122cid          | 9506   | 235 | Corolla                                       | 0947   | 205 | FJ 60  | 0353   | 185 |
| Camry 6 cil 2.5L 2508cc                 | 9506   | 235 | Corolla                                       | 0998   | 207 | Fortuner   | 1813   | 229 |
| Camry 1.8 / 2.0 / 2.2 / 2.5 V6 / 3.0 V6 | 12609  | 236 | Corolla 1.8 D, 2.0 D                          | 1097   | 210 | Fortuner   | 1841   | 230 |
| Carina 1.4, 1.6, 2.0                    | 0140   | 180 | Corolla 2.0 Diesel                            | 1155   | 211 | Galant   | 0361   | 185 |
| Carina 1.4, 1.6                         | 0184   | 180 | Corolla Diesel                                | 1170   | 212 | HDB50  | 1830   | 230 |
| Carina 1.6, 2.0                         | 0327   | 184 | Corolla 1.4 - 1.6 VV T - I                    | 1547   | 217 | HDB51  | 1830   | 230 |
| Carina 1.9L 1858cc 113cid               | 0353   | 185 | Corolla 1.8i 16v                              | 1547   | 217 | Hi Ace   | 0140   | 180 |
| Carina                                  | 0947   | 205 | Corolla                                       | 1720   | 224 | Hiace  | 0841   | 201 |
| Carina                                  | 1170   | 212 | Corolla                                       | 1722   | 224 | Hiace  | 1813   | 229 |
| Carina                                  | 1722   | 224 | Corolla                                       | 1813   | 229 | Hiace 2000   | 0353   | 185 |
| Carina E T19 2.0 D CT190                | 9678   | 235 | Corolla 2.0                                   | 1875   | 231 | Hiace I Box H10 2.2 D LH20-30                                | 9678   | 235 |
| Carina E Saloon T19 2.0 D CT190         | 9678   | 235 | Corolla 2.0 D-4D                              | 1884   | 232 | Hiace II Box H20 2.4 D                                       | 9678   | 235 |
| Carina II 1.6                           | 0809   | 200 | Corolla 2.2 D-4D                              | 1884   | 232 | Hiace III Box H50 2.4 D 4WD                                  | 9678   | 235 |
| Carina II 2.0i                          | 1211   | 214 | Corolla 1.8 - 2.0                             | 9186   | 234 | Hiace III Wagon H50 2.4 D, 2.4 D 4WD                         | 9678   | 235 |
| Carina II 1.8 - 2.0                     | 9186   | 234 | Corolla E10 2.0 D CE100                       | 9678   | 235 | Hiace IV Box 2.4 D LXH12, LXH22, 2.4 TD 4WD LXH18, LXH28     | 9678   | 235 |
| Carina II 2.0i                          | 12609  | 236 | Corolla E11 2.0 D CE110                       | 9678   | 235 | Hiace IV Wagon 2.4 D, 2.4 TD LXH12, LXH22, 2.4 TD 4WD H18/28 | 9678   | 235 |
| Celica 1.4, 1.6, 2.0, 2.2, 2.3          | 0140   | 180 | Corolla Compact E10 2.0 D CE100               | 9678   | 235 | Hilux  | 0140   | 180 |
| Celica 1.4, 1.6                         | 0184   | 180 | Corolla Compact E11 2.0 D CE110               | 9678   | 235 | Hilux  | 0327   | 184 |
| Celica 1.6, 2.0                         | 0327   | 184 | Corolla Liftback E10 2.0 D CE100              | 9678   | 235 | Hilux 2.8 Diesel   | 0921   | 204 |
| Celica 1.6 GT 16V                       | 0809   | 200 | Corolla Liftback E11 2.0 D CE110              | 9678   | 235 | Hilux  | 0947   | 205 |
| Celica                                  | 0947   | 205 | Corolla Verso 2.2 D-4D                        | 1884   | 232 | Hilux 2.8  | 0954   | 205 |
| Celica 2.0 GT /2.0 GTi / 2.0 Turbo      | 1211   | 214 | Corolla Wagon E10 2.0 D CE100                 | 9678   | 235 | Hilux 2.7  | 0998   | 207 |
| Celica 4 cil 2.0L 1998cc                | 1555   | 217 | Corolla Wagon E11 2.0 D CE110                 | 9678   | 235 | Hilux 2.8 D  | 1215   | 214 |
| Celica 4 cil 2.0L 1998cc 122cid         | 1555   | 217 | Corona 1.4, 1.6, 1.8, 1.9, 2.0, 2.2, 2.3, 2.6 | 0140   | 180 | Hilux  | 1555   | 217 |
| Celica 4 cil 2.2L 2164cc                | 1555   | 217 | Corona 1.4, 1.6                               | 0184   | 180 | Hilux 2.5 / 2.8  | 1562   | 218 |
| Celica                                  | 1720   | 224 | Corona 1.6, 1.8, 2.0, 2.3                     | 0327   | 184 | Hilux  | 1722   | 224 |
| Celica                                  | 1722   | 224 | Corona  | 1170   | 212 | Hilux  | 1813   | 229 |
| Celica 4 cil 2.0L 1998cc                | 9502   | 234 | Corona L4                                     | 0353   | 185 | Hilux  | 1841   | 230 |
| Celica 4 cil 2.0L 1998cc 122cid         | 9502   | 234 | Corona L4 1.9L 1897cc 116cid                  | 0353   | 185 | Hilux 2.8  | 9678   | 235 |
| Celica 4 cil 2.2L 2164cc                | 9502   | 234 | Corona L4 1.9L 1898cc                         | 0353   | 185 | Hilux 2000   | 0353   | 185 |
| Celica 4 cil 2.0L 1998cc                | 9506   | 235 | Corona L4 2.0L 1968cc                         | 0353   | 185 | Hilux II Pickup N 2.4 D, 2.4 D 4WD, 2.4 TD 4WD               | 9678   | 235 |
| Celica 4 cil 2.0L 1998cc 122cid         | 9506   | 235 | Corona L4 2.0L 1968cc 120cid                  | 0353   | 185 | Hilux SW 4 3.0   | 1097   | 210 |
| Celica 4 cil 2.2L 2164cc                | 9506   | 235 | Corona L4 2.2L 2189cc                         | 0353   | 185 | HZB40  | 1830   | 230 |
| Celica GT 2.0                           | 12609  | 236 | Coupe 1.6 GT16V                               | 0809   | 200 | Ipsium   | 1555   | 217 |
| Celica GTi 16 V                         | 12609  | 236 | Cressi DA                                     | 0361   | 185 | JR 7   | 0947   | 205 |
| Celica L4 1.9L 1858cc 113cid            | 0353   | 185 | Crown   | 0140   | 180 | JR 7   | 1722   | 224 |
| Celica L4 1.9L 1898cc                   | 0353   | 185 | Crown   | 0327   | 184 | Kijang Innova  | 1813   | 229 |
| Celica L4 2.0L 1968cc                   | 0353   | 185 | Crown   | 0353   | 185 | L -2L  | 0921   | 204 |
| Celica L4 2.0L 1968cc 120cid            | 0353   | 185 | Crown   | 1813   | 229 |  |        |     |
| Celica L4 2.2L 2189cc                   | 0353   | 185 | Delta Hi Ace                                  | 0327   | 184 |  |        |     |
| Celica Turbo 2.0                        | 12609  | 236 |   |        |     |  |        |     |



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| Land Cruiser 2.8 Diesel  | 0921   | 204 | Trator T3230 4 Série Brasil                       | 1633          | 220        | 110KVA                           | 0087   | 233 |
| Land Cruiser   | 1215   | 214 | Trator T5045 4 Série Brasil                       | 1633          | 220        | 112                              | 0366   | 185 |
| Land Cruiser 4.20 D (HZJ80)  | 1830   | 230 | Tratores Tramontini                               | 1744          | 225        | 112 113DAN                       | 0312   | 183 |
| Land Cruiser 4.20 TD (HDJ80)                                       | 1830   | 230 | Tratores Tramontini TR18                          | 1753          | 226        | 113DAN                           | 0366   | 185 |
| Land Cruiser Bundera J7 2.4 D LJ70, 2.4 TD LJ70, LJ73, 2.4 TD LJ70 | 9678   | 235 | <b>Triumph</b>                                    | <b>Nº ZEN</b> | <b>Pg.</b> | 115KVA                           | 0087   | 233 |
| Land Cruiser Hardtop J7 2.4 TD LJ77                                | 9678   | 235 | 2000  | 0412          | 186        | 118                              | 1364   | 215 |
| Land Cruiser L6 4.5L 4477cc  | 0816   | 200 | 2500  | 0412          | 186        | 118 D229-6 5.9                   | 1073   | 210 |
| Land Cruiser Prado   | 1813   | 229 | Dolomite  | 0170          | 233        | 118 PID A 229-6 TV Alc. 5.9      | 1073   | 210 |
| Landcruiser 3.0 TD - D-4D  | 1097   | 210 | Dolomite  | 0171          | 233        | 12.5                             | 0366   | 185 |
| Lite Ace   | 0184   | 180 | Spitfire  | 0170          | 233        | 125KVA                           | 0087   | 233 |
| Lite- Ace 2.0 D  | 1097   | 210 | Spitfire  | 0171          | 233        | 128                              | 1364   | 215 |
| Lite-Ace 1.5   | 0809   | 200 | Toledo  | 0170          | 233        | 128 4X4 D 229-6 VS               | 1073   | 210 |
| Liteace 1.5  | 0841   | 201 | Toledo  | 0171          | 233        | 128 4X4 PID A 229-6 Alcool       | 1073   | 210 |
| Mark2  | 0140   | 180 | TR 6  | 0412          | 186        | 128 D229-6 VS 5.9                | 1073   | 210 |
| Mark2  | 0327   | 184 | <b>Troller</b>                                    | <b>Nº ZEN</b> | <b>Pg.</b> | 138                              | 1364   | 215 |
| MR 2   | 0947   | 205 | T4 MWM  | 1063          | 209        | 138/4 Turbo                      | 1364   | 215 |
| MR 2   | 1722   | 224 | T4  | 1550          | 217        | 148                              | 1364   | 215 |
| MR-2 1.6 GT  | 0809   | 200 | T4  | 1635          | 220        | 15                               | 0028   | 176 |
| MR-2 2.0   | 1211   | 214 | <b>TVR</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | 15                               | 0366   | 185 |
| MR2  | 9186   | 234 | 3000  | 0412          | 186        | 150KVA (V1308)                   | 0087   | 233 |
| Passéo   | 0809   | 200 | Vixen   | 0412          | 186        | 18                               | 0366   | 185 |
| Pick Up  | 0184   | 180 | Vixen 1300  | 0380          | 233        | 195                              | 0366   | 185 |
| Pick Up L4 2.0L 1968cc   | 0353   | 185 | <b>Universal</b>                                  | <b>Nº ZEN</b> | <b>Pg.</b> | 198                              | 0366   | 185 |
| Picnic 2.0   | 1211   | 214 | Engine Marine 5421 Kubota D850 21 HP, 3 cil Dsl   | 0353          | 185        | 20                               | 0366   | 185 |
| Picnic 2.0   | 12609  | 236 | Engine Marine M25 Kubota D850 21 HP, 3 cil Dsl    | 0353          | 185        | 20KVA                            | 0447   | 187 |
| R-2 GT-Turbo 2.0   | 12609  | 236 | Engine Marine M25 XP Kubota D950 23HP, 3 cil Dsl  | 0353          | 185        | 22                               | 0028   | 176 |
| RAV 4 III 2.2 D-4D   | 1884   | 232 | Engine Marine M25 XPA Kubota D950 23HP, 3 cil Dsl | 0353          | 185        | 24                               | 0366   | 185 |
| RAV-4 2.0  | 1211   | 214 | <b>Ursus</b>                                      | <b>Nº ZEN</b> | <b>Pg.</b> | 25                               | 0366   | 185 |
| RAV-4 2.0  | 12609  | 236 | C-330M/335 S312C                                  | 1600          | 219        | 295                              | 0366   | 185 |
| Sprinter 1.6   | 0140   | 180 | C-360 S4003                                       | 1600          | 219        | 298                              | 0366   | 185 |
| Sprinter   | 0184   | 180 | <b>Vagan</b>                                      | <b>Nº ZEN</b> | <b>Pg.</b> | 30                               | 0028   | 176 |
| Sprinter 1.6   | 0327   | 184 | Especial/Special                                  | 1509          | 216        | 30                               | 0366   | 185 |
| Sprinter 1.3L 1290cc   | 0353   | 185 | <b>Valmet</b>                                     | <b>Nº ZEN</b> | <b>Pg.</b> | 32.5                             | 0366   | 185 |
| Starlet 1.0, 1.2   | 0184   | 180 | 10  | 0028          | 176        | 35                               | 0028   | 176 |
| Starlet  | 0498   | 189 | 101   | 0366          | 185        | 395SV                            | 0312   | 183 |
| Starlet 1.0 / 1.2 / 1.3  | 0809   | 200 | 102   | 0366          | 185        | 395SV                            | 0366   | 185 |
| Starlet L4 1.5L 1452cc   | 0353   | 185 | 103   | 0366          | 185        | 50DA                             | 0028   | 176 |
| Tacoma   | 0818   | 200 | 103 104SU   | 0312          | 183        | 62ID MWM-D 225-3                 | 0028   | 176 |
| Tagora TD  | 0406   | 186 | 104SU   | 0366          | 185        | 62ID Com Motor MWM D 225-3, 4, 6 | 1076   | 210 |
| Tercel   | 0809   | 200 | 1051  | 0312          | 183        | 65ID MWM-D 225-3                 | 0028   | 176 |
| Tercel   | 0947   | 205 | 1051  | 0366          | 185        | 65ID Com Motor MWM D 225-3, 4, 6 | 1076   | 210 |
| Tercel   | 1722   | 224 | 1052  | 0312          | 183        | 68                               | 0028   | 176 |
| Tercel 1300  | 0353   | 185 | 1053  | 0366          | 185        | 68 Cafeeiro                      | 0028   | 176 |
| Tercel 1500  | 0353   | 185 | 1053  | 0312          | 183        | 68 Especial MWM-D 229-3          | 0028   | 176 |
| Tercel L4 1.5L 1452cc 3AC  | 0353   | 185 | 1054  | 0312          | 183        | 685 Com Motor MWM D 225-3, 4, 6  | 1076   | 210 |
| Tercel L4 1.5L 1456cc 3E   | 0353   | 185 | 1054SU  | 0366          | 185        | 78                               | 1364   | 215 |
| Tercel L4 1.9L 1858cc 113cid                                       | 0353   | 185 | 1056SU  | 0312          | 183        | 85ID MWM-D 229-3                 | 0028   | 176 |
| Toyoace  | 0549   | 190 | 1056SV  | 0312          | 183        | 85ID Com Motor MWM D 225-3, 4, 6 | 1076   | 210 |
| Truck Pick Up L4   | 0353   | 185 | 11  | 0028          | 176        | 85ID                             | 1364   | 215 |
| Truck Pick Up L4 1.9L 1858cc                                       | 0353   | 185 | 110 225-6 5.7                                     | 1073          | 210        | 88                               | 1364   | 215 |
| Truck Pick Up L4 1.9L 1897cc 116cid                                | 0353   | 185 | 110ID MWM-D 225-6                                 | 0028          | 176        | 880                              | 1364   | 215 |
| Truck Pick Up L4 1.9L 1898cc                                       | 0353   | 185 | 110ID Com Motor MWM D 225-3, 4, 6                 | 1076          | 210        | 885                              | 0392   | 185 |
| Truck Pick Up L4 2.0L 1968cc 120cid                                | 0353   | 185 | 110ID   | 1364          | 215        | 980                              | 1364   | 215 |
| Truck Pick Up L4 2.2L 2189cc                                       | 0353   | 185 |   |               |            | A 75N/A75L 33 DTA 3.3            | 1701   | 223 |
| Twin Cam 1.6 GT16V   | 0809   | 200 |   |               |            | A 85N/A85L 44DT/33DTA 4.4        | 1701   | 223 |
| Yaris Verso NC/LP2 1.4 D-4D NLP22                                  | 9678   | 235 |   |               |            | A 95N/A95L 44DT/33DTA 4.4        | 1701   | 223 |
|  |        |     |   |               |            | Especial/Special                 | 0485   | 189 |
|  |        |     |   |               |            | HR392A                           | 0447   | 187 |

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|--|---------------|------------|---------------------------|--------|-----|-------------------------------|---------------|------------|
| HR488 HT2                                  | 0366          | 185        | 565 320DS Turbo           | 1600   | 219 | BH180i Sisu 620DSA 6 Cil      | 1698          | 223        |
| HR488H                                     | 0447          | 187        | 604 311C/CS 3.3           | 1600   | 219 | BH205i Sisu 620DSA 6 Cil      | 1698          | 223        |
| HR488HT                                    | 0447          | 187        | 6100 320DS Turbo          | 1600   | 219 | BM100 Sisu 420DS 4 Cil        | 1698          | 223        |
| HR488HTA                                   | 0447          | 187        | 6200 44DT 4.4             | 1698   | 223 | BM110 Sisu 420DS 4 Cil        | 1698          | 223        |
| HR492A                                     | 0447          | 187        | 620DSBIE 7.4              | 1600   | 219 | BM125i Sisu 420DSA 4 Cil      | 1698          | 223        |
| HR492AT                                    | 0378          | 185        | 6250 Hi 44DT 4.4          | 1698   | 223 | BT150 Sisu 620DS 6 Cil        | 1698          | 223        |
| HR492HT                                    | 0447          | 187        | 6300 420 4.4              | 1600   | 219 | BT170 Sisu 620DS 6 Cil        | 1698          | 223        |
| HR688H                                     | 0378          | 185        | 6300 44DT 4.4             | 1698   | 223 | BT190 Sisu 620DSA 6 Cil       | 1698          | 223        |
| HR688H                                     | 0392          | 185        | 6350 Hi 44DT 4.4          | 1698   | 223 | BT210 Sisu 620DSA 6 Cil       | 1698          | 223        |
| HR688HT                                    | 0378          | 185        | 6400 420DS/DW             | 1600   | 219 | C100 420DS Turbo              | 1600          | 219        |
| HR688HT                                    | 0392          | 185        | 6400 44ET 4.4             | 1698   | 223 | C15,C20 420DS                 | 1600          | 219        |
| HR692HT                                    | 0378          | 185        | 6550 Hi 44ET 4.4          | 1698   | 223 | C200 420DS                    | 1600          | 219        |
| HT9  | 0447          | 187        | 66 ETA 6.6                | 1698   | 223 | Mega 8050 620D                | 1600          | 219        |
| T1054SU                                    | 0366          | 185        | 6600 320DS Turbo/420DS    | 1600   | 219 | Mega 8150 620D                | 1600          | 219        |
| Trator MWM 3, 4 e 6 cil                    | 0085          | 178        | 665S 420D                 | 1600   | 219 | Mega 8550 620DS               | 1600          | 219        |
| Trator                                     | 1059          | 209        | 6750 420DWRIE 4.4         | 1600   | 219 | Mega 8750 634 DA, DS          | 1600          | 219        |
| Trator                                     | 1224          | 214        | 6800 420DWI               | 1600   | 219 | Motores M100R                 | 1726          | 225        |
| Trator 110ID                               | 0105          | 179        | 685                       | 1699   | 223 | S260 645DSBAE 8.4             | 1600          | 219        |
| Trator 118                                 | 0105          | 179        | 6850 420DWRIE 4.4         | 1600   | 219 | S280 84ETA 8.4                | 1698          | 223        |
| Trator 1180                                | 0557          | 190        | 6850 Hi 44EWI 4.4         | 1698   | 223 | Trator                        | 1678          | 222        |
| Trator 1180S com motor Valtra (importado)  | 0392          | 185        | 685ATS                    | 1699   | 223 | Trator                        | 1726          | 225        |
| Trator 128                                 | 0105          | 179        | 6900                      | 1698   | 223 | X120 420DWRIE 4.4             | 1600          | 219        |
| Trator 1280                                | 0557          | 190        | 74 ETA 8.4                | 1698   | 223 | <b>Vauxhall</b>               | <b>Nº ZEN</b> | <b>Pg.</b> |
| Trator 138                                 | 0105          | 179        | 800                       | 1600   | 219 | Astra D                       | 0474          | 188        |
| Trator 138/4 turbo                         | 0105          | 179        | 8000 620D                 | 1600   | 219 | Astra F Estate 1.7L T DSL     | 1556          | 218        |
| Trator 1380S com motor Valtra (importado)  | 0392          | 185        | 805                       | 1600   | 219 | Cavalier D                    | 0474          | 188        |
| Trator 148                                 | 0105          | 179        | 805-4 TD44DS8(411DS8) 4.4 | 1600   | 219 | Corsa 1.0 12V                 | 1619          | 220        |
| Trator 1680S com motor Valtra (importado)  | 0392          | 185        | 8050                      | 1600   | 219 | Corsa 1.2 16V                 | 1619          | 220        |
| Trator 68                                  | 0496          | 189        | 8050 620 DS 6.6           | 1600   | 219 | Corsa 1.4 16V                 | 1619          | 220        |
| Trator 68 Cafeeiro                         | 0496          | 189        | 8100                      | 1600   | 219 | Corsa 1.6i                    | 1619          | 220        |
| Trator 68 Especial                         | 0496          | 189        | 8150                      | 1600   | 219 | Corsa 1.8 16V                 | 1619          | 220        |
| Trator 78                                  | 0105          | 179        | 8200                      | 1600   | 219 | Cresta                        | 0412          | 186        |
| Trator 85ID                                | 0105          | 179        | 8350 620DSI               | 1600   | 219 | Especial/Special              | 1056          | 209        |
| Trator 88                                  | 0105          | 179        | 84 ETA, DTA 8.4           | 1698   | 223 | Firenza                       | 0412          | 186        |
| Trator 880                                 | 0105          | 179        | 8400                      | 1600   | 219 | Magnum                        | 0412          | 186        |
| Trator 885                                 | 0557          | 190        | 8400 620DS Turbo          | 1600   | 219 | Magnum 1800                   | 1188          | 212        |
| Trator 885S com motor Valtra (importado)   | 0392          | 185        | 8450 620 DWRE 6.6         | 1600   | 219 | Magnum 2300                   | 1188          | 212        |
| Trator 980                                 | 0105          | 179        | 8450 620DS Turbo          | 1600   | 219 | Omega 2.0 - 2.2 DTH           | 1109          | 211        |
| Trator 985                                 | 0378          | 185        | 8550 634DSRE 7.4          | 1600   | 219 | Vectra 2.0 - 2.2 DTH - DTL    | 1109          | 211        |
| Trator 985                                 | 0557          | 190        | 8550,875 634DS Turbo      | 1600   | 219 | Vectra B 1.7L T DSL           | 1556          | 218        |
| Trator 985S com motor Valtra (importado)   | 0392          | 185        | 865 420DS Turbo           | 1600   | 219 | Victor                        | 0170          | 233        |
| Trator Série 1180 com motor Cummins 6B 5.9 | 0497          | 189        | 8950 634DSBIE             | 1600   | 219 | Victor                        | 0171          | 233        |
| Valtra                                     | 1060          | 209        | 900 420DSRE 4.4           | 1600   | 219 | Victor                        | 0412          | 186        |
| Valtra 785                                 | 1073          | 210        | A650 Sisu 320D 3 Cil      | 1701   | 223 | Victor FD 2000                | 1188          | 212        |
| Zetor                                      | 0902          | 203        | A750 Sisu 320DS 3 Cil     | 1701   | 223 | Victor FE 1800                | 1188          | 212        |
| <b>Valtra</b>                              | <b>Nº ZEN</b> | <b>Pg.</b> | A750L Sisu 420D 4 Cil     | 1698   | 223 | VX 1800-2300 M35              | 1188          | 212        |
| 255 320D                                   | 1600          | 219        | A850 Sisu 320DS 3 Cil     | 1701   | 223 | Zafira 2.0 - 2.2 DI - DTI 1.6 | 1109          | 211        |
| 355 320D                                   | 1600          | 219        | A85N/A85L 44DT 4.4        | 1698   | 223 | <b>Versatile</b>              | <b>Nº ZEN</b> | <b>Pg.</b> |
| 365S 320DS Turbo                           | 1600          | 219        | A950 Sisu 420DS 4 Cil     | 1698   | 223 | 330                           | 0205          | 181        |
| 44 DT, ETA, EWA, DW 4.4                    | 1698          | 223        | A95N/A95L 44DT 4.4        | 1698   | 223 | <b>VM</b>                     | <b>Nº ZEN</b> | <b>Pg.</b> |
| 455 320DS Turbo                            | 1600          | 219        | A990 Sisu 420DS 4 Cil     | 1698   | 223 | DM 188                        | 1065          | 209        |
| 465 320DS Turbo                            | 1600          | 219        | All Models                | 1600   | 219 | <b>Volkswagen</b>             | <b>Nº ZEN</b> | <b>Pg.</b> |
| 504 310B 2.7                               | 1600          | 219        | BC4500 Sisu 620DS 6 Cil   | 1698   | 223 | 11130                         | 1073          | 210        |
|  |               |            | BF65 Sisu 320D 3 Cil      | 1701   | 223 | 12.170 BT 6BTAA               | 1691          | 223        |
|  |               |            | BF75 Sisu 320DS 3 Cil     | 1701   | 223 | 13130                         | 1073          | 210        |
|  |               |            | BH145 Sisu 620DS 6 Cil    | 1698   | 223 | 13170 6BTAA                   | 1691          | 223        |
|  |               |            | BH165 Sisu 620DS 6 Cil    | 1698   | 223 | 13190 6BTAA                   | 1691          | 223        |
|  |               |            | BH180 Sisu 620DS 6 Cil    | 1698   | 223 |                               |               |            |

| Volkswagen                               | Nº ZEN | Pg. | Volkswagen  | Nº ZEN | Pg. | Volkswagen   | Nº ZEN | Pg. |
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| 16.170 6C                                | 1691   | 223 | Caminhão 13.210 Cummins 6 cil Turbo   | 1190   | 212 | Caminhões 31-370, 25-370, 19-370 com motor 9,3 litros international  | 1809   | 228 |
| 16200 motor cummins                      | 0497   | 189 | Caminhão 13180 MWM  | 1090   | 210 | Caminhões 31370, 25370, 19370 com motor 9,3 litros international e 18310, 19320, 31320                     | 13130  | 237 |
| 16200 6BTAA                              | 1691   | 223 | Caminhão 13190 MWM  | 1091   | 210 | Caminhões 8-150 Eletr Delivery Puls, 9-150E, 10-150E, 13-180E, 15-190E                                     | 1679   | 222 |
| 17210                                    | 1090   | 210 | Caminhão 14.210 Cummins 6 cil Turbo   | 0625   | 193 | Caminhões 8-150 Eletr Delivery Puls, 9-150E, 10-150E, 13-180E, 15-190E                                     | 1805   | 228 |
| 17210 6BTAA                              | 1691   | 223 | Caminhão 14.210 Cummins 6 cil Turbo   | 1190   | 212 | Caminhões 9-150 Eletr Delivery Com Motor Cummins   | 1679   | 222 |
| 26260                                    | 12972  | 237 | Caminhão 14170 CUM-6 CT 8,3lts (Eq. primario)   | 1190   | 212 | Caminhões 9-150 Eletr Delivery Com Motor Cummins   | 1805   | 228 |
| 6.80 com motor Perkins                   | 0024   | 176 | Caminhão 14210 CUM-6 CT 8,3lts (Eq. primario)   | 1190   | 212 | Caminhões com Motores Cummins  | 12688  | 240 |
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| Bora 1.9 TDI                             | 1655   | 221 | Caminhão VW16.170   | 0089   | 233 | Derby  | 0068   | 178 |
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| Bus/Eurovan 1.9 L                        | 0937   | 204 | Caminhão VW16.210   | 0089   | 233 |  |        |     |
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| Gol 1.6                                   | 0108   | 179 | Golf  | 1632   | 220 | Jetta L4 2.0L 1984cc 121cid GAS                 | 1891   | 232 |
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| Gol G3                                    | 0866   | 202 | Golf III 2.9 Syncro                           | 0900   | 203 |   |        |     |
| Gol G3 1.6 MI                             | 0925   | 204 | Golf IV 1.8 GTI Turbo                         | 1017   | 207 |   |        |     |
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| Logus 1.6, 1.6i, 1.8, 1.8i, 2.0, 2.0i, 2.0Mi  | 12685  | 240 | Ônibus 19320EOT - Quéops evolution com motor Cummins ISC 8,3 litros | 13130  | 237 | Pick Up 1.6  | 0068   | 178 |
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| LT 35   | 0108   | 179 | Ônibus 8-150 ODC / FEB, 9-150 ODC Com Motor Cummins ISB 4 e 6 cil   | 1805   | 228 | Pick Up  | 0605   | 192 |
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| LT28  | 0228   | 182 | Parati  | 0860   | 202 | Polo Diesel 1.0, 1.3                               | 0482   | 188 |
| LT28  | 0378   | 185 | Parati  | 0866   | 202 | Polo   | 0639   | 193 |
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| LT28  | 0631   | 193 | Parati  | 0933   | 204 | Polo   | 0932   | 204 |
| LT28  | 0857   | 202 | Parati  | 1534   | 217 | Polo 1.9 TDI                                       | 0937   | 204 |
| LT31  | 0228   | 182 | Parati 1.6, 1.8   | 12681  | 240 | Polo   | 0972   | 206 |
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| LT31  | 0392   | 185 | Parati AP 1.6 Mi, 1.8 Mi e 2.0 Mi - 8V e 16V                        | 0942   | 205 | Polo 1.6   | 1069   | 209 |
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| LT35  | 0857   | 202 | Parati G3 1.8Mi, 2.0Mi  | 12681  | 240 | Polo 1.4 16V - 1.4 FSI                             | 1632   | 220 |
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| Motor MWM X10   | 1372   | 215 | Passat 1.9 TDI  | 1067   | 209 | Quantum 1.8 Mi e 2.0 Mi                            | 1223   | 214 |
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| Multivan 3.2 V6 4Motion   | 1823   | 229 | Passat CC 1.9TDI - 2.0TDI - 16V - 4motion                           | 1856   | 230 | Quantum Mi 1.8, 2.0                                | 0866   | 202 |
| Multivan V 2.0 TDI START/STOP   | 1826   | 229 | Passat L4 2.0L 1984cc 121cid  | 1891   | 232 | R32 V6 3.2L 3189cc 195cid                          | 1891   | 232 |
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| Ônibus 16210 MWM  | 1092   | 210 | Passat Alemão   | 0729   | 196 | Santana  | 0467   | 188 |
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| Ônibus 17210 MWM  | 1092   | 210 | Passat GTS Pointer 1.8 5cil. a álcool                               | 0108   | 179 | Santana 1.8Mi, 1.8i, 2.0Mi, 2.0i                   | 12681  | 240 |
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| Saveiro G3 1.6Mi, 1.8 Mi, 2.0Mi               | 12681  | 240 | Transporter 1.3, 1.7, 1.8                                      | 0323          | 184        | 140                                  | 0108   | 179 |
| Saveiro G3 1.6/1.8/2.0 Mi                     | 12841  | 240 | Transporter 1.6 Diesel   | 0482          | 188        | 142                                  | 0080   | 178 |
| Saveiro III 1.8 MI e 2.0 MI                   | 1223   | 214 | Transporter 2.0  | 1108          | 210        | 142                                  | 0108   | 179 |
| Scirocco 1.1, 1.3, 1.6, 1.7 (USA)             | 0068   | 178 | Transporter 2.0  | 1632          | 220        | 144                                  | 0080   | 178 |
| Scirocco                                      | 0323   | 184 | Transporter 1.9 TDI  | 1823          | 229        | 144                                  | 0227   | 182 |
| Scirocco                                      | 0482   | 188 | Transporter 1600   | 0428          | 187        | 145                                  | 0080   | 178 |
| Scirocco 2.0 TDI                              | 1856   | 230 | Transporter 1700   | 0428          | 187        | 160                                  | 0108   | 179 |
| Scirocco 1.4 TSI START/STOP                   | 1826   | 229 | Transporter TD   | 0613          | 192        | 164                                  | 0080   | 178 |
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| Sedan refrigerado a ar / 1.3, 1.5, 1.6        | 0328   | 184 | Variant  | 0191          | 181        | 221                                  | 0227   | 182 |
| Sedan 1200                                    | 0131   | 179 | Variant  | 0192          | 181        | 222                                  | 0080   | 178 |
| Sedan 1300                                    | 0131   | 179 | Variant 2.9 Syncro   | 0900          | 203        | 240                                  | 0108   | 179 |
| Sedan 1500                                    | 0131   | 179 | Variant 1.9 TDI  | 1067          | 209        | 240 2.4 D                            | 0631   | 193 |
| Sedan 1600                                    | 0131   | 179 | Variant I  | 0065          | 177        | 240 Séries 2.4L - 2383cc (D24)       | 9702   | 235 |
| Senda Diesel                                  | 0348   | 184 | Variant II   | 0065          | 177        | 240 D                                | 0844   | 201 |
| Senda   | 0467   | 188 | Vento 2.8  | 0900          | 203        | 240 D, 740 TD, 940 TD                | 9526   | 235 |
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| Sharan 1.8 T 20V                              | 1017   | 207 | Voyage   | 0482          | 188        | 245 L4 2.3L 2316cc                   | 0537   | 190 |
| Sharan 1.8T, 2.0                              | 1108   | 210 | Voyage   | 1534          | 217        | 340                                  | 0108   | 179 |
| Sharan 1.9 TDI                                | 1655   | 221 | Voyage   | 1712          | 224        | 345                                  | 1187   | 212 |
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| SP1   | 0065   | 177 | Voyage 1.8   | 12681         | 240        | 406                                  | 0118   | 179 |
| SP1   | 0191   | 181 | Voyage C, CL, GL refrigerado a água                            | 0329          | 184        | 407                                  | 0118   | 179 |
| SP1   | 0192   | 181 | Voyage GLS 1.8 álcool e gasolina                               | 0108          | 179        | 440                                  | 1209   | 214 |
| SP2   | 0065   | 177 | VW LT 28 SDI, LT 35 SDI, LT 46 SDI                             | 1480          | 216        | 460                                  | 1209   | 214 |
| SP2   | 0191   | 181 | VW11.130   | 1364          | 215        | 480                                  | 1209   | 214 |
| SP2   | 0192   | 181 | VW11130  | 0085          | 178        | 50KVA                                | 0367   | 185 |
| Spacefox                                      | 1712   | 224 | VW13.130   | 1364          | 215        | 70KVA                                | 0367   | 185 |
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| Taro  | 1215   | 214 | VW7.110S   | 1364          | 215        | 740 2.4 D                            | 0631   | 193 |
| TC1600  | 0065   | 177 | VW7.90S  | 1364          | 215        | 740 Séries 2.4L - 2383cc (D24T)      | 9702   | 235 |
| TC1600  | 0191   | 181 | Worker Cummins   | 1603          | 219        | 740 TD                               | 0844   | 201 |
| TC1600  | 0192   | 181 | <b>Volvo</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | 760                                  | 0108   | 179 |
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| Titan   | 1523   | 217 | 100200   | 0227          | 182        | 760 L4 2.3L 2316cc                   | 0537   | 190 |
| Titan Cummins C                               | 1603   | 219 | 106SU MH 11  | 0367          | 185        | 760 2.4 TD                           | 0631   | 193 |
|   |        |     |  |               |            | 760 Séries 2.4L - 2383cc (D24, D24T) | 9702   | 235 |

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| AQ90   | 0227   | 182 | Caminhões VN com motor Cummins ISX               | 1810   | 228 | LM841  | 0367   | 185 |
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| C30  | 1882   | 232 | Chassi p/ ônibus B10M                            | 0087   | 233 | Motor Cummins ISX  | 1810   | 228 |
| C30 2000, D4204T   | 1714   | 224 | Chassi p/ ônibus B10M                            | 0122   | 239 | Motor D12  | 1810   | 228 |
| C303   | 0227   | 182 | Chassi p/ ônibus B10M                            | 0133   | 179 | Motor D12  | 1811   | 229 |
| C304   | 0227   | 182 | Chassi p/ ônibus B58E                            | 0087   | 233 | Motor D12Substitui Mitsubishi VV0279, 20430285, 85103338, M009T70279 e 20520903  | 1811   | 229 |
| C306   | 0227   | 182 | Chassi p/ ônibus B58E                            | 0122   | 239 | Motor Estacionário com motor Indenor XDP 4.90 e 6.90                             | 0216   | 181 |
| C70 II 2000, D4204T  | 1714   | 224 | Chassi p/ ônibus B58E                            | 0133   | 179 | Motor Marine com motor Indenor XDP 4.90 e 6.90                                   | 0216   | 181 |
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| Caminhão FB88  | 0087   | 233 | Europe Car 240 Séries 2000                       | 0537   | 190 | S40 2000, D4204T   | 1714   | 224 |
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| Caminhão N   | 0087   | 233 | Europe Car 240 Séries 2300                       | 0537   | 190 | SM868  | 0035   | 233 |
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| Caminhão T   | 0087   | 233 | F84  | 0367   | 185 | VHK118   | 0367   | 185 |
| Caminhões FH12 e NH12. Substitui Melco                                   | 1809   | 228 | F85  | 0367   | 185 | VHK310   | 0035   | 233 |
| Caminhões VHD com motor Cummins ISX                                      | 1811   | 229 | F86  | 0367   | 185 | VM 17 MWM  | 1092   | 210 |
| Caminhões VHD com motor D12  | 1811   | 229 | F87  | 0367   | 185 | VM 210, 260, 310 Com Motores MWM 4.12TCE e 6.12TCE                               | 1679   | 222 |
| Caminhões VHD com motor 13L  | 13118  | 237 | FH e NH 12                                       | 13130  | 237 | VM 210, 260, 310 Com Motores MWM 4.12TCE e 6.12TCE                               | 1805   | 228 |
| Caminhões VHD com motor 13L. Com motor Volvo D13                         | 1811   | 229 | FH12   | 0089   | 233 | VM 23 MWM  | 1092   | 210 |
| Caminhões VHD com motor Cummins ISX                                      | 1810   | 228 | FL 180   | 1179   | 212 | Volvo 400 TD   | 1023   | 208 |
| Caminhões VHD com motor D12  | 1810   | 228 | FL 220   | 1179   | 212 |  |        |     |
| Caminhões VHD com motor D12  | 13118  | 237 | FL 250   | 1179   | 212 |  |        |     |
| Caminhões VN com motor 13L   | 1811   | 229 | FL4 série  | 0367   | 185 |  |        |     |
| Caminhões VN com motor Cummins ISX                                       | 1811   | 229 | FL7  | 0089   | 233 |  |        |     |
| Caminhões VN com motor D12   | 1811   | 229 | FM   | 1160   | 211 |  |        |     |
| Caminhões VN com motor 11L. Caminhões VHD com motor 11L. Motor Volvo D11 | 1811   | 229 | FM/FH  | 12972  | 237 |  |        |     |
| Caminhões VN com motor 13L   | 13118  | 237 | FM12   | 0089   | 233 |  |        |     |
|  |        |     | FS7  | 0089   | 233 |  |        |     |
|  |        |     | LM1240   | 0035   | 233 |  |        |     |
|  |        |     | LM1240   | 0367   | 185 |  |        |     |

| Volvo                             | Nº ZEN        | Pg.        | Yale  | Nº ZEN        | Pg.        | Yanmar                               | Nº ZEN        | Pg.        |
|-----------------------------------|---------------|------------|---|---------------|------------|--------------------------------------|---------------|------------|
| Volvo 460 TD                      | 1023          | 208        | Fork Lifts  | 9791          | 235        | Micro Trator 1030                    | 0108          | 179        |
| XC60                              | 1882          | 232        | <b>Yamaha</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | Micro Trator TC11                    | 0108          | 179        |
| XC90                              | 1882          | 232        | 1100 - Wave Raider, Venture                                       | 0749          | 197        | Micro Trator TC11 e TC11 Super       | 0496          | 189        |
| <b>Volvo Penta</b>                | <b>Nº ZEN</b> | <b>Pg.</b> | 1200 / 1200R - GP, XL Wave Runner                                 | 0749          | 197        | Motor AE1                            | 0061          | 177        |
| Motor Náutico T5D5A 150HP         | 1751          | 225        | 650 - I, II, LX, Super Jet, VXR, VXRPRO, XR                       | 0749          | 197        | Motor AE1                            | 0153          | 180        |
| <b>Waukesha</b>                   | <b>Nº ZEN</b> | <b>Pg.</b> | 700/701 Wave Blaster, FX1 Raider, Runner, Super Jet, Venture, VXR | 0749          | 197        | Motor AE2                            | 0061          | 177        |
| Especial/Special                  | 0626          | 193        | 760 - Wave Blaster II, GP, Raider, Runner                         | 0749          | 197        | Motor AE2                            | 0153          | 180        |
| <b>Westerbeke</b>                 | <b>Nº ZEN</b> | <b>Pg.</b> | Especial/Special  | 1191          | 213        | Motor Estacionário BT22              | 0105          | 179        |
| 108B Six 6 cil Diesel             | 0649          | 194        | LX500   | 0754          | 197        | Motor Estacionário BT22              | 0118          | 179        |
| 108C Six 6 cil, 247ci 4.1L Diesel | 0649          | 194        | <b>Yanmar</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | Motor Estacionário BT33              | 0105          | 179        |
| 16.0 BED 4 cil Diesel             | 0649          | 194        | 1050D   | 0668          | 194        | Motor Estacionário BT33              | 0118          | 179        |
| 64A Four 4 cil, 182ci 3.0L Diesel | 0649          | 194        | 1050D 4x4   | 0668          | 194        | Motor Estacionário BTD22             | 0105          | 179        |
| 71C Four 4 cil, 154ci 2.5L Diesel | 0649          | 194        | 2YM15 2 cil Diesel  | 1556          | 218        | Motor Estacionário BTD22             | 0118          | 179        |
| 82B Four 4 cil, 182ci 3.0L Diesel | 0649          | 194        | 3JH3 3 cil Diesel   | 1556          | 218        | Motor Estacionário BTD33             | 0105          | 179        |
| 90A Four 4 cil, 211ci 3.5L Diesel | 0649          | 194        | 3JH3E 3 cil Diesel  | 1556          | 218        | Motor Estacionário BTD33             | 0118          | 179        |
| GCX40 Perkins Diesel Engines      | 0649          | 194        | 3JH3E-YEU 3 cil Diesel  | 1556          | 218        | TC11 Super (NS 11)                   | 0108          | 179        |
| GCX50 Perkins Diesel Engines      | 0649          | 194        | 3JH4E 3 cil Diesel  | 1556          | 218        | Tractor Engine YM1700 2TR17          | 0691          | 195        |
| GPX35D Perkins Diesel Engines     | 0649          | 194        | 3TNE88  | 1556          | 218        | Tractor Engine YM2000 2TR20          | 0691          | 195        |
| GPX40D Perkins Diesel Engines     | 0649          | 194        | 3YM20 3 cil Diesel  | 1556          | 218        | Tractor YM2210 2T90 Engine           | 0785          | 199        |
| GPX50D Perkins Diesel Engines     | 0649          | 194        | 3YM30 1.1L/68CI 3 cil Diesel                                      | 1556          | 218        | Tractor YM2610 3T80D Engine          | 0785          | 199        |
| <b>Westward</b>                   | <b>Nº ZEN</b> | <b>Pg.</b> | 4JH3E 4 cil Diesel  | 1556          | 218        | Tractor YM3000 3T84 Engine           | 0785          | 199        |
| 7000 Perkins Diesel               | 0649          | 194        | 4TNE88  | 1556          | 218        | Trator 1050D                         | 0105          | 179        |
| <b>Willys</b>                     | <b>Nº ZEN</b> | <b>Pg.</b> | Diesel 4JH-3  | 1556          | 218        | Trator 1050D 4x4                     | 0105          | 179        |
| Aero Willys                       | 0005          | 176        | Engine Marine 1GM10L 1 cil, 19.41ci, 0.318L Diesel                | 0691          | 195        | Trator 1050D                         | 0118          | 179        |
| Especial/Special                  | 0674          | 195        | Engine Marine 1GM10VE 1 cil, 19.41ci, 0.318L Diesel               | 0691          | 195        | Trator 1050D 4x4                     | 0118          | 179        |
| Itamaraty                         | 0005          | 176        | Engine Marine 1GMY 1 cil, 19.41ci, 0.318L Diesel                  | 0691          | 195        | <b>Yanmar Engine Marine</b>          | <b>Nº ZEN</b> | <b>Pg.</b> |
| Itamaraty                         | 0056          | 177        | Engine Marine 2GMFL 2 cil Diesel                                  | 0691          | 195        | 1GM                                  | 0349          | 185        |
| Jeep                              | 0005          | 176        | Engine Marine 2GMFY(E)-E 2 cil Diesel                             | 0691          | 195        | 1GM 1 cil 19.41ci, 0.318L Diesel     | 0349          | 185        |
| Jeep                              | 0020          | 176        | Engine Marine 2GML 2 cil Diesel                                   | 0691          | 195        | 1GM10 1 cil, 19.41ci, 0.318L Diesel  | 0349          | 185        |
| Jeep                              | 0056          | 177        | Engine Marine 2GMYE-EC 2 cil Diesel                               | 0691          | 195        | 1GM10C 1 cil, 19.41ci, 0.318L Diesel | 0349          | 185        |
| Jeep Georgia                      | 0082          | 178        | Engine Marine 3GMFL 3 cil Diesel                                  | 0691          | 195        | 2005                                 | 1594          | 219        |
| Jeep                              | 0104          | 178        | Engine Marine 3GMFY 3 cil Diesel                                  | 0691          | 195        | 2100                                 | 1594          | 219        |
| Jeep                              | 1184          | 212        | Engine Marine 3GMLE 3 cil Diesel                                  | 0691          | 195        | 2103                                 | 1594          | 219        |
| Linha Willys                      | 0032          | 233        | Engine Marine 3HML 3 cil Diesel                                   | 0785          | 199        | 2105                                 | 1594          | 219        |
| Linha Willys                      | 1216          | 233        | Engine Marine 3HML 3 cil Diesel                                   | 0785          | 199        | 2200                                 | 1594          | 219        |
| Pick Up                           | 0005          | 176        | Engine Marine 3HM35 3 cil Diesel                                  | 0785          | 199        | 2205                                 | 1594          | 219        |
| Pick Up                           | 0104          | 178        | Engine Marine 3HMF 3 cil Diesel                                   | 0785          | 199        | 2300                                 | 1594          | 219        |
| Pick Up                           | 0115          | 179        | Engine Marine 4JH 4 cil Diesel                                    | 0785          | 199        | 2305                                 | 1594          | 219        |
| Pick Up                           | 0806          | 200        | Engine Marine 4JH-DTE 4 cil Diesel                                | 0785          | 199        | 2500                                 | 1594          | 219        |
| Rural                             | 0005          | 176        | Engine Marine 4JH-HT 4 cil Diesel                                 | 0785          | 199        | 2505                                 | 1594          | 219        |
| Rural                             | 0056          | 177        | Engine Marine 4JH-HT-Z 4 cil Diesel                               | 0785          | 199        | 2525                                 | 1594          | 219        |
| Rural com motor 4 cil             | 0104          | 178        | Engine Marine 4JH-T 4 cil Diesel                                  | 0785          | 199        | 2535                                 | 1594          | 219        |
| Rural                             | 0115          | 179        | Engine Marine 4JH-TE 4 cil Diesel                                 | 0785          | 199        | 270 AT I                             | 1594          | 219        |
| Utilitário Jeep                   | 0115          | 179        | Engine Marine 4JH-TZ 4 cil Diesel                                 | 0785          | 199        | 2GM                                  | 0349          | 185        |
| <b>Wolseley</b>                   | <b>Nº ZEN</b> | <b>Pg.</b> | Engine Marine 4JHE 4 cil Diesel                                   | 0785          | 199        | 2GM 2 cil Diesel                     | 0349          | 185        |
| 18/22 Séries                      | 0412          | 186        | Engine Marine 4JHZ 4 cil Diesel                                   | 0785          | 199        | 2GM20 2 cil, 38.81ci, 0.636L Diesel  | 0349          | 185        |
| 18/85 Séries                      | 0412          | 186        | Engine Marine KBW-20 0000   | 0785          | 199        | 2GMF 2 cil Diesel                    | 0349          | 185        |
| Six                               | 0412          | 186        | Engine Marine KBW-21 0000   | 0785          | 199        | 300 AT I                             | 1594          | 219        |
| <b>Yale</b>                       | <b>Nº ZEN</b> | <b>Pg.</b> | Engines Industrial 3D84-1C  | 0785          | 199        | 3GM                                  | 0349          | 185        |
| Empilhadeira                      | 0818          | 200        | Engines Industrial 3T90L  | 0785          | 199        | 3GM 3 cil Diesel                     | 0349          | 185        |
| Empilhadeira                      | 0996          | 207        | Especial/Special  | 0644          | 194        | 3GM30 3 cil Diesel                   | 0349          | 185        |
| Empilhadeira 51CP Ford 6 cil      | 0193          | 181        | Marine D27  | 1860          | 231        | 3GMD 3 cil Diesel                    | 0349          | 185        |
| Empilhadeira 51P Ford 6 cil       | 0193          | 181        | Marine KL   | 1860          | 231        | 3GMF 3 cil Diesel                    | 0349          | 185        |
| Empilhadeira 83A Gm 6 cil         | 0193          | 181        | Micro trator  | 1030          | 208        | 75 240 AT I                          | 1594          | 219        |
| Especial/Special                  | 0957          | 205        |   |               |            | F 2000                               | 1594          | 219        |
| Especial/Special                  | 12658         | 236        |   |               |            | F1400 DF                             | 0419          | 186        |
| Especial/Special                  | 12659         | 236        |   |               |            | FSB 2005 DH                          | 1594          | 219        |



| Yanmar Engine Marine           | Nº ZEN | Pg. | ZEN                                | Nº ZEN | Pg. | ZEN  | Nº ZEN | Pg. |
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| KM2A 0000                      | 0349   | 185 | Utiliza pinhão ZEN 12812           | 1046   | 208 | Utilizado com Planetária ZEN 12690         | 12693  | 240 |
| KM2C 0000                      | 0349   | 185 | Utiliza pinhão ZEN 12812           | 1047   | 209 | Utilizado com Planetária ZEN 12690         | 12694  | 241 |
| KM2P 0000                      | 0349   | 185 | Utiliza Pinhão ZEN 12839           | 1658   | 221 | Utilizado com Planetária ZEN 12692         | 12695  | 241 |
| KM3A 0000                      | 0349   | 185 | Utiliza Pinhão ZEN 12954           | 1679   | 222 | Utilizado com Planetária ZEN 12717         | 12718  | 241 |
| KM3P 0000                      | 0349   | 185 | Utiliza Pinhão ZEN 12954           | 1805   | 228 | Utilizado com Planetária ZEN 12717         | 12719  | 241 |
| KM3V 0000                      | 0349   | 185 | Utiliza Pinhão ZEN 12955           | 1679   | 222 | Utilizado com Planetária ZEN 12720         | 12721  | 241 |
| Rastrojero com Motor D4M       | 0709   | 196 | Utiliza Pinhão ZEN 12955           | 1805   | 228 | Utilizado com Planetária ZEN 12841         | 12693  | 240 |
| Zanello                        | Nº ZEN | Pg. | Utiliza Pinhão ZEN 12956           | 1679   | 222 | Utilizado com Planetária ZEN 12841         | 12694  | 241 |
| 160 - PTRAC                    | 1604   | 219 | Utiliza Pinhão ZEN 12956           | 1805   | 228 | Utilizado no Impulsor ZEN 0097             | 9028   | 233 |
| 180 - PTRAC                    | 1604   | 219 | Utiliza Pinhão ZEN 12957           | 1679   | 222 | Utilizado no Impulsor ZEN 0110             | 9074   | 234 |
| 500                            | 1603   | 219 | Utiliza Pinhão ZEN 12957           | 1805   | 228 | Utilizado no Impulsor ZEN 0844             | 9566   | 235 |
| 540                            | 1603   | 219 | Utiliza Pinhão ZEN 12961           | 1679   | 222 | Utilizado no Impulsor ZEN 1714             | 13332  | 238 |
| 580                            | 1603   | 219 | Utiliza Pinhão ZEN 12961           | 1805   | 228 | Utilizado no Impulsor ZEN 1827             | 9301   | 234 |
| 690                            | 1603   | 219 | Utiliza Pinhão ZEN 12967           | 1808   | 228 | Utilizado no Impulsor 0957                 | 12658  | 236 |
| Trator com motor Cummins       | 0304   | 183 | Utiliza Pinhão ZEN 12972           | 1661   | 221 | Utilizado no Impulsor 0957                 | 12659  | 236 |
| Trator com motor MWM e Cummins | 0497   | 189 | Utiliza Pinhão ZEN 13117           | 1810   | 228 | Utilizado no Impulsor 1808                 | 12967  | 236 |
| Zastava                        | Nº ZEN | Pg. | Utiliza Pinhão ZEN 13118           | 1810   | 228 | Utilizado no Impulsor 1846                 | 1473   | 215 |
| Especial/Special               | 1056   | 209 | Utiliza Pinhão ZEN 13119           | 1810   | 228 | Utilizado no Impulsor 1846                 | 10048  | 235 |
| ZEN                            | Nº ZEN | Pg. | Utiliza Pinhão ZEN 13130           | 1809   | 228 | Utilizado no Impulsor ZEN 0921             | 1767   | 226 |
| Equivalente OEM - ZEN 0755     | 0625   | 193 | Utiliza Pinhão ZEN 13130           | 1811   | 229 | Utilizado no Impulsor ZEN 0135 e ZEN 0742  | 13272  | 238 |
| Especial/Special               | 1351   | 215 | Utiliza Pinhão ZEN 13131           | 1811   | 229 | Utilizado no Impulsor ZEN 0737             | 1200   | 213 |
| Especial/Special               | 1575   | 218 | Utiliza Pinhão ZEN 13132           | 1811   | 229 | Utilizado no Impulsor ZEN 0737             | 9488   | 234 |
| Especial/Special               | 13017  | 237 | Utiliza Pinhão ZEN 13138           | 1809   | 228 | Utilizado no Impulsor ZEN 0750             | 1201   | 213 |
| Especial/Special               | 13018  | 237 | Utiliza Pinhão ZEN 13224           | 1608   | 219 | Utilizado no Impulsor ZEN 0750             | 1221   | 214 |
| Kit Reparo 12694               | 12681  | 240 | Utiliza Pinhão ZEN 9186            | 0818   | 200 | Utilizado no Impulsor ZEN 0750             | 1766   | 226 |
| Kit Reparo 12694               | 12683  | 240 | Utiliza Pinhão ZEN 9186            | 0947   | 205 | Utilizado no Impulsor ZEN 0750             | 9307   | 234 |
| Kit Reparo 12694               | 12685  | 240 | Utiliza Pinhão ZEN 9186            | 1722   | 224 | Utilizado no Impulsor ZEN 0790             | 1200   | 213 |
| Kit Reparo 12694               | 12689  | 240 | Utiliza Pinhão ZEN 9301            | 1827   | 229 | Utilizado no Impulsor ZEN 0790             | 9527   | 235 |
| Kit Reparo 12694               | 12690  | 240 | Utiliza Pinhão ZEN 9302            | 1829   | 229 | Utilizado no Impulsor ZEN 0791             | 1200   | 213 |
| Kit Reparo 12694               | 12841  | 240 | Utiliza Pinhão ZEN 9307            | 0750   | 197 | Utilizado no Impulsor ZEN 0791             | 9528   | 235 |
| Kit Reparo 12695               | 12675  | 240 | Utiliza Pinhão ZEN 9349            | 0816   | 200 | Utilizado no Impulsor ZEN 0792             | 1200   | 213 |
| Kit Reparo 12695               | 12682  | 240 | Utiliza Pinhão ZEN 9402            | 1831   | 230 | Utilizado no Impulsor ZEN 0792             | 9526   | 235 |
| Kit Reparo 12695               | 12684  | 240 | Utiliza Pinhão ZEN 9488            | 0737   | 196 | Utilizado no Impulsor ZEN 0793             | 1207   | 213 |
| Kit Reparo 12695               | 12686  | 240 | Utiliza Pinhão ZEN 9492            | 0817   | 200 | Utilizado no Impulsor ZEN 0793             | 9525   | 235 |
| Kit Reparo 12695               | 12687  | 240 | Utiliza Pinhão ZEN 9492            | 1566   | 218 | Utilizado no Impulsor ZEN 0816             | 1201   | 213 |
| Kit Reparo 12695               | 12688  | 240 | Utiliza Pinhão ZEN 9495            | 1043   | 208 | Utilizado no Impulsor ZEN 0816             | 1766   | 226 |
| Kit Reparo 12695               | 12692  | 240 | Utiliza Pinhão ZEN 9506            | 1555   | 217 | Utilizado no Impulsor ZEN 0817             | 1201   | 213 |
| Kit Reparo 12718               | 12717  | 240 | Utiliza pinhão ZEN 9526            | 0792   | 199 | Utilizado no Impulsor ZEN 0817             | 1766   | 226 |
| Kit Reparo 12721               | 12720  | 240 | Utiliza Pinhão ZEN 9527            | 0790   | 199 | Utilizado no Impulsor ZEN 0818             | 1201   | 213 |
| Planetária 12720               | 12722  | 241 | Utiliza Pinhão ZEN 9528            | 0791   | 199 | Utilizado no Impulsor ZEN 0818             | 1766   | 226 |
| Planetária ZEN 12689           | 0855   | 202 | Utiliza Pinhão ZEN 9566            | 0844   | 201 | Utilizado no Impulsor ZEN 0844             | 1200   | 213 |
| Reparo 12693                   | 12681  | 240 | Utiliza Planetária 12675           | 1602   | 219 | Utilizado no Impulsor ZEN 0921             | 1215   | 214 |
| Reparo 12693                   | 12683  | 240 | Utiliza Planetária 12681           | 0866   | 202 | Utilizado no Impulsor ZEN 0946             | 1215   | 214 |
| Reparo 12693                   | 12685  | 240 | Utiliza Planetária 12720           | 10003  | 232 | Utilizado no Impulsor ZEN 0946             | 1767   | 226 |
| Reparo 12693                   | 12689  | 240 | Utilizado com Impulsor ZEN 0866    | 12681  | 240 | Utilizado no Impulsor ZEN 0947             | 1215   | 214 |
| Reparo 12693                   | 12690  | 240 | Utilizado com Planetária ZEN 12675 | 12695  | 241 | Utilizado no Impulsor ZEN 0947             | 1767   | 226 |
| Reparo 12693                   | 12690  | 240 | Utilizado com Planetária ZEN 12681 | 12693  | 240 | Utilizado no Impulsor ZEN 0947 e ZEN 0818  | 9186   | 234 |
| Reparo 12693                   | 12841  | 240 | Utilizado com Planetária ZEN 12681 | 12694  | 241 | Utilizado no Impulsor ZEN 0954             | 1201   | 213 |
| Reparo 12719                   | 12717  | 240 | Utilizado com Planetária ZEN 12682 | 12695  | 241 | Utilizado no Impulsor ZEN 0954             | 1221   | 214 |
| Reparo 12722                   | 12720  | 240 | Utilizado com Planetária ZEN 12683 | 12693  | 240 | Utilizado no Impulsor ZEN 0954             | 1766   | 226 |
| Utiliza Pinhão ZEN 13021       | 1667   | 221 | Utilizado com Planetária ZEN 12683 | 12694  | 241 | Utilizado no Impulsor ZEN 0958             | 13274  | 238 |
| Utiliza no Impulsor ZEN 0816   | 9349   | 234 | Utilizado com Planetária ZEN 12685 | 12693  | 240 | Utilizado no Impulsor ZEN 0965             | 13333  | 238 |
| Utiliza o Pinhão ZEN 12656     | 1577   | 218 | Utilizado com Planetária ZEN 12685 | 12694  | 241 | Utilizado no Impulsor ZEN 10003 e ZEN 1745 | 13275  | 238 |
| Utiliza Pinhão 10048           | 1473   | 215 | Utilizado com Planetária ZEN 12686 | 12695  | 241 | Utilizado no Impulsor ZEN 1097             | 1215   | 214 |
| Utiliza Pinhão 10048           | 1846   | 230 | Utilizado com Planetária ZEN 12687 | 12695  | 241 | Utilizado no Impulsor ZEN 1097             | 1767   | 226 |
| Utiliza pinhão ZEN 10049       | 1863   | 231 | Utilizado com Planetária ZEN 12688 | 12695  | 241 |  |        |     |
| Utiliza Pinhão ZEN 12658       | 0957   | 205 | Utilizado com Planetária ZEN 12689 | 12693  | 240 |  |        |     |
| Utiliza Pinhão ZEN 12659       | 0957   | 205 | Utilizado com Planetária ZEN 12689 | 12694  | 241 |  |        |     |

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| Utilizado no impulsor ZEN 1201           | 1766   | 226 |
| Utilizado no Impulsor ZEN 1215           | 1767   | 226 |
| Utilizado no Impulsor ZEN 1555           | 9506   | 235 |
| Utilizado no Impulsor ZEN 1577           | 12656  | 236 |
| Utilizado no Impulsor ZEN 1601           | 1215   | 214 |
| Utilizado no Impulsor ZEN 1601           | 1767   | 226 |
| Utilizado no Impulsor ZEN 1602           | 12675  | 240 |
| Utilizado no Impulsor ZEN 1608           | 13224  | 237 |
| Utilizado no Impulsor ZEN 1658           | 12839  | 236 |
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| 4798798               | 9702          | 235        | 0001420011 | 1204   | 213 | 1006209124 | 0015   | 176 | 1006209482 | 0931   | 204 |
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| 4798                  | 9702          | 235        | 1005821321 | 12786  | 241 | 1006209127 | 0080   | 178 | 1006209501 | 0406   | 186 |
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| 1946                  | 9702          | 235        | 1006200063 | 12786  | 241 | 1006209161 | 0131   | 179 | 1006209503 | 0482   | 188 |
| <b>Agrale</b>         | <b>Nº ZEN</b> | <b>Pg.</b> | 1006200110 | 12683  | 240 | 1006209162 | 0065   | 177 | 1006209504 | 0482   | 188 |
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| <b>AIM</b>            | <b>Nº ZEN</b> | <b>Pg.</b> | 1006200110 | 12694  | 241 | 1006209320 | 0119   | 179 | 1006209509 | 0482   | 188 |
| SJ0779A               | 9702          | 235        | 1006200123 | 12693  | 240 | 1006209321 | 0119   | 179 | 1006209510 | 0520   | 189 |
| <b>Allis Chalmers</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 1006200123 | 12694  | 241 | 1006209322 | 0119   | 179 | 1006209513 | 0482   | 188 |
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| 2201850192            | 0376          | 185        | 1006208036 | 0015   | 176 | 1006209332 | 0080   | 178 | 1006209524 | 0573   | 191 |
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| <b>Amsco</b>          | <b>Nº ZEN</b> | <b>Pg.</b> | 1006209011 | 0015   | 176 | 1006209400 | 0068   | 178 | 1006209527 | 0532   | 190 |
| HT230                 | 9702          | 235        | 1006209012 | 0044   | 176 | 1006209401 | 0325   | 184 | 1006209528 | 0482   | 188 |
| <b>André Niermann</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 1006209013 | 0015   | 176 | 1006209402 | 0221   | 181 | 1006209530 | 0482   | 188 |
| 01364402              | 1594          | 219        | 1006209014 | 0044   | 176 | 1006209403 | 0307   | 183 | 1006209531 | 0482   | 188 |
| <b>Arrowhead</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | 1006209015 | 0015   | 176 | 1006209404 | 0108   | 179 | 1006209532 | 0613   | 192 |
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| SHI5308               | 9702          | 235        | 1006209017 | 0044   | 176 | 1006209406 | 0361   | 185 | 1006209534 | 0475   | 188 |
| <b>Bedford</b>        | <b>Nº ZEN</b> | <b>Pg.</b> | 1006209029 | 0080   | 178 | 1006209410 | 0108   | 179 | 1006209535 | 0798   | 199 |
| 91118533              | 0686          | 195        | 1006209030 | 0223   | 181 | 1006209412 | 0068   | 178 | 1006209536 | 0482   | 188 |
| <b>Bendix</b>         | <b>Nº ZEN</b> | <b>Pg.</b> | 1006209031 | 0080   | 178 | 1006209414 | 0108   | 179 | 1006209537 | 0520   | 189 |
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| Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. |
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| 9000061009 | 0919   | 204 | 9001082686 | 0108   | 179 | 9001453387 | 0193   | 181 | 9008045049 | 0976   | 206 |
| 9001041103 | 0653   | 194 | 9001082748 | 0108   | 179 | 9001453391 | 0025   | 176 | 9008047011 | 1470   | 215 |
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| 9001042189 | 0701   | 195 | 9001083436 | 1364   | 215 | 9001692096 | 0361   | 185 | F000AL1015 | 12685  | 240 |
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| 9001042299 | 0702   | 195 | 9001083440 | 0034   | 176 | 9001693029 | 0300   | 183 | F000AL1015 | 12694  | 241 |
| 9001043103 | 0653   | 194 | 9001083441 | 0060   | 177 | 9002336200 | 1171   | 212 | F000AL1017 | 12689  | 240 |
| 9001043152 | 0675   | 195 | 9001083442 | 0059   | 177 | 9002336204 | 0851   | 201 | F000AL1017 | 12693  | 240 |
| 9001043178 | 0139   | 180 | 9001083443 | 0061   | 177 | 9002336205 | 1171   | 212 | F000AL1017 | 12694  | 241 |
| 9001043179 | 0674   | 195 | 9001083444 | 1076   | 210 | 9002336207 | 0632   | 193 | F000AL1019 | 12681  | 240 |
| 9001043180 | 0676   | 195 | 9001083445 | 0043   | 176 | 9002336208 | 0796   | 199 | F000AL1019 | 12693  | 240 |
| 9001043259 | 0672   | 195 | 9001083471 | 0303   | 183 | 9002336218 | 0875   | 202 | F000AL1019 | 12694  | 241 |
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| 9001066242 | 0475   | 188 | 9001083629 | 0668   | 194 | 9002336224 | 1072   | 210 | F000AL1032 | 0942   | 205 |
| 9001066247 | 0475   | 188 | 9001083674 | 0748   | 197 | 9002336225 | 1170   | 212 | F000AL1037 | 0942   | 205 |
| 9001066248 | 0475   | 188 | 9001084038 | 0745   | 197 | 9002336226 | 0861   | 202 | F000AL1037 | 12689  | 240 |
| 9001066255 | 0919   | 204 | 9001084064 | 0089   | 233 | 9002336230 | 0929   | 204 | F000AL1040 | 0837   | 201 |
| 9001066476 | 0475   | 188 | 9001085105 | 0121   | 239 | 9002336236 | 1038   | 208 | F000AL1067 | 1471   | 215 |
| 9001081010 | 0729   | 196 | 9001085105 | 0201   | 239 | 9002336237 | 1159   | 211 | F000AL1086 | 1108   | 210 |
| 9001081022 | 0837   | 201 | 9001085105 | 0204   | 239 | 9002336283 | 0875   | 202 | F000AL1096 | 1471   | 215 |
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| 9001082016 | 0015   | 176 | 9001336223 | 0451   | 187 | 9002453076 | 0496   | 189 | F000AL1238 | 0837   | 201 |
| 9001082127 | 0062   | 177 | 9001336240 | 0871   | 202 | 9002453077 | 0497   | 189 | F000AL1250 | 0998   | 207 |
| 9001082128 | 0191   | 181 | 9001336324 | 0108   | 179 | 9002453078 | 0748   | 197 | F000AL1281 | 1562   | 218 |
| 9001082177 | 0046   | 177 | 9001451247 | 0328   | 184 | 9002453078 | 1372   | 215 | F000AL1306 | 1177   | 212 |
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| 9001082362 | 0065   | 177 | 9001451291 | 0104   | 178 | 9002453082 | 0118   | 179 | F000AL1440 | 0871   | 202 |
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| 9001082422 | 0191   | 181 | 9001453334 | 0024   | 176 | 9003336227 | 0861   | 202 | F000AL1680 | 0837   | 201 |
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| 9001082425 | 0115   | 179 | 9001453338 | 0024   | 176 | 9003336282 | 0838   | 201 | F000AL1683 | 0976   | 206 |
| 9001082426 | 0077   | 178 | 9001453338 | 1359   | 215 | 9003336283 | 0875   | 202 | F000AL1684 | 0916   | 204 |

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| F000AL1688         | 1469          | 215        | 31206194A    | 1594          | 219        | 137231             | 1594          | 219        | 5S6372            | 0555          | 190        |
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| F000AL1691         | 0745          | 197        | 278001497    | 1218          | 214        | 137279             | 0931          | 204        | 6N3827            | 0097          | 178        |
| F000AL1692         | 0837          | 201        | 278001936    | 1218          | 214        | 137293             | 0921          | 204        | <b>Cav29 Onan</b> | <b>Nº ZEN</b> | <b>Pg.</b> |
| F000AL1693         | 0855          | 202        | <b>Butec</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 137413             | 0828          | 201        | 5586123           | 0204          | 239        |
| F000AL1694         | 1177          | 212        | 850363       | 0117          | 179        | 137480             | 0932          | 204        | 5586123C          | 0121          | 239        |
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| F000AL1696         | 1471          | 215        | 851073       | 0097          | 178        | 137950             | 0750          | 197        | 580000043         | 0627          | 193        |
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| F000AL1698         | 0482          | 188        | 852758       | 0117          | 179        | 138308             | 0920          | 204        | 210803708620      | 0540          | 190        |
| F000AL1699         | 0520          | 189        | 852760       | 0188          | 181        | 138312             | 0419          | 186        | CT2213708600      | 0213          | 181        |
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| F000AL1707         | 0989          | 206        | 852959       | 0188          | 181        | 139541             | 1024          | 208        | CH1917            | 0054          | 177        |
| F000AL1708         | 0619          | 193        | 852961       | 0097          | 178        | 139841             | 1858          | 231        | CH1920            | 0050          | 177        |
| F000AL1709         | 1168          | 212        | 852962       | 0110          | 179        | 139901             | 1169          | 212        | CH1922            | 0050          | 177        |
| F000AL1871         | 0111          | 179        | <b>Cargo</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 231269             | 12656         | 236        | CH1924            | 0054          | 177        |
| F000AL1872         | 0861          | 202        | 2665         | 1060          | 209        | 231269             | 1577          | 218        | CH1925            | 0050          | 177        |
| F000AL1876         | 0015          | 176        | 111636       | 1594          | 219        | 231756             | 1159          | 211        | CH1927            | 0050          | 177        |
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| F000AL1879         | 0764          | 198        | 130418       | 0087          | 233        | 231932             | 1607          | 219        | DR1900            | 0013          | 176        |
| F000AL1881         | 0875          | 202        | 130419       | 0218          | 233        | 231932             | 1692          | 223        | DR1902            | 0020          | 176        |
| F000AL1882         | 0942          | 205        | 130452       | 0155          | 180        | 231961             | 1225          | 214        | DR1905            | 0020          | 176        |
| F000AL1897         | 0367          | 185        | 131065       | 0367          | 185        | 232481             | 1065          | 209        | FO1903            | 0205          | 181        |
| F000AL1898         | 0920          | 204        | 131102       | 0420          | 186        | 232632             | 0117          | 179        | FO1905            | 0053          | 177        |
| F000AL1899         | 0648          | 194        | 131104       | 0482          | 188        | 233950             | 0752          | 197        | FO1907            | 0032          | 233        |
| F000AL1901         | 1468          | 215        | 131433       | 0520          | 189        | 234247             | 1619          | 220        | FO1909            | 0053          | 177        |
| F000AL2000         | 1467          | 215        | 132004       | 0947          | 205        | 234819             | 1812          | 229        | FO1910            | 0205          | 181        |
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| F000AL2638         | 1675          | 222        | 132731       | 0626          | 193        | 235663             | 1693          | 223        | 2095122           | 0050          | 177        |
| F000AL2660         | 1736          | 225        | 132863       | 0946          | 205        | 236752             | 1702          | 223        | 2095397           | 0050          | 177        |
| F000AL2712         | 1690          | 223        | 133295       | 0960          | 205        | 236876             | 1714          | 224        | 2444651           | 0050          | 177        |
| F000AL2721         | 1691          | 223        | 133437       | 0844          | 201        | 237105             | 1661          | 221        | 2444658           | 0050          | 177        |
| F000AL2813         | 1815          | 229        | 133545       | 0112          | 179        | 237667             | 1650          | 221        | 2444661           | 0054          | 177        |
| F000AL2814         | 1562          | 218        | 133605       | 0792          | 199        | 330382             | 1840          | 230        | 2525287           | 0093          | 178        |
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| F000C61002         | 1875          | 231        | 134371       | 0639          | 193        | 332145             | 1718          | 224        | 2642506           | 0054          | 177        |
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| F000CD1444         | 1666          | 221        | 135117       | 1477          | 216        | A47788             | 0434          | 187        | 3874045           | 0050          | 177        |
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| 4120550 | 0768   | 198 |
| 4130651 | 0120   | 179 |
| 4141057 | 0533   | 190 |
| 4142235 | 0120   | 179 |
| 4145751 | 0120   | 179 |
| 4145978 | 0495   | 189 |
| 4154293 | 0213   | 181 |
| 4169960 | 0608   | 192 |
| 4202988 | 0120   | 179 |
| 4226442 | 0608   | 192 |
| 4243124 | 0213   | 181 |
| 4249166 | 0120   | 179 |
| 4474695 | 0608   | 192 |
| 4475032 | 0608   | 192 |
| 4475122 | 0213   | 181 |
| 4988518 | 0561   | 191 |
| 7073094 | 0111   | 179 |
| 7984505 | 0601   | 192 |
| 8122123 | 0225   | 182 |
| 8122125 | 0035   | 233 |
| 8122126 | 0087   | 233 |
| 8122127 | 0218   | 233 |
| 8122128 | 0218   | 233 |
| 8122129 | 0105   | 179 |
| 8122129 | 1364   | 215 |
| 8122157 | 0367   | 185 |
| 8997796 | 0310   | 183 |
| 9000862 | 0407   | 186 |
| 9004229 | 0087   | 233 |
| 9004794 | 0035   | 233 |
| 9008243 | 0105   | 179 |
| 9008243 | 1364   | 215 |
| 9008738 | 0036   | 233 |
| 9817920 | 0648   | 194 |
| 9918347 | 0315   | 183 |
| 9923779 | 0035   | 233 |
| 9926112 | 0105   | 179 |
| 9926112 | 1364   | 215 |
| 9926536 | 0133   | 179 |
| 9927793 | 0407   | 186 |
| 9928303 | 0315   | 183 |
| 9929081 | 0407   | 186 |
| 9932923 | 0111   | 179 |
| 9934739 | 0310   | 183 |
| 9934752 | 0325   | 184 |



| Fiat    | Nº ZEN | Pg. | Fiat        | Nº ZEN        | Pg.        | Ford       | Nº ZEN | Pg. | Ford          | Nº ZEN | Pg. |
|---------|--------|-----|-------------|---------------|------------|------------|--------|-----|---------------|--------|-----|
| 9934977 | 0310   | 183 | 9984246     | 0087          | 233        | 53R211350A | 1208   | 213 | E8BZ11350A    | 0636   | 193 |
| 9935164 | 0315   | 183 | 9986112     | 0407          | 186        | C1AF11350A | 0032   | 233 | E8PZ11350A    | 0669   | 194 |
| 9935731 | 0407   | 186 | 51888915    | 1666          | 221        | C1AZ11350A | 0032   | 233 | E90Z11350A    | 1192   | 213 |
| 9936036 | 0120   | 179 | 70449580    | 0663          | 194        | C1VF11350A | 0053   | 177 | E90Z11350A    | 1224   | 214 |
| 9936050 | 0394   | 185 | 79023774    | 0407          | 186        | C1VY11350A | 0053   | 177 | E92Z11350A    | 0596   | 192 |
| 9936602 | 0108   | 179 | 79026090    | 0291          | 182        | C2DF11350C | 0205   | 181 | E92Z11350B    | 0596   | 192 |
| 9936671 | 0857   | 202 | 79026236    | 0310          | 183        | C2DZ11350A | 0110   | 179 | F0TZ11002A    | 1192   | 213 |
| 9936730 | 0291   | 182 | 79028900    | 0105          | 179        | C2OF11350C | 0053   | 177 | F0TZ11002A    | 1224   | 214 |
| 9936772 | 0407   | 186 | 79028900    | 1364          | 215        | C3DE11350A | 0110   | 179 | F2VY11350A    | 1199   | 213 |
| 9936996 | 0408   | 186 | 79028909    | 0105          | 179        | C3TZ11350A | 0110   | 179 | F2VY11350A    | 1226   | 214 |
| 9937207 | 0389   | 185 | 79028909    | 1364          | 215        | C3VF11350A | 0053   | 177 | F3RZ11350A    | 1208   | 213 |
| 9937298 | 0502   | 189 | 79033659    | 0648          | 194        | C3VF11350C | 0053   | 177 | F3RZ11350A    | 1228   | 214 |
| 9937705 | 0108   | 179 | 79034927    | 0367          | 185        | C4DF11350A | 0205   | 181 | F4XY11350B    | 1019   | 207 |
| 9937711 | 0189   | 181 | 79081045    | 0601          | 192        | C4DZ11350A | 0205   | 181 | F5DZ11350A    | 1192   | 213 |
| 9937949 | 0291   | 182 | 82327386    | 0108          | 179        | C4DZ11350B | 0205   | 181 | F5DZ11350A    | 1224   | 214 |
| 9938235 | 0394   | 185 | 99811565    | 0315          | 183        | C4OF11350A | 0053   | 177 | FOFZ11350A    | 1193   | 213 |
| 9938328 | 0395   | 186 | 9405835568  | 0287          | 182        | C4OF11350B | 0053   | 177 | FOFZ11350A    | 1225   | 214 |
| 9938952 | 0502   | 189 | <b>Ford</b> | <b>Nº ZEN</b> | <b>Pg.</b> | C4OZ11350A | 0053   | 177 | 1L5T11000AA   | 1585   | 218 |
| 9939194 | 0631   | 193 | SD302       | 0053          | 177        | C4OZ11350B | 0053   | 177 | 256U11000CA   | 1597   | 219 |
| 9939710 | 0875   | 202 | SD323       | 0681          | 195        | C4ZZ11350B | 0205   | 181 | 2701E11350B   | 0064   | 177 |
| 9939837 | 0769   | 198 | SD324       | 0681          | 195        | C5JF11350A | 0053   | 177 | C6VY11350A1   | 0053   | 177 |
| 9939915 | 0786   | 199 | SD337       | 1192          | 213        | C6FF11350B | 0135   | 180 | C7AF11350A1   | 0053   | 177 |
| 9940577 | 0786   | 199 | SD340       | 1193          | 213        | C6FY11350A | 0053   | 177 | C8VF11350B1   | 0053   | 177 |
| 9940740 | 0630   | 193 | SD340       | 1225          | 214        | C6TZ11350A | 0093   | 178 | D4HF11350AA   | 0097   | 178 |
| 9941300 | 0786   | 199 | SD341       | 1199          | 213        | C6TZ11350A | 0568   | 191 | D4HF11350BA   | 0110   | 179 |
| 9941300 | 1227   | 214 | SD341       | 1226          | 214        | C6VY11350A | 0053   | 177 | D5AF11350AA   | 0053   | 177 |
| 9941306 | 0786   | 199 | SD353       | 1208          | 213        | C7AF11350A | 0053   | 177 | D6EF11350AA   | 0205   | 181 |
| 9941306 | 1206   | 213 | 106688      | 0907          | 203        | C8DF11350A | 0110   | 179 | D6EF11350BA   | 0205   | 181 |
| 9941314 | 0482   | 188 | SDE198      | 0184          | 180        | C8DF11350B | 0205   | 181 | D6FF11350AA   | 0135   | 180 |
| 9941371 | 1117   | 211 | SDE307      | 0342          | 184        | C8DF11350G | 0205   | 181 | D6FF11350BA   | 0135   | 180 |
| 9941467 | 0395   | 186 | SDE311      | 0545          | 190        | C8OF11350A | 0205   | 181 | D6GF11350AA   | 0205   | 181 |
| 9941640 | 0389   | 185 | SDE330      | 0670          | 195        | C8TZ11350A | 0182   | 180 | D6GF11350BA   | 0205   | 181 |
| 9941642 | 0394   | 185 | SDE332      | 0450          | 187        | C8TZ11350B | 0097   | 178 | D6PF11A108B   | 0053   | 177 |
| 9941751 | 0408   | 186 | SDE334      | 0636          | 193        | C8TZ11350D | 0097   | 178 | E4EF11350AA   | 0681   | 195 |
| 9941846 | 0878   | 202 | SDE335      | 0596          | 192        | C8VF11350B | 0053   | 177 | E4LF11350AA   | 0681   | 195 |
| 9941892 | 0120   | 179 | SDE336      | 0596          | 192        | C8WF11350A | 0182   | 180 | E5PF11350AA   | 0670   | 195 |
| 9944373 | 0579   | 191 | SDE339      | 0669          | 194        | C9FF11350A | 0135   | 180 | E6EF11350AA   | 0455   | 188 |
| 9945556 | 0779   | 198 | SDE342      | 0596          | 192        | C9HE11350A | 0110   | 179 | F07U11000AA   | 1192   | 213 |
| 9946913 | 1477   | 216 | 2900761     | 0032          | 233        | C9WF11350C | 0097   | 178 | F07U11000AA   | 1224   | 214 |
| 9947748 | 1630   | 220 | 2900804     | 0050          | 177        | D1RY11350B | 0205   | 181 | F2TU11000AA   | 1192   | 213 |
| 9947754 | 1169   | 212 | 32051112    | 1612          | 219        | D1RY11350C | 0205   | 181 | F2TU11000AA   | 1224   | 214 |
| 9947831 | 0925   | 204 | F7RUK614    | 0907          | 203        | D27Z11350A | 0184   | 180 | F5BU11350AA   | 0975   | 206 |
| 9947838 | 0998   | 207 | 10670F7RU   | 0907          | 203        | D2RY11350B | 0205   | 181 | F5RU11350RA   | 1208   | 213 |
| 9948135 | 1025   | 208 | BRNN11350   | 1216          | 233        | D37Z11350A | 0184   | 180 | F5RU11350RA   | 1228   | 214 |
| 9956595 | 0594   | 191 | EAB11350A   | 0110          | 179        | D4RY11350A | 0205   | 181 | F5RZ11A198A   | 13268  | 237 |
| 9956676 | 0291   | 182 | F87U11350   | 1217          | 214        | D6PZ11350A | 0205   | 181 | F87U11350AC   | 1217   | 214 |
| 9957707 | 0407   | 186 | FAA11350A   | 0032          | 233        | D6PZ11350B | 0053   | 177 | F8BU11350AA   | 0890   | 203 |
| 9957820 | 0310   | 183 | FAB11350A   | 1216          | 233        | D77Z11350A | 0342   | 184 | XL1U11000AA   | 9781   | 235 |
| 9957919 | 0105   | 179 | FAC11350A   | 1216          | 233        | D97Z11350A | 0545   | 190 | XL1Z11002AA   | 9781   | 235 |
| 9957919 | 1364   | 215 | FAD11350A   | 1216          | 233        | E4FZ11350A | 0681   | 195 | XS6411350AA   | 1208   | 213 |
| 9959572 | 0648   | 194 | FAU11350A   | 0032          | 233        | E4LY11350A | 0681   | 195 | XS6U11350AA   | 1208   | 213 |
| 9959619 | 0367   | 185 | FAV11350A   | 1216          | 233        | E5PZ11350A | 0670   | 195 | YC1U11000AB   | 1539   | 217 |
| 9959813 | 0418   | 186 | ICM11350A   | 0032          | 233        | E6FZ11350A | 0455   | 188 | 72DB11K003AA  | 0064   | 177 |
| 9961781 | 0601   | 192 | ICM11350B   | 0032          | 233        | E6HZ11350A | 0625   | 193 | D6PF11A108BA  | 0053   | 177 |
| 9983629 | 0291   | 182 | ICM11350C   | 0032          | 233        | E7GZ11350A | 0450   | 187 | VP7C3U11350AB | 1676   | 222 |

| Ford            | Nº ZEN | Pg. | Hitachi   | Nº ZEN | Pg. | Hitachi      | Nº ZEN | Pg. | Iskra      | Nº ZEN | Pg. |
|-----------------|--------|-----|-----------|--------|-----|--------------|--------|-----|------------|--------|-----|
| 96BB11000AA7119 | 12718  | 241 | 2108F3500 | 1191   | 213 | 213035004    | 0844   | 201 | 16900408   | 0926   | 204 |
| 96BB11000AA7119 | 12719  | 241 | 2108F3500 | 9488   | 234 | 213035009    | 0792   | 199 | 16900541   | 0926   | 204 |
| Garef           | Nº ZEN | Pg. | 211415003 | 0429   | 187 | 213065001    | 0790   | 199 | 16900902   | 0926   | 204 |
| 1470824         | 0213   | 181 | 211415016 | 1020   | 207 | 213065002    | 0785   | 199 | 16900920   | 0228   | 182 |
| 6624100         | 0714   | 196 | 211415504 | 0517   | 189 | 213065006    | 1860   | 231 | 16901392   | 0926   | 204 |
| 58350001        | 0120   | 179 | 211415507 | 0790   | 199 | 213075002    | 0792   | 199 | 16901408   | 0926   | 204 |
| 58350002        | 0120   | 179 | 211415508 | 0832   | 201 | 213075003    | 0792   | 199 | 16901658   | 1073   | 210 |
| General Motors/ | Nº ZEN | Pg. | 211425504 | 0554   | 190 | 213075004    | 0790   | 199 | 16901694   | 1616   | 220 |
| 01954842        | 0045   | 177 | 211425505 | 1200   | 213 | 213085003    | 0792   | 199 | 16902379   | 1678   | 222 |
| 07073094        | 0111   | 179 | 211425509 | 1207   | 213 | 213095007    | 1862   | 231 | 16902507   | 1700   | 223 |
| 07325345        | 0046   | 177 | 211425554 | 1556   | 218 | 214015003    | 1861   | 231 | 16902653   | 1709   | 224 |
| 07328970        | 0024   | 176 | 211435006 | 0737   | 196 | 225025003    | 0901   | 203 | 16902733   | 1600   | 219 |
| 07328970        | 1359   | 215 | 211435507 | 0791   | 199 | 225025004    | 0901   | 203 | 16904776   | 1698   | 223 |
| 07329691        | 0080   | 178 | 211435551 | 0687   | 195 | 225035001    | 0448   | 187 | 16904847   | 1600   | 219 |
| 09307667        | 0108   | 179 | 211445002 | 0691   | 195 | 225045004    | 0901   | 203 | 16907197   | 1700   | 223 |
| 9423227         | 0349   | 185 | 211445004 | 0351   | 185 | 225085005    | 0901   | 203 | 16907455   | 1701   | 223 |
| 24538276        | 1873   | 231 | 211445007 | 0351   | 185 | 2335453J11   | 0711   | 196 | 16908746   | 1754   | 226 |
| 90273737        | 0482   | 188 | 211445012 | 0634   | 193 | Honda        | Nº ZEN | Pg. | 16911403   | 1699   | 223 |
| 90421771        | 0745   | 197 | 211445016 | 1016   | 207 | 31200PLM     | 1548   | 217 | 16911910   | 1751   | 225 |
| 93297293        | 1064   | 209 | 211445100 | 1017   | 207 | 31204PC016   | 9350   | 234 | 18100021   | 0036   | 233 |
| 94021427        | 0141   | 180 | 211445504 | 0499   | 189 | 31204657617  | 0947   | 205 | 18100098   | 0035   | 233 |
| 94208296        | 0351   | 185 | 211455003 | 0644   | 194 | 31204657617  | 1722   | 224 | 18900179   | 0533   | 190 |
| 94233227        | 0349   | 185 | 211455004 | 0349   | 185 | 31204PC2016  | 9350   | 234 | Isuzu      | Nº ZEN | Pg. |
| 96058480        | 0617   | 192 | 211455008 | 9488   | 234 | 31204PD1003  | 9350   | 234 | 2902769300 | 1608   | 219 |
| 96063635        | 0450   | 187 | 211455506 | 0737   | 196 | 31204PD1013  | 9350   | 234 | 5811130170 | 0376   | 185 |
| 96063636        | 0595   | 192 | 211465001 | 0349   | 185 | 31204PH3006  | 9350   | 234 | 5811230020 | 0376   | 185 |
| 97209548        | 1608   | 219 | 211465004 | 0382   | 185 | 31204PJ7903  | 9350   | 234 | 5811230040 | 0663   | 194 |
| 97720446        | 1608   | 219 | 211465008 | 9528   | 235 | 312062F5L31  | 0708   | 196 | 5811230070 | 0376   | 185 |
| 97729079        | 1608   | 219 | 211475001 | 0351   | 185 | 31207634005  | 0349   | 185 | 5811230090 | 0448   | 187 |
| HC Parts        | Nº ZEN | Pg. | 211475008 | 0737   | 196 | 31207657006  | 0327   | 184 | 5811230150 | 0448   | 187 |
| CS387           | 1594   | 219 | 211475008 | 1200   | 213 | 31207PA0006  | 0327   | 184 | 5811230160 | 0376   | 185 |
| CS1129          | 1594   | 219 | 211475014 | 0828   | 201 | 31207PE0005  | 0832   | 201 | 5811230360 | 0832   | 201 |
| Hitachi         | Nº ZEN | Pg. | 211485008 | 0737   | 196 | 31213671671  | 9186   | 234 | 5811240030 | 0946   | 205 |
| 1303ST          | 0539   | 190 | 211485501 | 0790   | 199 | 31221657004  | 9186   | 234 | 5811240030 | 9260   | 234 |
| S114829         | 1557   | 218 | 211495002 | 0382   | 185 | Hyundai      | Nº ZEN | Pg. | 5811240040 | 1827   | 229 |
| S14100D         | 1608   | 219 | 211495007 | 0537   | 190 | 3613741000   | 12656  | 236 | 5811240060 | 9260   | 234 |
| S14100E         | 1608   | 219 | 211495008 | 0737   | 196 | 3613911140   | 1778   | 227 | 8821213620 | 0141   | 180 |
| S14101A         | 1608   | 219 | 211495501 | 9527   | 235 | 3613942000   | 1577   | 218 | 8921233010 | 0141   | 180 |
| S14101B         | 1608   | 219 | 211495505 | 0554   | 190 | 3614523171   | 1775   | 227 | 8941155680 | 0737   | 196 |
| 21203500        | 0376   | 185 | 2114N1550 | 0141   | 180 | 3614525010   | 1800   | 228 | 8941155690 | 1200   | 213 |
| 21207500        | 0376   | 185 | 2114N1560 | 0141   | 180 | 361452B102   | 1777   | 227 | 8941258890 | 0498   | 189 |
| 21207530        | 0376   | 185 | 2114N3550 | 0351   | 185 | 361452G000   | 1770   | 227 | 8941291870 | 0947   | 205 |
| 21207550        | 0376   | 185 | 2114N4550 | 0141   | 180 | 361454A100   | 1794   | 228 | 8941291870 | 1722   | 224 |
| 21301502        | 0790   | 199 | 212015501 | 0684   | 195 | 3616042300   | 1607   | 219 | 8942082960 | 0351   | 185 |
| 21303500        | 0539   | 190 | 212025001 | 0448   | 187 | Ishikawajima | Nº ZEN | Pg. | 8942082961 | 0351   | 185 |
| 21309500        | 0684   | 195 | 212035001 | 0376   | 185 | 185866150    | 0947   | 205 | 8942332270 | 0349   | 185 |
| 21401500        | 1861   | 231 | 212045002 | 0448   | 187 | 185866150    | 1722   | 224 | 8942332770 | 0349   | 185 |
| 22402500        | 1858   | 231 | 212055002 | 0448   | 187 | Iskra        | Nº ZEN | Pg. | 8942363471 | 0737   | 196 |
| 22408500        | 1858   | 231 | 212075002 | 0448   | 187 | 922H6        | 0926   | 204 | 8942391070 | 0327   | 184 |
| 22409500        | 1858   | 231 | 212085001 | 0448   | 187 | 15100152     | 0087   | 233 | 8943677720 | 0750   | 197 |
| 22505550        | 0663   | 194 | 212085002 | 0448   | 187 | 16900035     | 1088   | 210 | 8944355630 | 1861   | 231 |
| 22708500        | 0901   | 203 | 212095001 | 0663   | 194 | 16900068     | 1588   | 218 | 8970256720 | 1865   | 231 |
| 210875002       | 0536   | 190 | 213015005 | 1862   | 231 | 16900089     | 1056   | 209 | 8970475470 | 1861   | 231 |
| 210875002       | 1191   | 213 | 213015505 | 1862   | 231 | 16900151     | 1060   | 209 | 8971797700 | 1865   | 231 |
| 2108F3500       | 0536   | 190 | 213025005 | 1861   | 231 | 16900392     | 0926   | 204 | 8972095483 | 1608   | 219 |

| Isuzu             | Nº ZEN        | Pg.        | Italacciai | Nº ZEN | Pg. | Italacciai              | Nº ZEN        | Pg.        | Lester | Nº ZEN | Pg. |
|-------------------|---------------|------------|------------|--------|-----|-------------------------|---------------|------------|--------|--------|-----|
| 8973291631        | 1608          | 219        | SD197      | 0280   | 233 | SD496                   | 0325          | 184        | 3038   | 0556   | 190 |
| 8973828350        | 1608          | 219        | SD197      | 0380   | 233 | SD499                   | 0574          | 191        | 3039   | 0626   | 193 |
| 9811233010        | 0141          | 180        | SD198      | 0150   | 180 | SD500                   | 0404          | 186        | 3040   | 0626   | 193 |
| 9821212340        | 0448          | 187        | SD199      | 0398   | 186 | SD508                   | 0656          | 194        | 3041   | 0110   | 179 |
| 9821212380        | 0376          | 185        | SD300      | 0170   | 233 | SD509                   | 0646          | 194        | 3042   | 0110   | 179 |
| 9821233010        | 0141          | 180        | SD303      | 0155   | 180 | SD804                   | 0461          | 188        | 3043   | 0110   | 179 |
| <b>Italacciai</b> | <b>Nº ZEN</b> | <b>Pg.</b> | SD305      | 0080   | 178 | SD813                   | 0216          | 181        | 3045   | 0110   | 179 |
| SD002             | 0285          | 182        | SD306      | 0223   | 181 | SP201                   | 0035          | 233        | 3047   | 0110   | 179 |
| SD012             | 0319          | 184        | SD307      | 0228   | 182 | SP205                   | 0036          | 233        | 3048   | 0776   | 198 |
| SD013             | 0225          | 182        | SD309      | 0139   | 180 | SP208                   | 0087          | 233        | 3050   | 0914   | 203 |
| SD015             | 0224          | 182        | SD310      | 0420   | 186 | SP211                   | 0218          | 233        | 3052   | 0879   | 202 |
| SD016             | 0447          | 187        | SD311      | 0406   | 186 | <b>Iveco</b>            | <b>Nº ZEN</b> | <b>Pg.</b> | 3053   | 0188   | 181 |
| SD018             | 0304          | 183        | SD312      | 0118   | 179 | 42531397                | 0875          | 202        | 3054   | 0879   | 202 |
| SD019             | 0411          | 186        | SD313      | 0378   | 185 | 50053567                | 1650          | 221        | 3055   | 0117   | 179 |
| SD037             | 0362          | 185        | SD314      | 0648   | 194 | 500053567               | 1650          | 221        | 3055   | 0776   | 198 |
| SD038             | 0226          | 182        | SD315      | 0313   | 183 | <b>J &amp; N</b>        | <b>Nº ZEN</b> | <b>Pg.</b> | 3056   | 0188   | 181 |
| SD040             | 0463          | 188        | SD318      | 0287   | 182 | 22244009                | 9702          | 235        | 3057   | 0188   | 181 |
| SD044             | 0570          | 191        | SD324      | 0248   | 182 | <b>Jac</b>              | <b>Nº ZEN</b> | <b>Pg.</b> | 3058   | 0188   | 181 |
| SD047             | 0574          | 191        | SD335      | 0571   | 191 | 11A20                   | 1781          | 227        | 3060   | 0188   | 181 |
| SD055             | 0325          | 184        | SD341      | 0064   | 177 | <b>John Deere</b>       | <b>Nº ZEN</b> | <b>Pg.</b> | 3061   | 0188   | 181 |
| SD060             | 0228          | 182        | SD342      | 0320   | 184 | AR54992                 | 0434          | 187        | 3064   | 0117   | 179 |
| SD061             | 0028          | 176        | SD345      | 0361   | 185 | CH12485                 | 1828          | 229        | 3064   | 0776   | 198 |
| SD062             | 0630          | 193        | SD346      | 0318   | 184 | 19024524                | 0366          | 185        | 3065   | 0879   | 202 |
| SD076             | 0286          | 182        | SD347      | 0312   | 183 | <b>Johnson Electric</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 3074   | 0110   | 179 |
| SD077             | 0601          | 192        | SD349      | 0101   | 178 | 10394020                | 1455          | 215        | 3124   | 0053   | 177 |
| SD105             | 0533          | 190        | SD350      | 0460   | 188 | 420888994               | 0981          | 206        | 3131   | 0053   | 177 |
| SD106             | 0533          | 190        | SD354      | 0460   | 188 | 5712820DV30SM           | 0708          | 196        | 3132   | 0053   | 177 |
| SD107             | 0120          | 179        | SD356      | 0365   | 185 | 5970420DV30SN           | 1453          | 215        | 3135   | 0053   | 177 |
| SD108             | 0213          | 181        | SD357      | 0366   | 185 | 10328720DV30SM          | 0981          | 206        | 3148   | 0205   | 181 |
| SD112             | 0608          | 192        | SD359      | 0353   | 185 | <b>Just Parts</b>       | <b>Nº ZEN</b> | <b>Pg.</b> | 3149   | 0053   | 177 |
| SD117             | 0189          | 181        | SD400      | 0215   | 181 | BO26021N                | 9702          | 235        | 3152   | 0053   | 177 |
| SD119             | 0453          | 188        | SD401      | 0096   | 178 | HT25034NPS1             | 9702          | 235        | 3153   | 0053   | 177 |
| SD123             | 0310          | 183        | SD415      | 0227   | 182 | <b>Kawasaki</b>         | <b>Nº ZEN</b> | <b>Pg.</b> | 3154   | 0053   | 177 |
| SD124             | 0105          | 179        | SD427      | 0451   | 187 | 131013701               | 0749          | 197        | 3155   | 0053   | 177 |
| SD124             | 1364          | 215        | SD436      | 0108   | 179 | 131013703               | 0749          | 197        | 3157   | 0053   | 177 |
| SD125             | 0407          | 186        | SD437      | 0482   | 188 | 131013705               | 0749          | 197        | 3160   | 0053   | 177 |
| SD128             | 0407          | 186        | SD439      | 0520   | 189 | 131013706               | 0749          | 197        | 3168   | 0053   | 177 |
| SD137             | 0222          | 181        | SD440      | 0631   | 193 | 590513005               | 0536          | 190        | 3169   | 0053   | 177 |
| SD145             | 0561          | 191        | SD441      | 0392   | 185 | 590513005               | 1191          | 213        | 3176   | 0053   | 177 |
| SD149             | 0349          | 185        | SD442      | 0418   | 186 | <b>KHD</b>              | <b>Nº ZEN</b> | <b>Pg.</b> | 3181   | 0053   | 177 |
| SD151             | 0351          | 185        | SD443      | 0367   | 185 | 01319755                | 1038          | 208        | 3185   | 0053   | 177 |
| SD152             | 0184          | 180        | SD447      | 0220   | 181 | 01319806                | 1038          | 208        | 3187   | 0053   | 177 |
| SD153             | 0408          | 186        | SD449      | 0307   | 183 | 1340070                 | 1483          | 216        | 3188   | 0053   | 177 |
| SD158             | 0244          | 182        | SD450      | 0065   | 177 | <b>Kia</b>              | <b>Nº ZEN</b> | <b>Pg.</b> | 3189   | 0053   | 177 |
| SD167             | 0502          | 189        | SD450      | 0323   | 184 | 361392X000              | 1048          | 209        | 3193   | 0681   | 195 |
| SD169             | 0352          | 185        | SD451      | 0300   | 183 | 361452A000              | 1695          | 223        | 3194   | 0681   | 195 |
| SD181             | 0327          | 184        | SD453      | 0229   | 182 | <b>Kubota</b>           | <b>Nº ZEN</b> | <b>Pg.</b> | 3196   | 0455   | 188 |
| SD183             | 0353          | 185        | SD454      | 0068   | 178 | 1418263041              | 1827          | 229        | 3204   | 1224   | 214 |
| SD184             | 0291          | 182        | SD456      | 0119   | 179 | 1550463041              | 0947          | 205        | 3205   | 1224   | 214 |
| SD185             | 0395          | 186        | SD457      | 0131   | 179 | 1550463041              | 1722          | 224        | 3207   | 0135   | 180 |
| SD186             | 0111          | 179        | SD466      | 0323   | 184 | <b>Lada</b>             | <b>Nº ZEN</b> | <b>Pg.</b> | 3208   | 0135   | 180 |
| SD187             | 0394          | 185        | SD469      | 0221   | 181 | 21013798620             | 0213          | 181        | 3209   | 0135   | 180 |
| SD188             | 0389          | 185        | SD483      | 0657   | 194 | 210103708620            | 0213          | 181        | 3211   | 0135   | 180 |
| SD192             | 0217          | 181        | SD486      | 0541   | 190 | 210803708620            | 0540          | 190        | 3212   | 0135   | 180 |
| SD194             | 0245          | 182        | SD489      | 0361   | 185 | CT2213708600            | 0213          | 181        | 3213   | 1224   | 214 |

| Lester | Nº ZEN | Pg. | Lester | Nº ZEN | Pg. | Lester | Nº ZEN | Pg. | Lester | Nº ZEN | Pg. |
|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|
| 3214   | 1193   | 213 | 3365   | 0093   | 178 | 3702   | 0626   | 193 | 3942   | 0093   | 178 |
| 3217   | 1224   | 214 | 3366   | 0977   | 206 | 3708   | 0093   | 178 | 3943   | 0051   | 177 |
| 3221   | 1199   | 213 | 3367   | 0093   | 178 | 3709   | 0381   | 185 | 3945   | 0182   | 180 |
| 3224   | 1224   | 214 | 3369   | 0381   | 185 | 3712   | 0110   | 179 | 3948   | 0097   | 178 |
| 3232   | 1224   | 214 | 3370   | 0097   | 178 | 3720   | 0093   | 178 | 3949   | 0117   | 179 |
| 3238   | 1224   | 214 | 3370   | 0914   | 203 | 3725   | 0454   | 188 | 3952   | 0381   | 185 |
| 3239   | 1224   | 214 | 3374   | 0097   | 178 | 3726   | 0093   | 178 | 3953   | 0051   | 177 |
| 3240   | 1224   | 214 | 3503   | 0020   | 176 | 3729   | 0051   | 177 | 3955   | 0097   | 178 |
| 3241   | 1224   | 214 | 3504   | 0020   | 176 | 3733   | 0020   | 176 | 3956   | 0556   | 190 |
| 3246   | 1224   | 214 | 3505   | 0020   | 176 | 3741   | 0454   | 188 | 3958   | 0110   | 179 |
| 3247   | 1224   | 214 | 3507   | 0020   | 176 | 3742   | 0454   | 188 | 3963   | 0110   | 179 |
| 3248   | 0054   | 177 | 3508   | 0020   | 176 | 3744   | 0110   | 179 | 3964   | 0052   | 177 |
| 3249   | 0054   | 177 | 3510   | 0020   | 176 | 3745   | 0110   | 179 | 3966   | 0052   | 177 |
| 3250   | 0050   | 177 | 3511   | 0093   | 178 | 3747   | 0626   | 193 | 3971   | 0097   | 178 |
| 3252   | 0054   | 177 | 3512   | 0093   | 178 | 3757   | 0110   | 179 | 3972   | 0093   | 178 |
| 3257   | 0050   | 177 | 3524   | 0020   | 176 | 3758   | 0182   | 180 | 3974   | 0110   | 179 |
| 3257   | 0495   | 189 | 3525   | 0020   | 176 | 3764   | 0454   | 188 | 3976   | 0188   | 181 |
| 3258   | 0050   | 177 | 3533   | 0020   | 176 | 3766   | 0110   | 179 | 3977   | 0051   | 177 |
| 3258   | 0495   | 189 | 3535   | 0020   | 176 | 3770   | 0110   | 179 | 3977   | 0093   | 178 |
| 3261   | 1228   | 214 | 3546   | 0020   | 176 | 3774   | 0093   | 178 | 3979   | 0182   | 180 |
| 3262   | 1228   | 214 | 3550   | 0020   | 176 | 3777   | 0188   | 181 | 3986   | 0093   | 178 |
| 3263   | 1228   | 214 | 3551   | 0020   | 176 | 3785   | 0110   | 179 | 3987   | 0097   | 178 |
| 3264   | 1224   | 214 | 3552   | 0020   | 176 | 3789   | 0879   | 202 | 3990   | 0097   | 178 |
| 3266   | 1224   | 214 | 3553   | 0020   | 176 | 3790   | 0097   | 178 | 3991   | 0093   | 178 |
| 3267   | 1199   | 213 | 3554   | 0020   | 176 | 3793   | 0051   | 177 | 3992   | 0051   | 177 |
| 3268   | 1224   | 214 | 3557   | 0020   | 176 | 3796   | 0879   | 202 | 3997   | 0110   | 179 |
| 3269   | 1224   | 214 | 3560   | 0020   | 176 | 3798   | 0182   | 180 | 3999   | 0097   | 178 |
| 3270   | 1224   | 214 | 3561   | 0020   | 176 | 3800   | 0020   | 176 | 4000   | 0112   | 179 |
| 3271   | 1224   | 214 | 3563   | 0020   | 176 | 3804   | 0051   | 177 | 4038   | 0020   | 176 |
| 3272   | 1224   | 214 | 3564   | 0020   | 176 | 3809   | 0117   | 179 | 4046   | 0052   | 177 |
| 3273   | 1224   | 214 | 3565   | 0020   | 176 | 3809   | 0776   | 198 | 4056   | 0039   | 176 |
| 3274   | 1224   | 214 | 3568   | 0020   | 176 | 3838   | 0020   | 176 | 4098   | 0052   | 177 |
| 3276   | 0051   | 177 | 3569   | 0020   | 176 | 3846   | 0188   | 181 | 4100   | 0112   | 179 |
| 3277   | 0977   | 206 | 3571   | 0020   | 176 | 3852   | 0051   | 177 | 4150   | 0013   | 176 |
| 3279   | 0051   | 177 | 3601   | 0454   | 188 | 3853   | 0381   | 185 | 4151   | 0052   | 177 |
| 3280   | 0051   | 177 | 3627   | 0020   | 176 | 3870   | 0052   | 177 | 4161   | 0013   | 176 |
| 3281   | 0052   | 177 | 3629   | 0020   | 176 | 3872   | 0555   | 190 | 4167   | 0052   | 177 |
| 3282   | 0052   | 177 | 3630   | 0013   | 176 | 3873   | 0051   | 177 | 4191   | 0093   | 178 |
| 3288   | 0097   | 178 | 3631   | 0020   | 176 | 3883   | 0052   | 177 | 4192   | 0093   | 178 |
| 3288   | 0626   | 193 | 3633   | 0020   | 176 | 3884   | 0117   | 179 | 4194   | 0381   | 185 |
| 3289   | 0626   | 193 | 3635   | 0020   | 176 | 3884   | 0776   | 198 | 4200   | 0052   | 177 |
| 3290   | 0626   | 193 | 3637   | 0013   | 176 | 3885   | 0776   | 198 | 4201   | 0052   | 177 |
| 3294   | 0381   | 185 | 3639   | 0010   | 176 | 3894   | 0117   | 179 | 4202   | 0052   | 177 |
| 3296   | 0110   | 179 | 3639   | 0013   | 176 | 3894   | 0776   | 198 | 4208   | 0020   | 176 |
| 3297   | 0626   | 193 | 3643   | 0013   | 176 | 3895   | 0117   | 179 | 4211   | 0112   | 179 |
| 3298   | 0110   | 179 | 3649   | 0020   | 176 | 3895   | 0776   | 198 | 4215   | 0381   | 185 |
| 3299   | 0110   | 179 | 3666   | 0020   | 176 | 3898   | 0093   | 178 | 4217   | 0052   | 177 |
| 3300   | 0112   | 179 | 3674   | 0020   | 176 | 3899   | 0626   | 193 | 4222   | 0013   | 176 |
| 3339   | 0097   | 178 | 3686   | 0020   | 176 | 3902   | 0110   | 179 | 4224   | 0052   | 177 |
| 3342   | 0110   | 179 | 3689   | 0020   | 176 | 3905   | 0110   | 179 | 4235   | 0977   | 206 |
| 3352   | 0097   | 178 | 3690   | 0010   | 176 | 3931   | 0117   | 179 | 4236   | 0977   | 206 |
| 3353   | 0093   | 178 | 3690   | 0013   | 176 | 3931   | 0776   | 198 | 4238   | 0010   | 176 |
| 3362   | 0093   | 178 | 3691   | 0020   | 176 | 3932   | 0914   | 203 | 4238   | 0013   | 176 |
| 3363   | 0093   | 178 | 3696   | 0020   | 176 | 3933   | 0381   | 185 | 4239   | 0052   | 177 |
| 3364   | 0914   | 203 | 3701   | 0626   | 193 | 3941   | 0110   | 179 | 4241   | 0093   | 178 |

| Lester | Nº ZEN | Pg. | Lester | Nº ZEN | Pg. | Lester | Nº ZEN | Pg. | Lester | Nº ZEN | Pg. |
|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|
| 4243   | 0052   | 177 | 4636   | 0117   | 179 | 6181   | 0051   | 177 | 6312   | 0433   | 187 |
| 4244   | 0052   | 177 | 4678   | 0039   | 176 | 6185   | 0051   | 177 | 6313   | 0433   | 187 |
| 4246   | 0052   | 177 | 4723   | 0052   | 177 | 6185   | 0245   | 182 | 6315   | 0433   | 187 |
| 4247   | 0013   | 176 | 4724   | 0020   | 176 | 6188   | 0051   | 177 | 6316   | 0433   | 187 |
| 4247   | 0020   | 176 | 4731   | 0117   | 179 | 6191   | 0097   | 178 | 6317   | 1189   | 212 |
| 4248   | 0112   | 179 | 4732   | 0117   | 179 | 6192   | 0381   | 185 | 6318   | 0433   | 187 |
| 4249   | 0052   | 177 | 4733   | 0117   | 179 | 6197   | 0097   | 178 | 6319   | 0433   | 187 |
| 4251   | 0112   | 179 | 4734   | 0117   | 179 | 6198   | 0051   | 177 | 6327   | 0433   | 187 |
| 4252   | 0093   | 178 | 4747   | 0117   | 179 | 6202   | 0097   | 178 | 6330   | 0433   | 187 |
| 4253   | 0020   | 176 | 4748   | 0117   | 179 | 6203   | 0110   | 179 | 6331   | 0433   | 187 |
| 4254   | 0052   | 177 | 4749   | 0188   | 181 | 6204   | 0625   | 193 | 6339   | 1189   | 212 |
| 4263   | 0020   | 176 | 4828   | 0093   | 178 | 6208   | 0110   | 179 | 6343   | 0454   | 188 |
| 4265   | 0093   | 178 | 4843   | 0381   | 185 | 6209   | 0188   | 181 | 6346   | 0454   | 188 |
| 4266   | 0093   | 178 | 4851   | 0626   | 193 | 6213   | 0117   | 179 | 6348   | 0625   | 193 |
| 4267   | 0093   | 178 | 4882   | 0051   | 177 | 6219   | 0879   | 202 | 6349   | 0097   | 178 |
| 4268   | 0112   | 179 | 4883   | 0051   | 177 | 6220   | 0879   | 202 | 6352   | 0110   | 179 |
| 4270   | 0977   | 206 | 4888   | 0381   | 185 | 6224   | 0097   | 178 | 6355   | 0097   | 178 |
| 4271   | 0977   | 206 | 4893   | 0051   | 177 | 6225   | 0097   | 178 | 6356   | 0110   | 179 |
| 4272   | 0093   | 178 | 4894   | 0093   | 178 | 6227   | 0097   | 178 | 6360   | 0097   | 178 |
| 4274   | 0093   | 178 | 4897   | 0556   | 190 | 6229   | 0110   | 179 | 6361   | 0097   | 178 |
| 4275   | 0093   | 178 | 4898   | 0093   | 178 | 6230   | 0110   | 179 | 6363   | 0097   | 178 |
| 4276   | 0093   | 178 | 4899   | 0110   | 179 | 6231   | 0110   | 179 | 6370   | 0110   | 179 |
| 4280   | 0051   | 177 | 4899   | 1190   | 212 | 6232   | 0097   | 178 | 6371   | 0097   | 178 |
| 4281   | 0093   | 178 | 4906   | 0093   | 178 | 6233   | 0097   | 178 | 6372   | 0097   | 178 |
| 4283   | 0052   | 177 | 4918   | 0556   | 190 | 6234   | 0914   | 203 | 6373   | 0097   | 178 |
| 4284   | 0093   | 178 | 4927   | 0110   | 179 | 6238   | 0097   | 178 | 6374   | 0097   | 178 |
| 4286   | 0052   | 177 | 4930   | 0110   | 179 | 6242   | 0097   | 178 | 6375   | 0020   | 176 |
| 4307   | 0112   | 179 | 4937   | 0110   | 179 | 6243   | 0110   | 179 | 6378   | 0110   | 179 |
| 4318   | 0112   | 179 | 4941   | 0093   | 178 | 6245   | 0110   | 179 | 6381   | 0182   | 180 |
| 4326   | 0052   | 177 | 4943   | 0112   | 179 | 6246   | 0097   | 178 | 6387   | 0625   | 193 |
| 4328   | 0052   | 177 | 4946   | 0093   | 178 | 6247   | 0914   | 203 | 6388   | 0888   | 202 |
| 4338   | 0093   | 178 | 4949   | 0093   | 178 | 6248   | 0914   | 203 | 6391   | 0625   | 193 |
| 4347   | 0020   | 176 | 4953   | 0093   | 178 | 6249   | 0097   | 178 | 6401   | 0752   | 197 |
| 4385   | 0093   | 178 | 4971   | 0093   | 178 | 6250   | 0097   | 178 | 6407   | 0610   | 192 |
| 4387   | 0051   | 177 | 4972   | 0093   | 178 | 6251   | 0097   | 178 | 6407   | 0611   | 192 |
| 4388   | 0052   | 177 | 4973   | 0093   | 178 | 6252   | 0097   | 178 | 6409   | 0611   | 192 |
| 4389   | 0093   | 178 | 4984   | 0188   | 181 | 6253   | 0097   | 178 | 6410   | 0625   | 193 |
| 4392   | 0093   | 178 | 4987   | 0110   | 179 | 6254   | 0097   | 178 | 6413   | 1189   | 212 |
| 4393   | 0052   | 177 | 4994   | 0112   | 179 | 6255   | 0914   | 203 | 6415   | 0612   | 192 |
| 4398   | 0093   | 178 | 4995   | 0112   | 179 | 6257   | 0182   | 180 | 6416   | 0612   | 192 |
| 4399   | 0093   | 178 | 4996   | 0052   | 177 | 6258   | 0914   | 203 | 6418   | 0612   | 192 |
| 4408   | 0052   | 177 | 4997   | 0097   | 178 | 6259   | 0097   | 178 | 6424   | 0612   | 192 |
| 4500   | 0052   | 177 | 4998   | 0093   | 178 | 6261   | 0626   | 193 | 6426   | 0433   | 187 |
| 4506   | 0052   | 177 | 4999   | 0051   | 177 | 6263   | 0626   | 193 | 6431   | 0611   | 192 |
| 4508   | 0052   | 177 | 5311   | 0188   | 181 | 6272   | 0626   | 193 | 6432   | 0752   | 197 |
| 4509   | 0052   | 177 | 5597   | 0117   | 179 | 6273   | 0626   | 193 | 6433   | 0752   | 197 |
| 4523   | 0381   | 185 | 5648   | 0039   | 176 | 6288   | 0888   | 202 | 6443   | 0611   | 192 |
| 4525   | 0093   | 178 | 6147   | 0052   | 177 | 6300   | 0611   | 192 | 6445   | 0770   | 198 |
| 4537   | 0093   | 178 | 6148   | 0052   | 177 | 6303   | 0020   | 176 | 6449   | 0756   | 197 |
| 4545   | 0052   | 177 | 6151   | 0381   | 185 | 6305   | 0454   | 188 | 6452   | 0774   | 198 |
| 4567   | 0381   | 185 | 6157   | 0052   | 177 | 6307   | 0433   | 187 | 6467   | 0625   | 193 |
| 4573   | 0093   | 178 | 6164   | 0112   | 179 | 6308   | 0433   | 187 | 6468   | 0629   | 193 |
| 4577   | 0039   | 176 | 6171   | 0381   | 185 | 6309   | 0433   | 187 | 6469   | 0629   | 193 |
| 4597   | 0052   | 177 | 6179   | 0093   | 178 | 6310   | 0433   | 187 | 6470   | 0756   | 197 |
| 4600   | 0110   | 179 | 6180   | 0052   | 177 | 6311   | 0020   | 176 | 6471   | 0774   | 198 |

| Lester | Nº ZEN | Pg. | Lester | Nº ZEN | Pg. | Lester | Nº ZEN | Pg. | Lester | Nº ZEN | Pg. |
|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|
| 6471   | 10003  | 232 | 6572   | 1195   | 213 | 6636   | 0097   | 178 | 16211  | 0141   | 180 |
| 6472   | 0756   | 197 | 6573   | 0629   | 193 | 6637   | 0110   | 179 | 16211  | 0349   | 185 |
| 6473   | 0783   | 199 | 6574   | 0722   | 196 | 6638   | 0097   | 178 | 16215  | 0140   | 180 |
| 6474   | 0783   | 199 | 6575   | 1196   | 213 | 6639   | 0097   | 178 | 16215  | 0184   | 180 |
| 6480   | 0756   | 197 | 6576   | 0649   | 194 | 6646   | 9705   | 235 | 16215  | 0353   | 185 |
| 6481   | 0770   | 198 | 6576   | 1195   | 213 | 6647   | 9781   | 235 | 16217  | 0327   | 184 |
| 6482   | 0756   | 197 | 6578   | 0649   | 194 | 6650   | 0914   | 203 | 16218  | 0184   | 180 |
| 6483   | 0783   | 199 | 6578   | 1195   | 213 | 6659   | 0381   | 185 | 16218  | 0327   | 184 |
| 6491   | 10003  | 232 | 6579   | 0651   | 194 | 6662   | 1205   | 213 | 16220  | 0327   | 184 |
| 6493   | 10003  | 232 | 6579   | 1197   | 213 | 6664   | 1205   | 213 | 16221  | 0343   | 184 |
| 6494   | 10003  | 232 | 6581   | 0649   | 194 | 6666   | 1205   | 213 | 16222  | 0140   | 180 |
| 6500   | 0182   | 180 | 6581   | 1195   | 213 | 6671   | 0110   | 179 | 16222  | 0353   | 185 |
| 6509   | 0110   | 179 | 6582   | 0722   | 196 | 6672   | 0110   | 179 | 16223  | 0327   | 184 |
| 6510   | 0112   | 179 | 6583   | 1194   | 213 | 6681   | 0182   | 180 | 16224  | 0140   | 180 |
| 6511   | 0110   | 179 | 6584   | 0649   | 194 | 6682   | 0097   | 178 | 16224  | 0353   | 185 |
| 6513   | 0110   | 179 | 6584   | 1195   | 213 | 6683   | 0097   | 178 | 16230  | 0140   | 180 |
| 6515   | 0182   | 180 | 6585   | 0629   | 193 | 6684   | 0110   | 179 | 16230  | 0184   | 180 |
| 6516   | 0097   | 178 | 6586   | 1196   | 213 | 6686   | 0097   | 178 | 16230  | 0353   | 185 |
| 6518   | 0914   | 203 | 6587   | 0649   | 194 | 6687   | 0097   | 178 | 16238  | 0140   | 180 |
| 6519   | 0051   | 177 | 6587   | 1195   | 213 | 6688   | 0097   | 178 | 16238  | 0353   | 185 |
| 6521   | 0052   | 177 | 6588   | 0649   | 194 | 6705   | 0381   | 185 | 16242  | 0184   | 180 |
| 6528   | 0914   | 203 | 6588   | 1195   | 213 | 6707   | 0112   | 179 | 16245  | 0184   | 180 |
| 6529   | 0914   | 203 | 6589   | 0629   | 193 | 6730   | 0093   | 178 | 16245  | 0340   | 184 |
| 6530   | 0097   | 178 | 6590   | 0629   | 193 | 6731   | 0112   | 179 | 16245  | 0498   | 189 |
| 6538   | 0110   | 179 | 6591   | 0723   | 196 | 6733   | 0112   | 179 | 16245  | 0545   | 190 |
| 6541   | 0454   | 188 | 6592   | 0722   | 196 | 6736   | 0977   | 206 | 16246  | 0141   | 180 |
| 6542   | 0381   | 185 | 6593   | 0649   | 194 | 6737   | 0112   | 179 | 16246  | 0351   | 185 |
| 6543   | 0093   | 178 | 6593   | 1195   | 213 | 6738   | 0977   | 206 | 16248  | 0947   | 205 |
| 6544   | 0097   | 178 | 6594   | 0721   | 196 | 6740   | 0052   | 177 | 16248  | 1722   | 224 |
| 6547   | 0182   | 180 | 6595   | 0629   | 193 | 6760   | 0110   | 179 | 16248  | 9186   | 234 |
| 6548   | 0110   | 179 | 6596   | 0722   | 196 | 6762   | 0110   | 179 | 16251  | 0947   | 205 |
| 6549   | 0110   | 179 | 6597   | 0721   | 196 | 6781   | 0110   | 179 | 16251  | 1722   | 224 |
| 6550   | 0914   | 203 | 6598   | 0722   | 196 | 11713  | 1876   | 231 | 16254  | 0342   | 184 |
| 6551   | 0110   | 179 | 6599   | 0651   | 194 | 16109  | 1188   | 212 | 16257  | 0111   | 179 |
| 6552   | 0110   | 179 | 6599   | 1197   | 213 | 16121  | 0170   | 233 | 16257  | 0213   | 181 |
| 6553   | 0110   | 179 | 6600   | 0649   | 194 | 16122  | 0170   | 233 | 16260  | 0184   | 180 |
| 6554   | 0110   | 179 | 6600   | 1195   | 213 | 16164  | 0414   | 186 | 16261  | 0140   | 180 |
| 6555   | 0110   | 179 | 6602   | 0649   | 194 | 16166  | 0412   | 186 | 16261  | 0184   | 180 |
| 6556   | 0110   | 179 | 6602   | 1195   | 213 | 16167  | 0170   | 233 | 16261  | 0353   | 185 |
| 6557   | 0097   | 178 | 6609   | 0767   | 198 | 16168  | 0170   | 233 | 16270  | 0141   | 180 |
| 6558   | 0097   | 178 | 6618   | 0097   | 178 | 16169  | 0280   | 233 | 16270  | 0349   | 185 |
| 6559   | 0097   | 178 | 6619   | 0110   | 179 | 16169  | 0380   | 233 | 16270  | 0351   | 185 |
| 6560   | 0756   | 197 | 6621   | 0626   | 193 | 16173  | 0412   | 186 | 16272  | 0342   | 184 |
| 6561   | 0756   | 197 | 6622   | 0626   | 193 | 16188  | 0170   | 233 | 16283  | 1188   | 212 |
| 6562   | 0756   | 197 | 6623   | 0626   | 193 | 16190  | 0141   | 180 | 16284  | 0412   | 186 |
| 6563   | 0756   | 197 | 6624   | 0110   | 179 | 16194  | 0351   | 185 | 16299  | 0080   | 178 |
| 6564   | 0110   | 179 | 6625   | 0110   | 179 | 16201  | 0141   | 180 | 16299  | 0108   | 179 |
| 6565   | 0110   | 179 | 6626   | 0914   | 203 | 16203  | 0141   | 180 | 16299  | 0139   | 180 |
| 6566   | 0097   | 178 | 6627   | 0914   | 203 | 16203  | 0351   | 185 | 16299  | 0221   | 181 |
| 6567   | 0097   | 178 | 6629   | 0626   | 193 | 16205  | 0141   | 180 | 16299  | 0307   | 183 |
| 6568   | 0097   | 178 | 6630   | 1205   | 213 | 16205  | 0349   | 185 | 16313  | 0015   | 176 |
| 6569   | 0110   | 179 | 6631   | 1210   | 214 | 16207  | 0141   | 180 | 16314  | 0015   | 176 |
| 6570   | 0629   | 193 | 6633   | 1205   | 213 | 16207  | 0349   | 185 | 16318  | 0119   | 179 |
| 6571   | 1196   | 213 | 6634   | 1205   | 213 | 16209  | 0141   | 180 | 16319  | 0119   | 179 |
| 6572   | 0649   | 194 | 6635   | 1210   | 214 | 16210  | 0144   | 180 | 16320  | 0015   | 176 |

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|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|
| 16320  | 0223   | 181 | 16450  | 0065   | 177 | 16571  | 0144   | 180 | 16665  | 0411   | 186 |
| 16321  | 0080   | 178 | 16450  | 0131   | 179 | 16578  | 0947   | 205 | 16669  | 0286   | 182 |
| 16326  | 0044   | 176 | 16462  | 0108   | 179 | 16578  | 1722   | 224 | 16669  | 0486   | 189 |
| 16327  | 0119   | 179 | 16462  | 0189   | 181 | 16579  | 0352   | 185 | 16670  | 0150   | 180 |
| 16328  | 0080   | 178 | 16465  | 0120   | 179 | 16579  | 0382   | 185 | 16670  | 0155   | 180 |
| 16329  | 0119   | 179 | 16466  | 0183   | 180 | 16579  | 0853   | 202 | 16674  | 0947   | 205 |
| 16331  | 0080   | 178 | 16468  | 0341   | 184 | 16584  | 0737   | 196 | 16674  | 1722   | 224 |
| 16332  | 0044   | 176 | 16484  | 0189   | 181 | 16586  | 0947   | 205 | 16676  | 9307   | 234 |
| 16332  | 0080   | 178 | 16488  | 0244   | 182 | 16586  | 1722   | 224 | 16683  | 0108   | 179 |
| 16334  | 0223   | 181 | 16488  | 0248   | 182 | 16586  | 9186   | 234 | 16684  | 0108   | 179 |
| 16336  | 0223   | 181 | 16488  | 0404   | 186 | 16588  | 0144   | 180 | 16687  | 0223   | 181 |
| 16337  | 0080   | 178 | 16499  | 0349   | 185 | 16588  | 0352   | 185 | 16688  | 0307   | 183 |
| 16341  | 0080   | 178 | 16500  | 0144   | 180 | 16593  | 0108   | 179 | 16689  | 0108   | 179 |
| 16344  | 0223   | 181 | 16500  | 0352   | 185 | 16593  | 0120   | 179 | 16692  | 0080   | 178 |
| 16345  | 0015   | 176 | 16514  | 0352   | 185 | 16595  | 0222   | 181 | 16694  | 0791   | 199 |
| 16346  | 0015   | 176 | 16514  | 0450   | 187 | 16595  | 0362   | 185 | 16696  | 0341   | 184 |
| 16353  | 0108   | 179 | 16514  | 0597   | 192 | 16597  | 0248   | 182 | 16700  | 0120   | 179 |
| 16355  | 0119   | 179 | 16519  | 0144   | 180 | 16600  | 0947   | 205 | 16708  | 0352   | 185 |
| 16356  | 0223   | 181 | 16520  | 0144   | 180 | 16600  | 1722   | 224 | 16708  | 0450   | 187 |
| 16360  | 0044   | 176 | 16521  | 0120   | 179 | 16600  | 9186   | 234 | 16710  | 0691   | 195 |
| 16360  | 0080   | 178 | 16522  | 0144   | 180 | 16603  | 0041   | 176 | 16711  | 0351   | 185 |
| 16362  | 0223   | 181 | 16522  | 0352   | 185 | 16604  | 0041   | 176 | 16715  | 0216   | 181 |
| 16362  | 0300   | 183 | 16522  | 0450   | 187 | 16606  | 0155   | 180 | 16715  | 0319   | 184 |
| 16362  | 0323   | 184 | 16524  | 0144   | 180 | 16608  | 0064   | 177 | 16715  | 0365   | 185 |
| 16365  | 0028   | 176 | 16527  | 0352   | 185 | 16608  | 0096   | 178 | 16720  | 0144   | 180 |
| 16367  | 0080   | 178 | 16530  | 0068   | 178 | 16608  | 0322   | 184 | 16722  | 0108   | 179 |
| 16367  | 0108   | 179 | 16530  | 0222   | 181 | 16608  | 0480   | 188 | 16722  | 0229   | 182 |
| 16369  | 0035   | 233 | 16530  | 0520   | 189 | 16611  | 0737   | 196 | 16727  | 0292   | 183 |
| 16396  | 0119   | 179 | 16531  | 0108   | 179 | 16612  | 0947   | 205 | 16728  | 0352   | 185 |
| 16396  | 0131   | 179 | 16532  | 0307   | 183 | 16612  | 1722   | 224 | 16732  | 0519   | 189 |
| 16401  | 0068   | 178 | 16534  | 0108   | 179 | 16616  | 0361   | 185 | 16732  | 0554   | 190 |
| 16401  | 0108   | 179 | 16538  | 0108   | 179 | 16617  | 0361   | 185 | 16733  | 0790   | 199 |
| 16401  | 0229   | 182 | 16539  | 0068   | 178 | 16619  | 0108   | 179 | 16733  | 9527   | 235 |
| 16401  | 0307   | 183 | 16539  | 0080   | 178 | 16619  | 0287   | 182 | 16735  | 0947   | 205 |
| 16401  | 0482   | 188 | 16539  | 0108   | 179 | 16619  | 0482   | 188 | 16735  | 1722   | 224 |
| 16405  | 0220   | 181 | 16539  | 0307   | 183 | 16621  | 0068   | 178 | 16736  | 0947   | 205 |
| 16405  | 0222   | 181 | 16543  | 0139   | 180 | 16621  | 0108   | 179 | 16736  | 1722   | 224 |
| 16405  | 0362   | 185 | 16543  | 0221   | 181 | 16623  | 0068   | 178 | 16737  | 0947   | 205 |
| 16405  | 0520   | 189 | 16543  | 0857   | 202 | 16623  | 0420   | 186 | 16737  | 1722   | 224 |
| 16407  | 0080   | 178 | 16546  | 0229   | 182 | 16627  | 0607   | 192 | 16739  | 0946   | 205 |
| 16408  | 0482   | 188 | 16547  | 0323   | 184 | 16629  | 0434   | 187 | 16739  | 9260   | 234 |
| 16412  | 0080   | 178 | 16550  | 0108   | 179 | 16633  | 0184   | 180 | 16742  | 0144   | 180 |
| 16412  | 0108   | 179 | 16556  | 0323   | 184 | 16635  | 0434   | 187 | 16742  | 0352   | 185 |
| 16417  | 0108   | 179 | 16556  | 0406   | 186 | 16637  | 0184   | 180 | 16752  | 0460   | 188 |
| 16417  | 0339   | 184 | 16557  | 0108   | 179 | 16643  | 0434   | 187 | 16752  | 0530   | 190 |
| 16418  | 0108   | 179 | 16558  | 0418   | 186 | 16644  | 0434   | 187 | 16755  | 0248   | 182 |
| 16418  | 0323   | 184 | 16560  | 0105   | 179 | 16646  | 0184   | 180 | 16756  | 0287   | 182 |
| 16438  | 0325   | 184 | 16560  | 0301   | 183 | 16651  | 9403   | 234 | 16756  | 0574   | 191 |
| 16440  | 0080   | 178 | 16560  | 0308   | 183 | 16655  | 0813   | 200 | 16759  | 0947   | 205 |
| 16442  | 0223   | 181 | 16560  | 0315   | 183 | 16658  | 9302   | 234 | 16759  | 1722   | 224 |
| 16443  | 0080   | 178 | 16560  | 0367   | 185 | 16660  | 0041   | 176 | 16760  | 0947   | 205 |
| 16443  | 0108   | 179 | 16563  | 0497   | 189 | 16660  | 0067   | 177 | 16760  | 1722   | 224 |
| 16443  | 0243   | 182 | 16563  | 0635   | 193 | 16660  | 0155   | 180 | 16760  | 9186   | 234 |
| 16445  | 0228   | 182 | 16565  | 0392   | 185 | 16664  | 0411   | 186 | 16761  | 0947   | 205 |
| 16445  | 0319   | 184 | 16567  | 0392   | 185 | 16664  | 0507   | 189 | 16761  | 1722   | 224 |

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|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|
| 16761  | 9186   | 234 | 16834  | 0947   | 205 | 16956  | 0482   | 188 | 17040  | 0572   | 191 |
| 16766  | 0140   | 180 | 16834  | 1722   | 224 | 16957  | 0228   | 182 | 17043  | 0857   | 202 |
| 16766  | 0353   | 185 | 16837  | 0947   | 205 | 16960  | 0815   | 200 | 17046  | 0597   | 192 |
| 16771  | 0448   | 187 | 16837  | 1722   | 224 | 16960  | 9350   | 234 | 17047  | 0575   | 191 |
| 16773  | 0351   | 185 | 16843  | 0140   | 180 | 16961  | 0428   | 187 | 17057  | 0517   | 189 |
| 16774  | 0499   | 189 | 16843  | 0353   | 185 | 16963  | 0532   | 190 | 17057  | 0519   | 189 |
| 16775  | 0517   | 189 | 16843  | 0832   | 201 | 16963  | 0641   | 194 | 17058  | 0341   | 184 |
| 16775  | 0519   | 189 | 16845  | 0815   | 200 | 16966  | 0450   | 187 | 17061  | 0108   | 179 |
| 16781  | 0068   | 178 | 16845  | 9350   | 234 | 16971  | 0450   | 187 | 17066  | 0229   | 182 |
| 16781  | 0108   | 179 | 16858  | 0352   | 185 | 16971  | 0576   | 191 | 17068  | 0613   | 192 |
| 16786  | 0947   | 205 | 16859  | 0352   | 185 | 16974  | 0292   | 183 | 17071  | 0150   | 180 |
| 16786  | 1722   | 224 | 16874  | 0595   | 192 | 16975  | 0815   | 200 | 17072  | 0150   | 180 |
| 16787  | 0417   | 186 | 16877  | 0351   | 185 | 16976  | 0532   | 190 | 17072  | 0155   | 180 |
| 16790  | 0947   | 205 | 16878  | 0947   | 205 | 16978  | 9502   | 234 | 17073  | 0105   | 179 |
| 16790  | 1722   | 224 | 16878  | 1722   | 224 | 16980  | 0482   | 188 | 17073  | 0301   | 183 |
| 16791  | 0584   | 191 | 16879  | 0830   | 201 | 16981  | 9402   | 234 | 17073  | 0308   | 183 |
| 16793  | 0352   | 185 | 16880  | 0498   | 189 | 16982  | 0791   | 199 | 17073  | 0315   | 183 |
| 16794  | 0352   | 185 | 16881  | 9301   | 234 | 16984  | 0286   | 182 | 17073  | 0367   | 185 |
| 16794  | 0450   | 187 | 16883  | 0498   | 189 | 16984  | 0486   | 189 | 17074  | 0105   | 179 |
| 16795  | 0426   | 186 | 16888  | 0600   | 192 | 16986  | 0737   | 196 | 17074  | 0225   | 182 |
| 16795  | 0450   | 187 | 16892  | 0947   | 205 | 16990  | 9302   | 234 | 17074  | 0301   | 183 |
| 16797  | 0287   | 182 | 16892  | 1722   | 224 | 16991  | 0554   | 190 | 17074  | 0308   | 183 |
| 16797  | 0574   | 191 | 16893  | 9502   | 234 | 16992  | 0499   | 189 | 17074  | 0315   | 183 |
| 16802  | 0947   | 205 | 16893  | 9506   | 235 | 16997  | 0737   | 196 | 17074  | 0367   | 185 |
| 16802  | 1722   | 224 | 16895  | 0947   | 205 | 16998  | 0596   | 192 | 17075  | 0312   | 183 |
| 16803  | 0791   | 199 | 16895  | 1722   | 224 | 16999  | 0228   | 182 | 17075  | 0366   | 185 |
| 16805  | 0141   | 180 | 16900  | 0596   | 192 | 17002  | 0947   | 205 | 17076  | 0105   | 179 |
| 16805  | 0499   | 189 | 16901  | 0815   | 200 | 17002  | 1722   | 224 | 17076  | 0301   | 183 |
| 16809  | 0790   | 199 | 16901  | 9350   | 234 | 17003  | 0947   | 205 | 17076  | 0308   | 183 |
| 16809  | 9527   | 235 | 16902  | 0815   | 200 | 17003  | 1722   | 224 | 17076  | 0315   | 183 |
| 16811  | 0737   | 196 | 16902  | 9350   | 234 | 17005  | 0571   | 191 | 17077  | 0419   | 186 |
| 16816  | 0793   | 199 | 16905  | 9186   | 234 | 17006  | 0597   | 192 | 17083  | 9307   | 234 |
| 16817  | 0687   | 195 | 16906  | 0947   | 205 | 17007  | 9307   | 234 | 17084  | 9349   | 234 |
| 16818  | 0448   | 187 | 16906  | 1722   | 224 | 17009  | 0631   | 193 | 17085  | 0656   | 194 |
| 16821  | 0947   | 205 | 16906  | 9186   | 234 | 17010  | 0636   | 193 | 17087  | 0376   | 185 |
| 16821  | 1722   | 224 | 16911  | 0947   | 205 | 17011  | 0482   | 188 | 17087  | 0684   | 195 |
| 16823  | 0947   | 205 | 16911  | 1722   | 224 | 17013  | 0482   | 188 | 17088  | 0539   | 190 |
| 16823  | 1722   | 224 | 16913  | 0947   | 205 | 17013  | 0803   | 200 | 17088  | 0792   | 199 |
| 16825  | 0947   | 205 | 16913  | 1722   | 224 | 17016  | 0420   | 186 | 17089  | 0376   | 185 |
| 16825  | 1722   | 224 | 16914  | 0815   | 200 | 17016  | 0573   | 191 | 17090  | 0376   | 185 |
| 16826  | 0947   | 205 | 16914  | 9350   | 234 | 17020  | 0750   | 197 | 17090  | 0684   | 195 |
| 16826  | 1722   | 224 | 16922  | 0450   | 187 | 17020  | 9307   | 234 | 17091  | 9307   | 234 |
| 16827  | 0947   | 205 | 16933  | 0596   | 192 | 17023  | 0798   | 199 | 17092  | 0648   | 194 |
| 16827  | 1722   | 224 | 16938  | 0352   | 185 | 17025  | 0323   | 184 | 17093  | 0310   | 183 |
| 16828  | 0947   | 205 | 16938  | 0450   | 187 | 17027  | 0947   | 205 | 17094  | 0087   | 233 |
| 16828  | 1722   | 224 | 16939  | 0595   | 192 | 17027  | 1722   | 224 | 17095  | 0635   | 193 |
| 16829  | 0947   | 205 | 16940  | 0352   | 185 | 17027  | 9186   | 234 | 17101  | 9186   | 234 |
| 16829  | 1722   | 224 | 16940  | 0450   | 187 | 17028  | 9186   | 234 | 17103  | 0434   | 187 |
| 16830  | 9301   | 234 | 16941  | 0352   | 185 | 17030  | 0579   | 191 | 17105  | 0312   | 183 |
| 16831  | 0947   | 205 | 16941  | 0450   | 187 | 17030  | 0619   | 193 | 17105  | 0366   | 185 |
| 16831  | 1722   | 224 | 16949  | 0228   | 182 | 17031  | 0108   | 179 | 17106  | 0105   | 179 |
| 16832  | 0140   | 180 | 16952  | 0482   | 188 | 17037  | 0669   | 194 | 17106  | 0301   | 183 |
| 16832  | 0353   | 185 | 16953  | 0111   | 179 | 17037  | 0670   | 195 | 17106  | 0308   | 183 |
| 16833  | 0947   | 205 | 16954  | 0537   | 190 | 17038  | 0630   | 193 | 17106  | 0315   | 183 |
| 16833  | 1722   | 224 | 16954  | 0857   | 202 | 17039  | 0482   | 188 | 17106  | 0367   | 185 |



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|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|
| 17108  | 0035   | 233 | 17171  | 1722   | 224 | 17246  | 0828   | 201 | 17393  | 9402   | 234 |
| 17108  | 0218   | 233 | 17176  | 0596   | 192 | 17251  | 0947   | 205 | 17394  | 9302   | 234 |
| 17110  | 9426   | 234 | 17178  | 0793   | 199 | 17251  | 1722   | 224 | 17399  | 9402   | 234 |
| 17111  | 0407   | 186 | 17180  | 0711   | 196 | 17252  | 0809   | 200 | 17406  | 0482   | 188 |
| 17112  | 0225   | 182 | 17181  | 0450   | 187 | 17253  | 0809   | 200 | 17407  | 0482   | 188 |
| 17112  | 0366   | 185 | 17183  | 0573   | 191 | 17254  | 9186   | 234 | 17408  | 0482   | 188 |
| 17113  | 0367   | 185 | 17184  | 0105   | 179 | 17256  | 0947   | 205 | 17410  | 0630   | 193 |
| 17113  | 0378   | 185 | 17184  | 0301   | 183 | 17256  | 1722   | 224 | 17414  | 0223   | 181 |
| 17113  | 0392   | 185 | 17184  | 0308   | 183 | 17258  | 0392   | 185 | 17415  | 0799   | 199 |
| 17114  | 0447   | 187 | 17184  | 0315   | 183 | 17263  | 1211   | 214 | 17416  | 0729   | 196 |
| 17118  | 9186   | 234 | 17184  | 0367   | 185 | 17263  | 9506   | 235 | 17417  | 0900   | 203 |
| 17120  | 0434   | 187 | 17184  | 0648   | 194 | 17266  | 0595   | 192 | 17420  | 0947   | 205 |
| 17122  | 0108   | 179 | 17185  | 0595   | 192 | 17273  | 1212   | 214 | 17420  | 1722   | 224 |
| 17124  | 0482   | 188 | 17194  | 0617   | 192 | 17273  | 9504   | 235 | 17422  | 0947   | 205 |
| 17125  | 0947   | 205 | 17196  | 0687   | 195 | 17276  | 0803   | 200 | 17422  | 1722   | 224 |
| 17125  | 1722   | 224 | 17197  | 0750   | 197 | 17281  | 0630   | 193 | 17425  | 0712   | 196 |
| 17126  | 0407   | 186 | 17197  | 9307   | 234 | 17288  | 0450   | 187 | 17437  | 0758   | 197 |
| 17127  | 0367   | 185 | 17201  | 0815   | 200 | 17294  | 0539   | 190 | 17454  | 0634   | 193 |
| 17129  | 9307   | 234 | 17203  | 0809   | 200 | 17295  | 0517   | 189 | 17458  | 9402   | 234 |
| 17131  | 0595   | 192 | 17205  | 0815   | 200 | 17299  | 0684   | 195 | 17460  | 0817   | 200 |
| 17132  | 0596   | 192 | 17206  | 0617   | 192 | 17303  | 0946   | 205 | 17460  | 9492   | 234 |
| 17134  | 0323   | 184 | 17210  | 0641   | 194 | 17303  | 9260   | 234 | 17461  | 0825   | 201 |
| 17134  | 0579   | 191 | 17212  | 0450   | 187 | 17308  | 0784   | 199 | 17465  | 0817   | 200 |
| 17135  | 0482   | 188 | 17214  | 0595   | 192 | 17309  | 0497   | 189 | 17465  | 9492   | 234 |
| 17136  | 0105   | 179 | 17215  | 9302   | 234 | 17318  | 0764   | 198 | 17466  | 0816   | 200 |
| 17136  | 0301   | 183 | 17216  | 0750   | 197 | 17320  | 0367   | 185 | 17466  | 9349   | 234 |
| 17136  | 0308   | 183 | 17216  | 9307   | 234 | 17331  | 0684   | 195 | 17467  | 0801   | 200 |
| 17136  | 0315   | 183 | 17217  | 0595   | 192 | 17332  | 0427   | 186 | 17469  | 0596   | 192 |
| 17136  | 0367   | 185 | 17219  | 0561   | 191 | 17333  | 0943   | 205 | 17474  | 0815   | 200 |
| 17138  | 0844   | 201 | 17221  | 0595   | 192 | 17345  | 0947   | 205 | 17478  | 0595   | 192 |
| 17138  | 9566   | 235 | 17222  | 0579   | 191 | 17345  | 1722   | 224 | 17481  | 0947   | 205 |
| 17140  | 0482   | 188 | 17222  | 0799   | 199 | 17345  | 9186   | 234 | 17481  | 1722   | 224 |
| 17142  | 0808   | 200 | 17223  | 0729   | 196 | 17348  | 9402   | 234 | 17485  | 0816   | 200 |
| 17143  | 0947   | 205 | 17223  | 0900   | 203 | 17349  | 0434   | 187 | 17485  | 9349   | 234 |
| 17143  | 1722   | 224 | 17225  | 0482   | 188 | 17353  | 0434   | 187 | 17487  | 0947   | 205 |
| 17144  | 0287   | 182 | 17227  | 0630   | 193 | 17353  | 0948   | 205 | 17487  | 1722   | 224 |
| 17146  | 0595   | 192 | 17228  | 0105   | 179 | 17354  | 0140   | 180 | 17491  | 0815   | 200 |
| 17147  | 0517   | 189 | 17228  | 0301   | 183 | 17354  | 0353   | 185 | 17491  | 9350   | 234 |
| 17147  | 0519   | 189 | 17228  | 0308   | 183 | 17359  | 9403   | 234 | 17508  | 0482   | 188 |
| 17148  | 0475   | 188 | 17228  | 0315   | 183 | 17362  | 9459   | 234 | 17521  | 0947   | 205 |
| 17149  | 0475   | 188 | 17228  | 0367   | 185 | 17363  | 9307   | 234 | 17521  | 1722   | 224 |
| 17150  | 0630   | 193 | 17229  | 0378   | 185 | 17365  | 9186   | 234 | 17527  | 0815   | 200 |
| 17152  | 0765   | 198 | 17229  | 0392   | 185 | 17368  | 9307   | 234 | 17530  | 0947   | 205 |
| 17157  | 0287   | 182 | 17230  | 0105   | 179 | 17369  | 0434   | 187 | 17530  | 1722   | 224 |
| 17157  | 0482   | 188 | 17230  | 0301   | 183 | 17371  | 0813   | 200 | 17534  | 1211   | 214 |
| 17159  | 0366   | 185 | 17230  | 0308   | 183 | 17374  | 9186   | 234 | 17534  | 9506   | 235 |
| 17160  | 0815   | 200 | 17230  | 0315   | 183 | 17378  | 9186   | 234 | 17537  | 0947   | 205 |
| 17160  | 9350   | 234 | 17231  | 0639   | 193 | 17380  | 9402   | 234 | 17537  | 1722   | 224 |
| 17161  | 0679   | 195 | 17236  | 0475   | 188 | 17381  | 0946   | 205 | 17548  | 9302   | 234 |
| 17163  | 0482   | 188 | 17237  | 0475   | 188 | 17381  | 9260   | 234 | 17549  | 1212   | 214 |
| 17164  | 0482   | 188 | 17240  | 0947   | 205 | 17385  | 9402   | 234 | 17549  | 9632   | 235 |
| 17165  | 0482   | 188 | 17240  | 1722   | 224 | 17386  | 0434   | 187 | 17559  | 0825   | 201 |
| 17166  | 0617   | 192 | 17242  | 1213   | 214 | 17388  | 9402   | 234 | 17560  | 0852   | 201 |
| 17170  | 1211   | 214 | 17244  | 9426   | 234 | 17390  | 9302   | 234 | 17561  | 0825   | 201 |
| 17171  | 0947   | 205 | 17246  | 0711   | 196 | 17391  | 9402   | 234 | 17563  | 0852   | 201 |

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|--------|--------|-----|--------|--------|-----|--------|--------|-----|------------|--------|-----|
| 17564  | 0597   | 192 | 17777  | 1211   | 214 | 18122  | 0118   | 179 | 19195      | 1876   | 231 |
| 17565  | 0765   | 198 | 17801  | 1608   | 219 | 18151  | 9301   | 234 | 19981      | 1876   | 231 |
| 17574  | 1212   | 214 | 17872  | 1876   | 231 | 18154  | 9307   | 234 | 30011      | 0776   | 198 |
| 17574  | 9632   | 235 | 18020  | 0117   | 179 | 18162  | 0584   | 191 | 30019      | 0776   | 198 |
| 17576  | 0482   | 188 | 18020  | 0776   | 198 | 18181  | 0947   | 205 | 32949      | 0776   | 198 |
| 17579  | 9307   | 234 | 18021  | 0117   | 179 | 18181  | 1722   | 224 | 3508M      | 0020   | 176 |
| 17580  | 0519   | 189 | 18021  | 0776   | 198 | 18182  | 0947   | 205 | 3510M      | 0020   | 176 |
| 17592  | 0595   | 192 | 18022  | 0188   | 181 | 18182  | 1722   | 224 | 62042662A  | 9702   | 235 |
| 17600  | 9302   | 234 | 18024  | 0419   | 186 | 18190  | 9301   | 234 | Lifan      | Nº ZEN | Pg. |
| 17605  | 0773   | 198 | 18026  | 0366   | 185 | 18191  | 0894   | 203 | 101BMP2991 | 0188   | 181 |
| 17606  | 9186   | 234 | 18028  | 0392   | 185 | 18193  | 0850   | 201 | 101BMP2992 | 0930   | 204 |
| 17609  | 9402   | 234 | 18029  | 0105   | 179 | 18204  | 0785   | 199 | Lucas      | Nº ZEN | Pg. |
| 17611  | 9402   | 234 | 18029  | 0308   | 183 | 18206  | 0644   | 194 | 27330      | 0445   | 187 |
| 17613  | 9402   | 234 | 18029  | 0315   | 183 | 18207  | 0644   | 194 | 229278     | 1622   | 220 |
| 17614  | 9402   | 234 | 18030  | 0105   | 179 | 18208  | 0785   | 199 | 250698     | 0171   | 233 |
| 17618  | 0948   | 205 | 18030  | 0308   | 183 | 18216  | 0691   | 195 | 291484     | 0041   | 176 |
| 17622  | 10048  | 235 | 18030  | 0315   | 183 | 18218  | 0644   | 194 | TDB045     | 0045   | 177 |
| 17624  | 0948   | 205 | 18030  | 0648   | 194 | 18220  | 0087   | 233 | TDB070     | 0010   | 176 |
| 17625  | 0948   | 205 | 18031  | 0310   | 183 | 18221  | 0218   | 233 | TDB441     | 0747   | 197 |
| 17633  | 0948   | 205 | 18032  | 0105   | 179 | 18222  | 0087   | 233 | TDB974     | 0770   | 198 |
| 17639  | 0155   | 180 | 18032  | 0301   | 183 | 18225  | 0218   | 233 | TLB111     | 0280   | 233 |
| 17640  | 0155   | 180 | 18032  | 0308   | 183 | 18229  | 0105   | 179 | TLB111     | 0380   | 233 |
| 17641  | 0067   | 177 | 18032  | 0315   | 183 | 18229  | 0301   | 183 | TLB112     | 0170   | 233 |
| 17641  | 0155   | 180 | 18032  | 0367   | 185 | 18229  | 0308   | 183 | TLB165     | 0041   | 176 |
| 17642  | 0134   | 179 | 18033  | 0105   | 179 | 18229  | 0315   | 183 | TMB008     | 0854   | 202 |
| 17644  | 0155   | 180 | 18033  | 0308   | 183 | 18229  | 0367   | 185 | TMB009     | 0779   | 198 |
| 17644  | 0286   | 182 | 18033  | 0315   | 183 | 18230  | 0929   | 204 | TMB022     | 0837   | 201 |
| 17645  | 0155   | 180 | 18033  | 0648   | 194 | 18233  | 0638   | 193 | TMB042     | 0855   | 202 |
| 17646  | 0096   | 178 | 18035  | 0814   | 200 | 18236  | 0378   | 185 | TMB052     | 0866   | 202 |
| 17647  | 0096   | 178 | 18038  | 0188   | 181 | 18237  | 0105   | 179 | TMB066     | 0846   | 201 |
| 17647  | 0480   | 188 | 18038  | 1204   | 213 | 18237  | 0301   | 183 | TMB100     | 0150   | 180 |
| 17648  | 0286   | 182 | 18039  | 0035   | 233 | 18237  | 0308   | 183 | TMB101     | 0064   | 177 |
| 17648  | 0486   | 189 | 18053  | 0790   | 199 | 18237  | 0315   | 183 | TMB102     | 0286   | 182 |
| 17649  | 0150   | 180 | 18053  | 9527   | 235 | 18237  | 0367   | 185 | TMB103     | 0506   | 189 |
| 17649  | 0155   | 180 | 18054  | 0790   | 199 | 18250  | 0367   | 185 | TMB104     | 0322   | 184 |
| 17650  | 0150   | 180 | 18054  | 9527   | 235 | 18253  | 0087   | 233 | TMB105     | 0067   | 177 |
| 17651  | 0150   | 180 | 18056  | 0832   | 201 | 18254  | 0418   | 186 | TMB106     | 0615   | 192 |
| 17651  | 0155   | 180 | 18061  | 0790   | 199 | 18255  | 0781   | 199 | TMB108     | 0507   | 189 |
| 17652  | 0150   | 180 | 18061  | 9527   | 235 | 18257  | 0218   | 233 | TMB115     | 0096   | 178 |
| 17652  | 0155   | 180 | 18064  | 0376   | 185 | 18259  | 0118   | 179 | TMB116     | 0398   | 186 |
| 17653  | 0155   | 180 | 18064  | 0684   | 195 | 18259  | 0418   | 186 | TMB118     | 0485   | 189 |
| 17653  | 0486   | 189 | 18067  | 0792   | 199 | 18262  | 0286   | 182 | TMB120     | 0155   | 180 |
| 17654  | 0286   | 182 | 18092  | 0601   | 192 | 18262  | 0486   | 189 | TMB121     | 0486   | 189 |
| 17662  | 0450   | 187 | 18093  | 0601   | 192 | 18264  | 0480   | 188 | TMB124     | 0411   | 186 |
| 17664  | 0482   | 188 | 18097  | 0144   | 180 | 18272  | 0948   | 205 | TMB125     | 0134   | 179 |
| 17667  | 0787   | 199 | 18100  | 0894   | 203 | 18295  | 0785   | 199 | TMB130     | 0594   | 191 |
| 17670  | 0803   | 200 | 18110  | 0429   | 187 | 18298  | 0684   | 195 | TMB148     | 0480   | 188 |
| 17683  | 0712   | 196 | 18111  | 0105   | 179 | 18305  | 0536   | 190 | TMB150     | 0218   | 233 |
| 17685  | 0712   | 196 | 18111  | 0301   | 183 | 18305  | 1191   | 213 | TMB150     | 0449   | 187 |
| 17687  | 1211   | 214 | 18111  | 0308   | 183 | 18312  | 0737   | 196 | TMB156     | 0087   | 233 |
| 17698  | 0630   | 193 | 18111  | 0315   | 183 | 18322  | 0832   | 201 | TMB167     | 0823   | 200 |
| 17699  | 0482   | 188 | 18113  | 0218   | 233 | 18330  | 0749   | 197 | TMB171     | 0821   | 200 |
| 17715  | 1211   | 214 | 18117  | 0087   | 233 | 18416  | 0773   | 198 | TMB173     | 1475   | 216 |
| 17716  | 1211   | 214 | 18120  | 0447   | 187 | 18648  | 0749   | 197 | TMB174     | 0822   | 200 |
| 17774  | 1211   | 214 | 18121  | 0366   | 185 | 18928  | 0776   | 198 | TMB182     | 0820   | 200 |

| Lucas  | Nº ZEN | Pg. | Lucas    | Nº ZEN | Pg. | Lucas    | Nº ZEN | Pg. | Lucas               | Nº ZEN        | Pg.        |
|--------|--------|-----|----------|--------|-----|----------|--------|-----|---------------------|---------------|------------|
| TMB196 | 0863   | 202 | TNB407   | 0105   | 179 | 54246661 | 0064   | 177 | 54292929            | 0822          | 200        |
| TMB208 | 0796   | 199 | TNB408   | 0497   | 189 | 54246662 | 0286   | 182 | 54294813            | 0975          | 206        |
| TMB211 | 0189   | 181 | TNB439   | 0118   | 179 | 54246663 | 0506   | 189 | 54294922            | 0155          | 180        |
| TMB263 | 0287   | 182 | TNB445   | 0043   | 176 | 54246724 | 0322   | 184 | 60251022            | 0280          | 233        |
| TMB265 | 0574   | 191 | TNB460   | 0024   | 176 | 54246725 | 0067   | 177 | 60251022            | 0380          | 233        |
| TMB266 | 0570   | 191 | TNB461   | 0034   | 176 | 54246727 | 0615   | 192 | 60600024            | 0155          | 180        |
| TMB275 | 0647   | 194 | TNB463   | 0025   | 176 | 54246729 | 0507   | 189 | 60600038            | 0486          | 189        |
| TMB276 | 0657   | 194 | TNB674   | 0748   | 197 | 54246738 | 0096   | 178 | 60600050            | 0286          | 182        |
| TMB281 | 0775   | 198 | TWB235   | 0104   | 178 | 54246739 | 0398   | 186 | 60600066            | 0150          | 180        |
| TMB350 | 1192   | 213 | TWB240   | 0125   | 179 | 54246741 | 0485   | 189 | 60600077            | 0411          | 186        |
| TMB401 | 0163   | 180 | TWB245   | 0186   | 181 | 54246896 | 0096   | 178 | 60600078            | 0134          | 179        |
| TMB404 | 0221   | 181 | TWB246   | 0329   | 184 | 54246989 | 0322   | 184 | 60600210            | 0064          | 177        |
| TMB411 | 0323   | 184 | TWB247   | 0328   | 184 | 54247034 | 0155   | 180 | 66241474            | 0917          | 204        |
| TMB419 | 0046   | 177 | TWB251   | 0293   | 183 | 54247036 | 0155   | 180 | 66241583            | 0908          | 203        |
| TMB420 | 0080   | 178 | TWB254   | 0505   | 189 | 54247077 | 1188   | 212 | 66241709            | 0918          | 204        |
| TMB421 | 0068   | 178 | TWB2520  | 0294   | 183 | 54247179 | 0414   | 186 | 2WO911335           | 1092          | 210        |
| TMB427 | 0319   | 184 | 11123205 | 1613   | 219 | 54247181 | 1188   | 212 | 85540681010         | 1477          | 216        |
| TMB439 | 0229   | 182 | 26241018 | 1682   | 222 | 54247184 | 0398   | 186 | <b>Lucas Indiel</b> | <b>Nº ZEN</b> | <b>Pg.</b> |
| TMB448 | 0108   | 179 | 26241399 | 1707   | 224 | 54247187 | 0096   | 178 | 220198              | 0915          | 203        |
| TMB450 | 0361   | 185 | 26242815 | 1731   | 225 | 54247188 | 0064   | 177 | 220206              | 0826          | 201        |
| TMB454 | 0420   | 186 | 26245621 | 1716   | 224 | 54247389 | 0486   | 189 | 220210              | 1134          | 211        |
| TMB455 | 0482   | 188 | 26253081 | 1502   | 216 | 54247393 | 0480   | 188 | 220270              | 1133          | 211        |
| TMB471 | 0228   | 182 | 26253237 | 1526   | 217 | 54247396 | 0411   | 186 | 220310              | 0978          | 206        |
| TMB474 | 0639   | 193 | 26253621 | 1518   | 217 | 54247397 | 0134   | 179 | 220400              | 0624          | 193        |
| TMB475 | 0851   | 201 | 26256097 | 1516   | 216 | 54248606 | 0594   | 191 | 220401              | 0801          | 200        |
| TMB480 | 0108   | 179 | 26256287 | 1509   | 216 | 54249032 | 0412   | 186 | 220402              | 0825          | 201        |
| TMB482 | 0065   | 177 | 26256545 | 1504   | 216 | 54249035 | 0414   | 186 | 220406              | 1003          | 207        |
| TMB483 | 0111   | 179 | 26256675 | 1717   | 224 | 54249041 | 0412   | 186 | 220407              | 1023          | 208        |
| TMB484 | 0044   | 176 | 26257341 | 1615   | 219 | 54249043 | 0412   | 186 | 220408              | 1024          | 208        |
| TMB486 | 0191   | 181 | 35259278 | 1622   | 220 | 54252212 | 0170   | 233 | 220409              | 1031          | 208        |
| TMB487 | 0192   | 181 | 54240293 | 0280   | 233 | 54252215 | 0280   | 233 | 220414              | 1069          | 209        |
| TMB554 | 0475   | 188 | 54240293 | 0380   | 233 | 54252215 | 0380   | 233 | 220415              | 1070          | 209        |
| TMB566 | 0520   | 189 | 54240294 | 0280   | 233 | 54256984 | 0322   | 184 | 220416              | 1072          | 210        |
| TMB570 | 0482   | 188 | 54240294 | 0380   | 233 | 54257675 | 0506   | 189 | 220418              | 1109          | 211        |
| TMB584 | 0745   | 197 | 54240295 | 0280   | 233 | 54258190 | 0064   | 177 | 220419              | 1117          | 211        |
| TMB585 | 0799   | 199 | 54240295 | 0380   | 233 | 54259688 | 0067   | 177 | 220421              | 1153          | 211        |
| TMB620 | 0213   | 181 | 54240795 | 0064   | 177 | 54259800 | 0322   | 184 | 220423              | 1168          | 212        |
| TMM901 | 0786   | 199 | 54242044 | 0507   | 189 | 54261658 | 0280   | 233 | 220424              | 1169          | 212        |
| TMM990 | 0890   | 203 | 54242330 | 0280   | 233 | 54261658 | 0380   | 233 | 220425              | 1170          | 212        |
| TNB010 | 0729   | 196 | 54242330 | 0380   | 233 | 54262658 | 0412   | 186 | 220427              | 1194          | 213        |
| TNB044 | 0028   | 176 | 54243657 | 0412   | 186 | 54267004 | 0502   | 189 | 220434              | 1478          | 216        |
| TNB108 | 0155   | 180 | 54243741 | 0485   | 189 | 54267317 | 0449   | 187 | 220441              | 1561          | 218        |
| TNB137 | 1188   | 212 | 54243781 | 0286   | 182 | 54267478 | 0502   | 189 | 220443              | 1576          | 218        |
| TNB142 | 0412   | 186 | 54243783 | 0096   | 178 | 54268139 | 0480   | 188 | 220445              | 1597          | 219        |
| TNB145 | 0414   | 186 | 54243848 | 0064   | 177 | 54268140 | 0541   | 190 | 220625              | 0990          | 206        |
| TNB147 | 0412   | 186 | 54244389 | 0041   | 176 | 54268141 | 0155   | 180 | 221167              | 0823          | 200        |
| TNB149 | 0412   | 186 | 54244686 | 1188   | 212 | 54268142 | 0486   | 189 | 221192              | 0458          | 188        |
| TNB159 | 0502   | 189 | 54244938 | 0150   | 180 | 54268565 | 0557   | 190 | 221263              | 0287          | 182        |
| TNB165 | 0155   | 180 | 54245201 | 1188   | 212 | 54290474 | 0591   | 191 | 221291              | 0461          | 188        |
| TNB167 | 0541   | 190 | 54245341 | 1188   | 212 | 54290585 | 0480   | 188 | 221292              | 0656          | 194        |
| TNB169 | 0486   | 189 | 54246005 | 1188   | 212 | 54290840 | 0821   | 200 | 221293              | 0787          | 199        |
| TNB172 | 0557   | 190 | 54246252 | 0412   | 186 | 54291735 | 0820   | 200 | 221294              | 0747          | 197        |
| TNB173 | 0591   | 191 | 54246285 | 0150   | 180 | 54291911 | 0823   | 200 | 221411              | 0323          | 184        |
| TNB176 | 0960   | 205 | 54246340 | 0398   | 186 | 54292179 | 0960   | 205 | 221421              | 0068          | 178        |
| TNB402 | 0085   | 178 | 54246654 | 0150   | 180 | 54292464 | 0863   | 202 | 221480              | 0108          | 179        |

| Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. |
|--------------|--------|-----|--------------|--------|-----|--------------|--------|-----|--------------|--------|-----|
| 221482       | 0065   | 177 | 223153       | 0051   | 177 | 223296       | 0805   | 200 | 223900       | 0775   | 198 |
| 221483       | 0111   | 179 | 223164       | 0064   | 177 | 223297       | 0806   | 200 | 223908       | 0784   | 199 |
| 221484       | 0044   | 176 | 223165       | 0067   | 177 | 223299       | 1208   | 213 | 223918       | 0797   | 199 |
| 221486       | 0191   | 181 | 223176       | 0080   | 178 | 223302       | 0838   | 201 | 223919       | 0798   | 199 |
| 221487       | 0192   | 181 | 223181       | 0088   | 233 | 223305       | 0855   | 202 | 223920       | 0800   | 199 |
| 221491       | 0709   | 196 | 223185       | 0093   | 178 | 223307       | 0779   | 198 | 223926       | 0808   | 200 |
| 221493       | 0115   | 179 | 223187       | 0096   | 178 | 223311       | 0366   | 185 | 223927       | 0809   | 200 |
| 221601       | 0213   | 181 | 223188       | 0101   | 178 | 223312       | 0367   | 185 | 223960       | 0852   | 201 |
| 221710       | 0010   | 176 | 223190       | 0110   | 179 | 223313       | 0378   | 185 | 223965       | 0861   | 202 |
| 221711       | 0045   | 177 | 223191       | 0112   | 179 | 223315       | 0571   | 191 | 223976       | 0875   | 202 |
| 221830       | 0397   | 186 | 223192       | 0114   | 179 | 223317       | 0131   | 179 | 223979       | 0879   | 202 |
| 221831       | 0744   | 197 | 223193       | 0117   | 179 | 223320       | 0223   | 181 | 224000       | 0900   | 203 |
| 221832       | 0713   | 196 | 223197       | 0133   | 179 | 223321       | 0292   | 183 | 224006       | 0906   | 203 |
| 221833       | 0407   | 186 | 223199       | 0140   | 180 | 223322       | 0351   | 185 | 224035       | 0935   | 204 |
| 221901       | 0443   | 187 | 223201       | 0144   | 180 | 223329       | 0532   | 190 | 224036       | 0936   | 204 |
| 221902       | 0731   | 196 | 223204       | 0087   | 233 | 223332       | 0641   | 194 | 224037       | 0937   | 204 |
| 221903       | 0050   | 177 | 223205       | 0150   | 180 | 223333       | 0752   | 197 | 224038       | 0938   | 205 |
| 221904       | 0609   | 192 | 223211       | 0182   | 180 | 223409       | 0039   | 176 | 224062       | 0962   | 206 |
| 221905       | 0714   | 196 | 223212       | 0188   | 181 | 223464       | 0184   | 180 | 224072       | 0972   | 206 |
| 221911       | 0605   | 192 | 223222       | 0228   | 182 | 223467       | 0189   | 181 | 224075       | 0975   | 206 |
| 222402       | 0085   | 178 | 223223       | 0243   | 182 | 223481       | 0215   | 181 | 224076       | 0976   | 206 |
| 222407       | 0105   | 179 | 223224       | 0248   | 182 | 223482       | 0216   | 181 | 224078       | 0978   | 206 |
| 222419       | 0218   | 233 | 223226       | 0286   | 182 | 223486       | 0222   | 181 | 224090       | 0990   | 206 |
| 222421       | 0087   | 233 | 223227       | 0291   | 182 | 223505       | 0245   | 182 | 224091       | 0991   | 206 |
| 222422       | 0089   | 233 | 223228       | 0293   | 183 | 223555       | 0304   | 183 | 224097       | 0997   | 207 |
| 222439       | 0118   | 179 | 223231       | 0315   | 183 | 223561       | 0310   | 183 | 224098       | 0998   | 207 |
| 222460       | 0024   | 176 | 223232       | 0319   | 184 | 223569       | 0320   | 184 | 224099       | 0999   | 207 |
| 222461       | 0034   | 176 | 223235       | 0340   | 184 | 223573       | 0325   | 184 | 226660       | 1623   | 220 |
| 222463       | 0025   | 176 | 223236       | 0352   | 185 | 223585       | 0341   | 184 | 227326       | 0183   | 180 |
| 222495       | 0497   | 189 | 223237       | 0376   | 185 | 223602       | 0362   | 185 | 227327       | 0158   | 180 |
| 222501       | 0769   | 198 | 223240       | 0394   | 185 | 223605       | 0365   | 185 | 227330       | 0445   | 187 |
| 222503       | 0925   | 204 | 223241       | 0395   | 186 | 223644       | 0426   | 186 | 227331       | 0160   | 180 |
| 222514       | 0890   | 203 | 223244       | 0404   | 186 | 223657       | 0447   | 187 | 227332       | 0161   | 180 |
| 222525       | 0630   | 193 | 223249       | 0420   | 186 | 223659       | 0454   | 188 | 227336       | 0461   | 188 |
| 222901       | 0440   | 187 | 223250       | 0448   | 187 | 223664       | 0461   | 188 | 227336       | 0462   | 188 |
| 223101       | 0006   | 176 | 223252       | 0450   | 187 | 223709       | 0528   | 190 | 227339       | 0238   | 182 |
| 223102       | 0020   | 176 | 223254       | 0453   | 188 | 223745       | 0570   | 191 | 227344       | 0463   | 188 |
| 223103       | 0028   | 176 | 223256       | 0460   | 188 | 223746       | 0572   | 191 | 227632       | 0120   | 179 |
| 223104       | 0035   | 233 | 223259       | 0475   | 188 | 223747       | 0573   | 191 | 227783       | 0467   | 188 |
| 223105       | 0036   | 233 | 223261       | 0482   | 188 | 223751       | 0580   | 191 | 227785       | 0468   | 188 |
| 223111       | 0097   | 178 | 223262       | 0486   | 189 | 223755       | 0584   | 191 | 227796       | 0740   | 197 |
| 223117       | 0348   | 184 | 223265       | 0496   | 189 | 223763       | 0594   | 191 | 227799       | 0742   | 197 |
| 223119       | 0520   | 189 | 223266       | 0502   | 189 | 223764       | 0595   | 192 | 227814       | 0102   | 178 |
| 223120       | 0575   | 191 | 223270       | 0533   | 190 | 223766       | 0597   | 192 | 227816       | 0492   | 189 |
| 223121       | 0729   | 196 | 223271       | 0540   | 190 | 223782       | 0619   | 193 | 227911       | 0771   | 198 |
| 223122       | 0745   | 197 | 223274       | 0579   | 191 | 223787       | 0629   | 193 | 227951       | 0741   | 197 |
| 223124       | 0786   | 199 | 223277       | 0603   | 192 | 223788       | 0632   | 193 | 227965       | 0743   | 197 |
| 223125       | 0799   | 199 | 223278       | 0610   | 192 | 223789       | 0633   | 193 | 228042       | 0389   | 185 |
| 223126       | 0837   | 201 | 223279       | 0612   | 192 | 223790       | 0634   | 193 | 228099       | 0441   | 187 |
| 223127       | 0846   | 201 | 223285       | 0631   | 193 | 223791       | 0635   | 193 | 228131       | 0162   | 180 |
| 223128       | 0866   | 202 | 223290       | 0720   | 196 | 223792       | 0636   | 193 | 228133       | 0467   | 188 |
| 223137       | 0013   | 176 | 223291       | 0732   | 196 | 223795       | 0639   | 193 | 228134       | 0469   | 188 |
| 223138       | 0015   | 176 | 223293       | 0748   | 197 | 223801       | 0646   | 194 | 228135       | 0740   | 197 |
| 223140       | 0022   | 176 | 223294       | 0770   | 198 | 223808       | 0657   | 194 | 228136       | 0742   | 197 |
| 223145       | 0032   | 233 | 223295       | 0796   | 199 | 223854       | 0706   | 196 | 228137       | 0741   | 197 |

| Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel          | Nº ZEN        | Pg.        | Mitsubishi  | Nº ZEN | Pg. |
|--------------|--------|-----|--------------|--------|-----|-----------------------|---------------|------------|-------------|--------|-----|
| 228138       | 0743   | 197 | 35257952     | 0741   | 197 | 58351424              | 0158          | 180        | K309        | 0340   | 184 |
| 228139       | 0468   | 188 | 35257963     | 0743   | 197 | <b>Lucas TVS</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | K320        | 0144   | 180 |
| 228141       | 0155   | 180 | 35258131     | 0162   | 180 | 26242763              | 1799          | 228        | 12071       | 0595   | 192 |
| 228204       | 0438   | 187 | 35258133     | 0467   | 188 | 26247643              | 1854          | 230        | 12471       | 0595   | 192 |
| 228205       | 0439   | 187 | 35258135     | 0740   | 197 | <b>Magneton</b>       | <b>Nº ZEN</b> | <b>Pg.</b> | 15171       | 1680   | 222 |
| 228229       | 0753   | 197 | 35258136     | 0742   | 197 | 443937150860          | 0892          | 203        | 15471       | 1764   | 226 |
| 228266       | 0772   | 198 | 35258137     | 0741   | 197 | <b>Mahindra</b>       | <b>Nº ZEN</b> | <b>Pg.</b> | 15871       | 1706   | 224 |
| 228368       | 0762   | 198 | 35258138     | 0743   | 197 | 4001115632A           | 1615          | 219        | 16171       | 0600   | 192 |
| 228384       | 0762   | 198 | 35258139     | 0468   | 188 | <b>Man</b>            | <b>Nº ZEN</b> | <b>Pg.</b> | 19971       | 1764   | 226 |
| 228396       | 0860   | 202 | 35258229     | 0753   | 197 | 51262090008           | 12839         | 236        | 40571       | 1876   | 231 |
| 229023       | 1635   | 220 | 35258266     | 0772   | 198 | <b>Mazda</b>          | <b>Nº ZEN</b> | <b>Pg.</b> | 68971       | 1063   | 209 |
| 229027       | 0978   | 206 | 35258384     | 0762   | 198 | 022224722             | 0144          | 180        | 75571       | 1047   | 209 |
| 229033       | 0991   | 206 | 35258393     | 0469   | 188 | 029024830             | 0184          | 180        | 93971       | 1063   | 209 |
| 229278       | 1622   | 220 | 35258396     | 0860   | 202 | 060423710             | 0341          | 184        | MD02052     | 0144   | 180 |
| 229697       | 1726   | 225 | 35259027     | 0978   | 206 | 134624709             | 0341          | 184        | MD312858    | 1024   | 208 |
| 229773       | 1091   | 210 | 35259033     | 0991   | 206 | 175723709             | 0144          | 180        | MD600679    | 0144   | 180 |
| 229873       | 1090   | 210 | 35259037     | 0983   | 206 | 489324722             | 0426          | 186        | MD602052    | 0144   | 180 |
| 229902       | 1636   | 220 | 35259278     | 1622   | 220 | 808824722             | 0352          | 185        | MD602059    | 0327   | 184 |
| 229912       | 1637   | 221 | 35259697     | 1726   | 225 | 859924740             | 0957          | 205        | MD602678    | 0144   | 180 |
| 229916       | 1602   | 219 | 35259873     | 1090   | 210 | 859924740             | 12658         | 236        | MD602678    | 0327   | 184 |
| 229938       | 1596   | 219 | 35259902     | 1636   | 220 | 859924740             | 12659         | 236        | MD602679    | 0144   | 180 |
| 229979       | 0932   | 204 | 35259916     | 1602   | 219 | AM1518X25             | 0595          | 192        | MD604047    | 0184   | 180 |
| 229983       | 1026   | 208 | 35259938     | 1596   | 219 | B30118400             | 0636          | 193        | MD604047    | 0341   | 184 |
| 229984       | 1027   | 208 | 35259978     | 1651   | 221 | B30118X45             | 0636          | 193        | MD604048    | 0184   | 180 |
| 229985       | 0942   | 205 | 35260198     | 0915   | 203 | B63018X45             | 0450          | 187        | MD604080    | 0184   | 180 |
| 229988       | 0836   | 201 | 35260202     | 0915   | 203 | E35618X45             | 0450          | 187        | MD607283    | 0352   | 185 |
| 229989       | 0965   | 206 | 35260206     | 0826   | 201 | F21418X25             | 0596          | 192        | MD607540    | 1043   | 208 |
| K01554       | 1647   | 221 | 35260280     | 0916   | 204 | H83318X45             | 0352          | 185        | MD607789    | 12812  | 236 |
| 1018679      | 0183   | 180 | 35260290     | 0945   | 205 | F8RU88D004            | 1646          | 221        | MD607791    | 1047   | 209 |
| 4A54440      | 0161   | 180 | 35260310     | 0978   | 206 | <b>Mercedes Benz</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | MD607894    | 0450   | 187 |
| 32557814     | 0102   | 178 | 35260500     | 0991   | 206 | 0001515813            | 0221          | 181        | MD608273    | 0352   | 185 |
| 35255553     | 0244   | 182 | 35260590     | 0983   | 206 | 0001516513            | 1111          | 233        | MD611211    | 0595   | 192 |
| 35255870     | 0102   | 178 | 35260625     | 0990   | 206 | 0001517013            | 0105          | 179        | MD611372    | 0450   | 187 |
| 35256654     | 0441   | 187 | 35260810     | 0978   | 206 | 0001517013            | 1364          | 215        | MD618963    | 1024   | 208 |
| 35256777     | 0238   | 182 | 35260832     | 1595   | 219 | 0001517913            | 1180          | 212        | MD619204    | 1567   | 218 |
| 35256861     | 0102   | 178 | 35260838     | 1648   | 221 | 0001519701            | 1180          | 212        | MD620980    | 1839   | 230 |
| 35257090     | 0162   | 180 | 35260875     | 1523   | 217 | 0001519713            | 1180          | 212        | ME700121    | 0957   | 205 |
| 35257326     | 0244   | 182 | 35260932     | 1092   | 210 | 0011511813            | 1038          | 208        | ME700121    | 12658  | 236 |
| 35257330     | 0445   | 187 | 35260958     | 1604   | 219 | 0011512113            | 1485          | 216        | ME700121    | 12659  | 236 |
| 35257331     | 0160   | 180 | 35260967     | 1684   | 222 | 0011513213            | 1038          | 208        | ME700972    | 1046   | 208 |
| 35257332     | 0161   | 180 | 35260975     | 1621   | 220 | 3431517113            | 0025          | 176        | ME701487    | 0887   | 202 |
| 35257336     | 0462   | 188 | 35260999     | 1623   | 220 | 3431517113            | 0034          | 176        | ME701648    | 0887   | 202 |
| 35257340     | 0162   | 180 | 35261112     | 1617   | 220 | A0001516513           | 1111          | 233        | ME701651    | 0887   | 202 |
| 35257521     | 0467   | 188 | 35261134     | 1603   | 219 | <b>Mercury Marine</b> | <b>Nº ZEN</b> | <b>Pg.</b> | MM502529    | 9426   | 234 |
| 35257525     | 0468   | 188 | 35261299     | 1596   | 219 | 685753                | 1673          | 222        | MM502531    | 1043   | 208 |
| 35257650     | 0469   | 188 | 35261302     | 1091   | 210 | <b>Mitsuba</b>        | <b>Nº ZEN</b> | <b>Pg.</b> | MD6020599   | 0144   | 180 |
| 35257707     | 0459   | 188 | 35261303     | 1092   | 210 | SM13                  | 0751          | 197        | N31818X25   | 1702   | 223 |
| 35257783     | 0467   | 188 | 35261527     | 1603   | 219 | 5485502               | 1849          | 230        | 23314T9000  | 0957   | 205 |
| 35257798     | 0740   | 197 | 35261625     | 1719   | 224 | SH07118               | 1849          | 230        | 23314T9000  | 12658  | 236 |
| 35257802     | 0742   | 197 | 35261899     | 1785   | 227 | M191X68785            | 1563          | 218        | 23314T9000  | 12659  | 236 |
| 35257814     | 0102   | 178 | 35261976     | 1713   | 224 | 31204PD1003           | 0815          | 200        | MD001T73283 | 0595   | 192 |
| 35257816     | 0492   | 189 | 35262227     | 0916   | 204 | <b>Mitsubishi</b>     | <b>Nº ZEN</b> | <b>Pg.</b> | M191T12070  | 0595   | 192 |
| 35257820     | 0441   | 187 | 35262929     | 1617   | 220 | 1X18                  | 1771          | 227        | M191T12071  | 0595   | 192 |
| 35257824     | 0868   | 202 | 4A504187     | 0160   | 180 | 6Z12                  | 1876          | 231        | M191T12171  | 0596   | 192 |
| 35257911     | 0771   | 198 | 54291022     | 1475   | 216 | K300                  | 0144          | 180        | M191T12271  | 0597   | 192 |

| Mitsubishi | Nº ZEN | Pg. | Mitsubishi        | Nº ZEN        | Pg.        | MYR                | Nº ZEN        | Pg.        | Nippondenso | Nº ZEN | Pg. |
|------------|--------|-----|-------------------|---------------|------------|--------------------|---------------|------------|-------------|--------|-----|
| M191T12272 | 0597   | 192 | M191T93971        | 1063          | 209        | 0110               | 12683         | 240        | 283000010   | 1201   | 213 |
| M191T12471 | 0595   | 192 | M191T94071        | 1661          | 221        | 0128               | 12690         | 240        | 0283000660  | 0140   | 180 |
| M191T12571 | 0711   | 196 | M191T96571        | 1807          | 228        | 0141               | 12675         | 240        | 0283000800  | 0327   | 184 |
| M191T12671 | 0679   | 195 | M191X15871        | 1706          | 224        | 0144               | 12684         | 240        | 0283000801  | 0327   | 184 |
| M191T12871 | 0617   | 192 | M191X16371        | 1702          | 223        | 0146               | 12687         | 240        | 0283000830  | 0341   | 184 |
| M191T12971 | 1592   | 218 | M191X16771        | 1018          | 207        | 0147               | 12682         | 240        | 0283000831  | 0341   | 184 |
| M191T13271 | 0596   | 192 | M191X16971        | 1018          | 207        | 0149               | 12686         | 240        | 0283000851  | 0184   | 180 |
| M191T13471 | 0712   | 196 | M191X19971        | 1764          | 226        | 1015               | 12685         | 240        | 0283000891  | 0549   | 190 |
| M191T13571 | 0758   | 197 | M191X243BT        | 1801          | 228        | 1019               | 12681         | 240        | 0283000901  | 0140   | 180 |
| M191T13671 | 0806   | 200 | M191X67571        | 0887          | 202        | 1037               | 12689         | 240        | 0283000911  | 0140   | 180 |
| M191T14271 | 0801   | 200 | M191X67585        | 0887          | 202        | 7056               | 12693         | 240        | 0283001020  | 0184   | 180 |
| M191T14371 | 0825   | 201 | M191X67685        | 0887          | 202        | 7080               | 12694         | 241        | 0283001280  | 0434   | 187 |
| M191T14671 | 0806   | 200 | M191X67771        | 0887          | 202        | 7147               | 12695         | 241        | 0283001390  | 0343   | 184 |
| M191T15071 | 1024   | 208 | M191X67871        | 0887          | 202        | <b>Nashville</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | 0283001540  | 0184   | 180 |
| M191T15171 | 1680   | 222 | M191X67885        | 0887          | 202        | 4520100            | 0439          | 187        | 0283001542  | 0184   | 180 |
| M191T15271 | 0825   | 201 | M191X68071        | 1024          | 208        | 45210100           | 0438          | 187        | 0283001600  | 0947   | 205 |
| M191T15871 | 1706   | 224 | M191X68171        | 1563          | 218        | <b>Nikko</b>       | <b>Nº ZEN</b> | <b>Pg.</b> | 0283001600  | 1722   | 224 |
| M191T16171 | 0600   | 192 | M191X68271        | 0887          | 202        | 0230001030         | 0894          | 203        | 0283001601  | 0947   | 205 |
| M191T16771 | 1018   | 207 | M191X68471        | 1567          | 218        | 0230001031         | 0894          | 203        | 0283001601  | 1722   | 224 |
| M191T16971 | 1018   | 207 | M191X68671        | 0887          | 202        | 0230001050         | 0894          | 203        | 0283001602  | 0947   | 205 |
| M191T18271 | 0806   | 200 | M191X93571        | 0887          | 202        | 0230001070         | 0894          | 203        | 0283001602  | 1722   | 224 |
| M191T19071 | 1538   | 217 | M357T70171        | 1043          | 208        | 0230001071         | 0894          | 203        | 0283001603  | 0947   | 205 |
| M191T19271 | 1774   | 227 | M357T70771        | 1043          | 208        | 0230001080         | 0894          | 203        | 0283001603  | 1722   | 224 |
| M191T22071 | 0450   | 187 | M357T71671        | 12658         | 236        | 0235000350         | 0895          | 203        | 0283001603  | 9186   | 234 |
| M191T22271 | 0584   | 191 | M357T71671        | 12659         | 236        | 0235000353         | 0895          | 203        | 0283001660  | 0434   | 187 |
| M191T22371 | 0450   | 187 | M357T72671        | 1046          | 208        | 1235000010         | 0894          | 203        | 0283001690  | 0327   | 184 |
| M191T22471 | 0836   | 201 | M357T72672        | 1046          | 208        | <b>Nippon</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | 0283001780  | 0607   | 192 |
| M191T22571 | 0853   | 202 | M357T73171        | 0957          | 205        | 0280906580         | 1555          | 217        | 0283001790  | 0947   | 205 |
| M191T22771 | 0450   | 187 | M357T73571        | 1853          | 230        | 0280996580         | 1555          | 217        | 0283001790  | 1722   | 224 |
| M191T22871 | 0584   | 191 | M357T75571        | 1047          | 209        | 0283007610         | 1863          | 231        | 0283001791  | 0947   | 205 |
| M191T22971 | 0450   | 187 | M357T76171        | 0957          | 205        | 0283007670         | 1864          | 231        | 0283001791  | 1722   | 224 |
| M191T23071 | 0450   | 187 | M357T76171        | 12658         | 236        | 0283007680         | 1863          | 231        | 0283001800  | 0947   | 205 |
| M191T23171 | 0584   | 191 | M357T76171        | 12659         | 236        | 0283007860         | 1863          | 231        | 0283001800  | 1722   | 224 |
| M191T23371 | 1727   | 225 | M357T77371        | 0957          | 205        | 0283008100         | 1863          | 231        | 0283001811  | 9349   | 234 |
| M191T23471 | 0450   | 187 | M357X72672        | 1046          | 208        | <b>Nippondenso</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 0283001840  | 0946   | 205 |
| M191T26171 | 0519   | 189 | M357X73571        | 1853          | 230        | 028300085          | 0327          | 184        | 0283001841  | 0946   | 205 |
| M191T26771 | 0636   | 193 | M357X85273        | 1046          | 208        | 0283000800         | 0327          | 184        | 0283001841  | 9260   | 234 |
| M191T30171 | 0144   | 180 | M605X23471        | 9426          | 234        | 0280906580         | 1211          | 214        | 0283001842  | 0946   | 205 |
| M191T30971 | 0144   | 180 | M605X25771        | 9426          | 234        | 0280992700         | 0921          | 204        | 0283001860  | 0813   | 200 |
| M191T30972 | 0144   | 180 | M605X26971        | 9791          | 235        | 0280993088         | 9186          | 234        | 0283001870  | 0342   | 184 |
| M191T30973 | 0144   | 180 | M605X27971        | 12660         | 236        | 0280993090         | 9186          | 234        | 0283001930  | 0339   | 184 |
| M191T30974 | 0352   | 185 | M605X31971        | 0957          | 205        | 0280993210         | 9403          | 234        | 0283001951  | 0140   | 180 |
| M191T31071 | 0426   | 186 | M605X31971        | 12658         | 236        | 0280993230         | 9302          | 234        | 0283002000  | 0947   | 205 |
| M191T32271 | 0427   | 186 | M605X31971        | 12659         | 236        | 0280993270         | 9402          | 234        | 0283002000  | 1722   | 224 |
| M191T33071 | 0144   | 180 | M605X32471        | 9426          | 234        | 0280993310         | 9301          | 234        | 0283002011  | 9301   | 234 |
| M191T33371 | 0352   | 185 | M605X34971        | 9495          | 234        | 0280993380         | 9307          | 234        | 0283002100  | 0545   | 190 |
| M191T34071 | 0352   | 185 | M605X36171        | 12660         | 236        | 0280993400         | 9260          | 234        | 0283002110  | 0947   | 205 |
| M191T35171 | 0352   | 185 | M605X64571        | 12657         | 236        | 0280993910         | 9678          | 235        | 0283002110  | 1722   | 224 |
| M191T35271 | 0426   | 186 | M605X65171        | 12812         | 236        | 0280995590         | 12609         | 236        | 0283002111  | 0947   | 205 |
| M191T65571 | 0670   | 195 | M191T602052       | 0144          | 180        | 0280996200         | 9459          | 234        | 0283002111  | 1722   | 224 |
| M191T66271 | 0669   | 194 | M191T602059       | 0144          | 180        | 0280996260         | 9307          | 234        | 0283002270  | 0947   | 205 |
| M191T68071 | 1024   | 208 | M357T707971       | 1043          | 208        | 0280996300         | 9307          | 234        | 0283002270  | 1722   | 224 |
| M191T68771 | 1563   | 218 | M001T74281ZC      | 0825          | 201        | 0280996310         | 9349          | 234        | 0283003320  | 0341   | 184 |
| M191T76081 | 0801   | 200 | <b>Motorcraft</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 0280996550         | 12609         | 236        | 0283003321  | 0341   | 184 |
| M191T90271 | 1808   | 228 | SDE354            | 1019          | 207        | 0280996580         | 1211          | 214        | 0283003350  | 0140   | 180 |

| Nippondenso | Nº ZEN | Pg. | Nippondenso   | Nº ZEN        | Pg.        | Nissan             | Nº ZEN        | Pg.        | Paris Rhone       | Nº ZEN        | Pg.        |
|-------------|--------|-----|---------------|---------------|------------|--------------------|---------------|------------|-------------------|---------------|------------|
| 0283003490  | 0339   | 184 | 2801113060    | 0841          | 201        | 23312M1501         | 0382          | 185        | 078862            | 0189          | 181        |
| 0283003570  | 0498   | 189 | 2801154070    | 1215          | 214        | 23312M4901         | 0737          | 196        | 092079            | 0189          | 181        |
| 0283003571  | 0498   | 189 | 2801174070    | 1211          | 214        | 23312M4902         | 0791          | 199        | 093297            | 0189          | 181        |
| 0283003590  | 0343   | 184 | 280210N080    | 1816          | 229        | 23312M8000         | 0517          | 189        | 093623            | 0248          | 182        |
| 0283003630  | 0947   | 205 | 2810054310    | 0921          | 204        | 23312M8101         | 0554          | 190        | 95464             | 0285          | 182        |
| 0283003630  | 1722   | 224 | <b>Nissan</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 23312N0900         | 0141          | 180        | 95956             | 0216          | 181        |
| 0283003631  | 0947   | 205 | 4169960       | 0608          | 192        | 23312N3300         | 0351          | 185        | 95990             | 0215          | 181        |
| 0283003631  | 1722   | 224 | 4226442       | 0608          | 192        | 23312N5900         | 0737          | 196        | 096118            | 0189          | 181        |
| 0283003690  | 9402   | 234 | 4474695       | 0608          | 192        | 23312N5903         | 0737          | 196        | 097062            | 0248          | 182        |
| 0283003880  | 0686   | 195 | 4475032       | 0608          | 192        | 23312T9000         | 0901          | 203        | 97584             | 0463          | 188        |
| 0283004011  | 1097   | 210 | 212025001     | 0448          | 187        | 23312T9003         | 0901          | 203        | 99738             | 0571          | 191        |
| 0283004081  | 1097   | 210 | 212045002     | 0448          | 187        | 23312U6000         | 0351          | 185        | 99931             | 0287          | 182        |
| 0283004082  | 1097   | 210 | 233120990     | 0141          | 180        | 23312V0601         | 0448          | 187        | 99931             | 1187          | 212        |
| 0283004160  | 0947   | 205 | 233542L70     | 0595          | 192        | 23312V5301         | 0737          | 196        | 103066            | 0117          | 179        |
| 0283004160  | 1722   | 224 | 2354V0700     | 0790          | 199        | 23312V5302         | 0737          | 196        | 103611            | 0570          | 191        |
| 283004320   | 0765   | 198 | 23300H6000    | 0349          | 185        | 23312V6000         | 0351          | 185        | 103624            | 0530          | 190        |
| 0283004390  | 0576   | 191 | 2331210600    | 0141          | 180        | 23312Y0511         | 0352          | 185        | 103790            | 0463          | 188        |
| 0283004410  | 0498   | 189 | 2331210605    | 0141          | 180        | 23312Y0700         | 0351          | 185        | 105325            | 0461          | 188        |
| 0283005400  | 0841   | 201 | 2331210G00    | 0790          | 199        | 23314Z9002         | 0901          | 203        | 105538            | 0656          | 194        |
| 0283005430  | 10049  | 236 | 2331211M00    | 0790          | 199        | 233540B710         | 1019          | 207        | 105540            | 0646          | 194        |
| 0283005450  | 9402   | 234 | 233121E400    | 1021          | 208        | 2335411M00         | 1200          | 213        | 106140            | 0574          | 191        |
| 0283005720  | 0950   | 205 | 2331221000    | 0141          | 180        | 2335416E01         | 1207          | 213        | 180826            | 0647          | 194        |
| 0283005800  | 0951   | 205 | 2331221005    | 0141          | 180        | 2335420R10         | 0596          | 192        | 180827            | 0961          | 206        |
| 283005820   | 0830   | 201 | 2331231U00    | 1016          | 207        | 2335430R10         | 0679          | 195        | 181068            | 0657          | 194        |
| 0283005850  | 0576   | 191 | 2331231U01    | 1017          | 207        | 2335442L10         | 0450          | 187        | 182412            | 0775          | 198        |
| 0283006000  | 0773   | 198 | 2331236A00    | 0793          | 199        | 2335442L11         | 0450          | 187        | 183917            | 0574          | 191        |
| 0283006070  | 0809   | 200 | 2331237502    | 0448          | 187        | 2335442L70         | 0595          | 192        | 184448            | 0775          | 198        |
| 0283006190  | 9349   | 234 | 2331237504    | 0448          | 187        | 2335453J11         | 0711          | 196        | 184530            | 0961          | 206        |
| 283006680   | 0808   | 200 | 2331242670    | 0595          | 192        | 23354N5912         | 1043          | 208        | 185182            | 0656          | 194        |
| 283006860   | 0750   | 197 | 2331242L60    | 0634          | 193        | 23354T5000         | 0853          | 202        | 186020            | 0747          | 197        |
| 0283006940  | 0947   | 205 | 2331243601    | 0141          | 180        | 23354V0700         | 0790          | 199        | 594029            | 0775          | 198        |
| 0283006940  | 1722   | 224 | 2331243G00    | 1862          | 231        | 2335704E10         | 0595          | 192        | 594031            | 0775          | 198        |
| 0283006960  | 0809   | 200 | 2331250Y01    | 1020          | 207        | 2335720H12         | 9495          | 234        | <b>Polaris</b>    | <b>Nº ZEN</b> | <b>Pg.</b> |
| 0283006990  | 0818   | 200 | 2331276201    | 0448          | 187        | 23357M4901         | 9528          | 235        | 3084981           | 0751          | 197        |
| 0283007160  | 1213   | 214 | 2331290J00    | 0863          | 202        | 23357N5900         | 9488          | 234        | 3240120           | 0749          | 197        |
| 0283007170  | 0818   | 200 | 2331293J00    | 1062          | 209        | 23357W1011         | 9426          | 234        | 4060119           | 0749          | 197        |
| 283007270   | 0816   | 200 | 23312AA000    | 0600          | 192        | 23357W1700         | 9527          | 235        | <b>Porsche</b>    | <b>Nº ZEN</b> | <b>Pg.</b> |
| 0283007530  | 0948   | 205 | 23312AA050    | 1018          | 207        | 23312M15001        | 0382          | 185        | 21301502          | 0790          | 199        |
| 0283007710  | 0773   | 198 | 23312C0600    | 0429          | 187        | 233312KA050        | 0517          | 189        | 213065001         | 0790          | 199        |
| 0283007711  | 0773   | 198 | 23312D0100    | 0499          | 189        | 233312V0601        | 0448          | 187        | 213075004         | 0790          | 199        |
| 283007720   | 0817   | 200 | 23312E3000    | 0141          | 180        | <b>OMC</b>         | <b>Nº ZEN</b> | <b>Pg.</b> | 2331211M00        | 0790          | 199        |
| 0283007910  | 1213   | 214 | 23312E3010    | 0144          | 180        | 385949             | 1673          | 222        | 23354V0700        | 0790          | 199        |
| 0283007990  | 0818   | 200 | 23312E3300    | 0141          | 180        | <b>Onan</b>        | <b>Nº ZEN</b> | <b>Pg.</b> | 21013708620       | 0213          | 181        |
| 0283008100  | 10049  | 236 | 23312E6000    | 0141          | 180        | 1911087            | 0427          | 186        | CT2213708600      | 0213          | 181        |
| 0283008550  | 10049  | 236 | 23312E6700    | 0349          | 185        | 1911443            | 12660         | 236        | <b>Prestolite</b> | <b>Nº ZEN</b> | <b>Pg.</b> |
| 0283008600  | 10049  | 236 | 23312E6800    | 0351          | 185        | 1911953            | 0943          | 205        | PD71              | 0117          | 179        |
| 0283008870  | 1734   | 225 | 23312E6801    | 0351          | 185        | <b>Pal</b>         | <b>Nº ZEN</b> | <b>Pg.</b> | PD8A              | 0188          | 181        |
| 0283009541  | 1841   | 230 | 23312H5000    | 0349          | 185        | 932208             | 0902          | 203        | 59225             | 0879          | 202        |
| 0283010020  | 1211   | 214 | 23312H5001    | 0349          | 185        | 443937150171       | 0831          | 201        | KJD08             | 12686         | 240        |
| 0283010060  | 1212   | 214 | 23312H6700    | 0349          | 185        | <b>Paris Rhone</b> | <b>Nº ZEN</b> | <b>Pg.</b> | KJD09             | 12686         | 240        |
| 0283711980  | 12609  | 236 | 23312H6900    | 0349          | 185        | 013610             | 0287          | 182        | KJD20             | 12684         | 240        |
| 0283715730  | 9678   | 235 | 23312H9100    | 0737          | 196        | 54457              | 0458          | 188        | KJD21             | 12684         | 240        |
| 0283716190  | 12609  | 236 | 23312J2003    | 0580          | 191        | 55105              | 0217          | 181        | PD13A             | 0879          | 202        |
| 0283716490  | 9506   | 235 | 23312KA050    | 0517          | 189        | 70672              | 0217          | 181        | 226660            | 1623          | 220        |
| 0283717060  | 9678   | 235 | 23312M1500    | 0382          | 185        | 076980             | 0248          | 182        | 229278            | 1622          | 220        |

| Prestolite     | Nº ZEN        | Pg.        | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. |
|----------------|---------------|------------|---------|--------|-----|---------|--------|-----|---------|--------|-----|
| 229912         | 1637          | 221        | D2023   | 1216   | 233 | 1876857 | 0093   | 178 | 1932605 | 0117   | 179 |
| K01212         | 12692         | 240        | D2024   | 0093   | 178 | 1876857 | 0568   | 191 | 1932890 | 0051   | 177 |
| K01219         | 12687         | 240        | D2024   | 0568   | 191 | 1877333 | 0566   | 191 | 1932890 | 0566   | 191 |
| K01221         | 12675         | 240        | D2025   | 0093   | 178 | 1877345 | 0112   | 179 | 1933214 | 0032   | 233 |
| K01222         | 12684         | 240        | D2025   | 0568   | 191 | 1877350 | 0381   | 185 | 1933404 | 0930   | 204 |
| K01261         | 12684         | 240        | D2026   | 0566   | 191 | 1877353 | 0051   | 177 | 1933471 | 0093   | 178 |
| K01265         | 12695         | 241        | D2028   | 0013   | 176 | 1877353 | 0566   | 191 | 1933471 | 0568   | 191 |
| K01284         | 12675         | 240        | D2032   | 0433   | 187 | 1877354 | 0051   | 177 | 1933838 | 0381   | 185 |
| K01343         | 12688         | 240        | D2032   | 1189   | 212 | 1877355 | 0093   | 178 | 1934488 | 0051   | 177 |
| K01349         | 12684         | 240        | D2036   | 0567   | 191 | 1877355 | 0568   | 191 | 1935487 | 0110   | 179 |
| K01469         | 12684         | 240        | D2037   | 0112   | 179 | 1878079 | 1216   | 233 | 1935827 | 0020   | 176 |
| K01555         | 1837          | 230        | D2042   | 0093   | 178 | 1881636 | 1216   | 233 | 1935829 | 0020   | 176 |
| K21147         | 12682         | 240        | D2042   | 0568   | 191 | 1883768 | 0032   | 233 | 1935992 | 0052   | 177 |
| K21148         | 12684         | 240        | D2043   | 0566   | 191 | 1887463 | 1216   | 233 | 1936647 | 0097   | 178 |
| 35258669       | 12682         | 240        | D2047   | 0610   | 192 | 1889129 | 0054   | 177 | 1937554 | 0977   | 206 |
| 35258853       | 12686         | 240        | D2048   | 0611   | 192 | 1892899 | 0052   | 177 | 1938065 | 0135   | 180 |
| 35259278       | 1622          | 220        | D2049   | 0020   | 176 | 1892899 | 0567   | 191 | 1938637 | 1216   | 233 |
| 35259465       | 12684         | 240        | D2050   | 0612   | 192 | 1893560 | 0097   | 178 | 1938976 | 0032   | 233 |
| 35259859       | 12687         | 240        | D2054   | 1195   | 213 | 1893561 | 0914   | 203 | 1939178 | 0032   | 233 |
| 35259915       | 12688         | 240        | D2107   | 0051   | 177 | 1893562 | 0182   | 180 | 1939444 | 0050   | 177 |
| 35259952       | 12675         | 240        | D4123   | 0051   | 177 | 1894211 | 0110   | 179 | 1939506 | 0013   | 176 |
| 35259959       | 12692         | 240        | F2003   | 0205   | 181 | 1894212 | 0626   | 193 | 1940134 | 0051   | 177 |
| 35260975       | 1621          | 220        | F2004   | 0053   | 177 | 1894213 | 0097   | 178 | 1940138 | 0051   | 177 |
| 35260999       | 1623          | 220        | S5894   | 0454   | 188 | 1894214 | 0182   | 180 | 1941119 | 0093   | 178 |
| 35261035       | 0945          | 205        | 113218  | 1880   | 232 | 1894216 | 0182   | 180 | 1941119 | 0568   | 191 |
| 35261303       | 1092          | 210        | 0800026 | 0052   | 177 | 1894220 | 0556   | 190 | 1941157 | 0093   | 178 |
| 35261543       | 1647          | 221        | 0800069 | 0182   | 180 | 1894221 | 0555   | 190 | 1941157 | 0568   | 191 |
| 35262268       | 1784          | 227        | 0800071 | 0182   | 180 | 1904170 | 1216   | 233 | 1942950 | 0093   | 178 |
| DRA3002D       | 0767          | 198        | 800965  | 0381   | 185 | 1909204 | 1216   | 233 | 1942950 | 0568   | 191 |
| M93R3001SE     | 1881          | 232        | 830620  | 0110   | 179 | 1909514 | 0188   | 181 | 1945487 | 0110   | 179 |
| <b>Raisman</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 830621  | 0626   | 193 | 1912766 | 1216   | 233 | 1945842 | 0020   | 176 |
| MM90200        | 1672          | 222        | 830622  | 1190   | 212 | 1913587 | 1216   | 233 | 1945879 | 0626   | 193 |
| OM90050        | 1656          | 221        | A43652  | 0112   | 179 | 1913589 | 1216   | 233 | 1946174 | 0556   | 190 |
| OM90070        | 1668          | 222        | DR2000  | 0243   | 182 | 1914341 | 0117   | 179 | 1946220 | 0052   | 177 |
| OM90090        | 1673          | 222        | DR2001  | 0243   | 182 | 1918079 | 0188   | 181 | 1946945 | 0097   | 178 |
| OM900V4        | 1671          | 222        | DR2003  | 0243   | 182 | 1918219 | 1216   | 233 | 1946957 | 0097   | 178 |
| OM90100        | 1669          | 222        | ESP281  | 1605   | 219 | 1918866 | 0117   | 179 | 1947542 | 0381   | 185 |
| OM90150        | 1669          | 222        | 1108481 | 0020   | 176 | 1920669 | 0188   | 181 | 1947727 | 0020   | 176 |
| OM900V49       | 1670          | 222        | 1109625 | 0110   | 179 | 1921998 | 0117   | 179 | 1947912 | 0112   | 179 |
| <b>Remy</b>    | <b>Nº ZEN</b> | <b>Pg.</b> | 1114087 | 0097   | 178 | 1922266 | 1216   | 233 | 1947920 | 0182   | 180 |
| C2000          | 0054          | 177        | 1838065 | 0135   | 180 | 1922419 | 0032   | 233 | 1948764 | 0188   | 181 |
| C2001          | 0050          | 177        | 1839099 | 0039   | 176 | 1923288 | 0032   | 233 | 1948877 | 0381   | 185 |
| C2002          | 0054          | 177        | 1846089 | 1190   | 212 | 1925079 | 1216   | 233 | 1950058 | 0093   | 178 |
| D2001          | 0039          | 176        | 1851430 | 0051   | 177 | 1925285 | 1216   | 233 | 1950058 | 0568   | 191 |
| D2003          | 0013          | 176        | 1852410 | 0052   | 177 | 1925871 | 1216   | 233 | 1950398 | 0032   | 233 |
| D2005          | 0052          | 177        | 1852570 | 0052   | 177 | 1929402 | 0052   | 177 | 1950586 | 0182   | 180 |
| D2008          | 0020          | 176        | 1852716 | 0093   | 178 | 1930802 | 0052   | 177 | 1951180 | 0051   | 177 |
| D2009          | 0052          | 177        | 1852716 | 0568   | 191 | 1932031 | 0188   | 181 | 1951180 | 0566   | 191 |
| D2010          | 1216          | 233        | 1852970 | 0052   | 177 | 1932185 | 0013   | 176 | 1952083 | 0110   | 179 |
| D2012          | 1216          | 233        | 1865687 | 0522   | 189 | 1932188 | 0013   | 176 | 1952410 | 0052   | 177 |
| D2014          | 0020          | 176        | 1874133 | 0039   | 176 | 1932308 | 0566   | 191 | 1952410 | 0567   | 191 |
| D2017          | 0051          | 177        | 1875687 | 0020   | 176 | 1932526 | 0117   | 179 | 1952486 | 0051   | 177 |
| D2018          | 0050          | 177        | 1875802 | 0566   | 191 | 1932545 | 0117   | 179 | 1952832 | 1216   | 233 |
| D2020          | 0020          | 176        | 1875852 | 0051   | 177 | 1932603 | 0879   | 202 | 1953151 | 0914   | 203 |
| D2021          | 0052          | 177        | 1875852 | 0566   | 191 | 1932604 | 1866   | 231 | 1953373 | 0110   | 179 |



| Remy    | Nº ZEN | Pg. | Remy     | Nº ZEN | Pg. | Remy     | Nº ZEN | Pg. | Remy               | Nº ZEN        | Pg.        |
|---------|--------|-----|----------|--------|-----|----------|--------|-----|--------------------|---------------|------------|
| 1954437 | 0032   | 233 | 3471490  | 0243   | 182 | 10475974 | 0770   | 198 | 19024909           | 0133          | 179        |
| 1954842 | 0020   | 176 | 3471912  | 0243   | 182 | 10476528 | 1210   | 214 | 19025715           | 0367          | 185        |
| 1954842 | 1184   | 212 | 4019393  | 0093   | 178 | 10476642 | 0774   | 198 | 19070179           | 0920          | 204        |
| 1954867 | 0020   | 176 | 4019393  | 0568   | 191 | 10479522 | 0112   | 179 | 89017523           | 10003         | 232        |
| 1955777 | 0110   | 179 | 07363070 | 0010   | 176 | 10484659 | 1112   | 211 | 96051972           | 0570          | 191        |
| 1958621 | 1216   | 233 | 8000045  | 10003  | 232 | 10487536 | 0783   | 199 | 96051972           | 0576          | 191        |
| 1958842 | 0032   | 233 | 8000058  | 10003  | 232 | 10492409 | 0958   | 205 | 0215002001         | 0850          | 201        |
| 1960370 | 0110   | 179 | 8000066  | 0110   | 179 | 10497257 | 0752   | 197 | DR10511410         | 1811          | 229        |
| 1961372 | 0032   | 233 | 8000067  | 0626   | 193 | 10497496 | 0888   | 202 | DR10512095         | 1809          | 228        |
| 1964127 | 0093   | 178 | 8000068  | 0097   | 178 | 10497522 | 0112   | 179 | DR10526468         | 1810          | 228        |
| 1964127 | 0568   | 191 | 9000856  | 10003  | 232 | 10498438 | 0566   | 191 | <b>Renault</b>     | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1964293 | 1216   | 233 | 9000868  | 10003  | 232 | 10498527 | 0611   | 192 | 7701019295         | 0285          | 182        |
| 1964300 | 0188   | 181 | 9000876  | 10003  | 232 | 10498623 | 0093   | 178 | <b>Sea Doo</b>     | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1964302 | 0188   | 181 | 9000881  | 10003  | 232 | 10498623 | 0568   | 191 | 278001106          | 1218          | 214        |
| 1965358 | 0051   | 177 | 9000896  | 10003  | 232 | 10499852 | 0381   | 185 | 295500089          | 0773          | 198        |
| 1965358 | 0566   | 191 | 9000901  | 10003  | 232 | 10499854 | 0567   | 191 | <b>Skoda</b>       | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1965538 | 0020   | 176 | 9000933  | 10003  | 232 | 10500277 | 1521   | 217 | 1722               | 0892          | 203        |
| 1965723 | 0020   | 176 | 9000939  | 10003  | 232 | 10500277 | 1573   | 218 | 115904030          | 0831          | 201        |
| 1965923 | 0020   | 176 | 9000948  | 10003  | 232 | 10500283 | 1521   | 217 | <b>Subaru</b>      | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1966931 | 0093   | 178 | 9000977  | 10003  | 232 | 10500475 | 1482   | 216 | 280992420          | 0339          | 184        |
| 1966931 | 0568   | 191 | 10451980 | 0770   | 198 | 10501804 | 10003  | 232 | 492097002          | 0341          | 184        |
| 1967042 | 0051   | 177 | 10452348 | 10003  | 232 | 10503933 | 0985   | 206 | 492866401          | 0517          | 189        |
| 1967779 | 0110   | 179 | 10452918 | 1614   | 219 | 10504495 | 12720  | 240 | 892094112          | 0341          | 184        |
| 1968131 | 0112   | 179 | 10452929 | 1082   | 210 | 10504515 | 10003  | 232 | 892096102          | 0341          | 184        |
| 1968355 | 0093   | 178 | 10455504 | 10003  | 232 | 10510651 | 1840   | 230 | 23300KA270         | 0517          | 189        |
| 1968355 | 0568   | 191 | 10456422 | 0020   | 176 | 10511405 | 13131  | 237 | 23312AA000         | 0600          | 192        |
| 1970376 | 0112   | 179 | 10456455 | 0629   | 193 | 10511407 | 13132  | 237 | 23312AA030         | 1213          | 214        |
| 1970527 | 0626   | 193 | 10456455 | 1194   | 213 | 10511410 | 1811   | 229 | <b>Suzuki</b>      | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1970711 | 0097   | 178 | 10457056 | 0629   | 193 | 10512090 | 13130  | 237 | 3132051A10         | 0951          | 205        |
| 1971147 | 1216   | 233 | 10457056 | 1194   | 213 | 10512091 | 13138  | 237 | 3132060A10         | 0617          | 192        |
| 1971167 | 0182   | 180 | 10457057 | 0649   | 194 | 10512095 | 1809   | 228 | 3132063210         | 0184          | 180        |
| 1971706 | 0112   | 179 | 10457057 | 1195   | 213 | 10515806 | 12955  | 236 | 3132072031         | 0352          | 185        |
| 1971707 | 0093   | 178 | 10457058 | 0650   | 194 | 10515807 | 12961  | 236 | 3132078310         | 0686          | 195        |
| 1971707 | 0568   | 191 | 10457058 | 1196   | 213 | 10515808 | 12957  | 236 | 3132079030         | 0450          | 187        |
| 1972281 | 0054   | 177 | 10457059 | 0651   | 194 | 10515809 | 12954  | 236 | 3132082010         | 0576          | 191        |
| 1972282 | 0050   | 177 | 10457059 | 1197   | 213 | 10515810 | 1679   | 222 | 3132082130         | 0450          | 187        |
| 1972286 | 0205   | 181 | 10457060 | 1198   | 213 | 10515810 | 1805   | 228 | 3132082139         | 0450          | 187        |
| 1972287 | 0053   | 177 | 10457121 | 0722   | 196 | 10515811 | 1679   | 222 | 3132086030         | 0595          | 192        |
| 1972365 | 0054   | 177 | 10457122 | 0721   | 196 | 10515811 | 1805   | 228 | <b>SWS</b>         | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1974355 | 0013   | 176 | 10457141 | 0723   | 196 | 10521484 | 10003  | 232 | 11812010           | 9702          | 235        |
| 1974655 | 0977   | 206 | 10457168 | 1196   | 213 | 10524148 | 12956  | 236 | <b>Tata</b>        | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1975046 | 0093   | 178 | 10457178 | 0645   | 194 | 10524174 | 1745   | 225 | 26245134           | 1681          | 222        |
| 1975046 | 0568   | 191 | 10457362 | 0985   | 206 | 10524228 | 1112   | 211 | 26258286           | 1715          | 224        |
| 1977004 | 0626   | 193 | 10457368 | 0985   | 206 | 10526458 | 13117  | 237 | <b>Thermo King</b> | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1979835 | 0555   | 190 | 10457579 | 0629   | 193 | 10526464 | 13118  | 237 | 442910             | 0376          | 185        |
| 1984511 | 0433   | 187 | 10457579 | 1194   | 213 | 10526466 | 13119  | 237 | 446676             | 0792          | 199        |
| 1984511 | 1189   | 212 | 10465293 | 0756   | 197 | 10526468 | 1810   | 228 | 446676             | 9526          | 235        |
| 1985129 | 0188   | 181 | 10468675 | 0612   | 192 | 10532997 | 13104  | 237 | 446681             | 0792          | 199        |
| 1985131 | 0879   | 202 | 10469173 | 0611   | 192 | 10532998 | 13105  | 237 | 446681             | 9526          | 235        |
| 1985132 | 0930   | 204 | 10472565 | 1205   | 213 | 10532999 | 13106  | 237 | 2801167030         | 1097          | 210        |
| 1985262 | 0624   | 193 | 10472809 | 0752   | 197 | 19024391 | 0133   | 179 | <b>TJ</b>          | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1986244 | 0625   | 193 | 10473700 | 0612   | 192 | 19024518 | 0392   | 185 | 407                | 1883          | 232        |
| 1987756 | 0566   | 191 | 10475540 | 1620   | 220 | 19024520 | 0367   | 185 | 0842116            | 0133          | 179        |
| 1989214 | 0610   | 192 | 10475616 | 0756   | 197 | 19024525 | 0378   | 185 | 0842190            | 0133          | 179        |
| 3471040 | 0243   | 182 | 10475958 | 0854   | 202 | 19024527 | 0648   | 194 | 0846190            | 0133          | 179        |

| Toyota     | Nº ZEN | Pg. | Toyota            | Nº ZEN        | Pg.        | Valeo  | Nº ZEN | Pg. | Valeo  | Nº ZEN | Pg. |
|------------|--------|-----|-------------------|---------------|------------|--------|--------|-----|--------|--------|-----|
| 6070       | 0809   | 200 | 2802173020        | 1813          | 229        | 1L22B  | 1775   | 227 | 182178 | 0657   | 194 |
| 280110D030 | 1547   | 217 | 2810110710        | 0947          | 205        | 3F25B  | 1872   | 231 | 182848 | 0843   | 201 |
| 280110Q020 | 1545   | 217 | 2810110710        | 1722          | 224        | 059427 | 1458   | 215 | 184448 | 0775   | 198 |
| 280110T310 | 1875   | 231 | <b>Tramontini</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 059527 | 1458   | 215 | 184917 | 0287   | 182 |
| 2801115010 | 0140   | 180 | 20210088          | 1753          | 226        | 060527 | 0965   | 206 | 185182 | 0656   | 194 |
| 2801117020 | 1830   | 230 | <b>Tria</b>       | <b>Nº ZEN</b> | <b>Pg.</b> | 60910  | 1686   | 223 | 185290 | 1074   | 210 |
| 2801120540 | 0947   | 205 | 116               | 0609          | 192        | 7D24B  | 1771   | 227 | 185441 | 0747   | 197 |
| 2801120540 | 1722   | 224 | 3143              | 0605          | 192        | 080327 | 0965   | 206 | 185675 | 0961   | 206 |
| 2801122010 | 0184   | 180 | 3902              | 0731          | 196        | 090800 | 1064   | 209 | 185915 | 1023   | 208 |
| 2801122020 | 0184   | 180 | 4424              | 0732          | 196        | 095464 | 0285   | 182 | 186321 | 1162   | 211 |
| 2801122021 | 0327   | 184 | ZAA911335         | 0605          | 192        | 097062 | 0248   | 182 | 186456 | 0961   | 206 |
| 2801122022 | 0184   | 180 | ZAE911335         | 0443          | 187        | 099931 | 0287   | 182 | 186621 | 0117   | 179 |
| 2801123020 | 0184   | 180 | <b>Unifap</b>     | <b>Nº ZEN</b> | <b>Pg.</b> | NE156  | 0217   | 181 | 186798 | 1209   | 214 |
| 2801124020 | 0184   | 180 | 0063              | 12722         | 241        | NE173  | 0285   | 182 | 186867 | 0787   | 199 |
| 2801124060 | 0184   | 180 | 0088              | 12721         | 241        | NE180  | 0189   | 181 | 186938 | 0787   | 199 |
| 2801124080 | 0184   | 180 | 11010             | 12683         | 240        | NE184  | 0248   | 182 | 187077 | 1839   | 230 |
| 2801125012 | 0327   | 184 | 11015             | 12685         | 240        | NE197  | 0287   | 182 | 187336 | 0965   | 206 |
| 2801125020 | 0327   | 184 | 11019             | 12681         | 240        | NE209  | 0656   | 194 | 187428 | 1152   | 211 |
| 2801126020 | 0184   | 180 | 11037             | 12689         | 240        | NE210  | 0936   | 204 | 187528 | 1458   | 215 |
| 2801126041 | 0947   | 205 | 11128             | 12690         | 240        | NE211  | 0647   | 194 | 187788 | 0843   | 201 |
| 2801126041 | 1722   | 224 | 12147             | 12682         | 240        | NE307  | 0574   | 191 | 187863 | 0965   | 206 |
| 2801126041 | 9186   | 234 | 12149             | 12686         | 240        | NE308  | 0574   | 191 | 187960 | 0787   | 199 |
| 2801126042 | 0947   | 205 | 12212             | 12692         | 240        | NE314  | 0404   | 186 | 187961 | 1209   | 214 |
| 2801126042 | 1722   | 224 | 12219             | 12687         | 240        | NE319  | 0189   | 181 | 187981 | 1209   | 214 |
| 2801126042 | 9186   | 234 | 12221             | 12675         | 240        | NE324  | 0245   | 182 | 187996 | 0965   | 206 |
| 2801133033 | 0184   | 180 | 12222             | 12684         | 240        | NE325  | 0244   | 182 | 188251 | 0965   | 206 |
| 2801135030 | 0947   | 205 | 12343             | 12688         | 240        | NE563  | 0463   | 188 | 188256 | 1074   | 210 |
| 2801135030 | 1722   | 224 | 14150             | 12720         | 240        | NE584  | 0463   | 188 | 188440 | 1064   | 209 |
| 2801140041 | 0184   | 180 | R0056             | 12693         | 240        | NE603  | 0574   | 191 | 188595 | 1822   | 229 |
| 2801141010 | 0327   | 184 | R0059             | 12719         | 241        | NE711  | 0117   | 179 | 188887 | 0787   | 199 |
| 2801141011 | 0327   | 184 | R0063             | 12722         | 241        | NE776  | 0961   | 206 | 188993 | 1607   | 219 |
| 2801141012 | 0327   | 184 | R0080             | 12694         | 241        | NE778  | 0775   | 198 | 188993 | 1692   | 223 |
| 2801141020 | 0140   | 180 | R0082             | 12695         | 241        | NE784  | 0775   | 198 | 190205 | 0843   | 201 |
| 2801141020 | 0327   | 184 | R0084             | 12718         | 241        | NE830  | 0747   | 197 | 191363 | 1618   | 220 |
| 2801141020 | 0353   | 185 | R0088             | 12721         | 241        | NE831  | 1074   | 210 | 191448 | 1822   | 229 |
| 2801141021 | 0140   | 180 | UF13119           | 12717         | 240        | NE832  | 0961   | 206 | 191547 | 1891   | 232 |
| 2801146010 | 0184   | 180 | UFP0060           | 12786         | 241        | NE834  | 1023   | 208 | 191548 | 1890   | 232 |
| 2801146013 | 0549   | 190 | <b>Unipoint</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | NE875  | 0787   | 199 | 191601 | 1752   | 226 |
| 2801154010 | 1827   | 229 | SD5053            | 1722          | 224        | NE877  | 1209   | 214 | 192929 | 1812   | 229 |
| 2801154010 | 9301   | 234 | SD5070            | 1827          | 229        | NE883  | 0656   | 194 | 192978 | 1752   | 226 |
| 2801154070 | 0921   | 204 | SD5071            | 1829          | 229        | NE885  | 1162   | 211 | 193013 | 1838   | 230 |
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| 0001108060 | 0900   | 203 | 0001108122 | 0520   | 189 | 0001108186 | 1058   | 209 | 0001110001 | 0579   | 191 |
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| 0001108065 | 0475   | 188 | 0001108127 | 0579   | 191 | 0001108218 | 1037   | 208 | 0001110009 | 0613   | 192 |
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| 0001110028 | 0475   | 188 | 0001110107 | 0482   | 188 | 0001114016 | 0482   | 188 | 0001123016 | 1823   | 229 |
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| 0001110082 | 0630   | 193 | 0001112041 | 0976   | 206 | 0001121006 | 1108   | 210 | 0001125504 | 1480   | 216 |
| 0001110084 | 0639   | 193 | 0001112044 | 0976   | 206 | 0001121007 | 1108   | 210 | 0001125511 | 1480   | 216 |
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| 0001157023 | 0325   | 184 | 0001208038 | 0080   | 178 | 0001208517 | 0482   | 188 | 0001211239 | 0222   | 181 |
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| 0001157028 | 0108   | 179 | 0001208047 | 0080   | 178 | 0001208528 | 0482   | 188 | 0001211245 | 0068   | 178 |
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| 0001157030 | 0108   | 179 | 0001208050 | 0080   | 178 | 0001208706 | 0520   | 189 | 0001211247 | 0068   | 178 |
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| 0001160013 | 0131   | 179 | 0001208054 | 0068   | 178 | 0001208709 | 0482   | 188 | 0001211249 | 0068   | 178 |
| 0001177000 | 1803   | 228 | 0001208055 | 0068   | 178 | 0001208710 | 0482   | 188 | 0001211251 | 0229   | 182 |
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| 0001203008 | 0015   | 176 | 0001208204 | 0361   | 185 | 0001209006 | 0223   | 181 | 0001211502 | 0482   | 188 |
| 0001203016 | 0044   | 176 | 0001208206 | 0108   | 179 | 0001209008 | 0080   | 178 | 0001211503 | 0482   | 188 |
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| 0001207003 | 0223   | 181 | 0001208224 | 0108   | 179 | 0001211201 | 0345   | 184 | 0001211988 | 0307   | 183 |
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| 0001207012 | 0223   | 181 | 0001208227 | 0108   | 179 | 0001211209 | 0068   | 178 | 0001211992 | 0065   | 177 |
| 0001207014 | 0223   | 181 | 0001208228 | 0108   | 179 | 0001211210 | 0068   | 178 | 0001211992 | 0323   | 184 |
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| 0001218126 | 0706   | 196 | 0001231010 | 1157   | 211 | 0001310007 | 0119   | 179 | 0001311128 | 0361   | 185 |
| 0001218128 | 1171   | 212 | 0001231011 | 1157   | 211 | 0001310010 | 0223   | 181 | 0001311129 | 0111   | 179 |
| 0001218129 | 0632   | 193 | 0001231012 | 1159   | 211 | 0001310013 | 0223   | 181 | 0001311130 | 0111   | 179 |
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| 0001218136 | 0573   | 191 | 0001231016 | 1159   | 211 | 0001311001 | 0080   | 178 | 0001311132 | 0108   | 179 |
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| 0001218157 | 1072   | 210 | 0001231026 | 1159   | 211 | 0001311013 | 0080   | 178 | 0001311134 | 0442   | 187 |
| 0001218159 | 0875   | 202 | 0001231027 | 1159   | 211 | 0001311016 | 0223   | 181 | 0001311135 | 0442   | 187 |
| 0001218162 | 1071   | 210 | 0001231033 | 1038   | 208 | 0001311019 | 0080   | 178 | 0001311136 | 0108   | 179 |
| 0001218165 | 1071   | 210 | 0001231039 | 1159   | 211 | 0001311023 | 0080   | 178 | 0001311137 | 0108   | 179 |
| 0001218166 | 1170   | 212 | 0001241001 | 12839  | 236 | 0001311024 | 0080   | 178 | 0001311138 | 0442   | 187 |
| 0001218168 | 0861   | 202 | 0001241001 | 1658   | 221 | 0001311025 | 0223   | 181 | 0001311139 | 0108   | 179 |
| 0001218172 | 0929   | 204 | 0001241003 | 12839  | 236 | 0001311027 | 0080   | 178 | 0001311140 | 0108   | 179 |
| 0001218174 | 0875   | 202 | 0001241003 | 1658   | 221 | 0001311028 | 0080   | 178 | 0001311141 | 0108   | 179 |
| 0001218177 | 0573   | 191 | 0001241004 | 12839  | 236 | 0001311030 | 0080   | 178 | 0001311143 | 0108   | 179 |
| 0001218772 | 0929   | 204 | 0001241004 | 1658   | 221 | 0001311031 | 0080   | 178 | 0001311145 | 0108   | 179 |
| 0001218774 | 0875   | 202 | 0001241005 | 12839  | 236 | 0001311032 | 0080   | 178 | 0001311146 | 0361   | 185 |
| 0001219001 | 0572   | 191 | 0001241005 | 1658   | 221 | 0001311034 | 0080   | 178 | 0001311147 | 0108   | 179 |
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| 0001219007 | 0572   | 191 | 0001241006 | 1658   | 221 | 0001311037 | 0080   | 178 | 0001312109 | 1065   | 209 |
| 0001219008 | 0631   | 193 | 0001241007 | 12839  | 236 | 0001311038 | 0362   | 185 | 0001313001 | 0080   | 178 |
| 0001219009 | 0572   | 191 | 0001241007 | 1658   | 221 | 0001311039 | 0080   | 178 | 0001313003 | 0221   | 181 |
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| Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. |
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| 0001314005 | 0221   | 181 | 0001354025 | 1076   | 210 | 0001359008 | 0302   | 183 | 0001359091 | 0105   | 179 |
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| 0001314012 | 0323   | 184 | 0001354032 | 0224   | 182 | 0001359011 | 0302   | 183 | 0001359097 | 1364   | 215 |
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| 0001314047 | 0931   | 204 | 0001354103 | 0318   | 184 | 0001359067 | 0118   | 179 | 0001360004 | 1364   | 215 |
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| 0001317008 | 0420   | 186 | 0001358018 | 0226   | 182 | 0001359072 | 1364   | 215 | 0001360025 | 1364   | 215 |
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| 0001317010 | 0406   | 186 | 0001358027 | 0226   | 182 | 0001359073 | 1364   | 215 | 0001360027 | 1364   | 215 |
| 0001317011 | 0428   | 187 | 0001358030 | 0034   | 176 | 0001359074 | 0105   | 179 | 0001360029 | 0392   | 185 |
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| 0001317016 | 0428   | 187 | 0001358046 | 0225   | 182 | 0001359076 | 0392   | 185 | 0001360031 | 0105   | 179 |
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| 0001354010 | 0226   | 182 | 0001359004 | 0392   | 185 | 0001359087 | 0105   | 179 | 0001360036 | 0105   | 179 |

| Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. |
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| 0001360037 | 1364   | 215 | 0001362042 | 0447   | 187 | 0001362313 | 0366   | 185 | 0001365008 | 0105   | 179 |
| 0001360038 | 0105   | 179 | 0001362045 | 0365   | 185 | 0001362314 | 0366   | 185 | 0001365008 | 1364   | 215 |
| 0001360038 | 1364   | 215 | 0001362046 | 0366   | 185 | 0001362316 | 0635   | 193 | 0001366001 | 0366   | 185 |
| 0001360039 | 0105   | 179 | 0001362047 | 0228   | 182 | 0001362319 | 0635   | 193 | 0001366004 | 0366   | 185 |
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| 0001360040 | 0105   | 179 | 0001362049 | 0677   | 195 | 0001362322 | 0291   | 182 | 0001366006 | 1005   | 207 |
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| 0001360041 | 0392   | 185 | 0001362051 | 0367   | 185 | 0001362324 | 0418   | 186 | 0001366009 | 0366   | 185 |
| 0001360042 | 0392   | 185 | 0001362053 | 0366   | 185 | 0001362600 | 0228   | 182 | 0001366011 | 0447   | 187 |
| 0001360043 | 0315   | 183 | 0001362059 | 0447   | 187 | 0001362601 | 0228   | 182 | 0001366012 | 0447   | 187 |
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| 0001360054 | 0392   | 185 | 0001362072 | 0366   | 185 | 0001362702 | 0764   | 198 | 0001366021 | 0367   | 185 |
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| 0001360059 | 0105   | 179 | 0001362078 | 0228   | 182 | 0001363106 | 1180   | 212 | 0001367002 | 0418   | 186 |
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| 0001362002 | 0319   | 184 | 0001362093 | 0419   | 186 | 0001363117 | 0447   | 187 | 0001367012 | 0367   | 185 |
| 0001362003 | 0319   | 184 | 0001362094 | 1003   | 207 | 0001363118 | 0378   | 185 | 0001367013 | 0378   | 185 |
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| 0001362036 | 0366   | 185 | 0001362306 | 0367   | 185 | 0001364400 | 1594   | 219 | 0001367031 | 0367   | 185 |
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| Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. |
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| 0001367071 | 0418   | 186 | 0001368062 | 0367   | 185 | 0001401025 | 0035   | 233 | 0001410063 | 0087   | 233 |
| 0001367072 | 0970   | 206 | 0001368063 | 0367   | 185 | 0001401041 | 0035   | 233 | 0001410063 | 0122   | 239 |
| 0001367074 | 0367   | 185 | 0001368068 | 0418   | 186 | 0001401044 | 0036   | 233 | 0001410063 | 0133   | 179 |
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| 0001367301 | 0367   | 185 | 0001368070 | 0418   | 186 | 0001401046 | 0036   | 233 | 0001410068 | 1181   | 233 |
| 0001367302 | 0418   | 186 | 0001368071 | 0378   | 185 | 0001401049 | 0035   | 233 | 0001410069 | 0087   | 233 |
| 0001368001 | 0367   | 185 | 0001368072 | 0418   | 186 | 0001401050 | 0035   | 233 | 0001410074 | 0087   | 233 |
| 0001368002 | 0367   | 185 | 0001368076 | 0418   | 186 | 0001401051 | 0035   | 233 | 0001410077 | 0087   | 233 |
| 0001368003 | 0367   | 185 | 0001368077 | 1002   | 207 | 0001401052 | 0035   | 233 | 0001410078 | 0218   | 233 |
| 0001368005 | 0367   | 185 | 0001368082 | 0418   | 186 | 0001401061 | 0035   | 233 | 0001410083 | 0218   | 233 |
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| 0001368007 | 0367   | 185 | 0001368085 | 0418   | 186 | 0001401074 | 0035   | 233 | 0001410088 | 0218   | 233 |
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| 0001368010 | 0367   | 185 | 0001368302 | 0367   | 185 | 0001402050 | 0035   | 233 | 0001410089 | 0218   | 233 |
| 0001368011 | 0367   | 185 | 0001368306 | 0418   | 186 | 0001402051 | 0036   | 233 | 0001410090 | 0218   | 233 |
| 0001368012 | 0367   | 185 | 0001368307 | 0367   | 185 | 0001402052 | 0036   | 233 | 0001410094 | 0078   | 233 |
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| 0001368015 | 0378   | 185 | 0001368318 | 1594   | 219 | 0001402055 | 0035   | 233 | 0001410106 | 0087   | 233 |
| 0001368017 | 0367   | 185 | 0001369001 | 0635   | 193 | 0001402057 | 0036   | 233 | 0001410111 | 0087   | 233 |
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| Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. |
|------------|--------|-----|------------|--------|-----|------------|--------|-----|------------|--------|-----|
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| 0001416006 | 0087   | 233 | 0001417065 | 0089   | 233 | 0001510034 | 0290   | 182 | 9000082006 | 0046   | 177 |
| 0001416007 | 0087   | 233 | 0001417066 | 0087   | 233 | 0001510035 | 0290   | 182 | 9000082009 | 0065   | 177 |
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| 0001416024 | 0218   | 233 | 0001420004 | 0117   | 179 | 0986021640 | 1650   | 221 | 9000082022 | 0046   | 177 |
| 0001416026 | 0218   | 233 | 0001420005 | 0117   | 179 | 0986021810 | 1642   | 221 | 9000082023 | 0080   | 178 |
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| 0001416034 | 0087   | 233 | 0001420011 | 0188   | 181 | 6004AA0017 | 1467   | 215 | 9000082032 | 0065   | 177 |
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| Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. |
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| 9000082040 | 0111   | 179 | 9000083029 | 0034   | 176 | 9000083075 | 0497   | 189 | 9000141100 | 0325   | 184 |
| 9000082041 | 0108   | 179 | 9000083030 | 0059   | 177 | 9000083076 | 0497   | 189 | 9000141101 | 0325   | 184 |
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| 9000082043 | 0108   | 179 | 9000083031 | 1364   | 215 | 9000083077 | 1372   | 215 | 9000141107 | 0325   | 184 |
| 9000082045 | 0068   | 178 | 9000083035 | 0118   | 179 | 9000084005 | 0855   | 202 | 9000141108 | 0325   | 184 |
| 9000082046 | 0065   | 177 | 9000083036 | 0105   | 179 | 9000084007 | 0089   | 233 | 9000141111 | 0325   | 184 |
| 9000082047 | 0065   | 177 | 9000083036 | 1364   | 215 | 9000084007 | 0122   | 239 | 9000141112 | 0325   | 184 |
| 9000082048 | 0108   | 179 | 9000083037 | 0153   | 180 | 9000084007 | 0133   | 179 | 9000141114 | 0325   | 184 |
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| 9000082085 | 0111   | 179 | 9000083061 | 0105   | 179 | 9000084017 | 0133   | 179 | 9000333104 | 0482   | 188 |
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| 9000083002 | 0059   | 177 | 9000083063 | 0105   | 179 | 9000084018 | 0133   | 179 | 9000333109 | 0482   | 188 |
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| Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch      | Nº ZEN | Pg. | Bosch                    | Nº ZEN        | Pg.        |
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| 9000453005 | 0024   | 176 | 9000453052 | 0024   | 176 | F000AL0133 | 1736   | 225 | F010AL0101               | 0800          | 199        |
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| 9000453006 | 0024   | 176 | 9000453053 | 0084   | 178 | F000AL0138 | 1691   | 223 | F010AL0301               | 0846          | 201        |
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| 9000453007 | 0186   | 181 | 9000453054 | 1359   | 215 | F000AL0143 | 1815   | 229 | <b>Bosch Reman</b>       | <b>Nº ZEN</b> | <b>Pg.</b> |
| 9000453008 | 0186   | 181 | 9000453055 | 0056   | 177 | F000AL0150 | 1697   | 223 | SR97X                    | 9702          | 235        |
| 9000453009 | 0024   | 176 | 9000453057 | 0505   | 189 | F000AL0151 | 1675   | 222 | SR1319X                  | 1548          | 217        |
| 9000453009 | 1359   | 215 | 9000453059 | 0024   | 176 | F000AL0152 | 1697   | 223 | <b>Boston Auto</b>       | <b>Nº ZEN</b> | <b>Pg.</b> |
| 9000453011 | 0024   | 176 | 9000453059 | 1359   | 215 | F000AL0159 | 1845   | 230 | 3191181                  | 1548          | 217        |
| 9000453011 | 1359   | 215 | 9000453061 | 0024   | 176 | F000AL0300 | 0846   | 201 | <b>Cargo</b>             | <b>Nº ZEN</b> | <b>Pg.</b> |
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| 9000453013 | 0125   | 179 | 9000453062 | 0085   | 178 | F000AL0302 | 1471   | 215 | 113617                   | 1548          | 217        |
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| 9000453014 | 1359   | 215 | 9000453065 | 0622   | 193 | F000AL0305 | 0846   | 201 | 232632                   | 0776          | 198        |
| 9000453015 | 0024   | 176 | 9000453066 | 1190   | 212 | F000AL0306 | 0989   | 206 | 330265                   | 1642          | 221        |
| 9000453015 | 1359   | 215 | 9000453067 | 0622   | 193 | F000AL0309 | 0837   | 201 | <b>Carrier Transcold</b> | <b>Nº ZEN</b> | <b>Pg.</b> |
| 9000453016 | 0024   | 176 | 9000453068 | 0622   | 193 | F000AL0310 | 0837   | 201 | 20451285                 | 0792          | 199        |
| 9000453016 | 1359   | 215 | 9000453072 | 0668   | 194 | F000AL0314 | 0837   | 201 | 20451993                 | 0792          | 199        |
| 9000453017 | 0024   | 176 | 9000453073 | 0118   | 179 | F000AL0400 | 1177   | 212 | <b>Case</b>              | <b>Nº ZEN</b> | <b>Pg.</b> |
| 9000453017 | 1359   | 215 | 9000453074 | 0105   | 179 | F000AL0401 | 1222   | 214 | A20873                   | 0567          | 191        |
| 9000453018 | 0084   | 178 | 9000453074 | 1364   | 215 | F000AL0402 | 1468   | 215 | A36582                   | 0567          | 191        |
| 9000453019 | 0024   | 176 | 9000453075 | 0497   | 189 | F000AL0415 | 1468   | 215 | A36583                   | 0567          | 191        |
| 9000453019 | 1359   | 215 | 9000453076 | 0497   | 189 | F000AL0502 | 1223   | 214 | A38413                   | 0567          | 191        |
| 9000453024 | 0505   | 189 | 9000453080 | 0668   | 194 | F000AL0502 | 12841  | 240 | A47466                   | 0567          | 191        |
| 9000453025 | 0070   | 178 | 9000453082 | 0105   | 179 | F000AL0507 | 12841  | 240 | A57092                   | 0567          | 191        |
| 9000453027 | 0085   | 178 | 9000453083 | 0105   | 179 | F000AL0901 | 1740   | 225 | A59671                   | 0567          | 191        |
| 9000453028 | 0024   | 176 | 9000453086 | 0118   | 179 | F000ALO700 | 0118   | 179 | D32189                   | 0567          | 191        |
| 9000453028 | 1359   | 215 | 9000453088 | 0315   | 183 | F000C60001 | 1879   | 231 | G44881                   | 0567          | 191        |
| 9000453029 | 1190   | 212 | 9000453089 | 0392   | 185 | F000C60004 | 1879   | 231 | G44927                   | 0567          | 191        |
| 9000453032 | 0024   | 176 | 9000453090 | 0315   | 183 | F000C60299 | 1875   | 231 | 91902C1                  | 0434          | 187        |
| 9000453032 | 1359   | 215 | 9000453091 | 0315   | 183 | F000C60300 | 1875   | 231 | A162469                  | 0434          | 187        |
| 9000453033 | 0085   | 178 | 9967600004 | 0035   | 233 | F000CD0001 | 1666   | 221 | A181642                  | 0970          | 206        |
| 9000453034 | 0024   | 176 | 9967600005 | 0036   | 233 | F000CD0002 | 1674   | 222 | A187597                  | 0970          | 206        |
| 9000453034 | 1359   | 215 | F000AL0100 | 0855   | 202 | F000CD0800 | 1712   | 224 | E010372                  | 0308          | 183        |
| 9000453038 | 0024   | 176 | F000AL0100 | 12689  | 240 | F000CD0801 | 1712   | 224 | 104192A1                 | 0567          | 191        |
| 9000453038 | 1359   | 215 | F000AL0100 | 12693  | 240 | F000CD0802 | 1741   | 225 | 114799A1                 | 0970          | 206        |
| 9000453041 | 0024   | 176 | F000AL0100 | 12694  | 241 | F000CD08A2 | 1741   | 225 | P941519Q                 | 0970          | 206        |
| 9000453041 | 1359   | 215 | F000AL0101 | 1469   | 215 | F000CD0900 | 1666   | 221 | 396587R91                | 0567          | 191        |
| 9000453042 | 0024   | 176 | F000AL0102 | 0998   | 207 | F000CD0901 | 1666   | 221 | <b>Caterpillar</b>       | <b>Nº ZEN</b> | <b>Pg.</b> |
| 9000453042 | 1359   | 215 | F000AL0103 | 0745   | 197 | F000CD0903 | 1666   | 221 | 88190                    | 0567          | 191        |
| 9000453043 | 0024   | 176 | F000AL0104 | 1469   | 215 | F000CD0905 | 1666   | 221 | 4N0241                   | 0434          | 187        |
| 9000453043 | 1359   | 215 | F000AL0105 | 1168   | 212 | F000CD1113 | 1674   | 222 | 4N4405                   | 0930          | 204        |
| 9000453044 | 0186   | 181 | F000AL0106 | 1547   | 217 | F002G20524 | 0925   | 204 | 655293                   | 0567          | 191        |
| 9000453045 | 0186   | 181 | F000AL0107 | 1168   | 212 | F002G20904 | 1743   | 225 | 677750                   | 0567          | 191        |
| 9000453046 | 0024   | 176 | F000AL0108 | 1155   | 211 | F004A94008 | 1562   | 218 | 7M8651                   | 0110          | 179        |
| 9000453046 | 1359   | 215 | F000AL0110 | 0998   | 207 | F005M00012 | 0919   | 204 | 7M8651                   | 9074          | 234        |
| 9000453047 | 0024   | 176 | F000AL0111 | 1562   | 218 | F005M00012 | 12693  | 240 | 7N0923                   | 0434          | 187        |
| 9000453047 | 1359   | 215 | F000AL0112 | 1168   | 212 | F005M00012 | 12694  | 241 | 9G6941                   | 0434          | 187        |
| 9000453048 | 0125   | 179 | F000AL0118 | 1547   | 217 | F005M00014 | 0919   | 204 | <b>CBT</b>               | <b>Nº ZEN</b> | <b>Pg.</b> |
| 9000453049 | 0024   | 176 | F000AL0128 | 12690  | 240 | F005M00014 | 12693  | 240 | 21013708000              | 0213          | 181        |
| 9000453049 | 1359   | 215 | F000AL0128 | 1638   | 221 | F005M00014 | 12694  | 241 | <b>Chrysler</b>          | <b>Nº ZEN</b> | <b>Pg.</b> |
| 9000453050 | 0024   | 176 | F000AL0129 | 1697   | 223 | F005M00024 | 0745   | 197 | 15056                    | 0110          | 179        |
| 9000453050 | 1359   | 215 | F000AL0130 | 1675   | 222 | F006AL0602 | 0497   | 189 | 15056                    | 9074          | 234        |

| Chrysler       | Nº ZEN        | Pg.        | Clark           | Nº ZEN        | Pg.        | Denso     | Nº ZEN | Pg. | Denso     | Nº ZEN | Pg. |
|----------------|---------------|------------|-----------------|---------------|------------|-----------|--------|-----|-----------|--------|-----|
| 15113          | 0110          | 179        | 3004552         | 0567          | 191        | 280004450 | 1767   | 226 | 280005691 | 1828   | 229 |
| 15113          | 9074          | 234        | 3004555         | 0567          | 191        | 280004540 | 1767   | 226 | 280005692 | 1827   | 229 |
| 1889100        | 0054          | 177        | 3004562         | 0567          | 191        | 280004800 | 1827   | 229 | 280005692 | 1828   | 229 |
| 1889129        | 0054          | 177        | 3042514         | 0567          | 191        | 280004800 | 1828   | 229 | 280005693 | 1827   | 229 |
| 1889200        | 0054          | 177        | 3136105         | 0567          | 191        | 280004940 | 1767   | 226 | 280005693 | 1828   | 229 |
| 1889297        | 0050          | 177        | <b>CNH</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | 280005060 | 1767   | 226 | 280005730 | 1767   | 226 |
| 2095122        | 0050          | 177        | 82036365        | 1700          | 223        | 280005300 | 1827   | 229 | 280005832 | 1827   | 229 |
| 2095150        | 0050          | 177        | 84208918        | 1700          | 223        | 280005300 | 1828   | 229 | 280005832 | 1828   | 229 |
| 2095254        | 0050          | 177        | 87398251        | 1700          | 223        | 280005301 | 1827   | 229 | 280005833 | 1827   | 229 |
| 2095753        | 0054          | 177        | 87583927        | 1700          | 223        | 280005301 | 1828   | 229 | 280005833 | 1828   | 229 |
| 2642227        | 0054          | 177        | 87751000        | 1698          | 223        | 280005490 | 1827   | 229 | 280005834 | 1827   | 229 |
| 2958166        | 0567          | 191        | 504388220       | 1700          | 223        | 280005510 | 1827   | 229 | 280005834 | 1828   | 229 |
| 3656650        | 0050          | 177        | <b>Crysler</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | 280005510 | 1828   | 229 | 280005835 | 1827   | 229 |
| 4091950        | 0495          | 189        | 1889297         | 0050          | 177        | 280005511 | 1827   | 229 | 280005835 | 1828   | 229 |
| 4111855        | 0495          | 189        | 2095122         | 0050          | 177        | 280005511 | 1828   | 229 | 280005840 | 1828   | 229 |
| 4145359        | 0495          | 189        | 2095150         | 0050          | 177        | 280005520 | 1827   | 229 | 280005841 | 1828   | 229 |
| 4226833        | 0292          | 183        | 2095254         | 0050          | 177        | 280005530 | 1827   | 229 | 280005850 | 1827   | 229 |
| 4240404        | 0292          | 183        | 3656650         | 0050          | 177        | 280005530 | 1828   | 229 | 280005850 | 1828   | 229 |
| 4240449        | 0495          | 189        | <b>Cummins</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | 280005531 | 1827   | 229 | 280005860 | 1827   | 229 |
| 4339472        | 0292          | 183        | 3283312         | 0970          | 206        | 280005531 | 1828   | 229 | 280005860 | 1828   | 229 |
| 4339474        | 0292          | 183        | 3283812         | 0970          | 206        | 280005532 | 1827   | 229 | 280005861 | 1827   | 229 |
| 5206270        | 0339          | 184        | 4948058         | 1881          | 232        | 280005532 | 1828   | 229 | 280005862 | 1827   | 229 |
| 5213045        | 0292          | 183        | C4948058        | 1881          | 232        | 280005541 | 1827   | 229 | 280005862 | 1828   | 229 |
| 5213085        | 0339          | 184        | 3604645RX       | 0555          | 190        | 280005541 | 1828   | 229 | 280005863 | 1827   | 229 |
| 5213190        | 0339          | 184        | 3675148RX       | 0792          | 199        | 280005542 | 1827   | 229 | 280005863 | 1828   | 229 |
| 5213370        | 0339          | 184        | 3675149RX       | 0792          | 199        | 280005543 | 1827   | 229 | 280005864 | 1827   | 229 |
| 5213395        | 0339          | 184        | <b>Dacia</b>    | <b>Nº ZEN</b> | <b>Pg.</b> | 280005543 | 1828   | 229 | 280005870 | 1827   | 229 |
| 5213450        | 0292          | 183        | 7711497567      | 1756          | 226        | 280005550 | 1827   | 229 | 280005871 | 1827   | 229 |
| 5226441        | 0292          | 183        | 8200306595      | 1756          | 226        | 280005550 | 1828   | 229 | 280005871 | 1828   | 229 |
| 5226442        | 0292          | 183        | 8200836473      | 1756          | 226        | 280005551 | 1827   | 229 | 280005880 | 1829   | 229 |
| 40911920       | 0495          | 189        | <b>Daewoo</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | 280005551 | 1828   | 229 | 280005890 | 1827   | 229 |
| 56004934       | 0801          | 200        | 93741000        | 1704          | 223        | 280005552 | 1827   | 229 | 280005890 | 1828   | 229 |
| 56041014       | 0825          | 201        | 31100A78B00     | 1048          | 209        | 280005552 | 1828   | 229 | 280005891 | 1827   | 229 |
| 05034555AA     | 1771          | 227        | TM300C10201     | 1704          | 223        | 280005553 | 1827   | 229 | 280005891 | 1828   | 229 |
| <b>Citroën</b> | <b>Nº ZEN</b> | <b>Pg.</b> | <b>Daf</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | 280005553 | 1828   | 229 | 280006010 | 1827   | 229 |
| 5802AQ         | 1650          | 221        | 1658730         | 12839         | 236        | 280005560 | 1827   | 229 | 280006012 | 1827   | 229 |
| 9648644680     | 1752          | 226        | <b>Daihatsu</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 280005560 | 1828   | 229 | 280006013 | 1827   | 229 |
| 9807775680     | 1755          | 226        | 2810047050      | 1827          | 229        | 280005561 | 1827   | 229 | 280006021 | 1827   | 229 |
| <b>Clark</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | 2810047051      | 1827          | 229        | 280005561 | 1828   | 229 | 280006022 | 1827   | 229 |
| 316595         | 0567          | 191        | 2810072010      | 0947          | 205        | 280005570 | 1827   | 229 | 280006060 | 1828   | 229 |
| 335861         | 0567          | 191        | 2810072010      | 1722          | 224        | 280005570 | 1828   | 229 | 280006061 | 1828   | 229 |
| 391632         | 0567          | 191        | 2810087314      | 1827          | 229        | 280005571 | 1827   | 229 | 280006062 | 1828   | 229 |
| 636180         | 0567          | 191        | 281008731A      | 1827          | 229        | 280005571 | 1828   | 229 | 280006200 | 1827   | 229 |
| 916303         | 0567          | 191        | 2810087601      | 1827          | 229        | 280005580 | 1827   | 229 | 280006200 | 1828   | 229 |
| 999665         | 0567          | 191        | 2810087526000   | 1895          | 232        | 280005581 | 1827   | 229 | 280006201 | 1827   | 229 |
| 1636179        | 0567          | 191        | 2810087548000   | 1895          | 232        | 280005593 | 1827   | 229 | 280006201 | 1828   | 229 |
| 1636180        | 0567          | 191        | 2810087722000   | 1895          | 232        | 280005620 | 1827   | 229 | 280006290 | 1827   | 229 |
| 2355693        | 0567          | 191        | 2810087734000   | 1895          | 232        | 280005620 | 1828   | 229 | 280006290 | 1828   | 229 |
| 2355694        | 0567          | 191        | <b>Denso</b>    | <b>Nº ZEN</b> | <b>Pg.</b> | 280005651 | 1827   | 229 | 280006291 | 1827   | 229 |
| 2377360        | 0567          | 191        | AM133636        | 1885          | 232        | 280005652 | 1827   | 229 | 280006291 | 1828   | 229 |
| 3001006        | 0567          | 191        | 280000972       | 1827          | 229        | 280005660 | 1828   | 229 | 280006292 | 1827   | 229 |
| 3001008        | 0567          | 191        | 280003641       | 1767          | 226        | 280005661 | 1828   | 229 | 280006340 | 1827   | 229 |
| 3001018        | 0567          | 191        | 280003642       | 1767          | 226        | 280005690 | 1827   | 229 | 280006340 | 1828   | 229 |
| 3002935        | 0567          | 191        | 280004323       | 1767          | 226        | 280005690 | 1828   | 229 | 280006341 | 1827   | 229 |
| 3004551        | 0567          | 191        | 280004343       | 1767          | 226        | 280005691 | 1827   | 229 | 280006341 | 1828   | 229 |

| Denso     | Nº ZEN | Pg. | Denso      | Nº ZEN | Pg. | Denso      | Nº ZEN | Pg. | Denso      | Nº ZEN | Pg. |
|-----------|--------|-----|------------|--------|-----|------------|--------|-----|------------|--------|-----|
| 280006460 | 1828   | 229 | 280007241  | 1828   | 229 | 1280000380 | 1828   | 229 | 1280002450 | 1827   | 229 |
| 280006460 | 1830   | 230 | 280007242  | 1827   | 229 | 1280000381 | 1827   | 229 | 1280002470 | 1827   | 229 |
| 280006461 | 1827   | 229 | 280007242  | 1828   | 229 | 1280000381 | 1828   | 229 | 1280002560 | 1831   | 230 |
| 280006461 | 1828   | 229 | 280007400  | 1827   | 229 | 1280000382 | 1827   | 229 | 1280002740 | 1827   | 229 |
| 280006462 | 1828   | 229 | 280007400  | 1828   | 229 | 1280000382 | 1828   | 229 | 1280002740 | 1829   | 229 |
| 280006462 | 1830   | 230 | 280007451  | 1827   | 229 | 1280000383 | 1827   | 229 | 1280002830 | 1723   | 225 |
| 280006463 | 1828   | 229 | 280007452  | 1827   | 229 | 1280000383 | 1828   | 229 | 1280002930 | 1828   | 229 |
| 280006463 | 1830   | 230 | 280007540  | 1828   | 229 | 1280000490 | 1827   | 229 | 1280002931 | 1828   | 229 |
| 280006560 | 1827   | 229 | 280007542  | 1828   | 229 | 1280000520 | 1827   | 229 | 1280002932 | 1828   | 229 |
| 280006561 | 1827   | 229 | 280007731  | 1828   | 229 | 1280000520 | 1828   | 229 | 1280002933 | 1828   | 229 |
| 280006590 | 1827   | 229 | 280007732  | 1828   | 229 | 1280000530 | 1827   | 229 | 1280003080 | 1827   | 229 |
| 280006590 | 1828   | 229 | 280007800  | 1828   | 229 | 1280000530 | 1828   | 229 | 1280003080 | 1828   | 229 |
| 280006591 | 1827   | 229 | 280007801  | 1828   | 229 | 1280000531 | 1827   | 229 | 1280003081 | 1828   | 229 |
| 280006591 | 1828   | 229 | 280007802  | 1828   | 229 | 1280000531 | 1828   | 229 | 1280003082 | 1827   | 229 |
| 280006640 | 1827   | 229 | 280007810  | 1827   | 229 | 1280000532 | 1827   | 229 | 1280003082 | 1828   | 229 |
| 280006780 | 1828   | 229 | 280007810  | 1828   | 229 | 1280000532 | 1828   | 229 | 1280003120 | 1829   | 229 |
| 280006780 | 1831   | 230 | 280007811  | 1827   | 229 | 1280000972 | 1827   | 229 | 1280003512 | 1827   | 229 |
| 280006870 | 1827   | 229 | 280007811  | 1828   | 229 | 1280000972 | 1828   | 229 | 1280003512 | 1828   | 229 |
| 280006870 | 1828   | 229 | 280008070  | 1827   | 229 | 1280000973 | 1827   | 229 | 1280003513 | 1827   | 229 |
| 280006871 | 1827   | 229 | 280008070  | 1828   | 229 | 1280000973 | 1828   | 229 | 1280003513 | 1828   | 229 |
| 280006871 | 1828   | 229 | 280008071  | 1827   | 229 | 1280001000 | 1827   | 229 | 1280003514 | 1827   | 229 |
| 280006872 | 1827   | 229 | 280008071  | 1828   | 229 | 1280001000 | 1828   | 229 | 1280003514 | 1828   | 229 |
| 280006872 | 1828   | 229 | 280008072  | 1827   | 229 | 1280001001 | 1827   | 229 | 1280003662 | 1895   | 232 |
| 280006880 | 1827   | 229 | 280008072  | 1828   | 229 | 1280001001 | 1828   | 229 | 1280004100 | 1827   | 229 |
| 280006880 | 1828   | 229 | 280008400  | 1827   | 229 | 1280001010 | 1827   | 229 | 1280004100 | 1828   | 229 |
| 280006881 | 1827   | 229 | 280008490  | 1827   | 229 | 1280001011 | 1827   | 229 | 1280004101 | 1827   | 229 |
| 280006881 | 1828   | 229 | 280008490  | 1828   | 229 | 1280001060 | 1828   | 229 | 1280004101 | 1828   | 229 |
| 280006882 | 1827   | 229 | 280008491  | 1827   | 229 | 1280001060 | 1831   | 230 | 1280004111 | 1827   | 229 |
| 280006882 | 1828   | 229 | 280008491  | 1828   | 229 | 1280001561 | 1827   | 229 | 1280004112 | 1827   | 229 |
| 280006890 | 1827   | 229 | 280008500  | 1827   | 229 | 1280001561 | 1828   | 229 | 1280004220 | 1829   | 229 |
| 280006891 | 1827   | 229 | 280008500  | 1828   | 229 | 1280001570 | 1827   | 229 | 1280004250 | 1827   | 229 |
| 280006891 | 1828   | 229 | 280008501  | 1827   | 229 | 1280001570 | 1828   | 229 | 1280004530 | 1895   | 232 |
| 280006892 | 1827   | 229 | 280008501  | 1828   | 229 | 1280001571 | 1827   | 229 | 1280004531 | 1895   | 232 |
| 280006892 | 1828   | 229 | 280008561  | 1827   | 229 | 1280001571 | 1828   | 229 | 1280004532 | 1895   | 232 |
| 280006893 | 1827   | 229 | 280008562  | 1827   | 229 | 1280001572 | 1827   | 229 | 1280004870 | 1885   | 232 |
| 280006893 | 1828   | 229 | 280008580  | 1723   | 225 | 1280001572 | 1828   | 229 | 1280004910 | 1829   | 229 |
| 280006900 | 1827   | 229 | 280008840  | 1827   | 229 | 1280001573 | 1827   | 229 | 1280005090 | 1827   | 229 |
| 280006900 | 1828   | 229 | 280008840  | 1828   | 229 | 1280001573 | 1828   | 229 | 1280005091 | 1827   | 229 |
| 280006901 | 1827   | 229 | 280008841  | 1827   | 229 | 1280001574 | 1827   | 229 | 1280005091 | 1828   | 229 |
| 280006901 | 1828   | 229 | 280008841  | 1828   | 229 | 1280001574 | 1828   | 229 | 1280005300 | 1827   | 229 |
| 280006902 | 1828   | 229 | 280008842  | 1827   | 229 | 1280001580 | 1827   | 229 | 1280005370 | 1831   | 230 |
| 280006910 | 1827   | 229 | 280008842  | 1828   | 229 | 1280001580 | 1828   | 229 | 1280005380 | 1827   | 229 |
| 280006910 | 1828   | 229 | 280009331  | 1827   | 229 | 1280001581 | 1827   | 229 | 1280005380 | 1828   | 229 |
| 280006911 | 1827   | 229 | 280009331  | 1828   | 229 | 1280001581 | 1828   | 229 | 1280005381 | 1827   | 229 |
| 280006911 | 1828   | 229 | 280009332  | 1827   | 229 | 1280001582 | 1827   | 229 | 1280005381 | 1828   | 229 |
| 280006912 | 1827   | 229 | 280009332  | 1828   | 229 | 1280001582 | 1828   | 229 | 1280005382 | 1827   | 229 |
| 280006912 | 1828   | 229 | 280009333  | 1827   | 229 | 1280001583 | 1827   | 229 | 1280005382 | 1828   | 229 |
| 280006950 | 1827   | 229 | 280009333  | 1828   | 229 | 1280001583 | 1828   | 229 | 1280005730 | 1831   | 230 |
| 280006950 | 1828   | 229 | 280009770  | 1827   | 229 | 1280001584 | 1827   | 229 | 1280005731 | 1831   | 230 |
| 280006951 | 1827   | 229 | 280993570  | 1831   | 230 | 1280001584 | 1828   | 229 | 1280005732 | 1831   | 230 |
| 280006951 | 1828   | 229 | 281001442  | 1827   | 229 | 1280001585 | 1827   | 229 | 1280006170 | 1827   | 229 |
| 280007140 | 1827   | 229 | 283004551  | 1827   | 229 | 1280001585 | 1828   | 229 | 1280006170 | 1828   | 229 |
| 280007140 | 1828   | 229 | 283005090  | 1827   | 229 | 1280001790 | 1827   | 229 | 1280006171 | 1827   | 229 |
| 280007240 | 1827   | 229 | 1280000292 | 1828   | 229 | 1280001790 | 1828   | 229 | 1280006171 | 1828   | 229 |
| 280007241 | 1827   | 229 | 1280000380 | 1827   | 229 | 1280001870 | 1885   | 232 | 1280006172 | 1827   | 229 |



| Denso      | Nº ZEN | Pg. | Denso      | Nº ZEN | Pg. | Denso      | Nº ZEN | Pg. | Denso      | Nº ZEN | Pg. |
|------------|--------|-----|------------|--------|-----|------------|--------|-----|------------|--------|-----|
| 1280006172 | 1828   | 229 | 1280007294 | 1827   | 229 | 2280000291 | 1827   | 229 | 2280002660 | 1827   | 229 |
| 1280006173 | 1827   | 229 | 1280007294 | 1828   | 229 | 2280000291 | 1828   | 229 | 2280002660 | 1828   | 229 |
| 1280006173 | 1828   | 229 | 1280007360 | 1827   | 229 | 2280000292 | 1827   | 229 | 2280002670 | 1829   | 229 |
| 1280006180 | 1827   | 229 | 1280007360 | 1828   | 229 | 2280000292 | 1828   | 229 | 2280002800 | 1827   | 229 |
| 1280006180 | 1828   | 229 | 1280007361 | 1827   | 229 | 2280000350 | 1827   | 229 | 2280003070 | 1827   | 229 |
| 1280006181 | 1827   | 229 | 1280007361 | 1828   | 229 | 2280000350 | 1828   | 229 | 2280003070 | 1828   | 229 |
| 1280006181 | 1828   | 229 | 1280007362 | 1827   | 229 | 2280000351 | 1827   | 229 | 2280003080 | 1827   | 229 |
| 1280006182 | 1827   | 229 | 1280007362 | 1828   | 229 | 2280000351 | 1828   | 229 | 2280003080 | 1828   | 229 |
| 1280006182 | 1828   | 229 | 1280007363 | 1827   | 229 | 2280000570 | 1827   | 229 | 2280003090 | 1827   | 229 |
| 1280006183 | 1827   | 229 | 1280007363 | 1828   | 229 | 2280000570 | 1828   | 229 | 2280003090 | 1828   | 229 |
| 1280006183 | 1828   | 229 | 1280007600 | 1827   | 229 | 2280000571 | 1827   | 229 | 2280003100 | 1827   | 229 |
| 1280006184 | 1827   | 229 | 1280007601 | 1827   | 229 | 2280000571 | 1828   | 229 | 2280003100 | 1828   | 229 |
| 1280006184 | 1828   | 229 | 1280007602 | 1827   | 229 | 2280000572 | 1827   | 229 | 2280003230 | 1827   | 229 |
| 1280006330 | 1827   | 229 | 1280007603 | 1827   | 229 | 2280000573 | 1827   | 229 | 2280003230 | 1828   | 229 |
| 1280006810 | 1827   | 229 | 1280007604 | 1827   | 229 | 2280000574 | 1827   | 229 | 2280003310 | 1829   | 229 |
| 1280006810 | 1828   | 229 | 1280007750 | 1827   | 229 | 2280000575 | 1827   | 229 | 2280003320 | 1829   | 229 |
| 1280006811 | 1827   | 229 | 1280007770 | 1723   | 225 | 2280000630 | 1831   | 230 | 2280003700 | 1831   | 230 |
| 1280006811 | 1828   | 229 | 1280007920 | 1827   | 229 | 2280001350 | 1831   | 230 | 2280003710 | 1827   | 229 |
| 1280006812 | 1827   | 229 | 1280007920 | 1828   | 229 | 2280001420 | 1831   | 230 | 2280003710 | 1828   | 229 |
| 1280006812 | 1828   | 229 | 1280007921 | 1827   | 229 | 2280001440 | 1827   | 229 | 2280003720 | 1827   | 229 |
| 1280006822 | 1827   | 229 | 1280007921 | 1828   | 229 | 2280001590 | 1827   | 229 | 2280003810 | 1828   | 229 |
| 1280006822 | 1828   | 229 | 1280007922 | 1827   | 229 | 2280001590 | 1828   | 229 | 2280003810 | 1829   | 229 |
| 1280006823 | 1827   | 229 | 1280007922 | 1828   | 229 | 2280001591 | 1827   | 229 | 2280004240 | 1827   | 229 |
| 1280006823 | 1828   | 229 | 1280007923 | 1827   | 229 | 2280001591 | 1828   | 229 | 2280004680 | 1828   | 229 |
| 1280006830 | 1827   | 229 | 1280007923 | 1828   | 229 | 2280001600 | 1828   | 229 | 2280005311 | 1831   | 230 |
| 1280006830 | 1828   | 229 | 1280007932 | 1827   | 229 | 2280001600 | 1830   | 230 | 2280005460 | 1831   | 230 |
| 1280006831 | 1827   | 229 | 1280007932 | 1828   | 229 | 2280001601 | 1828   | 229 | 2280005641 | 1828   | 229 |
| 1280006831 | 1828   | 229 | 1280007933 | 1827   | 229 | 2280001601 | 1830   | 230 | 2280005641 | 1831   | 230 |
| 1280006832 | 1827   | 229 | 1280007933 | 1828   | 229 | 2280001610 | 1828   | 229 | 2280005811 | 1827   | 229 |
| 1280006832 | 1828   | 229 | 1280008061 | 1827   | 229 | 2280001610 | 1830   | 230 | 2280005830 | 1827   | 229 |
| 1280006833 | 1827   | 229 | 1280008063 | 1827   | 229 | 2280001611 | 1828   | 229 | 2280005830 | 1828   | 229 |
| 1280006833 | 1828   | 229 | 1280008064 | 1827   | 229 | 2280001611 | 1830   | 230 | 2280005980 | 1828   | 229 |
| 1280006860 | 1828   | 229 | 1280008290 | 1828   | 229 | 2280001661 | 1827   | 229 | 2280005980 | 1830   | 230 |
| 1280006861 | 1828   | 229 | 1280008290 | 1831   | 230 | 2280001661 | 1828   | 229 | 2280005981 | 1830   | 230 |
| 1280006910 | 1827   | 229 | 1280008620 | 1828   | 229 | 2280001671 | 1827   | 229 | 2280005990 | 1828   | 229 |
| 1280006911 | 1827   | 229 | 1280008620 | 1830   | 230 | 2280001671 | 1828   | 229 | 2280005990 | 1830   | 230 |
| 1280006920 | 1827   | 229 | 1280008621 | 1828   | 229 | 2280001790 | 1827   | 229 | 2280006380 | 1828   | 229 |
| 1280006921 | 1827   | 229 | 1280008621 | 1830   | 230 | 2280001790 | 1828   | 229 | 2280006430 | 1895   | 232 |
| 1280007200 | 1723   | 225 | 1280009580 | 1827   | 229 | 2280001791 | 1827   | 229 | 2280006470 | 1828   | 229 |
| 1280007280 | 1827   | 229 | 1280009580 | 1828   | 229 | 2280001791 | 1828   | 229 | 2280006471 | 1828   | 229 |
| 1280007280 | 1828   | 229 | 1280009581 | 1827   | 229 | 2280001830 | 1828   | 229 | 2280006530 | 1827   | 229 |
| 1280007281 | 1827   | 229 | 1280009581 | 1828   | 229 | 2280001830 | 1831   | 230 | 2280006572 | 1827   | 229 |
| 1280007281 | 1828   | 229 | 1280009582 | 1827   | 229 | 2280002030 | 1828   | 229 | 2280007300 | 1829   | 229 |
| 1280007282 | 1827   | 229 | 1280009582 | 1828   | 229 | 2280002030 | 1830   | 230 | 2280007380 | 1831   | 230 |
| 1280007282 | 1828   | 229 | 1280009970 | 1828   | 229 | 2280002031 | 1828   | 229 | 2280007500 | 1831   | 230 |
| 1280007283 | 1827   | 229 | 1280009971 | 1828   | 229 | 2280002031 | 1830   | 230 | 2280007550 | 1828   | 229 |
| 1280007283 | 1828   | 229 | 2280000120 | 1885   | 232 | 2280002110 | 1827   | 229 | 2280007550 | 1831   | 230 |
| 1280007290 | 1827   | 229 | 2280000270 | 1827   | 229 | 2280002110 | 1828   | 229 | 2280007870 | 1827   | 229 |
| 1280007290 | 1828   | 229 | 2280000270 | 1828   | 229 | 2280002111 | 1827   | 229 | 2280007990 | 1885   | 232 |
| 1280007291 | 1827   | 229 | 2280000271 | 1828   | 229 | 2280002111 | 1828   | 229 | 2280008470 | 1827   | 229 |
| 1280007291 | 1828   | 229 | 2280000271 | 1831   | 230 | 2280002200 | 1831   | 230 | 2280009020 | 1827   | 229 |
| 1280007292 | 1827   | 229 | 2280000281 | 1827   | 229 | 2280002290 | 1828   | 229 | 2280009020 | 1828   | 229 |
| 1280007292 | 1828   | 229 | 2280000281 | 1828   | 229 | 2280002290 | 1829   | 229 | 2280009050 | 1827   | 229 |
| 1280007293 | 1827   | 229 | 2280000282 | 1827   | 229 | 2280002470 | 1827   | 229 | 2280009261 | 1885   | 232 |
| 1280007293 | 1828   | 229 | 2280000282 | 1828   | 229 | 2280002640 | 1885   | 232 | 2280009760 | 1827   | 229 |

| Denso            | Nº ZEN        | Pg.        | Ducellier | Nº ZEN | Pg. | Ducellier    | Nº ZEN        | Pg.        | Femsa       | Nº ZEN        | Pg.        |
|------------------|---------------|------------|-----------|--------|-----|--------------|---------------|------------|-------------|---------------|------------|
| 2800002640       | 1885          | 232        | 532005    | 0189   | 181 | 532008AB     | 0404          | 186        | MTS12P29    | 0120          | 179        |
| 2800007190       | 1885          | 232        | 532007    | 0189   | 181 | 532009AB     | 0404          | 186        | MTS12V13    | 0120          | 179        |
| 281001562A       | 1827          | 229        | 532008    | 0404   | 186 | 532010AB     | 0404          | 186        | MTS12V25    | 0120          | 179        |
| 4280000190       | 1829          | 229        | 532009    | 0404   | 186 | 534004AB     | 0189          | 181        | <b>Fiat</b> | <b>Nº ZEN</b> | <b>Pg.</b> |
| 4280001190       | 1828          | 229        | 532010    | 0404   | 186 | 534005AB     | 0189          | 181        | 587624      | 0035          | 233        |
| 4280001190       | 1829          | 229        | 532018    | 0404   | 186 | 534042AB     | 0574          | 191        | 852962      | 0953          | 205        |
| 4280001660       | 1831          | 230        | 532020    | 0189   | 181 | 534043AB     | 0574          | 191        | 870374      | 0744          | 197        |
| 4280001850       | 1828          | 229        | 532026    | 0189   | 181 | 618078AB     | 0189          | 181        | 4064058     | 0713          | 196        |
| 4280001850       | 1829          | 229        | 533000    | 0189   | 181 | 618358AB     | 0189          | 181        | 4085959     | 0533          | 190        |
| 4280001860       | 1828          | 229        | 533002    | 0189   | 181 | 618482AB     | 0189          | 181        | 4085977     | 0533          | 190        |
| 4280001860       | 1829          | 229        | 533003    | 0189   | 181 | 618484AB     | 0189          | 181        | 4104783     | 0953          | 205        |
| 4280002370       | 1828          | 229        | 533004    | 0189   | 181 | 6203ABCD     | 0244          | 182        | 4117351     | 0768          | 198        |
| 4380000590       | 0809          | 200        | 534003    | 0189   | 181 | 6227ABCD     | 0244          | 182        | 4117464     | 0768          | 198        |
| <b>Deutz</b>     | <b>Nº ZEN</b> | <b>Pg.</b> | 534004    | 0189   | 181 | 6178ABCEf    | 0244          | 182        | 4127580     | 0035          | 233        |
| 1161422          | 0308          | 183        | 534005    | 0189   | 181 | 618077DEF    | 0189          | 181        | 4142222     | 0120          | 179        |
| 1172099          | 0308          | 183        | 534007    | 0189   | 181 | 618091ABC    | 0189          | 181        | 4142223     | 0120          | 179        |
| 1302023          | 0308          | 183        | 534031    | 0574   | 191 | 6189ABCDEF   | 0189          | 181        | 4143828     | 0120          | 179        |
| 13028386         | 1881          | 232        | 534032    | 0574   | 191 | <b>Efel</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | 4152196     | 0120          | 179        |
| B17R24X4         | 0308          | 183        | 534039    | 0574   | 191 | 22202        | 0035          | 233        | 4156064     | 0213          | 181        |
| <b>Dixie</b>     | <b>Nº ZEN</b> | <b>Pg.</b> | 534043    | 0574   | 191 | <b>Facet</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 4162784     | 0213          | 181        |
| S6106            | 9702          | 235        | 534044    | 0574   | 191 | 26211M/T     | 0064          | 177        | 4169095     | 0315          | 183        |
| S80011           | 1548          | 217        | 534047    | 0574   | 191 | <b>Femsa</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 4169096     | 0315          | 183        |
| <b>Dubois</b>    | <b>Nº ZEN</b> | <b>Pg.</b> | 534054    | 0574   | 191 | 259177       | 0297          | 183        | 4169912     | 0608          | 192        |
| 916584           | 9702          | 235        | 534055    | 0574   | 191 | MTD121       | 0713          | 196        | 4172004     | 0608          | 192        |
| <b>Ducellier</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 534057    | 0574   | 191 | MTD129       | 0213          | 181        | 4172113     | 0608          | 192        |
| 6020             | 0463          | 188        | 6190AB    | 0189   | 181 | MTH241       | 0036          | 233        | 4181961     | 0120          | 179        |
| 6035             | 0463          | 188        | 6206AB    | 0244   | 182 | MTH242       | 0036          | 233        | 4187587     | 0608          | 192        |
| 6081             | 0463          | 188        | 6212AB    | 0189   | 181 | MTH244       | 0036          | 233        | 4187590     | 0608          | 192        |
| 6189             | 0189          | 181        | 6220AB    | 0189   | 181 | MTS121       | 0120          | 179        | 4198226     | 0120          | 179        |
| 6190             | 0189          | 181        | 6237AB    | 0189   | 181 | MTV124       | 0451          | 187        | 4198227     | 0120          | 179        |
| 6212             | 0189          | 181        | 6238AB    | 0189   | 181 | MTV126       | 0451          | 187        | 4198600     | 0120          | 179        |
| 6216             | 0189          | 181        | 6246AB    | 0189   | 181 | MTV128       | 0451          | 187        | 4198601     | 0120          | 179        |
| 6220             | 0189          | 181        | 6247AB    | 0189   | 181 | MTA1219      | 0451          | 187        | 4204698     | 0120          | 179        |
| 6226             | 0189          | 181        | 532005A   | 0189   | 181 | MTA1237      | 0451          | 187        | 4204699     | 0120          | 179        |
| 6237             | 0189          | 181        | 532007A   | 0189   | 181 | MTA1238      | 0451          | 187        | 4206634     | 0213          | 181        |
| 6238             | 0189          | 181        | 532017A   | 0244   | 182 | MTA1239      | 0451          | 187        | 4229113     | 0120          | 179        |
| 6242             | 0189          | 181        | 533000A   | 0189   | 181 | MTA1243      | 0451          | 187        | 4229114     | 0120          | 179        |
| 6246             | 0189          | 181        | 533002A   | 0189   | 181 | MTD1214      | 0213          | 181        | 4231018     | 0608          | 192        |
| 6247             | 0189          | 181        | 534002A   | 0189   | 181 | MTD1219      | 0213          | 181        | 4232191     | 0608          | 192        |
| 6020E            | 0463          | 188        | 534003A   | 0189   | 181 | MTD12H5      | 0713          | 196        | 4234741     | 0608          | 192        |
| 6020F            | 0463          | 188        | 534023A   | 0574   | 191 | MTD12H8      | 0213          | 181        | 4269114     | 0608          | 192        |
| 6035F            | 0463          | 188        | 534029A   | 0574   | 191 | MTD12P6      | 0213          | 181        | 4285916     | 0213          | 181        |
| 6081E            | 0463          | 188        | 583008A   | 0189   | 181 | MTD12V9      | 0213          | 181        | 4294494     | 0213          | 181        |
| 6081F            | 0463          | 188        | 618090B   | 0189   | 181 | MTS1222      | 0120          | 179        | 4294495     | 0213          | 181        |
| 6128A            | 0183          | 180        | 6183CFG   | 0244   | 182 | MTS1223      | 0120          | 179        | 4392461     | 0857          | 202        |
| 6144A            | 0183          | 180        | 618565A   | 0189   | 181 | MTS1229      | 0120          | 179        | 4470377     | 0111          | 179        |
| 6221A            | 0404          | 186        | 6185ABC   | 0245   | 182 | MTS1234      | 0120          | 179        | 4470378     | 0389          | 185        |
| 6222A            | 0189          | 181        | 618795A   | 0189   | 181 | MTS1239      | 0120          | 179        | 4474599     | 0213          | 181        |
| 6226A            | 0189          | 181        | 6216ABC   | 0189   | 181 | MTS1242      | 0120          | 179        | 4474714     | 0213          | 181        |
| 6231C            | 0404          | 186        | 6219ABC   | 0245   | 182 | MTS1247      | 0120          | 179        | 4474746     | 0213          | 181        |
| 6240A            | 0189          | 181        | 6224BCD   | 0244   | 182 | MTS1248      | 0120          | 179        | 4474747     | 0213          | 181        |
| 6242A            | 0189          | 181        | 6231ABC   | 0244   | 182 | MTS12P2      | 0120          | 179        | 4474762     | 0213          | 181        |
| 532002           | 0404          | 186        | 532000AB  | 0244   | 182 | MTA12P19     | 0451          | 187        | 4474805     | 0120          | 179        |
| 532003           | 0404          | 186        | 532000AB  | 0404   | 186 | MTS12P19     | 0120          | 179        | 4474917     | 0120          | 179        |
| 532004           | 0404          | 186        | 532001AB  | 0244   | 182 | MTS12P20     | 0120          | 179        | 4474976     | 0213          | 181        |

| Fiat     | Nº ZEN | Pg. | Fiat        | Nº ZEN        | Pg.        | Ford       | Nº ZEN | Pg. | Ford       | Nº ZEN | Pg. |
|----------|--------|-----|-------------|---------------|------------|------------|--------|-----|------------|--------|-----|
| 4474979  | 0213   | 181 | 46522234    | 1882          | 232        | SAE728     | 0545   | 190 | C5TZ11002C | 0110   | 179 |
| 4475025  | 0213   | 181 | 46740241    | 1169          | 212        | SAE763     | 0636   | 193 | C5TZ11002C | 9074   | 234 |
| 4475130  | 0213   | 181 | 46830212    | 1882          | 232        | SAE770     | 0596   | 192 | C6FF11001A | 0135   | 180 |
| 4682999  | 0315   | 183 | 51888915    | 1666          | 221        | SAE781     | 0596   | 192 | C6TF11000B | 0093   | 178 |
| 4692477  | 0407   | 186 | 51899848    | 1779          | 227        | SAE782     | 0636   | 193 | C6TF11000B | 0568   | 191 |
| 4699704  | 0407   | 186 | 51997820    | 1879          | 231        | SAI761     | 0450   | 187 | C6TF11001A | 0110   | 179 |
| 4699705  | 0407   | 186 | 53100008    | 0806          | 200        | SAI772     | 0450   | 187 | C6TF11001A | 9074   | 234 |
| 4701920  | 0407   | 186 | 55193356    | 1779          | 227        | SAI773     | 0450   | 187 | C6TZ11001A | 0093   | 178 |
| 4702248  | 0407   | 186 | 55350543    | 0756          | 197        | SAI780     | 0450   | 187 | C6TZ11001A | 0568   | 191 |
| 4706008  | 0407   | 186 | 55352105    | 0756          | 197        | SAI783     | 0450   | 187 | C6TZ11002C | 0093   | 178 |
| 4706931  | 0407   | 186 | 61227993    | 0087          | 233        | SAI788     | 0450   | 187 | C6TZ11002C | 0568   | 191 |
| 4710224  | 0407   | 186 | 63521093    | 1650          | 221        | 1057661    | 13268  | 237 | C7TF11000A | 0093   | 178 |
| 4711699  | 0407   | 186 | 82374433    | 0389          | 185        | 1076141    | 13268  | 237 | C7TF11000A | 0568   | 191 |
| 4713805  | 0407   | 186 | 131955508   | 1025          | 208        | 1197912    | 13268  | 237 | C8TF11000B | 0182   | 180 |
| 4713806  | 0407   | 186 | 134705880   | 1840          | 230        | 1209193    | 13268  | 237 | C8TZ11002A | 0182   | 180 |
| 4713807  | 0407   | 186 | 1347058080  | 1650          | 221        | 1469721    | 1714   | 224 | C8ZF11000C | 0097   | 178 |
| 4737754  | 0407   | 186 | 68073160AA  | 0806          | 200        | 2900550    | 0032   | 233 | C8ZF11000C | 9028   | 233 |
| 4737755  | 0407   | 186 | <b>Ford</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 2900557    | 0032   | 233 | C9FF11001B | 0135   | 180 |
| 4737756  | 0407   | 186 | 26211       | 0064          | 177        | 2900726    | 0032   | 233 | C9HZ11000C | 0110   | 179 |
| 4741699  | 0407   | 186 | 26291       | 0064          | 177        | 2900804    | 0032   | 233 | C9HZ11000C | 9074   | 234 |
| 4745849  | 0407   | 186 | SA769       | 1192          | 213        | SAE674A    | 0184   | 180 | D0DF11001A | 0205   | 181 |
| 4745930  | 0407   | 186 | SA769       | 1224          | 214        | SAE715A    | 0342   | 184 | D0FF11001B | 0135   | 180 |
| 4752212  | 0407   | 186 | SA771       | 1192          | 213        | SAE716A    | 0342   | 184 | D0FF11001C | 0135   | 180 |
| 4752403  | 0407   | 186 | SA771       | 1224          | 214        | SAE761A    | 0636   | 193 | D1FF11001A | 0205   | 181 |
| 4752912  | 0407   | 186 | SA774       | 1192          | 213        | 868218400  | 0545   | 190 | D2TZ11002A | 0184   | 180 |
| 4759929  | 0407   | 186 | SA774       | 1224          | 214        | 96FB11000  | 0938   | 205 | D2TZ11002A | 0184   | 180 |
| 4988513  | 0561   | 191 | SA775       | 1192          | 213        | 98VB11000  | 0907   | 203 | D37Z11002A | 0184   | 180 |
| 5933930  | 0395   | 186 | SA775       | 1224          | 214        | B5C11002A  | 0032   | 233 | D3OZ11002A | 0097   | 178 |
| 5972684  | 0408   | 186 | SA776       | 1192          | 213        | B65818400  | 0450   | 187 | D3OZ11002A | 9028   | 233 |
| 5984563  | 0631   | 193 | SA776       | 1224          | 214        | C6FF11001  | 0135   | 180 | D3TF11000A | 0110   | 179 |
| 5985182  | 0631   | 193 | SA777       | 1192          | 213        | FOO11002A  | 1192   | 213 | D3TF11000A | 9074   | 234 |
| 5991832  | 0394   | 185 | SA777       | 1224          | 214        | FOO11002A  | 1224   | 214 | D4TZ11002E | 0097   | 178 |
| 5996771  | 0395   | 186 | SA779       | 1193          | 213        | FAJ11001B  | 1216   | 233 | D4TZ11002E | 9028   | 233 |
| 5997307  | 0857   | 202 | SA779       | 1225          | 214        | FAN11001A  | 1216   | 233 | D77Z11002A | 0342   | 184 |
| 5997309  | 0857   | 202 | SA784       | 1192          | 213        | FAP11001A  | 1216   | 233 | D77Z11002B | 0342   | 184 |
| 7501995  | 0111   | 179 | SA784       | 1224          | 214        | FAS11001A  | 1216   | 233 | D97Z11002A | 0545   | 190 |
| 7533231  | 0769   | 198 | SA789       | 1199          | 213        | FE1H18400  | 0596   | 192 | E0HZ11002A | 0182   | 180 |
| 7580192  | 0630   | 193 | SA789       | 1226          | 214        | 8G1Z11002A | 1677   | 222 | E17Z11002B | 0342   | 184 |
| 7772459  | 0779   | 198 | SA790       | 1192          | 213        | 8G1Z11002B | 1677   | 222 | E17Z11002C | 0342   | 184 |
| 7772462  | 0779   | 198 | SA790       | 1224          | 214        | B35918400A | 0450   | 187 | E1TF11001B | 0053   | 177 |
| 7785949  | 0779   | 198 | SA800       | 1192          | 213        | B63018400A | 0450   | 187 | E1TZ11002A | 0053   | 177 |
| 7796598  | 0779   | 198 | SA800       | 1224          | 214        | B67618400A | 0450   | 187 | E1TZ11002B | 0053   | 177 |
| 8961386  | 0035   | 233 | SA807       | 1192          | 213        | B8GY11002A | 0636   | 193 | E1TZ11002C | 0053   | 177 |
| 8962211  | 0035   | 233 | SA807       | 1224          | 214        | C3TF11000A | 0110   | 179 | E22E18400A | 0596   | 192 |
| 8962232  | 0035   | 233 | SA822       | 1199          | 213        | C3TF11000A | 9074   | 234 | E3FZ11002A | 0455   | 188 |
| MSN2026  | 1650   | 221 | SA822       | 1226          | 214        | C3TZ11001A | 0110   | 179 | E57Z11002A | 1577   | 218 |
| 42522942 | 0308   | 183 | FS10B1      | 1686          | 223        | C3TZ11001A | 9074   | 234 | E5TZ11002A | 1577   | 218 |
| 46417006 | 0779   | 198 | SA739A      | 0670          | 195        | C4DZ11001A | 0205   | 181 | E5TZ11002B | 0670   | 195 |
| 46429594 | 0779   | 198 | SA739B      | 0669          | 194        | C4DZ11001B | 0205   | 181 | E6FZ11002A | 0455   | 188 |
| 46451529 | 1169   | 212 | SA769A      | 1192          | 213        | C4TF11000A | 0110   | 179 | E8BZ11002A | 0636   | 193 |
| 46454895 | 1630   | 220 | SA769A      | 1224          | 214        | C4TF11000A | 9074   | 234 | E8TZ11002A | 0669   | 194 |
| 46463250 | 1630   | 220 | SA771A      | 1192          | 213        | C4TZ11002A | 0110   | 179 | E8TZ11002A | 0670   | 195 |
| 46465475 | 0779   | 198 | SA771A      | 1224          | 214        | C4TZ11002A | 9074   | 234 | E90Y11002A | 1192   | 213 |
| 46468696 | 0998   | 207 | SAE715      | 0342          | 184        | C5TF11000B | 0093   | 178 | E90Y11002A | 1224   | 214 |
| 46473784 | 1033   | 208 | SAE716      | 0342          | 184        | C5TF11000B | 0568   | 191 | E90Y11002B | 1192   | 213 |

| Ford        | Nº ZEN | Pg. | Ford        | Nº ZEN | Pg. | Ford        | Nº ZEN | Pg. | Ford                   | Nº ZEN        | Pg.        |
|-------------|--------|-----|-------------|--------|-----|-------------|--------|-----|------------------------|---------------|------------|
| E90Y11002B  | 1224   | 214 | 3M5T11000DC | 1714   | 224 | AC1T11000AA | 1874   | 231 | F07U11000AA            | 1192          | 213        |
| E92Z11002A  | 0596   | 192 | 3S4T11000AB | 1585   | 218 | BB5T11000AA | 1871   | 231 | F07U11000AA            | 1224          | 214        |
| E9BZ11002A  | 0450   | 187 | 3S4T11000AC | 1585   | 218 | BC4511001BA | 1743   | 225 | F07U11000BA            | 1192          | 213        |
| E9JY11002A  | 0450   | 187 | 3S4Z11002AB | 1585   | 218 | CC1T11000AB | 1874   | 231 | F07U11000BA            | 1224          | 214        |
| E9SZ11002A  | 1192   | 213 | 3S6511000AA | 0965   | 206 | CC1T11000BA | 1874   | 231 | FOCF11000AA            | 1193          | 213        |
| E9SZ11002A  | 1224   | 214 | 3S6511000BA | 1533   | 217 | CC1T11000BB | 1874   | 231 | FOCF11000AA            | 1225          | 214        |
| E9SZ11002B  | 1192   | 213 | 3S6511000CA | 0965   | 206 | CN1511000CA | 1791   | 228 | FOCF11000BA            | 1192          | 213        |
| E9SZ11002B  | 1224   | 214 | 3S7T11000AD | 13268  | 237 | D1FF11001AA | 0205   | 181 | FOCF11000BA            | 1224          | 214        |
| F02Z11002A  | 1192   | 213 | 4M5T11000FA | 1714   | 224 | D2TZ110002A | 0184   | 180 | FOCU11000AA            | 1193          | 213        |
| F02Z11002A  | 1224   | 214 | 4M5T11000FB | 1714   | 224 | D3TF11000CA | 0097   | 178 | FOCU11000AA            | 1225          | 214        |
| F02Z11002B  | 0596   | 192 | 4M5T11000FC | 1714   | 224 | D3TF11000CA | 9028   | 233 | FOCU11000BA            | 1192          | 213        |
| F0BY11002B  | 0450   | 187 | 4M5T11000FD | 1714   | 224 | D3TF11001CA | 0097   | 178 | FOCU11000BA            | 1224          | 214        |
| F0BZ11002A  | 0636   | 193 | 5N1511000AA | 1482   | 216 | D3TF11001CA | 9028   | 233 | XC3511000CA            | 1684          | 222        |
| F0BZ11002B  | 0450   | 187 | 5N1511000AB | 1482   | 216 | E0HT11000AA | 0182   | 180 | XC3U11000CA            | 1684          | 222        |
| F0JY11002A  | 0450   | 187 | 5S6511000AA | 1533   | 217 | E0HT11000AB | 0182   | 180 | XS6U11000AC            | 1228          | 214        |
| F0OY11002A  | 1192   | 213 | 6E5T11000AB | 1764   | 226 | E1TF11001CA | 0053   | 177 | YS4U11000AA            | 1820          | 229        |
| F0OY11002A  | 1224   | 214 | 6G9N11000FA | 1714   | 224 | E3B511000AA | 1825   | 229 | YS4U11000AB            | 1820          | 229        |
| F0TZ11002A  | 1192   | 213 | 6S4T11000AA | 1871   | 231 | E57A11000AA | 1577   | 218 | YS4U11000BA            | 1820          | 229        |
| F0TZ11002A  | 1224   | 214 | 6S6519000AA | 1533   | 217 | E5TF11000AA | 0670   | 195 | 98VB11000B3A           | 0907          | 203        |
| F12Z11002A  | 0596   | 192 | 7C3511001AA | 1675   | 222 | E6EF11001AA | 0455   | 188 | FOCF-11000AA           | 1193          | 213        |
| F13Z11002A  | 1192   | 213 | 7C3T11000AA | 1676   | 222 | E8TF11000AA | 0669   | 194 | FOCU-11000AA           | 1193          | 213        |
| F13Z11002A  | 1224   | 214 | 7C3T11000AB | 1676   | 222 | E8TF11000AA | 0670   | 195 | DU2Z11V002BRM          | 1871          | 231        |
| F1JY11002A  | 0450   | 187 | 7C3Z11002AA | 1676   | 222 | E90F11000BA | 1192   | 213 | DU2Z11V002DRM          | 1871          | 231        |
| F22518400A  | 0596   | 192 | 7S5511000AA | 1686   | 223 | E90F11000BA | 1224   | 214 | VP8G1U11350AA          | 1677          | 222        |
| F23Z11002A  | 1192   | 213 | 7S5511000AB | 1686   | 223 | E9SF11000AA | 1192   | 213 | 6S4Z11V002AARM         | 1871          | 231        |
| F23Z11002A  | 1224   | 214 | 8G1T11000AA | 1677   | 222 | E9SF11000AA | 1224   | 214 | DU2Z11V002FARM         | 1871          | 231        |
| F23Z11002B  | 1192   | 213 | 8G1T11000AB | 1677   | 222 | E9SF11000BA | 1192   | 213 | 96BB11000AA7119        | 12717         | 240        |
| F23Z11002B  | 1224   | 214 | 8S4T11000AA | 1871   | 231 | E9SF11000BA | 1224   | 214 | <b>Foton</b>           | <b>Nº ZEN</b> | <b>Pg.</b> |
| F2DZ11002A  | 1192   | 213 | 8V2111000BC | 1756   | 226 | EB3511000AA | 1825   | 229 | QD263                  | 1711          | 224        |
| F2DZ11002A  | 1224   | 214 | 8V2111000BD | 1756   | 226 | EC3511001BA | 1845   | 230 | <b>General Motors/</b> | <b>Nº ZEN</b> | <b>Pg.</b> |
| F2TZ11002A  | 1192   | 213 | 8V2111000BE | 1756   | 226 | F02U11000AA | 1192   | 213 | 9025295                | 1848          | 230        |
| F2TZ11002A  | 1224   | 214 | 93BB11000HB | 1208   | 213 | F02U11000AA | 1224   | 214 | 30001695               | 0450          | 187        |
| F2VY11002A  | 1199   | 213 | 93BB11000JB | 1208   | 213 | F00U11000AA | 1192   | 213 | 30001696               | 0595          | 192        |
| F2VY11002A  | 1226   | 214 | 95FB11000BC | 0975   | 206 | F00U11000AA | 1224   | 214 | 55564374               | 1776          | 227        |
| F3DZ11002A  | 1192   | 213 | 95FB11000BD | 0975   | 206 | F13U11000AA | 1192   | 213 | 88969483               | 1841          | 230        |
| F3DZ11002A  | 1224   | 214 | 95FB11000BG | 0975   | 206 | F13U11000AA | 1224   | 214 | 93260358               | 1064          | 209        |
| F3LY11002A  | 1199   | 213 | 96BB11000AA | 1208   | 213 | F23U11000AA | 1192   | 213 | 93297652               | 10003         | 232        |
| F3LY11002A  | 1226   | 214 | 96FB11000KB | 0938   | 205 | F23U11000AA | 1224   | 214 | 93297652               | 12720         | 240        |
| F3RZ11002A  | 1208   | 213 | 96FB11000KC | 0938   | 205 | F23U11000BC | 1192   | 213 | 93297653               | 10003         | 232        |
| F3RZ11002B  | 1208   | 213 | 96FB11000LB | 0938   | 205 | F23U11000BC | 1224   | 214 | 93297653               | 12720         | 240        |
| F3RZ11002B  | 1228   | 214 | 96FB11000LC | 0938   | 205 | F2DU11000AA | 1192   | 213 | 93303527               | 10003         | 232        |
| F7GZ11002A  | 0450   | 187 | 97BB11000BB | 1208   | 213 | F2DU11000AA | 1224   | 214 | 93303527               | 12720         | 240        |
| F9JY11002A  | 0450   | 187 | 97BB11000BC | 1208   | 213 | F2DU11000BA | 1192   | 213 | 93304772               | 10003         | 232        |
| FOFZ11002A  | 1192   | 213 | 97KB11000AA | 1156   | 211 | F2DU11000BA | 1224   | 214 | 93304772               | 12720         | 240        |
| FOFZ11002A  | 1224   | 214 | 97KB11000AB | 1156   | 211 | F2TU11000AA | 1192   | 213 | 93327502               | 10003         | 232        |
| FOTZ11002A  | 1192   | 213 | 97KB11000AC | 1156   | 211 | F2TU11000AA | 1224   | 214 | 93327502               | 12720         | 240        |
| FOTZ11002A  | 1224   | 214 | 97VB11000AB | 0907   | 203 | F3DU11000AA | 1192   | 213 | 93374341               | 10003         | 232        |
| FOTZ11002B  | 1192   | 213 | 98AB11000BB | 1820   | 229 | F3DU11000AA | 1224   | 214 | 93374341               | 12720         | 240        |
| FOTZ11002B  | 1224   | 214 | 98AB11000BC | 1820   | 229 | F3LU11000AA | 1199   | 213 | 93374342               | 10003         | 232        |
| 1F1U11000AA | 13268  | 237 | 98AB11000BD | 1820   | 229 | F3LU11000AA | 1226   | 214 | 93374342               | 12720         | 240        |
| 1F1Z11002AA | 13268  | 237 | 98AB11000CB | 1820   | 229 | F3TU11000AA | 0670   | 195 | 93384398               | 10003         | 232        |
| 2C3511001BA | 1684   | 222 | 98AB11000CC | 1820   | 229 | F81U11000AC | 0959   | 205 | 93384398               | 12720         | 240        |
| 3M5T11000CC | 1714   | 224 | 98AB11000CD | 1820   | 229 | F87U11000DD | 1217   | 214 | 94021044               | 0141          | 180        |
| 3M5T11000CD | 1714   | 224 | AB3911000AA | 1807   | 228 | FO2F11000AA | 1192   | 213 | 94022494               | 0141          | 180        |
| 3M5T11000CE | 1714   | 224 | AB3911000BA | 1807   | 228 | FO2F11000AA | 1224   | 214 | 94022494               | 0351          | 185        |

| General Motors/ | Nº ZEN | Pg. | Hitachi | Nº ZEN | Pg. | Hitachi | Nº ZEN | Pg. | Hitachi | Nº ZEN | Pg. |
|-----------------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|
| 94024438        | 0141   | 180 | S1362   | 0737   | 196 | S13112  | 1861   | 231 | 5114244 | 0691   | 195 |
| 96058456        | 0617   | 192 | S1363   | 0737   | 196 | S13113  | 1861   | 231 | 5114417 | 0691   | 195 |
| 96058457        | 0617   | 192 | S1363   | 9488   | 234 | S13114  | 1861   | 231 | 5114440 | 0793   | 199 |
| 96064782        | 0617   | 192 | S1365   | 0790   | 199 | S13115  | 0737   | 196 | 5114440 | 1207   | 213 |
| 96064783        | 0617   | 192 | S1369   | 0790   | 199 | S13115  | 9488   | 234 | 5114486 | 0793   | 199 |
| Harley Davidson | Nº ZEN | Pg. | S1369   | 9527   | 235 | S13121  | 0737   | 196 | 5114486 | 1207   | 213 |
| 3145564         | 0898   | 203 | S1370   | 0737   | 196 | S13121  | 9488   | 234 | 525131A | 0580   | 191 |
| 3145564A        | 0898   | 203 | S1370   | 9488   | 234 | S13125  | 1860   | 231 | 525155D | 0580   | 191 |
| Hino            | Nº ZEN | Pg. | S1381   | 0790   | 199 | S13126  | 1862   | 231 | S10828H | 1191   | 213 |
| 281001961       | 1827   | 229 | S1381   | 9527   | 235 | S1333A  | 0376   | 185 | S10861F | 0536   | 190 |
| 281001561A      | 1827   | 229 | S1382   | 0737   | 196 | S1333B  | 0376   | 185 | S114100 | 0141   | 180 |
| 281001562A      | 1827   | 229 | S1382   | 9488   | 234 | S1334A  | 0448   | 187 | S114103 | 0141   | 180 |
| 281001562B      | 1827   | 229 | S1383   | 0737   | 196 | S1340A  | 0448   | 187 | S114108 | 0141   | 180 |
| 281001930A      | 1827   | 229 | S1383   | 9488   | 234 | S13443  | 0448   | 187 | S114118 | 0141   | 180 |
| 281001931A      | 1827   | 229 | S1391   | 0844   | 201 | S1345A  | 0448   | 187 | S114121 | 0141   | 180 |
| 281001960A      | 1827   | 229 | S1391   | 9566   | 235 | S1345B  | 0448   | 187 | S114122 | 0141   | 180 |
| 281001961A      | 1827   | 229 | S1391   | 9702   | 235 | S1346A  | 0448   | 187 | S114126 | 0351   | 185 |
| 281001961B      | 1827   | 229 | S1403   | 1861   | 231 | S1347A  | 0790   | 199 | S114131 | 0141   | 180 |
| Hitachi         | Nº ZEN | Pg. | S2413   | 1858   | 231 | S1350A  | 0790   | 199 | S114133 | 0141   | 180 |
| 51279           | 0785   | 199 | 51277A  | 0785   | 199 | S1356A  | 0790   | 199 | S114134 | 0141   | 180 |
| 51337           | 0785   | 199 | 51341A  | 0785   | 199 | S1361A  | 0539   | 190 | S114136 | 0141   | 180 |
| 51341           | 0785   | 199 | 51384B  | 0793   | 199 | S1362A  | 0737   | 196 | S114140 | 0349   | 185 |
| 51389           | 0793   | 199 | 51384B  | 1207   | 213 | S1362B  | 0737   | 196 | S114141 | 0349   | 185 |
| 51389           | 1207   | 213 | S10863  | 0349   | 185 | S1362B  | 9488   | 234 | S114143 | 0141   | 180 |
| S1224           | 0376   | 185 | S10866  | 0536   | 190 | S1362C  | 0737   | 196 | S114149 | 0349   | 185 |
| S1227           | 0376   | 185 | S10889  | 0349   | 185 | S1362C  | 9488   | 234 | S114150 | 0141   | 180 |
| S1234           | 0448   | 187 | S11423  | 0141   | 180 | S1366A  | 0790   | 199 | S114156 | 0141   | 180 |
| S1246           | 0376   | 185 | S11471  | 0141   | 180 | S1366A  | 9527   | 235 | S114160 | 0349   | 185 |
| S1248           | 0376   | 185 | S11472  | 0141   | 180 | S1370A  | 0737   | 196 | S114161 | 0382   | 185 |
| S1256           | 0376   | 185 | S11487  | 0141   | 180 | S1370A  | 9488   | 234 | S114162 | 0349   | 185 |
| S1258           | 0376   | 185 | S11488  | 0141   | 180 | S1382A  | 0737   | 196 | S114163 | 0349   | 185 |
| S1259           | 0376   | 185 | S11491  | 0141   | 180 | S1382A  | 9488   | 234 | S114164 | 0349   | 185 |
| S1261           | 0376   | 185 | S11492  | 0141   | 180 | S1391A  | 9702   | 235 | S114170 | 0351   | 185 |
| S1263           | 0448   | 187 | S1218D  | 0448   | 187 | S1392A  | 9527   | 235 | S114171 | 0351   | 185 |
| S1264           | 0448   | 187 | S1219C  | 0448   | 187 | S14455  | 0141   | 180 | S114172 | 0351   | 185 |
| S1268           | 0448   | 187 | S1219K  | 0448   | 187 | S2403A  | 1858   | 231 | S114173 | 0351   | 185 |
| S1282           | 0376   | 185 | S1224A  | 0376   | 185 | S2403B  | 1858   | 231 | S114174 | 0351   | 185 |
| S1284           | 0539   | 190 | S1234A  | 0448   | 187 | S2403C  | 1858   | 231 | S114177 | 0351   | 185 |
| S1288           | 0376   | 185 | S1241A  | 0376   | 185 | S25106  | 0448   | 187 | S114180 | 0351   | 185 |
| S1306           | 0376   | 185 | S1263A  | 0448   | 187 | S25120  | 1858   | 231 | S114181 | 0351   | 185 |
| S1323           | 0448   | 187 | S1263B  | 0448   | 187 | S25123  | 0448   | 187 | S114182 | 0351   | 185 |
| S1325           | 0376   | 185 | S1263C  | 0448   | 187 | S25129  | 0448   | 187 | S114184 | 0429   | 187 |
| S1328           | 0376   | 185 | S1268A  | 0448   | 187 | S25132  | 0448   | 187 | S114192 | 0141   | 180 |
| S1331           | 0376   | 185 | S1268B  | 0448   | 187 | S25141  | 0448   | 187 | S114197 | 0351   | 185 |
| S1333           | 0376   | 185 | S1268D  | 0448   | 187 | S25152  | 0448   | 187 | S114202 | 0351   | 185 |
| S1334           | 0448   | 187 | S1306A  | 0376   | 185 | S25156  | 0901   | 203 | S114210 | 0349   | 185 |
| S1336           | 0448   | 187 | S13100  | 0737   | 196 | S25160  | 0901   | 203 | S114211 | 0349   | 185 |
| S1338           | 0448   | 187 | S13100  | 9488   | 234 | S25161  | 1858   | 231 | S114218 | 0351   | 185 |
| S1340           | 0448   | 187 | S13101  | 9527   | 235 | S25162  | 0901   | 203 | S114227 | 0349   | 185 |
| S1343           | 0448   | 187 | S13102  | 0790   | 199 | S25501  | 1865   | 231 | S114229 | 0351   | 185 |
| S1345           | 0448   | 187 | S13102  | 9527   | 235 | 5114146 | 0691   | 195 | S11423K | 0141   | 180 |
| S1346           | 0448   | 187 | S13104  | 0790   | 199 | 5114219 | 0644   | 194 | S114240 | 0351   | 185 |
| S1347           | 0790   | 199 | S13104  | 9527   | 235 | 5114230 | 0644   | 194 | S114247 | 0351   | 185 |
| S1350           | 0790   | 199 | S13106  | 1862   | 231 | 5114232 | 0537   | 190 | S114248 | 0351   | 185 |
| S1356           | 0790   | 199 | S13111  | 1861   | 231 | 5114235 | 0644   | 194 | S114252 | 0791   | 199 |

| Hitachi | Nº ZEN | Pg. | Hitachi | Nº ZEN | Pg. | Hitachi  | Nº ZEN | Pg. | Hitachi  | Nº ZEN | Pg. |
|---------|--------|-----|---------|--------|-----|----------|--------|-----|----------|--------|-----|
| S114253 | 0737   | 196 | S114418 | 0517   | 189 | S114907  | 1779   | 227 | S114172A | 0351   | 185 |
| S114253 | 9488   | 234 | S114419 | 0517   | 189 | S11491K  | 0141   | 180 | S114172D | 0351   | 185 |
| S114254 | 0737   | 196 | S114424 | 0517   | 189 | S11492K  | 0141   | 180 | S114172E | 0351   | 185 |
| S114254 | 9488   | 234 | S114426 | 0499   | 189 | S12119C  | 0448   | 187 | S114173B | 0351   | 185 |
| S114255 | 0737   | 196 | S114429 | 0737   | 196 | S1219KA  | 0448   | 187 | S114173E | 0351   | 185 |
| S114255 | 9488   | 234 | S114429 | 9488   | 234 | S1219KB  | 0448   | 187 | S114173F | 0351   | 185 |
| S114258 | 0737   | 196 | S114435 | 0517   | 189 | S13105A  | 0790   | 199 | S114180F | 0351   | 185 |
| S114258 | 9488   | 234 | S114446 | 0737   | 196 | S13105A  | 9527   | 235 | S114180M | 0351   | 185 |
| S114264 | 0737   | 196 | S114446 | 9488   | 234 | S13106B  | 1862   | 231 | S114182G | 0351   | 185 |
| S114265 | 0737   | 196 | S114449 | 0737   | 196 | S13666A  | 0790   | 199 | S114202A | 0351   | 185 |
| S114265 | 9488   | 234 | S114453 | 0737   | 196 | S14413C  | 1780   | 227 | S114218A | 0351   | 185 |
| S114268 | 0737   | 196 | S114453 | 9488   | 234 | S144192  | 0141   | 180 | S114229E | 0351   | 185 |
| S114268 | 9488   | 234 | S114454 | 0737   | 196 | S144301  | 0351   | 185 | S114229F | 0351   | 185 |
| S114271 | 0349   | 185 | S114454 | 9488   | 234 | S25110G  | 0901   | 203 | S114247A | 0351   | 185 |
| S114290 | 0737   | 196 | S114457 | 0737   | 196 | S25110L  | 0901   | 203 | S114247C | 0351   | 185 |
| S114290 | 9488   | 234 | S114457 | 9488   | 234 | S25120A  | 1858   | 231 | S114252A | 0791   | 199 |
| S114295 | 0351   | 185 | S114458 | 0737   | 196 | S25125A  | 0901   | 203 | S114252C | 0791   | 199 |
| S114296 | 0737   | 196 | S114458 | 9488   | 234 | S25125B  | 0901   | 203 | S114252E | 0791   | 199 |
| S114296 | 9488   | 234 | S114471 | 9527   | 235 | S25158A  | 0901   | 203 | S114252F | 0791   | 199 |
| S114298 | 0351   | 185 | S114472 | 9527   | 235 | S25158B  | 0901   | 203 | S114252F | 9528   | 235 |
| S114301 | 0351   | 185 | S114474 | 9488   | 234 | S25168A  | 1865   | 231 | S114253A | 0737   | 196 |
| S114313 | 0351   | 185 | S114476 | 9488   | 234 | S25515A  | 1865   | 231 | S114253A | 9488   | 234 |
| S114315 | 0517   | 189 | S114477 | 1860   | 231 | S114475A | 0793   | 199 | S114253B | 0737   | 196 |
| S114316 | 0517   | 189 | S114480 | 0737   | 196 | S114475A | 1207   | 213 | S114253B | 9488   | 234 |
| S114317 | 0554   | 190 | S114482 | 9527   | 235 | S114-393 | 9528   | 235 | S114254A | 0737   | 196 |
| S114318 | 0554   | 190 | S114505 | 0634   | 193 | S114-424 | 0517   | 189 | S114254A | 9488   | 234 |
| S114319 | 0499   | 189 | S114509 | 0634   | 193 | S114-478 | 9528   | 235 | S114254C | 0737   | 196 |
| S114320 | 0499   | 189 | S114516 | 0687   | 195 | S114-617 | 0517   | 189 | S114254C | 9488   | 234 |
| S114322 | 0791   | 199 | S114526 | 0634   | 193 | S114-769 | 0517   | 189 | S114254D | 0737   | 196 |
| S114343 | 0351   | 185 | S114527 | 0634   | 193 | S114103K | 0141   | 180 | S114254D | 9488   | 234 |
| S114344 | 0737   | 196 | S114528 | 0687   | 195 | S114103L | 0141   | 180 | S114255A | 0737   | 196 |
| S114344 | 9488   | 234 | S114556 | 0517   | 189 | S114103M | 0141   | 180 | S114255A | 9488   | 234 |
| S114345 | 0554   | 190 | S114568 | 0517   | 189 | S114103N | 0141   | 180 | S1142564 | 9488   | 234 |
| S114348 | 0499   | 189 | S114603 | 0499   | 189 | S114103P | 0141   | 180 | S114258A | 0737   | 196 |
| S114357 | 0790   | 199 | S114604 | 0499   | 189 | S114108L | 0141   | 180 | S114258A | 9488   | 234 |
| S114362 | 0517   | 189 | S114607 | 0499   | 189 | S114121N | 0141   | 180 | S114258B | 0737   | 196 |
| S114364 | 0517   | 189 | S114608 | 0351   | 185 | S114122N | 0141   | 180 | S114258C | 0737   | 196 |
| S114367 | 9527   | 235 | S114617 | 0517   | 189 | S114126L | 0351   | 185 | S114258C | 9488   | 234 |
| S114374 | 0737   | 196 | S114630 | 0517   | 189 | S114126M | 0351   | 185 | S114264A | 0737   | 196 |
| S114374 | 9488   | 234 | S114750 | 1020   | 207 | S114160A | 0349   | 185 | S114264A | 9488   | 234 |
| S114376 | 0499   | 189 | S114754 | 1021   | 208 | S114160B | 0349   | 185 | S114268A | 0737   | 196 |
| S114377 | 0554   | 190 | S114769 | 0517   | 189 | S114160D | 0349   | 185 | S114268A | 9488   | 234 |
| S114378 | 0554   | 190 | S114800 | 1020   | 207 | S114160E | 0349   | 185 | S1142900 | 0737   | 196 |
| S114381 | 0351   | 185 | S114808 | 1556   | 218 | S114160F | 0349   | 185 | S114290A | 0737   | 196 |
| S114382 | 0351   | 185 | S114815 | 1556   | 218 | S114161B | 0382   | 185 | S114290A | 9488   | 234 |
| S114385 | 0832   | 201 | S114816 | 1020   | 207 | S114161E | 0382   | 185 | S114290B | 0737   | 196 |
| S114387 | 0832   | 201 | S114851 | 1860   | 231 | S114161F | 0382   | 185 | S114290B | 9488   | 234 |
| S114389 | 0499   | 189 | S114875 | 1017   | 207 | S114162C | 0349   | 185 | S114296A | 0737   | 196 |
| S114390 | 0499   | 189 | S11487L | 0141   | 180 | S114162D | 0349   | 185 | S114296A | 9488   | 234 |
| S114391 | 0499   | 189 | S11487M | 0141   | 180 | S114163B | 0349   | 185 | S114317A | 0554   | 190 |
| S114393 | 0791   | 199 | S11487P | 0141   | 180 | S114163E | 0349   | 185 | S114318A | 0554   | 190 |
| S114393 | 9528   | 235 | S114883 | 1556   | 218 | S114170B | 0351   | 185 | S114320A | 0499   | 189 |
| S114396 | 0832   | 201 | S114884 | 1556   | 218 | S114170E | 0351   | 185 | S114322A | 0791   | 199 |
| S114412 | 0832   | 201 | S114905 | 1779   | 227 | S114171A | 0351   | 185 | S114322A | 9528   | 235 |
| S114413 | 0499   | 189 | S114906 | 1779   | 227 | S114171D | 0351   | 185 | S114345A | 0554   | 190 |

| Hitachi   | Nº ZEN | Pg. | Hitachi        | Nº ZEN        | Pg.        | Honda                 | Nº ZEN        | Pg.        | Iskra   | Nº ZEN | Pg. |
|-----------|--------|-----|----------------|---------------|------------|-----------------------|---------------|------------|---------|--------|-----|
| S114345B  | 0554   | 190 | S1143766B      | 0499          | 189        | 31200PK2026           | 9350          | 234        | AZJ320  | 1600   | 219 |
| S114348A  | 0499   | 189 | S144-617A      | 0517          | 189        | 31200PK2953           | 9350          | 234        | IS1064  | 1701   | 223 |
| S114357A  | 0790   | 199 | 5811001921     | 0832          | 201        | 31200PK2955           | 9350          | 234        | IS1165  | 1699   | 223 |
| S114357B  | 0790   | 199 | 5811002150     | 0832          | 201        | 31200PLMA51           | 1548          | 217        | IS1189  | 1700   | 223 |
| S114357B  | 9527   | 235 | 8944104090     | 1861          | 231        | 31200PLRA52           | 0809          | 200        | AZE0303 | 1588   | 218 |
| S114357C  | 0790   | 199 | 8944179250     | 1861          | 231        | 31200PM1005           | 9350          | 234        | AZE3504 | 1588   | 218 |
| S114374B  | 0737   | 196 | 8944339120     | 1861          | 231        | 31200PM3003           | 9186          | 234        | AZE3519 | 1588   | 218 |
| S114374B  | 9488   | 234 | 8944604170     | 1861          | 231        | 31200PM3005           | 9350          | 234        | AZE4122 | 1701   | 223 |
| S114378A  | 0554   | 190 | OSGR 2.2KW 12v | 1608          | 219        | 31200PT0900           | 9350          | 234        | AZE4125 | 1700   | 223 |
| S114378B  | 0554   | 190 | <b>Honda</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | 31200PV2662           | 9186          | 234        | AZE4128 | 1700   | 223 |
| S114389A  | 0499   | 189 | DRK1E          | 9186          | 234        | 31200PV2671           | 9186          | 234        | AZE4148 | 1699   | 223 |
| S114390A  | 0499   | 189 | 31200RAA43     | 1849          | 230        | 31200RAAA51           | 1849          | 230        | AZE4150 | 1700   | 223 |
| S114391A  | 0499   | 189 | 31200634005    | 0349          | 185        | 31200RAAA52           | 1849          | 230        | AZE4151 | 1700   | 223 |
| S114395A  | 0790   | 199 | 31200634670    | 0349          | 185        | 31200RAAA53           | 1879          | 231        | AZE4156 | 1700   | 223 |
| S114395A  | 9527   | 235 | 31200634671    | 0349          | 185        | 31200RNAA50           | 1849          | 230        | AZE4159 | 1700   | 223 |
| S114396D  | 0832   | 201 | 31200634811    | 0349          | 185        | 31200RNAA51           | 1849          | 230        | AZE4165 | 1700   | 223 |
| S114401B  | 0737   | 196 | 31200657005    | 0349          | 185        | 31200RAAA51RM         | 1849          | 230        | AZE4166 | 1701   | 223 |
| S114401B  | 9488   | 234 | 31200657006    | 0327          | 184        | <b>Hyster</b>         | <b>Nº ZEN</b> | <b>Pg.</b> | AZE4169 | 1709   | 224 |
| S114403B  | 0737   | 196 | 31200657015    | 0349          | 185        | 282661                | 0567          | 191        | AZE4170 | 1700   | 223 |
| S114403B  | 0791   | 199 | 31200657016    | 0327          | 184        | <b>Hyundai</b>        | <b>Nº ZEN</b> | <b>Pg.</b> | AZE4171 | 1701   | 223 |
| S114413A  | 0499   | 189 | 31200657025    | 0327          | 184        | 361003101             | 1777          | 227        | AZE4172 | 1700   | 223 |
| S114419A  | 0517   | 189 | 31200657025    | 0349          | 185        | 3610003101            | 1777          | 227        | AZE4173 | 1700   | 223 |
| S114429A  | 0737   | 196 | 31200657671    | 9186          | 234        | 3610023071            | 1775          | 227        | AZE4185 | 1709   | 224 |
| S114429A  | 9488   | 234 | 31200673015    | 0349          | 185        | 3610023171            | 1775          | 227        | AZE4190 | 1700   | 223 |
| S114435A  | 0517   | 189 | 31200675671    | 9186          | 234        | 3610025020            | 1800          | 228        | AZE4192 | 1700   | 223 |
| S114435B  | 0517   | 189 | 31200679035    | 0349          | 185        | 361002B102            | 1777          | 227        | AZE4195 | 1700   | 223 |
| S114435E  | 0517   | 189 | 31200679052    | 0349          | 185        | 361002CC00            | 1800          | 228        | AZE4197 | 1700   | 223 |
| S114451A  | 1860   | 231 | 31200689661    | 9186          | 234        | 361002G200            | 1770          | 227        | AZE4199 | 1700   | 223 |
| S114481A  | 0737   | 196 | 31200689662    | 9186          | 234        | 361003C150            | 1800          | 228        | AZE4201 | 1700   | 223 |
| S114503A  | 0687   | 195 | 31200PAO671    | 9186          | 234        | 3610042010            | 1577          | 218        | AZE4204 | 1700   | 223 |
| S114516A  | 0687   | 195 | 31200PB2016    | 9186          | 234        | 3610042011            | 1577          | 218        | AZE4207 | 1700   | 223 |
| S114526A  | 0634   | 193 | 31200PC2004    | 9186          | 234        | 3610047650            | 1577          | 218        | AZE4208 | 1700   | 223 |
| S114527A  | 0634   | 193 | 31200PC2661    | 9186          | 234        | 361004A100            | 1794          | 228        | AZE4209 | 1701   | 223 |
| S114528A  | 0687   | 195 | 31200PC2662    | 9186          | 234        | 361004A150            | 1794          | 228        | AZE4211 | 1699   | 223 |
| S114556A  | 0517   | 189 | 31200PC2663    | 9350          | 234        | <b>IHC Navistar</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | AZE4214 | 1700   | 223 |
| S114607A  | 0499   | 189 | 31200PC2671    | 9186          | 234        | 267904C91             | 0567          | 191        | AZE4215 | 1700   | 223 |
| S114607C  | 0499   | 189 | 31200PC2672    | 9186          | 234        | 446427C92             | 0567          | 191        | AZE4221 | 1700   | 223 |
| S114754A  | 1021   | 208 | 31200PC2681    | 9350          | 234        | 500164C91             | 0567          | 191        | AZE4222 | 1699   | 223 |
| S114766A  | 1020   | 207 | 31200PC6661    | 9186          | 234        | 844187C91             | 0567          | 191        | AZE4226 | 1700   | 223 |
| S114775A  | 1020   | 207 | 31200PC6663    | 9350          | 234        | 3144932R92            | 0308          | 183        | AZE4227 | 1700   | 223 |
| S114801B  | 1017   | 207 | 31200PD2661    | 9186          | 234        | <b>Ingersoll Rand</b> | <b>Nº ZEN</b> | <b>Pg.</b> | AZE4228 | 1709   | 224 |
| S114801C  | 1017   | 207 | 31200PD2662    | 9350          | 234        | 462361                | 0930          | 204        | AZE4261 | 1709   | 224 |
| S114814A  | 1556   | 218 | 31200PD2663    | 9350          | 234        | <b>Ishikawajima</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | AZE4540 | 1701   | 223 |
| S114817A  | 1556   | 218 | 31200PD2664    | 9350          | 234        | 185086050             | 0684          | 195        | AZE4573 | 1700   | 223 |
| S114851A  | 1860   | 231 | 31200PE0015    | 0832          | 201        | 185086051             | 0684          | 195        | AZE4579 | 1700   | 223 |
| S114902A  | 1762   | 226 | 31200PE0661    | 9186          | 234        | 185086052             | 0684          | 195        | AZE4597 | 1701   | 223 |
| S114935A  | 0790   | 199 | 31200PE0664    | 9350          | 234        | 185086140             | 0684          | 195        | AZE4603 | 1754   | 226 |
| S114951A  | 1779   | 227 | 31200PE0665    | 9350          | 234        | 185086141             | 0684          | 195        | AZE4620 | 1754   | 226 |
| S114951B  | 1779   | 227 | 31200PE1671    | 9186          | 234        | 185086240             | 0947          | 205        | AZE4648 | 1754   | 226 |
| S144617A  | 0517   | 189 | 31200PE1673    | 9350          | 234        | 185086240             | 1722          | 224        | AZE4649 | 1754   | 226 |
| S1114374B | 0737   | 196 | 31200PE1674    | 9350          | 234        | 185086320             | 0351          | 185        | AZE4653 | 1754   | 226 |
| S114-252F | 9528   | 235 | 31200PG6911    | 9186          | 234        | 185086321             | 0351          | 185        | AZE4654 | 1754   | 226 |
| S114-322A | 9528   | 235 | 31200PG6914    | 9350          | 234        | 185086340             | 0947          | 205        | AZE4655 | 1754   | 226 |
| S1142584C | 0737   | 196 | 31200PH3953    | 9350          | 234        | 185086340             | 1722          | 224        | AZF3509 | 0926   | 204 |
| S1143557A | 0790   | 199 | 31200PK2006    | 9350          | 234        | 185086350             | 0684          | 195        | AZF3513 | 0926   | 204 |

| Iskra   | Nº ZEN | Pg. | Iskra    | Nº ZEN | Pg. | Iskra    | Nº ZEN | Pg. | Iskra    | Nº ZEN | Pg. |
|---------|--------|-----|----------|--------|-----|----------|--------|-----|----------|--------|-----|
| AZF3515 | 0926   | 204 | AZF4310  | 1751   | 225 | 11130124 | 1059   | 209 | 11130904 | 1678   | 222 |
| AZF3517 | 0926   | 204 | AZF4312  | 1751   | 225 | 11130148 | 0035   | 233 | 11130941 | 1678   | 222 |
| AZF3524 | 0926   | 204 | AZF4313  | 1751   | 225 | 11130155 | 1588   | 218 | 11130998 | 1616   | 220 |
| AZF3528 | 0926   | 204 | AZF4314  | 1751   | 225 | 11130158 | 0036   | 233 | 11131018 | 1616   | 220 |
| AZF3531 | 0926   | 204 | AZF4339  | 1751   | 225 | 11130162 | 1056   | 209 | 11131035 | 1700   | 223 |
| AZF3545 | 0926   | 204 | AZF4513  | 1698   | 223 | 11130166 | 1056   | 209 | 11131036 | 1700   | 223 |
| AZF3547 | 0926   | 204 | AZF4520  | 1678   | 222 | 11130193 | 0926   | 204 | 11131050 | 1700   | 223 |
| AZF3549 | 0926   | 204 | AZF4524  | 1678   | 222 | 11130200 | 1060   | 209 | 11131060 | 1678   | 222 |
| AZF3559 | 0926   | 204 | AZF4541  | 1678   | 222 | 11130217 | 1056   | 209 | 11131063 | 1754   | 226 |
| AZF4102 | 1678   | 222 | AZF4542  | 1678   | 222 | 11130218 | 1056   | 209 | 11131065 | 1678   | 222 |
| AZF4115 | 1678   | 222 | AZF4550  | 1678   | 222 | 11130219 | 1056   | 209 | 11131092 | 1678   | 222 |
| AZF4116 | 1678   | 222 | AZF4553  | 1678   | 222 | 11130224 | 0926   | 204 | 11131112 | 1700   | 223 |
| AZF4119 | 1678   | 222 | AZF4562  | 1678   | 222 | 11130229 | 1073   | 210 | 11131116 | 1701   | 223 |
| AZF4122 | 1678   | 222 | AZF4568  | 1678   | 222 | 11130234 | 1056   | 209 | 11131145 | 1678   | 222 |
| AZF4129 | 1678   | 222 | AZF4569  | 1678   | 222 | 11130244 | 0926   | 204 | 11131191 | 1678   | 222 |
| AZF4131 | 1678   | 222 | AZF4570  | 1678   | 222 | 11130254 | 1073   | 210 | 11131216 | 1700   | 223 |
| AZF4132 | 1678   | 222 | AZF4595  | 1678   | 222 | 11130266 | 1056   | 209 | 11131221 | 1754   | 226 |
| AZF4135 | 1678   | 222 | AZF4597  | 1678   | 222 | 11130291 | 0926   | 204 | 11131227 | 1678   | 222 |
| AZF4141 | 1698   | 223 | AZF4598  | 1678   | 222 | 11130292 | 1588   | 218 | 11131228 | 1678   | 222 |
| AZF4143 | 1678   | 222 | AZJ3118  | 1073   | 210 | 11130300 | 0228   | 182 | 11131237 | 1678   | 222 |
| AZF4154 | 1698   | 223 | AZJ3144  | 1616   | 220 | 11130322 | 1059   | 209 | 11131249 | 1600   | 219 |
| AZF4158 | 1678   | 222 | AZJ3148  | 1616   | 220 | 11130338 | 0926   | 204 | 11131279 | 1700   | 223 |
| AZF4159 | 1678   | 222 | AZJ3151  | 1616   | 220 | 11130346 | 0926   | 204 | 11131315 | 1700   | 223 |
| AZF4160 | 1678   | 222 | AZJ3182  | 1616   | 220 | 11130373 | 1060   | 209 | 11131370 | 1678   | 222 |
| AZF4164 | 1678   | 222 | AZJ3198  | 1616   | 220 | 11130378 | 0926   | 204 | 11131375 | 1678   | 222 |
| AZF4170 | 1678   | 222 | AZJ3201  | 1616   | 220 | 11130392 | 0926   | 204 | 11131382 | 1678   | 222 |
| AZF4183 | 1678   | 222 | AZJ3203  | 1616   | 220 | 11130395 | 0926   | 204 | 11131397 | 1678   | 222 |
| AZF4184 | 1678   | 222 | AZJ3205  | 1616   | 220 | 11130407 | 1073   | 210 | 11131424 | 1700   | 223 |
| AZF4185 | 1678   | 222 | AZJ3206  | 1616   | 220 | 11130409 | 1073   | 210 | 11131426 | 1701   | 223 |
| AZF4190 | 1698   | 223 | AZJ3212  | 1616   | 220 | 11130412 | 1073   | 210 | 11131430 | 1678   | 222 |
| AZF4196 | 1678   | 222 | AZJ3234  | 1600   | 219 | 11130418 | 0926   | 204 | 11131433 | 1678   | 222 |
| AZF4204 | 1678   | 222 | AZJ3247  | 1600   | 219 | 11130484 | 1073   | 210 | 11131436 | 1678   | 222 |
| AZF4205 | 1678   | 222 | AZJ3248  | 1616   | 220 | 11130491 | 1073   | 210 | 11131464 | 1678   | 222 |
| AZF4206 | 1678   | 222 | AZJ3287  | 1616   | 220 | 11130509 | 1616   | 220 | 11131488 | 1678   | 222 |
| AZF4208 | 1678   | 222 | AZJ3305  | 1616   | 220 | 11130520 | 1616   | 220 | 11131507 | 1678   | 222 |
| AZF4214 | 1678   | 222 | AZJ3306  | 1616   | 220 | 11130526 | 1616   | 220 | 11131508 | 1678   | 222 |
| AZF4228 | 1678   | 222 | AZJ3315  | 1616   | 220 | 11130579 | 1616   | 220 | 11131515 | 1701   | 223 |
| AZF4242 | 1678   | 222 | AZJ3319  | 1600   | 219 | 11130624 | 1616   | 220 | 11131520 | 1678   | 222 |
| AZF4243 | 1678   | 222 | AZJ3352  | 1616   | 220 | 11130627 | 1616   | 220 | 11131535 | 1700   | 223 |
| AZF4245 | 1678   | 222 | AZJ3357  | 1616   | 220 | 11130629 | 1616   | 220 | 11131542 | 1698   | 223 |
| AZF4246 | 1678   | 222 | AZJ3405  | 1600   | 219 | 11130631 | 1616   | 220 | 11131544 | 1700   | 223 |
| AZF4247 | 1678   | 222 | AZJ3447  | 1616   | 220 | 11130632 | 1616   | 220 | 11131550 | 1678   | 222 |
| AZF4248 | 1678   | 222 | AZJ3449  | 1699   | 223 | 11130659 | 1616   | 220 | 11131598 | 1699   | 223 |
| AZF4254 | 1678   | 222 | AZJ3548  | 1073   | 210 | 11130692 | 1600   | 219 | 11131602 | 1698   | 223 |
| AZF4258 | 1678   | 222 | 10130121 | 0035   | 233 | 11130710 | 1600   | 219 | 11131605 | 1700   | 223 |
| AZF4260 | 1678   | 222 | 10130123 | 0035   | 233 | 11130711 | 1616   | 220 | 11131606 | 1700   | 223 |
| AZF4266 | 1678   | 222 | 10130150 | 0533   | 190 | 11130785 | 1616   | 220 | 11131611 | 1678   | 222 |
| AZF4270 | 1678   | 222 | 11130005 | 0035   | 233 | 11130823 | 1073   | 210 | 11131612 | 1678   | 222 |
| AZF4283 | 1678   | 222 | 11130009 | 0035   | 233 | 11130824 | 1073   | 210 | 11131613 | 1678   | 222 |
| AZF4287 | 1678   | 222 | 11130029 | 1056   | 209 | 11130835 | 1616   | 220 | 11131635 | 1616   | 220 |
| AZF4288 | 1678   | 222 | 11130034 | 1588   | 218 | 11130836 | 1698   | 223 | 11131640 | 1678   | 222 |
| AZF4291 | 1678   | 222 | 11130076 | 1060   | 209 | 11130872 | 1616   | 220 | 11131651 | 1699   | 223 |
| AZF4302 | 1751   | 225 | 11130102 | 1056   | 209 | 11130875 | 1616   | 220 | 11131658 | 1678   | 222 |
| AZF4304 | 1678   | 222 | 11130104 | 0035   | 233 | 11130890 | 1616   | 220 | 11131659 | 1700   | 223 |
| AZF4309 | 1751   | 225 | 11130115 | 0035   | 233 | 11130897 | 1600   | 219 | 11131696 | 1700   | 223 |



| Iskra    | Nº ZEN | Pg. | Iskra        | Nº ZEN        | Pg.        | Isuzu      | Nº ZEN | Pg. | Isuzu             | Nº ZEN        | Pg.        |
|----------|--------|-----|--------------|---------------|------------|------------|--------|-----|-------------------|---------------|------------|
| 11131705 | 1678   | 222 | 11132067     | 1700          | 223        | 5811001660 | 9260   | 234 | 8944489590        | 0946          | 205        |
| 11131706 | 1678   | 222 | 11132068     | 1700          | 223        | 5811001661 | 9260   | 234 | 8971185420        | 0792          | 199        |
| 11131709 | 1678   | 222 | 11132069     | 1678          | 222        | 5811001742 | 0894   | 203 | 8971463383        | 0792          | 199        |
| 11131716 | 1700   | 223 | 11132070     | 1678          | 222        | 5811001830 | 0946   | 205 | 8971617930        | 1865          | 231        |
| 11131727 | 1698   | 223 | 11132073     | 1678          | 222        | 5811001830 | 9260   | 234 | 8972105050        | 0792          | 199        |
| 11131728 | 1701   | 223 | 11132084     | 1709          | 224        | 5811001920 | 0832   | 201 | 9821001260        | 0141          | 180        |
| 11131751 | 1709   | 224 | 11132114     | 1751          | 225        | 5811001980 | 0792   | 199 | 9821001520        | 0376          | 185        |
| 11131752 | 1754   | 226 | 11132118     | 1678          | 222        | 5811001981 | 0792   | 199 | 9821001522        | 0376          | 185        |
| 11131753 | 1754   | 226 | 11132137     | 1751          | 225        | 5811001982 | 0792   | 199 | 9821001830        | 0376          | 185        |
| 11131761 | 1700   | 223 | 11132138     | 1751          | 225        | 5811002150 | 0832   | 201 | 9821001832        | 0376          | 185        |
| 11131763 | 1678   | 222 | 11132140     | 1751          | 225        | 5811240040 | 1827   | 229 | 9821006060        | 0141          | 180        |
| 11131772 | 1754   | 226 | 11132141     | 1751          | 225        | 8104550190 | 1189   | 212 | 9821006350        | 0141          | 180        |
| 11131773 | 1701   | 223 | 11132142     | 1751          | 225        | 8821001260 | 0141   | 180 | <b>Italacciai</b> | <b>Nº ZEN</b> | <b>Pg.</b> |
| 11131780 | 1700   | 223 | 11132227     | 1709          | 224        | 8941155650 | 0737   | 196 | 006138A           | 0245          | 182        |
| 11131781 | 1700   | 223 | 11132231     | 1751          | 225        | 8941155670 | 0737   | 196 | 006162E           | 0244          | 182        |
| 11131782 | 1678   | 222 | <b>Isuzu</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 8941156670 | 0737   | 196 | 006231C           | 0404          | 186        |
| 11131783 | 1678   | 222 | 451229       | 0946          | 205        | 8941171630 | 0737   | 196 | 006237A           | 0189          | 181        |
| 11131784 | 1678   | 222 | 455657       | 0946          | 205        | 8941233870 | 0946   | 205 | 25142A            | 0280          | 233        |
| 11131788 | 1754   | 226 | 455674       | 0946          | 205        | 8941233870 | 9260   | 234 | 25148A            | 0380          | 233        |
| 11131789 | 1754   | 226 | TY6615       | 0946          | 205        | 8941305600 | 0351   | 185 | 26208A            | 0320          | 184        |
| 11131792 | 1678   | 222 | 181001890    | 0894          | 203        | 8941333380 | 0737   | 196 | 26211M            | 0064          | 177        |
| 11131793 | 1700   | 223 | 891171630    | 0737          | 196        | 8941337583 | 0946   | 205 | 26211U            | 0096          | 178        |
| 11131811 | 1678   | 222 | 891364001    | 0737          | 196        | 8941337583 | 9260   | 234 | 26273E            | 0150          | 180        |
| 11131833 | 1709   | 224 | 891364480    | 0737          | 196        | 8941364480 | 0737   | 196 | 27501A            | 0541          | 190        |
| 11131856 | 1678   | 222 | 892363470    | 0737          | 196        | 8941475492 | 0792   | 199 | D8E081            | 0248          | 182        |
| 11131890 | 1700   | 223 | 1811001410   | 1827          | 229        | 8941492490 | 0792   | 199 | D9R073            | 0656          | 194        |
| 11131892 | 1700   | 223 | 1811001890   | 0894          | 203        | 8941492490 | 0946   | 205 | D9R084            | 0646          | 194        |
| 11131893 | 1678   | 222 | 1811001891   | 0894          | 203        | 8941492490 | 9260   | 234 | D9R091            | 0657          | 194        |
| 11131894 | 1678   | 222 | 1811001900   | 0894          | 203        | 8941702050 | 0946   | 205 | 1362051           | 0367          | 185        |
| 11131896 | 1678   | 222 | 1811001910   | 0894          | 203        | 8941702050 | 9260   | 234 | 1362302           | 0418          | 186        |
| 11131897 | 1678   | 222 | 1811001920   | 0894          | 203        | 8942010201 | 0141   | 180 | 1410032           | 0087          | 233        |
| 11131898 | 1678   | 222 | 1811001970   | 0894          | 203        | 8942044380 | 0351   | 185 | 4085959           | 0533          | 190        |
| 11131900 | 1678   | 222 | 1811001971   | 0894          | 203        | 8942045380 | 0351   | 185 | 4187587           | 0608          | 192        |
| 11131930 | 1678   | 222 | 1811002061   | 0894          | 203        | 8942134065 | 0351   | 185 | 4451826           | 0408          | 186        |
| 11131932 | 1700   | 223 | 1811002530   | 0894          | 203        | 8942135381 | 0351   | 185 | 4469693           | 0502          | 189        |
| 11131942 | 1700   | 223 | 1811002531   | 0894          | 203        | 8942138220 | 0351   | 185 | 4469987           | 0389          | 185        |
| 11131945 | 1678   | 222 | 1811002590   | 0894          | 203        | 8942168781 | 0737   | 196 | 4699705           | 0407          | 186        |
| 11131946 | 1700   | 223 | 1811002890   | 0894          | 203        | 8942168783 | 0737   | 196 | 4988513           | 0561          | 191        |
| 11131947 | 1700   | 223 | 2912559140   | 0946          | 205        | 8942226880 | 0349   | 185 | 534029A           | 0574          | 191        |
| 11131956 | 1700   | 223 | 5811000571   | 0376          | 185        | 8942226880 | 0351   | 185 | 5933930           | 0395          | 186        |
| 11131963 | 1700   | 223 | 5811000571   | 0684          | 195        | 8942243880 | 0351   | 185 | 5991832           | 0394          | 185        |
| 11131964 | 1700   | 223 | 5811000740   | 0376          | 185        | 8942340650 | 0351   | 185 | D11E079           | 0217          | 181        |
| 11131965 | 1678   | 222 | 5811000740   | 0684          | 195        | 8942363470 | 0737   | 196 | D11E156           | 0216          | 181        |
| 11131966 | 1700   | 223 | 5811000800   | 0376          | 185        | 8942363471 | 0737   | 196 | D11E159           | 0215          | 181        |
| 11131970 | 1701   | 223 | 5811000820   | 0376          | 185        | 8942387580 | 0737   | 196 | D11E172           | 0571          | 191        |
| 11131974 | 1699   | 223 | 5811000860   | 0946          | 205        | 8942387581 | 0737   | 196 | D11E191           | 0461          | 188        |
| 11131975 | 1700   | 223 | 5811000860   | 9260          | 234        | 8942420670 | 9488   | 234 | MTA1201           | 0453          | 188        |
| 11131984 | 1700   | 223 | 5811000990   | 0376          | 185        | 8942549221 | 1858   | 231 | MTD1201           | 0533          | 190        |
| 11131987 | 1678   | 222 | 5811001110   | 0376          | 185        | 8942554392 | 0895   | 203 | MTD1209           | 0213          | 181        |
| 11131989 | 1700   | 223 | 5811001111   | 0376          | 185        | 8943334380 | 1858   | 231 | MTS1201           | 0120          | 179        |
| 11131990 | 1700   | 223 | 5811001112   | 0376          | 185        | 8943634280 | 0895   | 203 | S114140           | 0349          | 185        |
| 11132012 | 1678   | 222 | 5811001300   | 0351          | 185        | 8944127301 | 9260   | 234 | 28002150          | 0184          | 180        |
| 11132050 | 1700   | 223 | 5811001370   | 0351          | 185        | 8944299770 | 0792   | 199 | MTA01219          | 0451          | 187        |
| 11132051 | 1699   | 223 | 5811001550   | 9260          | 234        | 8944299780 | 0792   | 199 | MTJ01201          | 0170          | 233        |
| 11132056 | 1678   | 222 | 5811001660   | 0946          | 205        | 8944467700 | 0895   | 203 | 280002572         | 0327          | 184        |

| Italacciai        | Nº ZEN | Pg. | John Deere              | Nº ZEN | Pg. | Komatsu              | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. |
|-------------------|--------|-----|-------------------------|--------|-----|----------------------|--------|-----|--------------|--------|-----|
| 280002681         | 0353   | 185 | RE43422                 | 0813   | 200 | 6008134411           | 0895   | 203 | 26339        | 0322   | 184 |
| 23300B5013        | 0352   | 185 | TY25964                 | 0813   | 200 | 6008314411           | 0895   | 203 | 26395        | 0064   | 177 |
| 23300N3301        | 0351   | 185 | TY25965                 | 0813   | 200 | <b>Kubota</b>        | Nº ZEN | Pg. | 26395        | 0322   | 184 |
| 63216740MT67CA    | 0407   | 186 | TY26007                 | 0567   | 191 | 1418263011           | 1827   | 229 | 26628        | 0823   | 200 |
| <b>Iveco</b>      | Nº ZEN | Pg. | TY26034                 | 0567   | 191 | 1418263012           | 1827   | 229 | 26667        | 0863   | 202 |
| 55195967          | 1840   | 230 | TY26038                 | 0567   | 191 | 1418263041           | 1827   | 229 | 26689        | 0823   | 200 |
| 55195970          | 1650   | 221 | AM107631                | 1885   | 232 | 1550463011           | 0947   | 205 | 26692        | 0960   | 205 |
| 99451753          | 0875   | 202 | AM108390                | 1885   | 232 | 1550463011           | 1722   | 224 | 26695        | 0823   | 200 |
| 500338953         | 1624   | 220 | AM124993                | 1885   | 232 | 1574163011           | 0947   | 205 | 26696        | 0960   | 205 |
| 504015749         | 1700   | 223 | AM127877                | 1885   | 232 | 1574163011           | 1722   | 224 | 26702        | 0822   | 200 |
| 5801405959        | 1815   | 229 | AM131296                | 1885   | 232 | 1585263011           | 0584   | 191 | 26708        | 0821   | 200 |
| <b>Jeep</b>       | Nº ZEN | Pg. | AP22652H                | 0567   | 191 | 1585263012           | 0584   | 191 | 2680B        | 1475   | 216 |
| 8982775013        | 1189   | 212 | RE509856                | 1637   | 221 | E719563010           | 1885   | 232 | 2680D        | 1475   | 216 |
| <b>Jhaem</b>      | Nº ZEN | Pg. | RE509857                | 1637   | 221 | <b>Leece Neville</b> | Nº ZEN | Pg. | 26813        | 1062   | 209 |
| L21580            | 1781   | 227 | SE501414                | 0308   | 183 | 7282M                | 0879   | 202 | 26816        | 0821   | 200 |
| QDY1289           | 1781   | 227 | SE501418                | 0813   | 200 | 8282M                | 0879   | 202 | 26823        | 0821   | 200 |
| 1043100gg010      | 1781   | 227 | SE501419                | 0813   | 200 | 7072MB               | 0117   | 179 | 26824        | 0821   | 200 |
| <b>John Deere</b> | Nº ZEN | Pg. | SE501437                | 0567   | 191 | 7072MC               | 0117   | 179 | 26834        | 1062   | 209 |
| E48134            | 0625   | 193 | <b>Johnson Electric</b> | Nº ZEN | Pg. | 7082MA               | 0188   | 181 | 26841        | 1062   | 209 |
| TY1434            | 0567   | 191 | 420890632               | 0981   | 206 | 7086MA               | 0188   | 181 | 26921        | 0820   | 200 |
| TY1435            | 0567   | 191 | <b>Kawasaki</b>         | Nº ZEN | Pg. | 7086MB               | 0188   | 181 | 26925        | 0820   | 200 |
| TY1456            | 0567   | 191 | 211633710               | 0536   | 190 | 7120MA               | 0188   | 181 | 27022        | 0863   | 202 |
| TY1457            | 0567   | 191 | 211633710               | 1191   | 213 | 7146MA               | 0117   | 179 | 27047        | 0863   | 202 |
| TY6629            | 0567   | 191 | 211637002               | 1885   | 232 | 7146MB               | 0117   | 179 | 27510        | 0155   | 180 |
| TY6654            | 0813   | 200 | 211637004               | 1885   | 232 | 7148MA               | 0117   | 179 | 27573        | 0155   | 180 |
| TY6687            | 0813   | 200 | 211637014               | 1885   | 232 | 7186MB               | 0188   | 181 | 27574        | 0155   | 180 |
| TY6691            | 0567   | 191 | 211637015               | 1885   | 232 | 7408MA               | 0879   | 202 | 27575        | 0486   | 189 |
| TY6694            | 0567   | 191 | 211637026               | 1885   | 232 | M0017137             | 0930   | 204 | S5012        | 0064   | 177 |
| TY6695            | 0567   | 191 | 211633003F              | 0536   | 190 | M0017157             | 0930   | 204 | S5012        | 0322   | 184 |
| TY6704            | 0567   | 191 | 211633003G              | 0536   | 190 | M0017191             | 0930   | 204 | 25742A       | 0412   | 186 |
| TY6714            | 0813   | 200 | <b>KHD</b>              | Nº ZEN | Pg. | CATF11000A           | 0110   | 179 | 25755A       | 0412   | 186 |
| TY6718            | 0813   | 200 | 1161420                 | 0308   | 183 | CATF11000A           | 9074   | 234 | 25756A       | 0412   | 186 |
| AJ59342           | 1637   | 221 | 1161422                 | 0308   | 183 | CATZ110024           | 0110   | 179 | 26211U       | 0096   | 178 |
| AJ60123           | 1637   | 221 | 1163626                 | 0308   | 183 | CATZ110024           | 9074   | 234 | 26234K       | 0286   | 182 |
| AP22652           | 0567   | 191 | 1163669                 | 0308   | 183 | M0017232MA           | 0188   | 181 | 26236L       | 0155   | 180 |
| AR11160           | 0567   | 191 | 1163758                 | 0308   | 183 | M0017234MA           | 0188   | 181 | 26246M       | 0150   | 180 |
| AR11161           | 0567   | 191 | 1172099                 | 0308   | 183 | M0017274MA           | 0188   | 181 | 26248M       | 0155   | 180 |
| AR11300           | 0567   | 191 | 1301833                 | 0308   | 183 | <b>Lester</b>        | Nº ZEN | Pg. | 26256H       | 0155   | 180 |
| AR11305           | 0567   | 191 | 1302023                 | 0308   | 183 | 16947                | 9495   | 234 | 26260E       | 0155   | 180 |
| AR16277           | 0434   | 187 | <b>Kohler</b>           | Nº ZEN | Pg. | 17870                | 1849   | 230 | 26278H       | 0411   | 186 |
| AR41627           | 0434   | 187 | 1209803                 | 1885   | 232 | 17958                | 1849   | 230 | 26285F       | 0155   | 180 |
| AR70611           | 0434   | 187 | 2409801                 | 1885   | 232 | 17960                | 1849   | 230 | 26288F       | 0155   | 180 |
| AR84333           | 0813   | 200 | 1209803S                | 1885   | 232 | 18219                | 1556   | 218 | 26290B       | 0150   | 180 |
| AT12283           | 0567   | 191 | 2409801S                | 1885   | 232 | 18328                | 1556   | 218 | 26291E       | 0096   | 178 |
| AT12458           | 0567   | 191 | <b>Komatsu</b>          | Nº ZEN | Pg. | <b>Liebherr</b>      | Nº ZEN | Pg. | 26301H       | 0411   | 186 |
| AT14860           | 0567   | 191 | 6008133111              | 0895   | 203 | 6200827              | 0308   | 183 | 26304D       | 0150   | 180 |
| AT15334           | 0567   | 191 | 6008133121              | 0895   | 203 | <b>Lucas Indiel</b>  | Nº ZEN | Pg. | 26312A       | 0064   | 177 |
| AT15335           | 0567   | 191 | 6008133122              | 0895   | 203 | M79                  | 0822   | 200 | 26312B       | 0096   | 178 |
| AT16209           | 0567   | 191 | 6008133130              | 0895   | 203 | M79                  | 0823   | 200 | 26323A       | 0150   | 180 |
| AT16311           | 0567   | 191 | 6008133170              | 0895   | 203 | M45G                 | 0615   | 192 | 26335A       | 0486   | 189 |
| AT17411           | 0567   | 191 | 6008133171              | 0895   | 203 | 26211                | 0322   | 184 | 26390A       | 0594   | 191 |
| RE13722           | 0434   | 187 | 6008134000              | 0895   | 203 | 26312                | 0064   | 177 | 26412A       | 0155   | 180 |
| RE15663           | 0813   | 200 | 6008134190              | 0895   | 203 | 26338                | 0064   | 177 | 26413A       | 0155   | 180 |
| RE15718           | 0813   | 200 | 6008134380              | 0895   | 203 | 26338                | 0322   | 184 | 26422A       | 0155   | 180 |
| RE23900           | 0434   | 187 | 6008134410              | 0895   | 203 | 26339                | 0064   | 177 | 26427A       | 0150   | 180 |

| Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. |
|--------------|--------|-----|--------------|--------|-----|--------------|--------|-----|--------------|--------|-----|
| 26605A       | 0823   | 200 | 25706A/D     | 0412   | 186 | 26288A/E     | 0067   | 177 | 26385A/B     | 0594   | 191 |
| 26620A       | 0823   | 200 | 25707A/D     | 0412   | 186 | 26291A/D     | 0064   | 177 | 26387A/E     | 0155   | 180 |
| 26628A       | 0823   | 200 | 25710A/D     | 0412   | 186 | 26294D/E     | 0150   | 180 | 26388A/F     | 0398   | 186 |
| 26678B       | 0823   | 200 | 25714A/D     | 0412   | 186 | 26294F/Q     | 0150   | 180 | 26389A/D     | 0286   | 182 |
| 26679B       | 0823   | 200 | 25718A/D     | 0412   | 186 | 26295D/Q     | 0150   | 180 | 26390B/E     | 0594   | 191 |
| 26680B       | 0823   | 200 | 25719A/D     | 0412   | 186 | 26300A/J     | 0615   | 192 | 26391A/B     | 0155   | 180 |
| 26681B       | 0823   | 200 | 25720A/D     | 0412   | 186 | 26305A/B     | 0064   | 177 | 26393A/F     | 0150   | 180 |
| 26716B       | 0821   | 200 | 25722A/D     | 0412   | 186 | 26305D/N     | 0096   | 178 | 26395A/H     | 0096   | 178 |
| 26717A       | 0822   | 200 | 25728A/D     | 0412   | 186 | 26306E/H     | 0134   | 179 | 26398A/H     | 0286   | 182 |
| 26809A       | 0821   | 200 | 25729A/D     | 0412   | 186 | 26310A/D     | 0067   | 177 | 26403A/D     | 0150   | 180 |
| 26810A       | 0821   | 200 | 25734A/D     | 0412   | 186 | 26310A/E     | 0067   | 177 | 26404A/D     | 0150   | 180 |
| 26811A       | 0822   | 200 | 25739A/D     | 0412   | 186 | 26310E/F     | 0155   | 180 | 26407A/F     | 0398   | 186 |
| 26903A       | 0820   | 200 | 25743A/D     | 0412   | 186 | 26316A/M     | 0096   | 178 | 26408A/E     | 0150   | 180 |
| 26913A       | 0820   | 200 | 26132A/F     | 0041   | 176 | 26317B/H     | 0398   | 186 | 26409A/E     | 0150   | 180 |
| 26935B       | 0820   | 200 | 26132H/R     | 0041   | 176 | 26320A/B     | 0506   | 189 | 26410A/B     | 0150   | 180 |
| 270508       | 0486   | 189 | 26143A/H     | 0041   | 176 | 26320D/J     | 0486   | 189 | 26411A/B     | 0150   | 180 |
| 27245A       | 0155   | 180 | 26143J/Q     | 0041   | 176 | 26321A/B     | 0067   | 177 | 26414A/E     | 0150   | 180 |
| 27403A       | 0155   | 180 | 26172A/L     | 0041   | 176 | 26321D/F     | 0155   | 180 | 26416A/E     | 0286   | 182 |
| 27407A       | 0155   | 180 | 26208A/E     | 0322   | 184 | 26329A/L     | 0096   | 178 | 26420A/B     | 0286   | 182 |
| 27408A       | 0155   | 180 | 26211A/L     | 0322   | 184 | 26336A/R     | 0286   | 182 | 26421A/B     | 0286   | 182 |
| 27410A       | 0615   | 192 | 26211M/T     | 0064   | 177 | 26337A/H     | 0286   | 182 | 26428A/B     | 0286   | 182 |
| 27414A       | 0155   | 180 | 26227A/Q     | 0064   | 177 | 26338A/F     | 0096   | 178 | 26429A/B     | 0286   | 182 |
| 27418A       | 0615   | 192 | 26227R/V     | 0096   | 178 | 26339A/K     | 0096   | 178 | 26430A/D     | 0096   | 178 |
| 27423A       | 0134   | 179 | 26233A/J     | 0506   | 189 | 26341A/J     | 0096   | 178 | 26431A/B     | 0096   | 178 |
| 27435A       | 0155   | 180 | 26233K/M     | 0486   | 189 | 26342A/B     | 0485   | 189 | 26433A/B     | 0286   | 182 |
| 27436A       | 0486   | 189 | 26236A/K     | 0067   | 177 | 26342D/L     | 0485   | 189 | 26435A/B     | 0286   | 182 |
| 27439A       | 0155   | 180 | 26238A/L     | 0067   | 177 | 26343A/K     | 0150   | 180 | 26436A/B     | 0150   | 180 |
| 27443A       | 0486   | 189 | 26238M/Q     | 0155   | 180 | 26344A/F     | 0150   | 180 | 26600E/F     | 0823   | 200 |
| 27446A       | 0155   | 180 | 26248A/L     | 0067   | 177 | 26345A/J     | 0150   | 180 | 26601E/F     | 0823   | 200 |
| 27452A       | 0134   | 179 | 26256A/E     | 0067   | 177 | 26347A/B     | 0155   | 180 | 26609F/J     | 0823   | 200 |
| 27459A       | 0155   | 180 | 26259A/K     | 0067   | 177 | 26348A/D     | 0486   | 189 | 26613E/H     | 0823   | 200 |
| 27469A       | 0155   | 180 | 26259L/N     | 0155   | 180 | 26349A/H     | 0286   | 182 | 26616A/B     | 0823   | 200 |
| 27475A       | 0134   | 179 | 26264A/F     | 0067   | 177 | 26350A/B     | 0064   | 177 | 26619A/D     | 0823   | 200 |
| 27511A       | 0480   | 188 | 26264H/K     | 0155   | 180 | 26351A/H     | 0150   | 180 | 26621A/B     | 0823   | 200 |
| 27513A       | 0155   | 180 | 26265J/M     | 0096   | 178 | 26352A/L     | 0096   | 178 | 26624A/D     | 0823   | 200 |
| 27556A       | 0486   | 189 | 26270A/J     | 0615   | 192 | 26355A/J     | 0398   | 186 | 26626A/B     | 0823   | 200 |
| 27568A       | 0155   | 180 | 26271A/E     | 0067   | 177 | 26356A/M     | 0398   | 186 | 26654B/D     | 0823   | 200 |
| 27583D       | 0155   | 180 | 26271F/J     | 0155   | 180 | 26357A/E     | 0150   | 180 | 26702E/K     | 0822   | 200 |
| 26607EJ      | 0960   | 205 | 26273E/F     | 0150   | 180 | 26358A/H     | 0150   | 180 | 26707A/L     | 0821   | 200 |
| LRS1976      | 1624   | 220 | 26273H/M     | 0150   | 180 | 26361A/E     | 0398   | 186 | 26713A/D     | 0821   | 200 |
| LRS2163      | 0809   | 200 | 26274E/F     | 0150   | 180 | 26363A/J     | 0286   | 182 | 26804A/E     | 0821   | 200 |
| LRS2223      | 1650   | 221 | 26274H/N     | 0150   | 180 | 26364A/F     | 0155   | 180 | 26812A/D     | 0822   | 200 |
| 25619A/K     | 0412   | 186 | 26275F/K     | 0134   | 179 | 26365A/F     | 0150   | 180 | 2692512A     | 1518   | 217 |
| 25642A/F     | 0412   | 186 | 26279A/E     | 0067   | 177 | 26366A/F     | 0150   | 180 | 26929A/B     | 0820   | 200 |
| 25647A/L     | 0412   | 186 | 26279F/K     | 0155   | 180 | 26367A/D     | 0286   | 182 | 26931A/B     | 0820   | 200 |
| 25651A/B     | 0412   | 186 | 26280F/J     | 0134   | 179 | 26369A/J     | 0150   | 180 | 27409A/D     | 0155   | 180 |
| 25662A/E     | 0412   | 186 | 26281A/E     | 0067   | 177 | 26370B/E     | 0155   | 180 | 27411A/B     | 0155   | 180 |
| 25674A/E     | 0412   | 186 | 26281F/J     | 0155   | 180 | 26372A/B     | 0594   | 191 | 27412A/D     | 0134   | 179 |
| 25684A/J     | 0412   | 186 | 26283A/F     | 0067   | 177 | 26374A/F     | 0150   | 180 | 27413A/D     | 0411   | 186 |
| 25686A/H     | 0412   | 186 | 26283H/K     | 0155   | 180 | 26375A/D     | 0155   | 180 | 27415A/D     | 0155   | 180 |
| 25689A/J     | 0412   | 186 | 26284A/E     | 0485   | 189 | 26376A/L     | 0150   | 180 | 27416A/D     | 0134   | 179 |
| 25692A/J     | 0412   | 186 | 26285A/E     | 0067   | 177 | 26378A/H     | 0150   | 180 | 27417A/D     | 0155   | 180 |
| 25695A/F     | 0412   | 186 | 26286A/E     | 0506   | 189 | 26379A/F     | 0096   | 178 | 27419A/D     | 0486   | 189 |
| 25699A/J     | 0412   | 186 | 26286F/J     | 0486   | 189 | 26382A/B     | 0286   | 182 | 27420A/B     | 0155   | 180 |
| 25704A/D     | 0412   | 186 | 26287A/E     | 0067   | 177 | 26384A/B     | 0286   | 182 | 27421A/B     | 0411   | 186 |

| Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. | Lucas Indiel | Nº ZEN | Pg. |
|--------------|--------|-----|--------------|--------|-----|--------------|--------|-----|--------------|--------|-----|
| 27424A/B     | 0155   | 180 | 27565B/D     | 0155   | 180 | 35258930     | 0102   | 178 | 35261395     | 1603   | 219 |
| 27426A/F     | 0155   | 180 | 27570A/B     | 0155   | 180 | 35259040     | 1635   | 220 | 35261425     | 1596   | 219 |
| 27427A/E     | 0155   | 180 | 27571A/B     | 0155   | 180 | 35259060     | 0860   | 202 | 35261445     | 1719   | 224 |
| 27429A/B     | 0155   | 180 | 27572A/B     | 0155   | 180 | 35259170     | 0916   | 204 | 35261640     | 1617   | 220 |
| 27430A/B     | 0594   | 191 | 35255556     | 0160   | 180 | 35259240     | 1604   | 219 | 35261740     | 1603   | 219 |
| 27432A/E     | 0155   | 180 | 35255999     | 0160   | 180 | 35259260     | 1595   | 219 | 35261760     | 1684   | 222 |
| 27433A/D     | 0155   | 180 | 35256034     | 0102   | 178 | 35259300     | 1622   | 220 | 35261770     | 1604   | 219 |
| 27449A/D     | 0486   | 189 | 35256424     | 0492   | 189 | 35259310     | 1602   | 219 | 35261780     | 1603   | 219 |
| 27461A/B     | 0155   | 180 | 35256425     | 0102   | 178 | 35259360     | 1726   | 225 | 35261810     | 1713   | 224 |
| 27462A/B     | 0486   | 189 | 35256433     | 0102   | 178 | 35259390     | 1637   | 221 | 35262020     | 1604   | 219 |
| 27463A/D     | 0411   | 186 | 35256519     | 0102   | 178 | 35259400     | 1635   | 220 | 35262190     | 1603   | 219 |
| 27464A/B     | 0155   | 180 | 35256520     | 0102   | 178 | 35259430     | 1091   | 210 | 35262420     | 1785   | 227 |
| 27468A/B     | 0155   | 180 | 35256637     | 0102   | 178 | 35259450     | 1648   | 221 | 35262460     | 1604   | 219 |
| 27470A/B     | 0155   | 180 | 35256900     | 0102   | 178 | 35259520     | 1595   | 219 | 35262570     | 1684   | 222 |
| 27474A/B     | 0155   | 180 | 35257188     | 0102   | 178 | 35259570     | 1636   | 220 | 35262580     | 1623   | 220 |
| 27500A/J     | 0480   | 188 | 35257385     | 0441   | 187 | 35259580     | 1090   | 210 | 35262634     | 1090   | 210 |
| 27502A/D     | 0155   | 180 | 35257510     | 0467   | 188 | 35259590     | 1637   | 221 | LRS01976     | 1624   | 220 |
| 27503A/D     | 0155   | 180 | 35257655     | 0492   | 189 | 35259600     | 1637   | 221 | LRS02223     | 1650   | 221 |
| 27504A/B     | 0480   | 188 | 35257700     | 0868   | 202 | 35259620     | 1090   | 210 | 25147DM35    | 0170   | 233 |
| 27506A/D     | 0480   | 188 | 35257720     | 0102   | 178 | 35259630     | 1090   | 210 | 25147DM35    | 0171   | 233 |
| 27507A/B     | 0480   | 188 | 35257790     | 0467   | 188 | 35259640     | 1090   | 210 | 25276AM35    | 0280   | 233 |
| 27508A/D     | 0486   | 189 | 35257880     | 0771   | 198 | 35259660     | 1090   | 210 | 25276AM35    | 0380   | 233 |
| 27509A/B     | 0486   | 189 | 35257890     | 0467   | 188 | 35259680     | 1596   | 219 | 25329AM35    | 1188   | 212 |
| 27512A/D     | 0557   | 190 | 35258000     | 0162   | 180 | 35259690     | 1637   | 221 | 25345AM35    | 0280   | 233 |
| 27514A/B     | 0155   | 180 | 35258060     | 0467   | 188 | 35259730     | 1648   | 221 | 25345AM35    | 0380   | 233 |
| 27515A/E     | 0155   | 180 | 35258180     | 0467   | 188 | 35259750     | 1596   | 219 | 26246MM50    | 0150   | 180 |
| 27516A/D     | 0480   | 188 | 35258240     | 0772   | 198 | 35259760     | 1091   | 210 | 26287/F/J    | 0155   | 180 |
| 27518A/E     | 0155   | 180 | 35258270     | 0860   | 202 | 35259810     | 1648   | 221 | 26312AM50    | 0064   | 177 |
| 27519A/D     | 0155   | 180 | 35258290     | 0467   | 188 | 35259830     | 1595   | 219 | 26312BM50    | 0096   | 178 |
| 27522A/D     | 0155   | 180 | 35258340     | 0467   | 188 | 35259840     | 1595   | 219 | 26323AM50    | 0150   | 180 |
| 27523A/D     | 0155   | 180 | 35258370     | 0915   | 203 | 35259870     | 1090   | 210 | 26427AM50    | 0150   | 180 |
| 27524A/B     | 0155   | 180 | 35258380     | 0468   | 188 | 35259880     | 1623   | 220 | 26431AM50    | 0096   | 178 |
| 27525A/B     | 0155   | 180 | 35258400     | 1134   | 211 | 35259900     | 1684   | 222 | 26435AM50    | 0286   | 182 |
| 27526A/D     | 0155   | 180 | 35258420     | 1134   | 211 | 35260828     | 1635   | 220 | 583514243    | 0158   | 180 |
| 27527A/B     | 0155   | 180 | 35258430     | 0915   | 203 | 35260830     | 1595   | 219 | 25142AHM35   | 0280   | 233 |
| 27528A/D     | 0480   | 188 | 35258440     | 0826   | 201 | 35260840     | 1595   | 219 | 25142AHM35   | 0380   | 233 |
| 27532A/D     | 0155   | 180 | 35258460     | 1134   | 211 | 35260870     | 1648   | 221 | 25148AJM35   | 0280   | 233 |
| 27533A/E     | 0486   | 189 | 35258490     | 1635   | 220 | 35260890     | 1621   | 220 | 25148AJM35   | 0380   | 233 |
| 27536A/D     | 0155   | 180 | 35258540     | 0978   | 206 | 35260940     | 1622   | 220 | 25165ADM35   | 1188   | 212 |
| 27537A/B     | 0155   | 180 | 35258560     | 1134   | 211 | 35260950     | 1622   | 220 | 25274ADM35   | 1188   | 212 |
| 27538A/D     | 0155   | 180 | 35258580     | 0991   | 206 | 35261050     | 1648   | 221 | 25348A5M90   | 1188   | 212 |
| 27539A/F     | 0155   | 180 | 35258600     | 0945   | 205 | 35261070     | 1622   | 220 | 26208AEM45   | 0322   | 184 |
| 27540A/H     | 0155   | 180 | 35258640     | 0860   | 202 | 35261120     | 1623   | 220 | 26211ALM50   | 0322   | 184 |
| 27541A/D     | 0155   | 180 | 35258660     | 1635   | 220 | 35261130     | 1651   | 221 | 26211MTM50   | 0064   | 177 |
| 27543A/D     | 0486   | 189 | 35258670     | 0492   | 189 | 35261135     | 1603   | 219 | 26211MTM50   | 0096   | 178 |
| 27545A/B     | 0486   | 189 | 35258690     | 0983   | 206 | 35261155     | 1623   | 220 | 26291ADM50   | 0064   | 177 |
| 27546A/B     | 0486   | 189 | 35258710     | 0978   | 206 | 35261160     | 1648   | 221 | 26305ABM50   | 0064   | 177 |
| 27550A/B     | 0155   | 180 | 35258720     | 1134   | 211 | 35261175     | 1602   | 219 | 26317BDM50   | 0398   | 186 |
| 27551A/B     | 0486   | 189 | 35258730     | 0915   | 203 | 35261250     | 0990   | 206 | 26336AFM50   | 0286   | 182 |
| 27552A/B     | 0486   | 189 | 35258740     | 1133   | 211 | 35261260     | 1617   | 220 | 26349DHM50   | 0286   | 182 |
| 27553A/D     | 0480   | 188 | 35258760     | 0990   | 206 | 35261295     | 1617   | 220 | 26356ABM50   | 0398   | 186 |
| 27554A/B     | 0480   | 188 | 35258790     | 0945   | 205 | 35261305     | 0991   | 206 | 26404ADM50   | 0150   | 180 |
| 27558A/E     | 0486   | 189 | 35258840     | 1134   | 211 | 35261355     | 1596   | 219 | 26407AEM50   | 0398   | 186 |
| 27559A/E     | 0155   | 180 | 35258850     | 0990   | 206 | 35261360     | 1091   | 210 | 35261635AM   | 1785   | 227 |
| 27562A/B     | 0480   | 188 | 35258910     | 0991   | 206 | 35261385     | 1647   | 221 | 35262160AM   | 1785   | 227 |

| Lucas Indiel           | Nº ZEN        | Pg.        | Magneti Marelli | Nº ZEN | Pg. | Magneti Marelli | Nº ZEN | Pg. | Magneti Marelli | Nº ZEN | Pg. |
|------------------------|---------------|------------|-----------------|--------|-----|-----------------|--------|-----|-----------------|--------|-----|
| 25264AF5M90            | 1188          | 212        | 63187051        | 1884   | 232 | 63220537        | 0408   | 186 | 63221892        | 1227   | 214 |
| 63222035010            | 1477          | 216        | 63193001        | 1718   | 224 | 63220538        | 0408   | 186 | 63222000        | 1117   | 211 |
| 63222204010            | 1477          | 216        | 63201008        | 0779   | 198 | 63220700        | 0120   | 179 | 63222001        | 1104   | 210 |
| 25624AF2M100           | 0412          | 186        | 63211627        | 0035   | 233 | 63220701        | 0120   | 179 | 63222004        | 1117   | 211 |
| 25705AD2M100           | 0414          | 186        | 63211665        | 0035   | 233 | 63220702        | 0120   | 179 | 63222005        | 1630   | 220 |
| 25732BE2M100           | 0414          | 186        | 63211669        | 0035   | 233 | 63220705        | 0120   | 179 | 63222030        | 1117   | 211 |
| 25743AD3M100           | 0412          | 186        | 63213127        | 0035   | 233 | 63220706        | 0120   | 179 | 63222031        | 1104   | 210 |
| <b>Lucas Reman</b>     | <b>Nº ZEN</b> | <b>Pg.</b> | 63213812        | 0035   | 233 | 63220720        | 0120   | 179 | 63222034        | 1117   | 211 |
| S7133                  | 9702          | 235        | 63214349        | 0035   | 233 | 63220721        | 0120   | 179 | 63222035        | 1477   | 216 |
| S7219                  | 9702          | 235        | 63214371        | 0035   | 233 | 63220723        | 0120   | 179 | 63222038        | 1117   | 211 |
| <b>Lucas TVS</b>       | <b>Nº ZEN</b> | <b>Pg.</b> | 63216225        | 0035   | 233 | 63220724        | 0120   | 179 | 63222039        | 1104   | 210 |
| 8M14                   | 1854          | 230        | 63216325        | 0035   | 233 | 63220731        | 0120   | 179 | 63222040        | 1477   | 216 |
| 26024256A              | 1799          | 228        | 63216701        | 0407   | 186 | 63220740        | 0120   | 179 | 63222130        | 1117   | 211 |
| <b>Mack Truck</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | 63216703        | 0407   | 186 | 63220741        | 0120   | 179 | 63222134        | 1117   | 211 |
| 8MJ4167                | 0308          | 183        | 63216707        | 0407   | 186 | 63220743        | 0120   | 179 | 63222135        | 1117   | 211 |
| <b>Magneti Marelli</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 63216725        | 0407   | 186 | 63220744        | 0120   | 179 | 63222136        | 1104   | 210 |
| MT68Q                  | 0910          | 203        | 63216726        | 0407   | 186 | 63220746        | 0120   | 179 | 63222138        | 1117   | 211 |
| MT68QA                 | 0910          | 203        | 63216727        | 0407   | 186 | 63220800        | 0120   | 179 | 63222204        | 1477   | 216 |
| 7733966                | 0779          | 198        | 63216731        | 0601   | 192 | 63220833        | 0120   | 179 | 63222300        | 0533   | 190 |
| 7772459                | 0779          | 198        | 63216740        | 0407   | 186 | 63220834        | 0120   | 179 | 63222301        | 0533   | 190 |
| 7772462                | 0779          | 198        | 63216741        | 0601   | 192 | 63220836        | 0120   | 179 | 63222331        | 0533   | 190 |
| 7785949                | 0779          | 198        | 63216808        | 0407   | 186 | 63220900        | 0120   | 179 | 63222400        | 0213   | 181 |
| MSN2036                | 1624          | 220        | 63216810        | 0407   | 186 | 63220932        | 0120   | 179 | 63222405        | 0213   | 181 |
| 36222700               | 0213          | 181        | 63216815        | 0910   | 203 | 63220940        | 0120   | 179 | 63222408        | 0213   | 181 |
| 46414994               | 0779          | 198        | 63216825        | 0407   | 186 | 63221300        | 0120   | 179 | 63222409        | 0213   | 181 |
| 46415504               | 0779          | 198        | 63216826        | 0407   | 186 | 63221308        | 0389   | 185 | 63222430        | 0213   | 181 |
| 46417006               | 0779          | 198        | 63216827        | 0407   | 186 | 63221338        | 0389   | 185 | 63222435        | 0213   | 181 |
| 46429594               | 0779          | 198        | 63216831        | 0601   | 192 | 63221400        | 0389   | 185 | 63222438        | 0213   | 181 |
| 46465475               | 0779          | 198        | 63216851        | 0910   | 203 | 63221401        | 0389   | 185 | 63222439        | 0213   | 181 |
| 63101000               | 0779          | 198        | 63216873        | 0407   | 186 | 63221403        | 0394   | 185 | 63222501        | 0213   | 181 |
| 63101002               | 0779          | 198        | 63216896        | 0601   | 192 | 63221430        | 0389   | 185 | 63222502        | 0213   | 181 |
| 63101003               | 1227          | 214        | 63216898        | 0407   | 186 | 63221431        | 0389   | 185 | 63222531        | 0213   | 181 |
| 63102003               | 0779          | 198        | 63217101        | 0407   | 186 | 63221433        | 0394   | 185 | 63222532        | 0213   | 181 |
| 63102004               | 0779          | 198        | 63217104        | 0407   | 186 | 63221434        | 0394   | 185 | 63222536        | 0213   | 181 |
| 63102007               | 0779          | 198        | 63217105        | 0407   | 186 | 63221500        | 0394   | 185 | 63222602        | 0213   | 181 |
| 63102008               | 0779          | 198        | 63217118        | 0407   | 186 | 63221503        | 0394   | 185 | 63222605        | 0213   | 181 |
| 63103002               | 0779          | 198        | 63217119        | 0407   | 186 | 63221508        | 0389   | 185 | 63222632        | 0213   | 181 |
| 63103003               | 0779          | 198        | 63217120        | 0407   | 186 | 63221509        | 0394   | 185 | 63222635        | 0213   | 181 |
| 63103007               | 0999          | 207        | 63217125        | 0407   | 186 | 63221530        | 0394   | 185 | 63222636        | 0213   | 181 |
| 63103008               | 0999          | 207        | 63217126        | 0601   | 192 | 63221533        | 0394   | 185 | 63222700        | 0213   | 181 |
| 63111000               | 0969          | 206        | 63217147        | 0407   | 186 | 63221538        | 0389   | 185 | 63222701        | 0213   | 181 |
| 63111007               | 1113          | 211        | 63217148        | 0601   | 192 | 63221539        | 0394   | 185 | 63222706        | 0213   | 181 |
| 63111008               | 1169          | 212        | 63217154        | 0601   | 192 | 63221632        | 0394   | 185 | 63222730        | 0213   | 181 |
| 63111009               | 1169          | 212        | 63217188        | 0601   | 192 | 63221637        | 0389   | 185 | 63222731        | 0213   | 181 |
| 63111010               | 1113          | 211        | 63217201        | 0407   | 186 | 63221639        | 0394   | 185 | 63222736        | 0213   | 181 |
| 63111016               | 1561          | 218        | 63217225        | 0407   | 186 | 63221730        | 0394   | 185 | 63222831        | 0786   | 199 |
| 63111027               | 1169          | 212        | 63217226        | 0601   | 192 | 63221731        | 0394   | 185 | 63222831        | 1206   | 213 |
| 63112003               | 1169          | 212        | 63217403        | 0910   | 203 | 63221800        | 0786   | 199 | 63222832        | 0786   | 199 |
| 63113001               | 1718          | 224        | 63217410        | 0601   | 192 | 63221800        | 1227   | 214 | 63222832        | 1206   | 213 |
| 63113002               | 1718          | 224        | 63220104        | 1496   | 216 | 63221830        | 0786   | 199 | 63222833        | 0786   | 199 |
| 63113003               | 1169          | 212        | 63220107        | 0768   | 198 | 63221832        | 0786   | 199 | 63222833        | 1206   | 213 |
| 63113004               | 1718          | 224        | 63220108        | 0768   | 198 | 63221834        | 0786   | 199 | 63222836        | 0786   | 199 |
| 63114008               | 1630          | 220        | 63220137        | 0768   | 198 | 63221890        | 0786   | 199 | 63222836        | 1206   | 213 |
| 63114010               | 1630          | 220        | 63220506        | 0408   | 186 | 63221890        | 1227   | 214 | 63222837        | 0786   | 199 |
| 63114014               | 1025          | 208        | 63220536        | 0408   | 186 | 63221892        | 0786   | 199 | 63222837        | 1206   | 213 |

| Magneti Marelli | Nº ZEN | Pg. | Magneti Marelli | Nº ZEN | Pg. | Mazda      | Nº ZEN | Pg. | Mazda      | Nº ZEN | Pg. |
|-----------------|--------|-----|-----------------|--------|-----|------------|--------|-----|------------|--------|-----|
| 63222838        | 0786   | 199 | 63226801        | 1475   | 216 | 022218400A | 0144   | 180 | 489318400B | 0426   | 186 |
| 63222838        | 1206   | 213 | 63226834        | 1062   | 209 | 032418400A | 0144   | 180 | 489318400D | 0426   | 186 |
| 63222889        | 0779   | 198 | 63226845        | 1062   | 209 | 032418400B | 0352   | 185 | 489318400E | 0426   | 186 |
| 63222897        | 0786   | 199 | 63226846        | 1062   | 209 | 042618400A | 0144   | 180 | 489418400B | 0144   | 180 |
| 63222897        | 1206   | 213 | 63227004        | 0823   | 200 | 042618400B | 0144   | 180 | 489418400C | 0144   | 180 |
| 63222900        | 0779   | 198 | 63227005        | 0823   | 200 | 478010400  | 0450   | 187 | 489418400D | 0144   | 180 |
| 63222901        | 0779   | 198 | 63227006        | 0823   | 200 | 478018400  | 0450   | 187 | 808818400A | 0352   | 185 |
| 63222905        | 0779   | 198 | 63227007        | 0823   | 200 | 077918400A | 0352   | 185 | 813118400A | 0352   | 185 |
| 63222908        | 0779   | 198 | 63227008        | 0823   | 200 | 813118400  | 0352   | 185 | B30118400C | 0636   | 193 |
| 63222909        | 0779   | 198 | 63227009        | 0823   | 200 | 821818400  | 0352   | 185 | B30318400A | 0450   | 187 |
| 63222936        | 0779   | 198 | 63227010        | 0823   | 200 | 893618400  | 0352   | 185 | B31518400A | 0450   | 187 |
| 63223000        | 0395   | 186 | 63227014        | 0823   | 200 | 893718400  | 0352   | 185 | B31518400B | 0450   | 187 |
| 63223001        | 0786   | 199 | 63227016        | 0823   | 200 | 896418400  | 0352   | 185 | B35918400A | 0636   | 193 |
| 63223001        | 1206   | 213 | 63227017        | 0823   | 200 | 896718400  | 0352   | 185 | B61R18400A | 0450   | 187 |
| 63223031        | 0786   | 199 | 63227022        | 0863   | 202 | AM1518400  | 0595   | 192 | B63018400A | 0450   | 187 |
| 63223031        | 1206   | 213 | 63227028        | 0823   | 200 | B30118400  | 0636   | 193 | B67618400A | 0450   | 187 |
| 63223032        | 0786   | 199 | 63227038        | 0823   | 200 | B30318400  | 0450   | 187 | B67618400B | 0450   | 187 |
| 63223032        | 1206   | 213 | 63227043        | 0863   | 202 | B35918400  | 0450   | 187 | B6S818400A | 0450   | 187 |
| 63223033        | 0786   | 199 | 63227046        | 0863   | 202 | B50518400  | 0450   | 187 | D30618400A | 0352   | 185 |
| 63223033        | 1206   | 213 | 63227047        | 0863   | 202 | B59318400  | 0450   | 187 | D306A8400B | 0352   | 185 |
| 63223034        | 0786   | 199 | 63227051        | 0863   | 202 | B61P18400  | 0450   | 187 | D50118400A | 0352   | 185 |
| 63223034        | 1206   | 213 | 63227577        | 0863   | 202 | B63018400  | 0450   | 187 | D50218400A | 0352   | 185 |
| 63223035        | 0779   | 198 | 63229035        | 1477   | 216 | B67618400  | 0450   | 187 | D50518400A | 0352   | 185 |
| 63223039        | 1484   | 216 | 63280040        | 1693   | 223 | D50118400  | 0352   | 185 | D50518400B | 0450   | 187 |
| 63223085        | 0779   | 198 | 63280041        | 1693   | 223 | D50218400  | 0352   | 185 | E30118400A | 0352   | 185 |
| 63223101        | 0779   | 198 | 63280059        | 1884   | 232 | D50518400  | 0352   | 185 | E35618400A | 0352   | 185 |
| 63223103        | 1496   | 216 | 63280071        | 1718   | 224 | D53018400  | 0450   | 187 | E35618400B | 0450   | 187 |
| 63223108        | 0779   | 198 | 63292035        | 1477   | 216 | E22E18400  | 0596   | 192 | F21418400A | 0596   | 192 |
| 63223109        | 0779   | 198 | 63293029        | 1484   | 216 | E30118400  | 0352   | 185 | F21418400B | 0596   | 192 |
| 63223200        | 0779   | 198 | 63293039        | 1484   | 216 | E35618400  | 0450   | 187 | F21418400C | 0596   | 192 |
| 63223203        | 0395   | 186 | 63293538        | 0975   | 206 | E35718400  | 0450   | 187 | F24018400B | 0450   | 187 |
| 63223206        | 0395   | 186 | E1154/24        | 0953   | 205 | F21418400  | 0596   | 192 | F2D418400A | 0596   | 192 |
| 63223207        | 0395   | 186 | 631101002       | 0779   | 198 | F24018400  | 0450   | 187 | F60118400A | 0352   | 185 |
| 63223236        | 0395   | 186 | 943252201       | 1651   | 221 | F2D418400  | 0596   | 192 | F60118400B | 0352   | 185 |
| 63223237        | 0395   | 186 | Man             | Nº ZEN | Pg. | F60118400  | 0352   | 185 | F80218400A | 0352   | 185 |
| 63223300        | 0395   | 186 | 51262017158     | 1178   | 212 | F80218400  | 0352   | 185 | F80218400B | 0352   | 185 |
| 63223303        | 0779   | 198 | Mando           | Nº ZEN | Pg. | F80618400  | 0352   | 185 | F85018400A | 0352   | 185 |
| 63223330        | 0395   | 186 | MG122423        | 13021  | 237 | F85018400  | 0352   | 185 | F85018400B | 0352   | 185 |
| 63223332        | 0395   | 186 | MG122423        | 1667   | 221 | F8B18400A  | 0450   | 187 | F85018400E | 0450   | 187 |
| 63223430        | 0878   | 202 | MG122565        | 13021  | 237 | FE0518400  | 0352   | 185 | F8B118400A | 0450   | 187 |
| 63223431        | 0878   | 202 | MG122565        | 1667   | 221 | FE1H18400  | 0596   | 192 | F8B118400B | 0450   | 187 |
| 63223432        | 0878   | 202 | K71F18400       | 1601   | 219 | FE5018400  | 0352   | 185 | F8B118400C | 0450   | 187 |
| 63223435        | 0969   | 206 | OK24118400A     | 0499   | 189 | FE7918400  | 0352   | 185 | FE0518400B | 0352   | 185 |
| 63223436        | 0878   | 202 | Massey Ferguson | Nº ZEN | Pg. | H83318400  | 0352   | 185 | FE0518400C | 0352   | 185 |
| 63223530        | 0878   | 202 | 114939701       | 0308   | 183 | HE1918400  | 0352   | 185 | FE0518400C | 0450   | 187 |
| 63223531        | 0878   | 202 | 114939702       | 0308   | 183 | HE2018400  | 0352   | 185 | FE1J18400A | 0450   | 187 |
| 63223532        | 0878   | 202 | Mazda           | Nº ZEN | Pg. | PE0118400  | 1876   | 231 | FE5018400A | 0352   | 185 |
| 63223538        | 0975   | 206 | F601            | 0352   | 185 | PE0718400  | 1876   | 231 | FE5018400B | 0352   | 185 |
| 63223639        | 0969   | 206 | 22218400        | 0144   | 180 | PY0118400  | 1876   | 231 | FE5018400E | 0450   | 187 |
| 63223897        | 0953   | 205 | 32418400        | 0144   | 180 | S21118400  | 0957   | 205 | FE5A18400A | 0450   | 187 |
| 63224170        | 0608   | 192 | 57818400        | 0184   | 180 | S21118400  | 12658  | 236 | HE1918400A | 0352   | 185 |
| 63224500        | 0608   | 192 | 60418400        | 0341   | 184 | S21118400  | 12659  | 236 | HE1918400B | 0352   | 185 |
| 63224580        | 0608   | 192 | 60518400        | 0341   | 184 | ZZL118400  | 1192   | 213 | HE2018400A | 0352   | 185 |
| 63224600        | 0608   | 192 | 77918400        | 0352   | 185 | ZZLO18400  | 1192   | 213 | V10118400B | 0957   | 205 |
| 63224602        | 0608   | 192 | 134518400       | 0341   | 184 | 478018400A | 0450   | 187 | V10118400B | 12658  | 236 |

| Mazda                 | Nº ZEN        | Pg.        | Mitsubishi | Nº ZEN | Pg. | Mitsubishi | Nº ZEN | Pg. | Mitsubishi | Nº ZEN | Pg. |
|-----------------------|---------------|------------|------------|--------|-----|------------|--------|-----|------------|--------|-----|
| V10118400B            | 12659         | 236        | M3T3381    | 0352   | 185 | M1M72281   | 0679   | 195 | M1T77581   | 1702   | 223 |
| <b>Mercedes Benz</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | MD21674    | 0352   | 185 | M1M74181   | 1702   | 223 | M1T78881   | 0711   | 196 |
| 11519601              | 1651          | 221        | MD81567    | 0450   | 187 | M1Q71281   | 0596   | 192 | M1T80081   | 0806   | 200 |
| 31510401              | 1651          | 221        | ME10AZR    | 0144   | 180 | M1T50471   | 1043   | 208 | M1T80481   | 1774   | 227 |
| 0051511301            | 1023          | 208        | ME12AZR    | 0144   | 180 | M1T60081   | 1592   | 218 | M1T80681   | 1838   | 230 |
| 51512501              | 1629          | 220        | MT36100    | 0595   | 192 | M1T60181   | 1592   | 218 | M1T85781   | 0806   | 200 |
| A0051512201           | 0985          | 206        | MOT20471   | 1706   | 224 | M1T60281   | 0712   | 196 | M1T86781   | 1538   | 217 |
| A0051517601           | 0985          | 206        | MOT20472   | 1706   | 224 | M1T60381   | 0758   | 197 | M1T86782   | 1538   | 217 |
| A0051518301           | 1112          | 211        | MOT20871   | 1774   | 227 | M1T60581   | 1592   | 218 | M1T86882   | 1538   | 217 |
| <b>Mercury Marine</b> | <b>Nº ZEN</b> | <b>Pg.</b> | MOT21271   | 1538   | 217 | M1T70381   | 0600   | 192 | M1T86883   | 1538   | 217 |
| 50834749              | 1454          | 215        | MOT21471   | 1774   | 227 | M1T70481   | 0595   | 192 | M1T90281   | 0806   | 200 |
| 50859171T             | 1454          | 215        | MOT30672   | 1706   | 224 | M1T70482   | 0595   | 192 | M2T10171   | 0144   | 180 |
| <b>Mitsuba</b>        | <b>Nº ZEN</b> | <b>Pg.</b> | MOT30771   | 1706   | 224 | M1T70483   | 0595   | 192 | M2T10271   | 0144   | 180 |
| M61209                | 1849          | 230        | MOT32071   | 1771   | 227 | M1T70485   | 0595   | 192 | M2T10282   | 0352   | 185 |
| SM61209               | 1849          | 230        | MOT35171   | 1706   | 224 | M1T70681   | 0595   | 192 | M2T15772   | 0144   | 180 |
| SM71001               | 1849          | 230        | MOT36071   | 1706   | 224 | M1T70685   | 0595   | 192 | M2T20181   | 0352   | 185 |
| SM71002               | 1849          | 230        | MOT36571   | 0806   | 200 | M1T70686   | 0595   | 192 | M2T20181   | 0853   | 202 |
| SM4423236             | 1548          | 217        | MOT45071   | 1801   | 228 | M1T70687   | 0595   | 192 | M2T20182   | 0352   | 185 |
| <b>Mitsubishi</b>     | <b>Nº ZEN</b> | <b>Pg.</b> | MOT45171   | 1801   | 228 | M1T70881   | 1702   | 223 | M2T20223   | 0352   | 185 |
| MEWR                  | 0144          | 180        | MOT45371   | 1801   | 228 | M1T70981   | 0596   | 192 | M2T20281   | 0352   | 185 |
| MQJR                  | 0144          | 180        | MOT65381   | 1592   | 218 | M1T70985   | 0596   | 192 | M2T20282   | 0352   | 185 |
| 50171                 | 9597          | 235        | MOT65581   | 1592   | 218 | M1T71081   | 0596   | 192 | M2T30481   | 0584   | 191 |
| 79581                 | 0595          | 192        | MOT70281   | 0595   | 192 | M1T71281   | 0596   | 192 | M2T30581   | 0450   | 187 |
| ME031                 | 0144          | 180        | MOT70381   | 0595   | 192 | M1T71381   | 0595   | 192 | M2T30583   | 0450   | 187 |
| ME041                 | 0144          | 180        | MOT70481   | 0595   | 192 | M1T71382   | 0595   | 192 | M2T32281   | 0450   | 187 |
| MQJ1R                 | 0144          | 180        | MOT70681   | 0595   | 192 | M1T71481   | 0596   | 192 | M2T40081   | 0450   | 187 |
| MQJ2R                 | 0144          | 180        | MOT70781   | 0595   | 192 | M1T71581   | 0595   | 192 | M2T42381   | 0584   | 191 |
| MQJ6R                 | 0144          | 180        | MOT70981   | 0595   | 192 | M1T71681   | 0595   | 192 | M2T42881   | 0450   | 187 |
| 232415                | 1046          | 208        | MOT71181   | 0595   | 192 | M1T71881   | 0596   | 192 | M2T44081   | 0450   | 187 |
| 232415                | 12812         | 236        | MOT71381   | 0595   | 192 | M1T72081   | 0595   | 192 | M2T48081   | 0450   | 187 |
| M2T322                | 0450          | 187        | MOT71581   | 0595   | 192 | M1T72085   | 0595   | 192 | M2T48381   | 0836   | 201 |
| M3T244                | 0450          | 187        | MOT71681   | 0595   | 192 | M1T72086   | 0595   | 192 | M2T49881   | 0450   | 187 |
| MCA020                | 0144          | 180        | MOT72581   | 0595   | 192 | M1T72088   | 0595   | 192 | M2T50181   | 1043   | 208 |
| ME10WR                | 0144          | 180        | MOT73281   | 0595   | 192 | M1T72181   | 0596   | 192 | M2T50481   | 1043   | 208 |
| MEA010                | 0144          | 180        | MOT73381   | 0595   | 192 | M1T72182   | 0596   | 192 | M2T50485   | 1043   | 208 |
| MEA011                | 0144          | 180        | MOT77681   | 0595   | 192 | M1T72281   | 0679   | 195 | M2T52181   | 1043   | 208 |
| MEA030                | 0144          | 180        | MOT80285   | 1018   | 207 | M1T72481   | 0617   | 192 | M2T52681   | 1043   | 208 |
| MEA031                | 0144          | 180        | MOT82081   | 0806   | 200 | M1T72581   | 0595   | 192 | M2T52881   | 1043   | 208 |
| MEA040                | 0144          | 180        | MOT86181   | 0806   | 200 | M1T72583   | 0595   | 192 | M2T52881   | 9426   | 234 |
| MEA041                | 0144          | 180        | MOT87681   | 1764   | 226 | M1T72981   | 0711   | 196 | M2T52882   | 1043   | 208 |
| MEA061                | 0144          | 180        | MOT87781   | 1764   | 226 | M1T72985   | 0711   | 196 | M2T53083   | 0595   | 192 |
| MEA071                | 0144          | 180        | MOT87881   | 1756   | 226 | M1T73281   | 0595   | 192 | M2T53083   | 1043   | 208 |
| MEA121                | 0144          | 180        | MOT88481   | 1764   | 226 | M1T73283   | 0595   | 192 | M2T53181   | 1043   | 208 |
| MEC012                | 0144          | 180        | MOT90685   | 1764   | 226 | M1T73381   | 0595   | 192 | M2T53781   | 1043   | 208 |
| MED030                | 0144          | 180        | MOT91981   | 1538   | 217 | M1T73383   | 0595   | 192 | M2T53785   | 1043   | 208 |
| MED031                | 0144          | 180        | MOT92081   | 1538   | 217 | M1T74181   | 1702   | 223 | M2T54085   | 1043   | 208 |
| MED032                | 0144          | 180        | MOT93391   | 0806   | 200 | M1T74281   | 0597   | 192 | M2T54372   | 0957   | 205 |
| MED034                | 0144          | 180        | M1M70685   | 0595   | 192 | M1T74481   | 0597   | 192 | M2T54372   | 12658  | 236 |
| MED041                | 0144          | 180        | M1M70881   | 1702   | 223 | M1T74482   | 0597   | 192 | M2T54372   | 12659  | 236 |
| MED042                | 0144          | 180        | M1M70981   | 0596   | 192 | M1T74581   | 0617   | 192 | M2T54571   | 0957   | 205 |
| MED074                | 0144          | 180        | M1M71281   | 0596   | 192 | M1T74781   | 0711   | 196 | M2T54571   | 12658  | 236 |
| MEO107                | 0427          | 186        | M1M71481   | 0596   | 192 | M1T74785   | 0711   | 196 | M2T54571   | 12659  | 236 |
| MGA060                | 0352          | 185        | M1M72086   | 0595   | 192 | M1T74881   | 0595   | 192 | M2T54571   | 9791   | 235 |
| 1368852               | 0450          | 187        | M1M72181   | 0596   | 192 | M1T76081   | 0801   | 200 | M2T54572   | 0957   | 205 |
| M3T2581               | 0352          | 185        | M1M72182   | 0596   | 192 | M1T77181   | 1018   | 207 | M2T54572   | 12658  | 236 |

| Mitsubishi | Nº ZEN | Pg. | Mitsubishi | Nº ZEN | Pg. | Mitsubishi | Nº ZEN | Pg. | Mitsubishi | Nº ZEN | Pg. |
|------------|--------|-----|------------|--------|-----|------------|--------|-----|------------|--------|-----|
| M2T54572   | 12659  | 236 | M2T66371   | 12659  | 236 | M3M32782   | 0450   | 187 | M3T22581   | 0352   | 185 |
| M2T54572   | 9791   | 235 | M2T66872   | 0957   | 205 | M3Q38882   | 0450   | 187 | M3T22581   | 0450   | 187 |
| M2T55271   | 1046   | 208 | M2T66872   | 12658  | 236 | M3T10071   | 0144   | 180 | M3T22582   | 0352   | 185 |
| M2T55271   | 12812  | 236 | M2T66872   | 12659  | 236 | M3T10072   | 0144   | 180 | M3T22681   | 0352   | 185 |
| M2T56071   | 0957   | 205 | M2T66873   | 0957   | 205 | M3T10171   | 0144   | 180 | M3T22781   | 0352   | 185 |
| M2T56071   | 12658  | 236 | M2T66873   | 12658  | 236 | M3T10172   | 0352   | 185 | M3T24481   | 0352   | 185 |
| M2T56071   | 12659  | 236 | M2T66873   | 12659  | 236 | M3T10271   | 0144   | 180 | M3T24482   | 0352   | 185 |
| M2T56071   | 12660  | 236 | M2T67871   | 0957   | 205 | M3T10272   | 0144   | 180 | M3T24482   | 0450   | 187 |
| M2T56181   | 1047   | 209 | M2T67871   | 12658  | 236 | M3T10371   | 0144   | 180 | M3T24483   | 0352   | 185 |
| M2T56181   | 12812  | 236 | M2T67871   | 12659  | 236 | M3T10372   | 0144   | 180 | M3T24485   | 0352   | 185 |
| M2T56182   | 1047   | 209 | M2T67872   | 0957   | 205 | M3T10473   | 0426   | 186 | M3T24486   | 0352   | 185 |
| M2T56182   | 12812  | 236 | M2T67872   | 12658  | 236 | M3T10475   | 0426   | 186 | M3T24487   | 0352   | 185 |
| M2T56185   | 1047   | 209 | M2T67872   | 12659  | 236 | M3T10476   | 0426   | 186 | M3T24488   | 0352   | 185 |
| M2T56185   | 12812  | 236 | M2T67873   | 0957   | 205 | M3T10572   | 0144   | 180 | M3T25081   | 0352   | 185 |
| M2T56271   | 1047   | 209 | M2T67873   | 12658  | 236 | M3T10672   | 0144   | 180 | M3T25281   | 0352   | 185 |
| M2T56271   | 12812  | 236 | M2T67873   | 12659  | 236 | M3T11172   | 0144   | 180 | M3T25781   | 0352   | 185 |
| M2T56471   | 1046   | 208 | M2T67881   | 0957   | 205 | M3T11173   | 0144   | 180 | M3T25782   | 0352   | 185 |
| M2T56471   | 12812  | 236 | M2T67881   | 1046   | 208 | M3T11174   | 0144   | 180 | M3T25783   | 0352   | 185 |
| M2T56472   | 1046   | 208 | M2T67881   | 12658  | 236 | M3T11272   | 0144   | 180 | M3T25785   | 0352   | 185 |
| M2T57771   | 1047   | 209 | M2T67881   | 12659  | 236 | M3T11372   | 0144   | 180 | M3T25882   | 0352   | 185 |
| M2T57771   | 12812  | 236 | M2T67882   | 0957   | 205 | M3T11373   | 0144   | 180 | M3T25883   | 0352   | 185 |
| M2T57871   | 0957   | 205 | M2T67882   | 1046   | 208 | M3T11772   | 0144   | 180 | M3T25885   | 0352   | 185 |
| M2T57871   | 12658  | 236 | M2T67882   | 12658  | 236 | M3T12372   | 0144   | 180 | M3T25885   | 0450   | 187 |
| M2T57871   | 12659  | 236 | M2T67882   | 12659  | 236 | M3T12572   | 0144   | 180 | M3T25891   | 0352   | 185 |
| M2T57881   | 0957   | 205 | M2T67883   | 0957   | 205 | M3T12672   | 0144   | 180 | M3T27686   | 0352   | 185 |
| M2T57881   | 1046   | 208 | M2T67883   | 1046   | 208 | M3T13071   | 0144   | 180 | M3T27786   | 0450   | 187 |
| M2T57881   | 12658  | 236 | M2T67883   | 12658  | 236 | M3T13072   | 0144   | 180 | M3T29482   | 0450   | 187 |
| M2T57881   | 12659  | 236 | M2T67883   | 12659  | 236 | M3T15072   | 0144   | 180 | M3T29681   | 0352   | 185 |
| M2T58081   | 9495   | 234 | M2T69081   | 1046   | 208 | M3T15073   | 0144   | 180 | M3T30081   | 0352   | 185 |
| M2T58381   | 9495   | 234 | M2T72871   | 1046   | 208 | M3T15074   | 0144   | 180 | M3T30082   | 0352   | 185 |
| M2T58481   | 9495   | 234 | M2T74171   | 1047   | 209 | M3T15075   | 0144   | 180 | M3T30088   | 0352   | 185 |
| M2T58581   | 1043   | 208 | M2T74171   | 12812  | 236 | M3T15171   | 0144   | 180 | M3T30281   | 0352   | 185 |
| M2T60072   | 0957   | 205 | M2T74371   | 1046   | 208 | M3T15271   | 0144   | 180 | M3T30282   | 0352   | 185 |
| M2T60072   | 12658  | 236 | M2T74371   | 12660  | 236 | M3T15372   | 0144   | 180 | M3T30285   | 0352   | 185 |
| M2T60072   | 12659  | 236 | M2T78271   | 0957   | 205 | M3T15675   | 0144   | 180 | M3T30286   | 0352   | 185 |
| M2T61771   | 0957   | 205 | M2T78271   | 12658  | 236 | M3T15772   | 0144   | 180 | M3T30381   | 0352   | 185 |
| M2T61771   | 1046   | 208 | M2T78271   | 12659  | 236 | M3T15872   | 0144   | 180 | M3T30382   | 0352   | 185 |
| M2T61771   | 12658  | 236 | M2T78381   | 1046   | 208 | M3T15972   | 0144   | 180 | M3T30581   | 0450   | 187 |
| M2T61771   | 12659  | 236 | M2T78481   | 1046   | 208 | M3T19171   | 0144   | 180 | M3T30583   | 0450   | 187 |
| M2T62271   | 12660  | 236 | M2T78482   | 1046   | 208 | M3T19271   | 0144   | 180 | M3T30681   | 0450   | 187 |
| M2T62971   | 12812  | 236 | M2T80582   | 1024   | 208 | M3T19471   | 0144   | 180 | M3T30781   | 0352   | 185 |
| M2T64372   | 0957   | 205 | M2T80772   | 0887   | 202 | M3T20081   | 0352   | 185 | M3T30782   | 0352   | 185 |
| M2T64372   | 12658  | 236 | M2T84071   | 1024   | 208 | M3T20181   | 0352   | 185 | M3T30881   | 0450   | 187 |
| M2T64372   | 12659  | 236 | M2T84171   | 1024   | 208 | M3T20381   | 0352   | 185 | M3T30981   | 0450   | 187 |
| M2T64373   | 0957   | 205 | M2T84571   | 1024   | 208 | M3T20681   | 0352   | 185 | M3T32382   | 0352   | 185 |
| M2T64373   | 12658  | 236 | M2T87071   | 1024   | 208 | M3T20781   | 0352   | 185 | M3T32581   | 0352   | 185 |
| M2T64373   | 12659  | 236 | M2T87171   | 1024   | 208 | M3T21281   | 0352   | 185 | M3T32582   | 0352   | 185 |
| M2T65271   | 1046   | 208 | M2T87271   | 1024   | 208 | M3T21281   | 0450   | 187 | M3T32583   | 0352   | 185 |
| M2T65271   | 12812  | 236 | M2T87371   | 1567   | 218 | M3T21282   | 0352   | 185 | M3T32588   | 0450   | 187 |
| M2T65272   | 1046   | 208 | M2T87471   | 1024   | 208 | M3T21381   | 0352   | 185 | M3T32589   | 0450   | 187 |
| M2T65771   | 12660  | 236 | M2T87871   | 1024   | 208 | M3T21381   | 0450   | 187 | M3T32591   | 0450   | 187 |
| M2T66271   | 12660  | 236 | M2T87971   | 1567   | 218 | M3T21781   | 0450   | 187 | M3T32592   | 0450   | 187 |
| M2T66272   | 12660  | 236 | M2T88071   | 1567   | 218 | M3T21882   | 0450   | 187 | M3T32593   | 0450   | 187 |
| M2T66371   | 0957   | 205 | M2T88271   | 1567   | 218 | M3T22081   | 0352   | 185 | M3T32681   | 0352   | 185 |
| M2T66371   | 12658  | 236 | M3M32722   | 0450   | 187 | M3T22381   | 0352   | 185 | M3T32781   | 0352   | 185 |



| Mitsubishi | Nº ZEN | Pg. | Mitsubishi | Nº ZEN | Pg. | Mitsubishi | Nº ZEN | Pg. | Mitsubishi | Nº ZEN | Pg. |
|------------|--------|-----|------------|--------|-----|------------|--------|-----|------------|--------|-----|
| M3T32782   | 0352   | 185 | M3T49781   | 0450   | 187 | M8T60373   | 0887   | 202 | MD016851   | 0450   | 187 |
| M3T32985   | 0836   | 201 | M3T56071   | 1853   | 230 | M8T60374   | 0887   | 202 | MD016863   | 0450   | 187 |
| M3T33081   | 0636   | 193 | M3T56072   | 1853   | 230 | M8T60389   | 0887   | 202 | MD019891   | 0352   | 185 |
| M3T33182   | 0450   | 187 | M3T56074   | 1853   | 230 | M8T60471   | 0887   | 202 | MD019895   | 0352   | 185 |
| M3T33281   | 0450   | 187 | M3T56082   | 1853   | 230 | M8T60489   | 0887   | 202 | MD021665   | 0144   | 180 |
| M3T33282   | 0450   | 187 | M3T56084   | 1853   | 230 | M8T60571   | 0887   | 202 | MD021666   | 0144   | 180 |
| M3T33381   | 0352   | 185 | M3T56471   | 0957   | 205 | M8T60771   | 0887   | 202 | MD021670   | 0144   | 180 |
| M3T33382   | 0352   | 185 | M3T56471   | 12658  | 236 | M8T60773   | 0887   | 202 | MD021672   | 0144   | 180 |
| M3T33581   | 0352   | 185 | M3T56471   | 12659  | 236 | M8T60871   | 0887   | 202 | MD021674   | 0352   | 185 |
| M3T33582   | 0352   | 185 | M3T57371   | 0957   | 205 | M8T70071   | 1563   | 218 | MD021676   | 0144   | 180 |
| M3T33583   | 0352   | 185 | M3T57371   | 12658  | 236 | M8T70371   | 0887   | 202 | MD021679   | 0144   | 180 |
| M3T33585   | 0352   | 185 | M3T57371   | 12659  | 236 | M8T70971   | 0887   | 202 | MD021686   | 0144   | 180 |
| M3T33586   | 0352   | 185 | M3T57575   | 0887   | 202 | M8T71571   | 0887   | 202 | MD027400   | 0352   | 185 |
| M3T33587   | 0352   | 185 | M3T57575   | 12658  | 236 | M8T75073   | 1563   | 218 | MD027401   | 0352   | 185 |
| M3T33588   | 0352   | 185 | M3T57575   | 12659  | 236 | M8T75171   | 0887   | 202 | MD034120   | 0352   | 185 |
| M3T35081   | 0352   | 185 | M3T66071   | 0957   | 205 | M8T77071   | 0887   | 202 | MD034121   | 0352   | 185 |
| M3T35082   | 0352   | 185 | M3T66071   | 12658  | 236 | M8T77072   | 0887   | 202 | MD050205   | 1577   | 218 |
| M3T35088   | 0352   | 185 | M3T66071   | 12659  | 236 | M8T77074   | 0887   | 202 | MD066761   | 0450   | 187 |
| M3T3586D   | 0450   | 187 | M3T66072   | 0957   | 205 | M8T77075   | 0887   | 202 | MD069166   | 1047   | 209 |
| M3T38082   | 0450   | 187 | M3T66072   | 12658  | 236 | M8T78611   | 1563   | 218 | MD069166   | 12812  | 236 |
| M3T38181   | 0450   | 187 | M3T66072   | 12659  | 236 | M8T80071   | 0887   | 202 | MD070934   | 1047   | 209 |
| M3T38381   | 0450   | 187 | M3T66073   | 0957   | 205 | M8T80171   | 0887   | 202 | MD070934   | 12812  | 236 |
| M3T38481   | 0450   | 187 | M3T66073   | 12658  | 236 | M8T80371   | 0887   | 202 | MD081567   | 0450   | 187 |
| M3T38581   | 0450   | 187 | M3T66073   | 12659  | 236 | M8T80372   | 0887   | 202 | MD081568   | 0450   | 187 |
| M3T38682   | 0450   | 187 | M3T66074   | 0957   | 205 | M8T80373   | 0887   | 202 | MD084414   | 1047   | 209 |
| M3T38881   | 0450   | 187 | M3T66074   | 12658  | 236 | M8T80374   | 0887   | 202 | MD084414   | 12812  | 236 |
| M3T38882   | 0450   | 187 | M3T66074   | 12659  | 236 | M8T80772   | 0887   | 202 | MD085730   | 0352   | 185 |
| M3T38883   | 0450   | 187 | M3T67771   | 9791   | 235 | M8T80789   | 0887   | 202 | MD099667   | 0595   | 192 |
| M3T38884   | 0450   | 187 | M3T70081   | 0450   | 187 | M8T85071   | 0887   | 202 | MD099673   | 1043   | 208 |
| M3T38885   | 0450   | 187 | M3T90011   | 0670   | 195 | M8T85171   | 0887   | 202 | MD100431   | 0450   | 187 |
| M3T38981   | 0450   | 187 | M3T90071   | 0670   | 195 | M8T85271   | 0887   | 202 | MD101219   | 0450   | 187 |
| M3T38982   | 0450   | 187 | M3T90072   | 0669   | 194 | M8T85471   | 0887   | 202 | MD107614   | 0450   | 187 |
| M3T39182   | 0352   | 185 | M3T90072   | 0670   | 195 | M8T85571   | 0887   | 202 | MD107615   | 0450   | 187 |
| M3T39385   | 0450   | 187 | M3V38881   | 0450   | 187 | M8T87071   | 0887   | 202 | MD112625   | 0595   | 192 |
| M3T39481   | 0450   | 187 | M3V38882   | 0450   | 187 | M8T87171   | 0887   | 202 | MD136933   | 0595   | 192 |
| M3T39523   | 0450   | 187 | M3Y24482   | 0450   | 187 | M9T61671   | 1661   | 221 | MD161437   | 0450   | 187 |
| M3T39981   | 0450   | 187 | M4T14674   | 0144   | 180 | M9T80071   | 1808   | 228 | MD162836   | 0450   | 187 |
| M3T41081   | 0450   | 187 | M4T14372   | 0144   | 180 | M9T80472   | 12967  | 236 | MD162837   | 0450   | 187 |
| M3T41083   | 0450   | 187 | M4T14572   | 0144   | 180 | M9T80472   | 1808   | 228 | MD162838   | 0450   | 187 |
| M3T41088   | 0450   | 187 | M4T14672   | 0144   | 180 | M9T80473   | 1808   | 228 | MD162839   | 0595   | 192 |
| M3T41181   | 0450   | 187 | M4T14673   | 0144   | 180 | M9T82071   | 1808   | 228 | MD162840   | 0595   | 192 |
| M3T41185   | 0450   | 187 | M4T14674   | 0144   | 180 | M9T82479   | 1808   | 228 | MD162842   | 0595   | 192 |
| M3T41186   | 0450   | 187 | M4T14771   | 0144   | 180 | M9T83671   | 1808   | 228 | MD162843   | 0595   | 192 |
| M3T41282   | 0450   | 187 | M4T14872   | 0144   | 180 | MC108027   | 0636   | 193 | MD163188   | 0595   | 192 |
| M3T41285   | 0450   | 187 | M4T41672   | 0144   | 180 | MD001333   | 0352   | 185 | MD164866   | 0450   | 187 |
| M3T41681   | 0450   | 187 | M8I50071   | 0887   | 202 | MD001550   | 0144   | 180 | MD164975   | 1047   | 209 |
| M3T42781   | 0450   | 187 | M8I50071   | 9597   | 235 | MD001552   | 0144   | 180 | MD164975   | 12812  | 236 |
| M3T42881   | 0450   | 187 | M8T50171   | 0887   | 202 | MD001553   | 0144   | 180 | MD164976   | 1047   | 209 |
| M3T43381   | 0450   | 187 | M8T50271   | 0887   | 202 | MD001555   | 0352   | 185 | MD164976   | 12812  | 236 |
| M3T43481   | 0450   | 187 | M8T50471   | 0887   | 202 | MD003550   | 0144   | 180 | MD170049   | 0595   | 192 |
| M3T43581   | 0450   | 187 | M8T55171   | 0887   | 202 | MD003551   | 0144   | 180 | MD172860   | 0595   | 192 |
| M3T48181   | 0450   | 187 | M8T55471   | 0887   | 202 | MD011550   | 0144   | 180 | MD172861   | 0595   | 192 |
| M3T49381   | 0450   | 187 | M8T60073   | 0887   | 202 | MD011550   | 0184   | 180 | MD172863   | 0595   | 192 |
| M3T49581   | 0450   | 187 | M8T60371   | 0887   | 202 | MD011553   | 0144   | 180 | MD172864   | 0595   | 192 |
| M3T49585   | 0450   | 187 | M8T60372   | 0887   | 202 | MD016729   | 0450   | 187 | MD174482   | 0595   | 192 |

| Mitsubishi | Nº ZEN | Pg. | Mitsubishi | Nº ZEN | Pg. | Mitsubishi  | Nº ZEN | Pg. | Mitsubishi          | Nº ZEN        | Pg.        |
|------------|--------|-----|------------|--------|-----|-------------|--------|-----|---------------------|---------------|------------|
| MD174483   | 0595   | 192 | M1T71481A  | 0596   | 192 | MD 100431   | 0450   | 187 | M009T625727         | 1661          | 221        |
| MD180238   | 0450   | 187 | M1T72086A  | 0595   | 192 | MD0019891   | 0352   | 185 | M000T20771ZC        | 1876          | 231        |
| MD180239   | 0450   | 187 | M1T72181A  | 0596   | 192 | MT87781ZC   | 1764   | 226 | M000T20777ZC        | 1876          | 231        |
| MD180937   | 0595   | 192 | M1T72182A  | 0596   | 192 | N31818400   | 1702   | 223 | M000t20871ZE        | 1774          | 227        |
| MD182488   | 0595   | 192 | M1T72281A  | 0679   | 195 | N32718400   | 1702   | 223 | M000T32071ZC        | 1771          | 227        |
| MD184420   | 1885   | 232 | M1T723281  | 0595   | 192 | N3A118400   | 1702   | 223 | M000T32175ZC        | 1761          | 226        |
| MD188720   | 0595   | 192 | M1T74181A  | 1702   | 223 | 56041012AB  | 0597   | 192 | M000T33871ZC        | 0806          | 200        |
| MD188721   | 0595   | 192 | M2T20181A  | 0352   | 185 | M000T20471  | 1706   | 224 | M000t33871ZT        | 0806          | 200        |
| MD189054   | 0450   | 187 | M2T20181D  | 0853   | 202 | M000T20472  | 1706   | 224 | M000t88481ZC        | 1764          | 226        |
| MD192222   | 0450   | 187 | M3MT30583  | 0450   | 187 | M000T20771  | 1876   | 231 | M001T74287ZC        | 0825          | 201        |
| MD192228   | 0450   | 187 | M3T016851  | 0450   | 187 | M000T30672  | 1706   | 224 | M001T84381ZC        | 0597          | 192        |
| MD315548   | 1024   | 208 | M3T016863  | 0450   | 187 | M000T30771  | 1706   | 224 | M002T85971ZT        | 1807          | 228        |
| MD318086   | 0596   | 192 | M3T066761  | 0450   | 187 | M000T32071  | 1771   | 227 | M002T86071ZT        | 1807          | 228        |
| ME007517   | 0957   | 205 | M3T110172  | 0352   | 185 | M000T32572  | 1706   | 224 | M002T88771ZA        | 1063          | 209        |
| ME007517   | 12658  | 236 | M3T11173Q  | 0144   | 180 | M000T34171  | 1876   | 231 | <b>Mitsui Deutz</b> | <b>Nº ZEN</b> | <b>Pg.</b> |
| ME007517   | 12659  | 236 | M3T14482J  | 0450   | 187 | M000T35171  | 1706   | 224 | 4413040             | 0894          | 203        |
| ME008815   | 0957   | 205 | M3T162838  | 0450   | 187 | M000T36071  | 1706   | 224 | 4413390             | 0894          | 203        |
| ME008815   | 12658  | 236 | M3T164866  | 0450   | 187 | M000T36571  | 0806   | 200 | <b>Motorcraft</b>   | <b>Nº ZEN</b> | <b>Pg.</b> |
| ME008815   | 12659  | 236 | M3T189054  | 0450   | 187 | M000T39671  | 1876   | 231 | SA934               | 1871          | 231        |
| ME012994   | 0887   | 202 | M3T20681A  | 0352   | 185 | M000T60181  | 0712   | 196 | SA999RM             | 1871          | 231        |
| ME012995   | 0887   | 202 | M3T21281D  | 0450   | 187 | M000T65381  | 1592   | 218 | SA1057RM            | 1871          | 231        |
| ME013008   | 0887   | 202 | M3T21381D  | 0450   | 187 | M000T65581  | 1592   | 218 | 6S4Z11002AA         | 1585          | 218        |
| ME014418   | 0887   | 202 | M3T21781D  | 0450   | 187 | M000T87881  | 1756   | 226 | <b>Nastra</b>       | <b>Nº ZEN</b> | <b>Pg.</b> |
| ME017034   | 0957   | 205 | M3T21882D  | 0450   | 187 | M000T92581  | 0595   | 192 | S17847              | 1548          | 217        |
| ME017034   | 12658  | 236 | M3T24482A  | 0352   | 185 | M001T79482  | 0825   | 201 | <b>New Holland</b>  | <b>Nº ZEN</b> | <b>Pg.</b> |
| ME017034   | 12659  | 236 | M3T24482H  | 0450   | 187 | M002T56971  | 1577   | 218 | KOH2409801          | 1885          | 232        |
| ME017035   | 0957   | 205 | M3T24482K  | 0450   | 187 | M002T61071  | 1577   | 218 | SBA185086050        | 0684          | 195        |
| ME017035   | 12658  | 236 | M3T24486A  | 0352   | 185 | M002T61171  | 1577   | 218 | SBA185086051        | 0684          | 195        |
| ME017035   | 12659  | 236 | M3T24486H  | 0450   | 187 | M002T87071  | 1024   | 208 | SBA185086052        | 0684          | 195        |
| ME017056   | 0957   | 205 | M3T25252H  | 0450   | 187 | M002T87371  | 1567   | 218 | SBA185086141        | 0684          | 195        |
| ME017056   | 12658  | 236 | M3T25282H  | 0450   | 187 | M002T87671  | 1063   | 209 | SBA185086350        | 0684          | 195        |
| ME017056   | 12659  | 236 | M3T25285A  | 0450   | 187 | M002T87771  | 1063   | 209 | <b>Nikko</b>        | <b>Nº ZEN</b> | <b>Pg.</b> |
| ME017061   | 0957   | 205 | M3T25885A  | 0450   | 187 | M002T87971  | 1567   | 218 | 230000031           | 0895          | 203        |
| ME017061   | 12658  | 236 | M3T27686D  | 0450   | 187 | M002T88071  | 1567   | 218 | 230000032           | 0895          | 203        |
| ME017061   | 12659  | 236 | M3T29482D  | 0450   | 187 | M002T88271  | 1567   | 218 | 230000042           | 0895          | 203        |
| ME202424   | 1563   | 218 | M3T302589  | 0450   | 187 | M008T75073  | 1563   | 218 | 230000060           | 0895          | 203        |
| ME202970   | 1563   | 218 | M3T32782D  | 0450   | 187 | M009T62571  | 12972  | 237 | 230000063           | 0895          | 203        |
| ME204425   | 1563   | 218 | M3T335081  | 0352   | 185 | M009T62571  | 1661   | 221 | 230000240           | 0895          | 203        |
| MED10AZR   | 0144   | 180 | M3T335820  | 0352   | 185 | M0T21271ZC  | 1538   | 217 | 230000332           | 0895          | 203        |
| MG120413   | 0957   | 205 | M3T33582A  | 0352   | 185 | M0T87781ZC  | 1764   | 226 | 230000450           | 0895          | 203        |
| MG120413   | 12658  | 236 | M3T33586A  | 0352   | 185 | M0T90685ZC  | 1764   | 226 | <b>Nippon</b>       | <b>Nº ZEN</b> | <b>Pg.</b> |
| MG120413   | 12659  | 236 | M3T388682  | 0450   | 187 | M0T91981ZC  | 1538   | 217 | 1280007390          | 1555          | 217        |
| MM111514   | 0352   | 185 | M3T38881A  | 0450   | 187 | M0T92081ZC  | 1538   | 217 | 1280008400          | 1555          | 217        |
| MM115513   | 0352   | 185 | M3T38881B  | 0450   | 187 | M1T86781ZC  | 1538   | 217 | 1280009700          | 1863          | 231        |
| MM115514   | 0352   | 185 | M3T38881C  | 0450   | 187 | M1T86782ZC  | 1538   | 217 | 1280009701          | 1863          | 231        |
| MM115517   | 0352   | 185 | M3T38882A  | 0450   | 187 | M1T86883ZC  | 1538   | 217 | 1280009710          | 1555          | 217        |
| MM115518   | 1043   | 208 | M3T38882B  | 0450   | 187 | M1T86884ZC  | 1538   | 217 | 1280009720          | 1555          | 217        |
| MM115518   | 9426   | 234 | M3T38882C  | 0450   | 187 | M3T4010081  | 0450   | 187 | 2280000220          | 1864          | 231        |
| 901286806  | 0450   | 187 | M8T75073A  | 1563   | 218 | MB30118X45  | 1054   | 209 | 2280000810          | 1863          | 231        |
| M08T87881  | 0806   | 200 | M8T80071A  | 0887   | 202 | MD 318086   | 0596   | 192 | 2280000820          | 1555          | 217        |
| M1T70685A  | 0595   | 192 | M8T80071B  | 0887   | 202 | N31818400A  | 1702   | 223 | 2280000822          | 1555          | 217        |
| M1T70881A  | 1702   | 223 | M8T85071A  | 0887   | 202 | N31818400B  | 1702   | 223 | 2280000823          | 1555          | 217        |
| M1T70981A  | 0596   | 192 | M8T85071B  | 0887   | 202 | N32718400A  | 1702   | 223 | 2280000830          | 1555          | 217        |
| M1T71281A  | 0596   | 192 | M8T85171A  | 0887   | 202 | N3A1184400  | 1702   | 223 | 2280000831          | 1555          | 217        |
| M1T71281B  | 0596   | 192 | M8T85271B  | 0887   | 202 | M009T625727 | 12972  | 237 | 2280000832          | 1555          | 217        |

| Nippon             | Nº ZEN        | Pg.        | Nippondenso | Nº ZEN | Pg. | Nippondenso | Nº ZEN | Pg. | Nippondenso | Nº ZEN | Pg. |
|--------------------|---------------|------------|-------------|--------|-----|-------------|--------|-----|-------------|--------|-----|
| 2280001910         | 1555          | 217        | 228000180   | 1212   | 214 | 280002661   | 0184   | 180 | 280004243   | 9186   | 234 |
| 2280002050         | 1863          | 231        | 228000180   | 9632   | 235 | 280002681   | 0140   | 180 | 280004250   | 9186   | 234 |
| 2280002051         | 1863          | 231        | 228000205   | 9504   | 235 | 280002890   | 0184   | 180 | 280004251   | 9186   | 234 |
| 2280002260         | 1863          | 231        | 228000226   | 9504   | 235 | 280002911   | 9186   | 234 | 280004252   | 9186   | 234 |
| 2280002261         | 1863          | 231        | 228000340   | 9632   | 235 | 280002930   | 0184   | 180 | 280004253   | 9186   | 234 |
| 2280002500         | 1555          | 217        | 228000399   | 9504   | 235 | 280002931   | 0184   | 180 | 280004270   | 0327   | 184 |
| 2280003220         | 1555          | 217        | 228000504   | 9504   | 235 | 280002932   | 0184   | 180 | 280004320   | 9186   | 234 |
| 2280003990         | 1863          | 231        | 228000642   | 9504   | 235 | 280002933   | 0184   | 180 | 280004321   | 9186   | 234 |
| 2280003991         | 1863          | 231        | 228000720   | 9504   | 235 | 280002970   | 0341   | 184 | 280004322   | 9186   | 234 |
| 2280003992         | 1863          | 231        | 280000430   | 0184   | 180 | 280003000   | 0184   | 180 | 280004323   | 9186   | 234 |
| 2280005490         | 1555          | 217        | 280000960   | 0946   | 205 | 280003051   | 0140   | 180 | 280004330   | 0140   | 180 |
| 2280005670         | 1555          | 217        | 280001010   | 0327   | 184 | 280003051   | 0327   | 184 | 280004340   | 9186   | 234 |
| 2280005680         | 1555          | 217        | 280001661   | 9186   | 234 | 280003052   | 0327   | 184 | 280004341   | 9186   | 234 |
| 2280006170         | 1555          | 217        | 280001730   | 0184   | 180 | 280003100   | 0327   | 184 | 280004342   | 9186   | 234 |
| 2280006172         | 1555          | 217        | 280001940   | 0184   | 180 | 280003240   | 0184   | 180 | 280004343   | 0947   | 205 |
| 2280006173         | 1555          | 217        | 280001940   | 0327   | 184 | 280003241   | 0184   | 180 | 280004343   | 1722   | 224 |
| 2280006270         | 1555          | 217        | 280001941   | 0327   | 184 | 280003290   | 0434   | 187 | 280004343   | 9186   | 234 |
| 2280006271         | 1555          | 217        | 280001970   | 0184   | 180 | 280003292   | 0434   | 187 | 280004390   | 0946   | 205 |
| 2280006272         | 1555          | 217        | 280001970   | 0327   | 184 | 280003320   | 0184   | 180 | 280004440   | 0327   | 184 |
| 2280006273         | 1555          | 217        | 280001971   | 0184   | 180 | 280003330   | 0184   | 180 | 280004450   | 0947   | 205 |
| 2280006280         | 1555          | 217        | 280001971   | 0327   | 184 | 280003331   | 0184   | 180 | 280004450   | 1722   | 224 |
| 2280006281         | 1555          | 217        | 280001972   | 0184   | 180 | 280003332   | 0184   | 180 | 280004450   | 9186   | 234 |
| 2280006283         | 1555          | 217        | 280001972   | 0327   | 184 | 280003500   | 0184   | 180 | 280004480   | 0327   | 184 |
| 2280006420         | 1863          | 231        | 280001973   | 0184   | 180 | 280003610   | 0343   | 184 | 280004500   | 0184   | 180 |
| 2280006421         | 1863          | 231        | 280001973   | 0327   | 184 | 280003611   | 0343   | 184 | 280004510   | 9186   | 234 |
| 2280007200         | 1863          | 231        | 280001975   | 0327   | 184 | 280003650   | 0434   | 187 | 280004512   | 9186   | 234 |
| 2280007201         | 1863          | 231        | 280001976   | 0327   | 184 | 280003690   | 0434   | 187 | 280004520   | 0184   | 180 |
| 2280009600         | 1555          | 217        | 280002000   | 0327   | 184 | 280003710   | 0140   | 180 | 280004530   | 0184   | 180 |
| <b>Nippondenso</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 280002001   | 0327   | 184 | 280003710   | 0327   | 184 | 280004540   | 9186   | 234 |
| 015861N            | 1473          | 215        | 280002040   | 0341   | 184 | 280003800   | 0184   | 180 | 280004550   | 9186   | 234 |
| 1383240            | 1473          | 215        | 280002041   | 0341   | 184 | 280003830   | 0184   | 180 | 280004580   | 0327   | 184 |
| 28004822           | 0327          | 184        | 280002042   | 0341   | 184 | 280003841   | 0184   | 180 | 280004600   | 0184   | 180 |
| 112309T26          | 1473          | 215        | 280002140   | 0184   | 180 | 280003900   | 0184   | 180 | 280004601   | 0184   | 180 |
| 128000283          | 9504          | 235        | 280002141   | 0184   | 180 | 280003901   | 0184   | 180 | 280004630   | 0184   | 180 |
| 128000533          | 0948          | 205        | 280002150   | 0184   | 180 | 280003920   | 0327   | 184 | 280004640   | 0327   | 184 |
| 128000597          | 0948          | 205        | 280002151   | 0184   | 180 | 280003921   | 0327   | 184 | 280004650   | 0184   | 180 |
| 128000708          | 9504          | 235        | 280002160   | 0341   | 184 | 280003930   | 0434   | 187 | 280004660   | 0184   | 180 |
| 128000721          | 9186          | 234        | 280002161   | 0341   | 184 | 280003970   | 0434   | 187 | 280004680   | 0184   | 180 |
| 128000723          | 0948          | 205        | 280002220   | 12609  | 236 | 280003971   | 0434   | 187 | 280004690   | 0184   | 180 |
| 128000746          | 9504          | 235        | 280002240   | 0184   | 180 | 280004010   | 1722   | 224 | 280004691   | 0184   | 180 |
| 128000830          | 9260          | 234        | 280002241   | 0184   | 180 | 280004020   | 9186   | 234 | 280004700   | 0184   | 180 |
| 128000832          | 1213          | 214        | 280002250   | 0140   | 180 | 280004021   | 9186   | 234 | 280004710   | 0184   | 180 |
| 128000970          | 9504          | 235        | 280002250   | 0327   | 184 | 280004030   | 0184   | 180 | 280004721   | 0341   | 184 |
| 128005080          | 9186          | 234        | 280002260   | 0140   | 180 | 280004031   | 0184   | 180 | 280004810   | 0327   | 184 |
| 128005670          | 9349          | 234        | 280002260   | 0327   | 184 | 280004032   | 0184   | 180 | 280004820   | 0327   | 184 |
| 128007210          | 9186          | 234        | 280002261   | 0327   | 184 | 280004040   | 0184   | 180 | 280004822   | 0327   | 184 |
| 185086440          | 0841          | 201        | 280002262   | 0327   | 184 | 280004041   | 0184   | 180 | 280004900   | 9186   | 234 |
| 228000022          | 1212          | 214        | 280002263   | 0327   | 184 | 280004042   | 0184   | 180 | 280004930   | 0607   | 192 |
| 228000022          | 9542          | 235        | 280002330   | 0327   | 184 | 280004044   | 9186   | 234 | 280004940   | 9186   | 234 |
| 228000036          | 9492          | 234        | 280002364   | 0140   | 180 | 280004050   | 0184   | 180 | 280004951   | 9186   | 234 |
| 228000081          | 9504          | 235        | 280002570   | 0327   | 184 | 280004090   | 0184   | 180 | 280004980   | 0327   | 184 |
| 228000136          | 0948          | 205        | 280002571   | 0327   | 184 | 280004180   | 0184   | 180 | 280005000   | 9349   | 234 |
| 228000138          | 0948          | 205        | 280002572   | 0327   | 184 | 280004240   | 9186   | 234 | 280005000   | 9403   | 234 |
| 228000139          | 0948          | 205        | 280002660   | 0140   | 180 | 280004241   | 9186   | 234 | 280005040   | 0434   | 187 |
| 228000140          | 0948          | 205        | 280002660   | 0184   | 180 | 280004242   | 9186   | 234 | 280005060   | 0946   | 205 |

| Nippondenso | Nº ZEN | Pg. | Nippondenso | Nº ZEN | Pg. | Nippondenso | Nº ZEN | Pg. | Nippondenso | Nº ZEN | Pg. |
|-------------|--------|-----|-------------|--------|-----|-------------|--------|-----|-------------|--------|-----|
| 280005060   | 9260   | 234 | 280006360   | 9186   | 234 | 280007431   | 0434   | 187 | 280008761   | 0921   | 204 |
| 280005070   | 0184   | 180 | 280006361   | 9186   | 234 | 280007460   | 0140   | 180 | 280008762   | 0921   | 204 |
| 280005071   | 0184   | 180 | 280006362   | 0947   | 205 | 280007461   | 0140   | 180 | 280008762   | 1215   | 214 |
| 280005090   | 0339   | 184 | 280006362   | 1722   | 224 | 280007470   | 0140   | 180 | 280008850   | 0947   | 205 |
| 280005091   | 0339   | 184 | 280006362   | 9186   | 234 | 280007480   | 0343   | 184 | 280008850   | 1722   | 224 |
| 280005092   | 0339   | 184 | 280006422   | 0140   | 180 | 280007520   | 0140   | 180 | 280008980   | 9678   | 235 |
| 280005100   | 9186   | 234 | 280006440   | 0946   | 205 | 280007521   | 0140   | 180 | 280009010   | 0140   | 180 |
| 280005220   | 0342   | 184 | 280006440   | 9260   | 234 | 280007550   | 9186   | 234 | 280009020   | 0140   | 180 |
| 280005230   | 0342   | 184 | 280006450   | 0947   | 205 | 280007560   | 0947   | 205 | 280009070   | 0947   | 205 |
| 280005270   | 0341   | 184 | 280006450   | 1722   | 224 | 280007560   | 1722   | 224 | 280009070   | 1722   | 224 |
| 280005280   | 0184   | 180 | 280006494   | 0140   | 180 | 280007560   | 9186   | 234 | 280009070   | 9186   | 234 |
| 280005420   | 0341   | 184 | 280006520   | 0341   | 184 | 280007620   | 0947   | 205 | 280009120   | 9186   | 234 |
| 280005430   | 0327   | 184 | 280006560   | 9301   | 234 | 280007620   | 1722   | 224 | 280009121   | 9186   | 234 |
| 280005470   | 0327   | 184 | 280006561   | 9301   | 234 | 280007620   | 9186   | 234 | 280009260   | 0947   | 205 |
| 280005490   | 9301   | 234 | 280006620   | 9186   | 234 | 280007700   | 9186   | 234 | 280009260   | 1722   | 224 |
| 280005580   | 9301   | 234 | 280006640   | 9301   | 234 | 280007730   | 9349   | 234 | 280009260   | 9186   | 234 |
| 280005581   | 9301   | 234 | 280006701   | 9186   | 234 | 280007730   | 9403   | 234 | 280009270   | 9186   | 234 |
| 280005593   | 9301   | 234 | 280006710   | 9186   | 234 | 280007780   | 0140   | 180 | 280009300   | 0946   | 205 |
| 280005720   | 0341   | 184 | 280006711   | 9186   | 234 | 280007790   | 0946   | 205 | 280009320   | 9186   | 234 |
| 280005750   | 0341   | 184 | 280006780   | 9402   | 234 | 280007790   | 9260   | 234 | 280009321   | 9186   | 234 |
| 280005820   | 9186   | 234 | 280006790   | 0184   | 180 | 280007791   | 0946   | 205 | 280009340   | 9186   | 234 |
| 280005821   | 9186   | 234 | 280006800   | 0140   | 180 | 280007791   | 9260   | 234 | 280009380   | 0947   | 205 |
| 280005822   | 9186   | 234 | 280006810   | 0140   | 180 | 280007810   | 9301   | 234 | 280009380   | 1722   | 224 |
| 280005850   | 9301   | 234 | 280006813   | 0140   | 180 | 280007830   | 12609  | 236 | 280009380   | 9186   | 234 |
| 280005860   | 9301   | 234 | 280006823   | 0140   | 180 | 280007981   | 0140   | 180 | 280009430   | 0686   | 195 |
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| 2330044R11 | 0596   | 192 |
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| 2330045N51 | 1862   | 231 |
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| 23300E3001 | 0141   | 180 |
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| 23300E3101 | 0141   | 180 |
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| 23300KA010 | 0517   | 189 |
| 23300KA160 | 0517   | 189 |
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| 23300KA440 | 0517   | 189 |
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| 23300M4904 | 0791   | 199 |
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| 23300M5901 | 0382   | 185 |
| 23300M5903 | 0382   | 185 |
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| 23300M8101 | 0554   | 190 |
| 23300M8110 | 0519   | 189 |
| 23300M8200 | 0517   | 189 |
| 23300M8201 | 0517   | 189 |
| 23300M8301 | 0554   | 190 |
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| 23300P5112 | 0352   | 185 | 23300V7260  | 0790   | 199 | STR3622                 | 1548          | 217        | D9E76       | 0287   | 182 |
| 23300P5113 | 0352   | 185 | 23300VO703  | 0790   | 199 | <b>OMC</b>              | <b>Nº ZEN</b> | <b>Pg.</b> | D9E77       | 0287   | 182 |
| 23300P5113 | 0450   | 187 | 23300W0400  | 0351   | 185 | 387094                  | 1669          | 222        | D9E78       | 0287   | 182 |
| 23300P5114 | 0450   | 187 | 23300W0401  | 0351   | 185 | 395207                  | 1669          | 222        | D9E79       | 0287   | 182 |
| 23300Q2403 | 1862   | 231 | 23300W0402  | 0499   | 189 | 585062                  | 1669          | 222        | D9E81       | 0287   | 182 |
| 23300Q2404 | 1862   | 231 | 23300W0403  | 0499   | 189 | 586288                  | 1669          | 222        | D9E85       | 0287   | 182 |
| 23300Q2405 | 1862   | 231 | 23300W0413  | 0450   | 187 | 5032433                 | 1656          | 221        | D9E86       | 0287   | 182 |
| 23300Q2406 | 1862   | 231 | 23300W0417  | 0450   | 187 | <b>Onan</b>             | <b>Nº ZEN</b> | <b>Pg.</b> | D9R84       | 0936   | 204 |
| 23300R2000 | 0737   | 196 | 23300W1000  | 0737   | 196 | 1911906                 | 1885          | 232        | D9R89       | 0961   | 206 |
| 23300R2000 | 9488   | 234 | 23300W1000  | 9488   | 234 | 1912107                 | 1885          | 232        | D9R99       | 0961   | 206 |
| 23300R9000 | 0352   | 185 | 23300W1002  | 0737   | 196 | 19911052                | 0427          | 186        | D10E85      | 0570   | 191 |
| 23300S0100 | 0351   | 185 | 23300W1002  | 9488   | 234 | 191168202               | 0943          | 205        | D10E92      | 0570   | 191 |
| 23300T3400 | 0448   | 187 | 23300W1011  | 1043   | 208 | 191168203               | 0943          | 205        | D11E79      | 0217   | 181 |
| 23300T3470 | 0448   | 187 | 23300W2500  | 0790   | 199 | 191168205               | 0943          | 205        | D8E121      | 0248   | 182 |
| 23300T5070 | 0352   | 185 | 23300W2804  | 0790   | 199 | 191176002               | 0943          | 205        | D8E130      | 0285   | 182 |
| 23300T5070 | 0450   | 187 | 23300W2804  | 9527   | 235 | 191180803               | 0943          | 205        | D8E131      | 0285   | 182 |
| 23300T5072 | 0450   | 187 | 23300W3101  | 0448   | 187 | 191180805               | 0943          | 205        | D8E142      | 0248   | 182 |
| 23300T5600 | 0448   | 187 | 23300W7000  | 0737   | 196 | 191180806               | 0943          | 205        | D8E152      | 0248   | 182 |
| 23300T5601 | 0448   | 187 | 23300W7000  | 9488   | 234 | 191194903               | 0943          | 205        | D9E100      | 0287   | 182 |
| 23300U0100 | 0351   | 185 | 23300W7001  | 0737   | 196 | 191194905               | 0943          | 205        | D9E101      | 0287   | 182 |
| 23300U0101 | 0351   | 185 | 23300W7001  | 9488   | 234 | 191194906               | 0943          | 205        | D9E109      | 0287   | 182 |
| 23300U0102 | 0351   | 185 | 23300W7011  | 1043   | 208 | 191194909               | 0943          | 205        | D9E110      | 0287   | 182 |
| 23300U0113 | 0352   | 185 | 23300Y0700  | 0351   | 185 | <b>Orenstein Koppel</b> | <b>Nº ZEN</b> | <b>Pg.</b> | D9E113      | 0287   | 182 |
| 23300U0114 | 0352   | 185 | 23300Y0701  | 0351   | 185 | 6209190                 | 0308          | 183        | D9E114      | 0287   | 182 |
| 23300U0601 | 0351   | 185 | 23300Y0715  | 0450   | 187 | <b>Pal</b>              | <b>Nº ZEN</b> | <b>Pg.</b> | D9E123      | 0287   | 182 |
| 23300U0602 | 0351   | 185 | 23300Y1400  | 0448   | 187 | 2928                    | 0902          | 203        | D9E124      | 0287   | 182 |
| 23300U6001 | 0351   | 185 | 23300Y1403  | 0448   | 187 | 976117                  | 0902          | 203        | D9E125      | 0287   | 182 |
| 23300U6002 | 0351   | 185 | 23300Y1405  | 0448   | 187 | <b>Paris Rhone</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | D9E127      | 0287   | 182 |
| 23300U6003 | 0351   | 185 | 23300Y7000  | 0737   | 196 | D8E81                   | 0248          | 182        | D9E129      | 0287   | 182 |
| 23300U6004 | 0351   | 185 | 23300Y7000  | 9488   | 234 | D8E83                   | 0189          | 181        | D9E771      | 0287   | 182 |
| 23300U6005 | 0351   | 185 | 23300Y7001  | 0737   | 196 | D9E12                   | 0248          | 182        | D9E773      | 0287   | 182 |
| 23300U7500 | 0737   | 196 | 23300Y7001  | 9488   | 234 | D9E20                   | 0248          | 182        | D9R112      | 0961   | 206 |
| 23300U7500 | 9488   | 234 | 23300Z5505  | 0901   | 203 | D9E22                   | 0248          | 182        | D9R118      | 0961   | 206 |
| 23300U7501 | 0737   | 196 | 23300Z5509  | 0901   | 203 | D9E26                   | 0248          | 182        | D9R121      | 0936   | 204 |
| 23300U7501 | 9488   | 234 | 23300Z5512  | 0901   | 203 | D9E34                   | 0248          | 182        | D9R122      | 0961   | 206 |
| 23300U7502 | 0737   | 196 | 23300Z7000  | 0448   | 187 | D9E35                   | 0248          | 182        | D9R135      | 0961   | 206 |
| 23300U7502 | 9488   | 234 | 23300Z7001  | 0448   | 187 | D9E36                   | 0287          | 182        | D10E922     | 0570   | 191 |
| 23300V0600 | 0448   | 187 | 23300Z7005  | 0448   | 187 | D9E37                   | 0248          | 182        | D11E105     | 0217   | 181 |
| 23300V0601 | 0448   | 187 | 2330221008  | 0141   | 180 | D9E38                   | 0287          | 182        | D11E109     | 0217   | 181 |
| 23300V0602 | 0448   | 187 | 23330H6901  | 0349   | 185 | D9E39                   | 0287          | 182        | D11E110     | 0217   | 181 |
| 23300V0603 | 0448   | 187 | 4330078505  | 0141   | 180 | D9E41                   | 0248          | 182        | D11E115     | 0217   | 181 |
| 23300V0605 | 0448   | 187 | 23300-M4904 | 9528   | 235 | D9E46                   | 0287          | 182        | D11E142     | 0217   | 181 |
| 23300V0700 | 0790   | 199 | 23300054A01 | 0790   | 199 | D9E48                   | 0287          | 182        | D11E143     | 0217   | 181 |
| 23300V0702 | 0790   | 199 | 23300099600 | 0141   | 180 | D9E49                   | 0287          | 182        | D11E156     | 0216   | 181 |
| 23300V0703 | 0790   | 199 | 233000M215R | 0519   | 189 | D9E52                   | 0287          | 182        | D11E159     | 0215   | 181 |
| 23300V0703 | 9527   | 235 | 23300100G02 | 0790   | 199 | D9E54                   | 0287          | 182        | D11E165     | 0215   | 181 |
| 23300V0705 | 0790   | 199 | 233001E400R | 1021   | 208 | D9E55                   | 0287          | 182        | D11E172     | 0571   | 191 |
| 23300V0706 | 0790   | 199 | 233001S772R | 0712   | 196 | D9E56                   | 0287          | 182        | D11E191     | 0461   | 188 |
| 23300V5202 | 0499   | 189 | 233003400A9 | 1838   | 230 | D9E61                   | 0287          | 182        | D8RA114     | 0189   | 181 |
| 23300V5300 | 0737   | 196 | 23300375088 | 0448   | 187 | D9E62                   | 0287          | 182        | D13E117TE   | 0117   | 179 |
| 23300V5300 | 9488   | 234 | 233004S102R | 0712   | 196 | D9E66                   | 0287          | 182        | D13E119TE   | 0117   | 179 |
| 23300V5301 | 0737   | 196 | 23300F4U010 | 0712   | 196 | D9E68                   | 0287          | 182        | D13E120TE   | 0117   | 179 |
| 23300V5301 | 9488   | 234 | 23300M15001 | 0382   | 185 | D9E69                   | 0287          | 182        | D13E121TE   | 0117   | 179 |
| 23300V5302 | 0737   | 196 | 23300V06001 | 0448   | 187 | D9E70                   | 0287          | 182        | D13E122TE   | 0117   | 179 |
| 23300V7200 | 9527   | 235 | 23300V07702 | 0790   | 199 | D9E74                   | 0287          | 182        | D13E123TE   | 0117   | 179 |



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| 6100S        | 0087   | 233 | 35259430   | 12695  | 241 | 35261175    | 12675         | 240        | 1107092 | 1216   | 233 |
| Perkins      | Nº ZEN | Pg. | 35259440   | 1092   | 210 | 35261190    | 12684         | 240        | 1107095 | 1216   | 233 |
| 2873K404     | 1693   | 223 | 35259460   | 1523   | 217 | 35261190    | 12695         | 241        | 1107115 | 1216   | 233 |
| 2873K405     | 1693   | 223 | 35259480   | 12687  | 240 | 35261345    | 1837          | 230        | 1107116 | 1216   | 233 |
| Peugeot      | Nº ZEN | Pg. | 35259620   | 12684  | 240 | 35261355    | 12684         | 240        | 1107117 | 0039   | 176 |
| 5802AQ       | 1650   | 221 | 35259620   | 12686  | 240 | 35261355    | 12695         | 241        | 1107125 | 1216   | 233 |
| Porsche      | Nº ZEN | Pg. | 35259630   | 12684  | 240 | 35261360    | 12684         | 240        | 1107126 | 1216   | 233 |
| S1350        | 0790   | 199 | 35259630   | 12686  | 240 | 35261360    | 12695         | 241        | 1107134 | 1216   | 233 |
| S1369        | 0790   | 199 | 35259640   | 12688  | 240 | 35261420    | 12684         | 240        | 1107139 | 1216   | 233 |
| S1347A       | 0790   | 199 | 35259650   | 12684  | 240 | 35261420    | 12695         | 241        | 1107141 | 1216   | 233 |
| 2330000      | 0790   | 199 | 35259650   | 12686  | 240 | 35261425    | 12684         | 240        | 1107146 | 0039   | 176 |
| 23300W2804   | 0790   | 199 | 35259650   | 12695  | 241 | 35261425    | 12695         | 241        | 1107149 | 1216   | 233 |
| E90V11002A   | 1192   | 213 | 35259660   | 12684  | 240 | 35261860    | 0916          | 204        | 1107158 | 1216   | 233 |
| E9SF11002A   | 1192   | 213 | 35259660   | 12686  | 240 | 35261990    | 1784          | 227        | 1107163 | 0020   | 176 |
| 21013708000  | 0213   | 181 | 35259660   | 12695  | 241 | 35262170    | 1784          | 227        | 1107173 | 1216   | 233 |
| CT2213708000 | 0213   | 181 | 35259670   | 12684  | 240 | 35262550    | 1784          | 227        | 1107196 | 1216   | 233 |
| E90SZ11000AA | 1192   | 213 | 35259670   | 12686  | 240 | MES6301K    | 0117          | 179        | 1107198 | 1216   | 233 |
| Prestolite   | Nº ZEN | Pg. | 35259670   | 12695  | 241 | 35262170AM  | 1784          | 227        | 1107203 | 0052   | 177 |
| 462361       | 0930   | 204 | 35259680   | 12692  | 240 | M93R3001SE  | 1881          | 232        | 1107208 | 0013   | 176 |
| MFJ6501      | 0930   | 204 | 35259690   | 12684  | 240 | M93R3013SE  | 1881          | 232        | 1107213 | 0032   | 233 |
| 35258040     | 12695  | 241 | 35259690   | 12686  | 240 | MES6403JUT  | 0879          | 202        | 1107214 | 0093   | 178 |
| 35258490     | 12682  | 240 | 35259690   | 12695  | 241 | <b>Remy</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 1107214 | 0568   | 191 |
| 35258490     | 12695  | 241 | 35259710   | 12675  | 240 | 2058        | 0783          | 199        | 1107217 | 1216   | 233 |
| 35258540     | 12682  | 240 | 35259720   | 12675  | 240 | 728K        | 0039          | 176        | 1107219 | 0020   | 176 |
| 35258540     | 12695  | 241 | 35259750   | 12684  | 240 | 323489      | 0774          | 198        | 1107223 | 0013   | 176 |
| 35258580     | 12682  | 240 | 35259750   | 12695  | 241 | 323818      | 0625          | 193        | 1107233 | 0020   | 176 |
| 35258580     | 12695  | 241 | 35259760   | 12684  | 240 | 323834      | 0625          | 193        | 1107234 | 0052   | 177 |
| 35258660     | 12682  | 240 | 35259760   | 12695  | 241 | 323835      | 0625          | 193        | 1107234 | 0093   | 178 |
| 35258660     | 12695  | 241 | 35259770   | 1092   | 210 | 323836      | 0625          | 193        | 1107234 | 0568   | 191 |
| 35258690     | 12682  | 240 | 35259780   | 1651   | 221 | 323837      | 0625          | 193        | 1107235 | 1216   | 233 |
| 35258690     | 12695  | 241 | 35259870   | 12688  | 240 | 323839      | 0625          | 193        | 1107237 | 0020   | 176 |
| 35258710     | 12682  | 240 | 35259880   | 12684  | 240 | 323840      | 0625          | 193        | 1107242 | 0020   | 176 |
| 35258710     | 12695  | 241 | 35259880   | 12695  | 241 | 323841      | 0624          | 193        | 1107245 | 0052   | 177 |
| 35258820     | 12682  | 240 | 35259880   | 1623   | 220 | 323842      | 0624          | 193        | 1107248 | 0020   | 176 |
| 35258820     | 12695  | 241 | 35259890   | 0991   | 206 | 323843      | 0624          | 193        | 1107249 | 0093   | 178 |
| 35258880     | 12682  | 240 | 35259900   | 12684  | 240 | 323844      | 0624          | 193        | 1107249 | 0568   | 191 |
| 35258880     | 12686  | 240 | 35259900   | 12695  | 241 | 323847      | 0624          | 193        | 1107251 | 0051   | 177 |
| 35258880     | 12695  | 241 | 35260890   | 1621   | 220 | 323849      | 0625          | 193        | 1107253 | 1216   | 233 |
| 35258940     | 12682  | 240 | 35260900   | 1837   | 230 | 323850      | 0624          | 193        | 1107258 | 0032   | 233 |
| 35258940     | 12686  | 240 | 35260910   | 1837   | 230 | 323852      | 0624          | 193        | 1107259 | 0020   | 176 |
| 35258940     | 12695  | 241 | 35260940   | 12695  | 241 | 323868      | 0625          | 193        | 1107260 | 0020   | 176 |
| 35258950     | 12682  | 240 | 35260940   | 1622   | 220 | 323869      | 0625          | 193        | 1107261 | 0032   | 233 |
| 35258950     | 12686  | 240 | 35260950   | 12684  | 240 | 323879      | 0625          | 193        | 1107266 | 0020   | 176 |
| 35258950     | 12695  | 241 | 35260950   | 12695  | 241 | 323880      | 0625          | 193        | 1107268 | 0093   | 178 |
| 35258960     | 12682  | 240 | 35260950   | 1622   | 220 | 4N4405      | 0930          | 204        | 1107268 | 0568   | 191 |
| 35258960     | 12695  | 241 | 35261020   | 12675  | 240 | 900890      | 12720         | 240        | 1107270 | 0013   | 176 |
| 35258990     | 12686  | 240 | 35261070   | 12684  | 240 | CM9805      | 0774          | 198        | 1107272 | 0013   | 176 |
| 35259000     | 12686  | 240 | 35261070   | 12695  | 241 | 1103809     | 0188          | 181        | 1107273 | 0020   | 176 |
| 35259040     | 12682  | 240 | 35261070   | 1622   | 220 | 1107037     | 1216          | 233        | 1107274 | 0020   | 176 |
| 35259130     | 12686  | 240 | 35261120   | 12684  | 240 | 1107056     | 1216          | 233        | 1107279 | 0013   | 176 |
| 35259170     | 12682  | 240 | 35261120   | 12695  | 241 | 1107074     | 1216          | 233        | 1107280 | 0052   | 177 |
| 35259210     | 12686  | 240 | 35261120   | 1623   | 220 | 1107084     | 1216          | 233        | 1107286 | 0020   | 176 |
| 35259310     | 12675  | 240 | 35261155   | 12684  | 240 | 1107087     | 1216          | 233        | 1107289 | 0020   | 176 |
| 35259380     | 12692  | 240 | 35261155   | 12695  | 241 | 1107088     | 1216          | 233        | 1107290 | 0093   | 178 |
| 35259430     | 12684  | 240 | 35261155   | 1623   | 220 | 1107089     | 1216          | 233        | 1107290 | 0568   | 191 |

| Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. |
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| 1107298 | 0020   | 176 | 1107501 | 0052   | 177 | 1107598 | 0052   | 177 | 1108015 | 1216   | 233 |
| 1107299 | 0020   | 176 | 1107503 | 0093   | 178 | 1107600 | 0051   | 177 | 1108021 | 1216   | 233 |
| 1107301 | 0020   | 176 | 1107503 | 0568   | 191 | 1107605 | 1216   | 233 | 1108029 | 1216   | 233 |
| 1107302 | 0020   | 176 | 1107504 | 0051   | 177 | 1107641 | 0013   | 176 | 1108032 | 0032   | 233 |
| 1107303 | 0020   | 176 | 1107510 | 0051   | 177 | 1107650 | 0050   | 177 | 1108033 | 0052   | 177 |
| 1107306 | 0020   | 176 | 1107511 | 0093   | 178 | 1107651 | 0050   | 177 | 1108037 | 1216   | 233 |
| 1107307 | 0020   | 176 | 1107511 | 0568   | 191 | 1107652 | 0013   | 176 | 1108042 | 0052   | 177 |
| 1107308 | 0052   | 177 | 1107512 | 0093   | 178 | 1107653 | 0013   | 176 | 1108047 | 0032   | 233 |
| 1107313 | 0020   | 176 | 1107512 | 0568   | 191 | 1107654 | 1216   | 233 | 1108048 | 0032   | 233 |
| 1107314 | 0020   | 176 | 1107513 | 0039   | 176 | 1107655 | 0013   | 176 | 1108051 | 0052   | 177 |
| 1107315 | 0020   | 176 | 1107515 | 0093   | 178 | 1107657 | 0013   | 176 | 1108052 | 0032   | 233 |
| 1107316 | 0020   | 176 | 1107515 | 0568   | 191 | 1107658 | 1216   | 233 | 1108056 | 0032   | 233 |
| 1107317 | 0020   | 176 | 1107516 | 0052   | 177 | 1107659 | 1216   | 233 | 1108057 | 1216   | 233 |
| 1107320 | 0020   | 176 | 1107523 | 0052   | 177 | 1107661 | 0013   | 176 | 1108061 | 0032   | 233 |
| 1107321 | 0020   | 176 | 1107527 | 0051   | 177 | 1107665 | 0013   | 176 | 1108062 | 0032   | 233 |
| 1107322 | 0032   | 233 | 1107533 | 0093   | 178 | 1107666 | 0050   | 177 | 1108063 | 0032   | 233 |
| 1107330 | 0020   | 176 | 1107533 | 0568   | 191 | 1107668 | 0013   | 176 | 1108064 | 0032   | 233 |
| 1107331 | 0020   | 176 | 1107534 | 0051   | 177 | 1107680 | 0052   | 177 | 1108065 | 0032   | 233 |
| 1107332 | 0052   | 177 | 1107537 | 0039   | 176 | 1107695 | 1216   | 233 | 1108066 | 0032   | 233 |
| 1107336 | 0020   | 176 | 1107538 | 0051   | 177 | 1107696 | 0093   | 178 | 1108068 | 1216   | 233 |
| 1107340 | 0020   | 176 | 1107539 | 0093   | 178 | 1107696 | 0568   | 191 | 1108071 | 0032   | 233 |
| 1107342 | 0020   | 176 | 1107539 | 0568   | 191 | 1107728 | 1216   | 233 | 1108077 | 1216   | 233 |
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| 1107344 | 0051   | 177 | 1107540 | 0568   | 191 | 1107741 | 0032   | 233 | 1108081 | 0032   | 233 |
| 1107345 | 0020   | 176 | 1107546 | 0052   | 177 | 1107745 | 1216   | 233 | 1108105 | 0039   | 176 |
| 1107346 | 0020   | 176 | 1107547 | 0052   | 177 | 1107746 | 1216   | 233 | 1108106 | 1216   | 233 |
| 1107347 | 0020   | 176 | 1107550 | 0052   | 177 | 1107747 | 1216   | 233 | 1108108 | 0039   | 176 |
| 1107349 | 0020   | 176 | 1107553 | 0051   | 177 | 1107748 | 0050   | 177 | 1108110 | 0039   | 176 |
| 1107352 | 0020   | 176 | 1107556 | 0052   | 177 | 1107749 | 0050   | 177 | 1108112 | 1216   | 233 |
| 1107353 | 0020   | 176 | 1107557 | 0093   | 178 | 1107755 | 1216   | 233 | 1108113 | 0032   | 233 |
| 1107354 | 0013   | 176 | 1107557 | 0568   | 191 | 1107762 | 1216   | 233 | 1108126 | 1216   | 233 |
| 1107355 | 0020   | 176 | 1107558 | 0052   | 177 | 1107771 | 0052   | 177 | 1108131 | 1216   | 233 |
| 1107356 | 0052   | 177 | 1107559 | 0052   | 177 | 1107787 | 1216   | 233 | 1108149 | 1216   | 233 |
| 1107360 | 0020   | 176 | 1107561 | 0093   | 178 | 1107788 | 0032   | 233 | 1108150 | 1216   | 233 |
| 1107361 | 0020   | 176 | 1107561 | 0568   | 191 | 1107830 | 1216   | 233 | 1108152 | 0032   | 233 |
| 1107363 | 0020   | 176 | 1107567 | 0051   | 177 | 1107857 | 0093   | 178 | 1108161 | 0052   | 177 |
| 1107364 | 0052   | 177 | 1107571 | 0052   | 177 | 1107857 | 0568   | 191 | 1108163 | 0032   | 233 |
| 1107365 | 0020   | 176 | 1107572 | 0052   | 177 | 1107859 | 0093   | 178 | 1108166 | 0032   | 233 |
| 1107367 | 0020   | 176 | 1107575 | 0093   | 178 | 1107859 | 0568   | 191 | 1108168 | 0032   | 233 |
| 1107368 | 0020   | 176 | 1107575 | 0568   | 191 | 1107867 | 0093   | 178 | 1108169 | 0032   | 233 |
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| 1107378 | 0052   | 177 | 1107587 | 0051   | 177 | 1107889 | 0020   | 176 | 1108240 | 0568   | 191 |
| 1107379 | 0052   | 177 | 1107588 | 0051   | 177 | 1107927 | 1216   | 233 | 1108250 | 0052   | 177 |
| 1107382 | 0093   | 178 | 1107591 | 0093   | 178 | 1107928 | 0032   | 233 | 1108251 | 0052   | 177 |
| 1107382 | 0568   | 191 | 1107591 | 0568   | 191 | 1107943 | 1216   | 233 | 1108258 | 0032   | 233 |

| Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. |
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| 1108280 | 0093   | 178 | 1108672 | 0052   | 177 | 1109627 | 9074   | 234 | 1113056 | 0051   | 177 |
| 1108280 | 0568   | 191 | 1108692 | 0051   | 177 | 1109628 | 0097   | 178 | 1113059 | 0051   | 177 |
| 1108322 | 0093   | 178 | 1108696 | 0093   | 178 | 1109628 | 9028   | 233 | 1113064 | 0051   | 177 |
| 1108322 | 0568   | 191 | 1108696 | 0568   | 191 | 1109631 | 0110   | 179 | 1113066 | 0051   | 177 |
| 1108323 | 0052   | 177 | 1108769 | 0052   | 177 | 1109631 | 9074   | 234 | 1113075 | 0051   | 177 |
| 1108340 | 0052   | 177 | 1108894 | 0188   | 181 | 1109633 | 0556   | 190 | 1113084 | 0051   | 177 |
| 1108341 | 0052   | 177 | 1108895 | 0188   | 181 | 1109635 | 0556   | 190 | 1113089 | 0051   | 177 |
| 1108379 | 0093   | 178 | 1108898 | 0117   | 179 | 1109636 | 0110   | 179 | 1113097 | 0051   | 177 |
| 1108379 | 0568   | 191 | 1108987 | 0117   | 179 | 1109636 | 9074   | 234 | 1113099 | 0051   | 177 |
| 1108393 | 0052   | 177 | 1109023 | 0093   | 178 | 1109637 | 0097   | 178 | 1113100 | 0051   | 177 |
| 1108396 | 0093   | 178 | 1109023 | 0568   | 191 | 1109637 | 9028   | 233 | 1113101 | 0051   | 177 |
| 1108396 | 0568   | 191 | 1109081 | 0052   | 177 | 1109638 | 0097   | 178 | 1113110 | 0051   | 177 |
| 1108397 | 0093   | 178 | 1109140 | 0051   | 177 | 1109638 | 9028   | 233 | 1113111 | 0051   | 177 |
| 1108397 | 0568   | 191 | 1109158 | 0117   | 179 | 1109641 | 0556   | 190 | 1113116 | 0051   | 177 |
| 1108415 | 0093   | 178 | 1109169 | 0117   | 179 | 1109642 | 0110   | 179 | 1113121 | 0051   | 177 |
| 1108415 | 0568   | 191 | 1109170 | 0117   | 179 | 1109642 | 9074   | 234 | 1113124 | 0051   | 177 |
| 1108431 | 0093   | 178 | 1109172 | 0117   | 179 | 1109643 | 0110   | 179 | 1113127 | 0117   | 179 |
| 1108431 | 0568   | 191 | 1109178 | 0117   | 179 | 1109643 | 9074   | 234 | 1113128 | 0051   | 177 |
| 1108438 | 0052   | 177 | 1109179 | 1866   | 231 | 1109644 | 0556   | 190 | 1113130 | 0051   | 177 |
| 1108443 | 0093   | 178 | 1109184 | 0117   | 179 | 1109648 | 0626   | 193 | 1113133 | 0051   | 177 |
| 1108443 | 0568   | 191 | 1109192 | 0052   | 177 | 1109649 | 0110   | 179 | 1113136 | 0051   | 177 |
| 1108447 | 0093   | 178 | 1109194 | 0093   | 178 | 1109649 | 9074   | 234 | 1113137 | 0051   | 177 |
| 1108447 | 0568   | 191 | 1109194 | 0568   | 191 | 1109654 | 1216   | 233 | 1113142 | 0051   | 177 |
| 1108449 | 0093   | 178 | 1109196 | 0051   | 177 | 1109671 | 1216   | 233 | 1113143 | 0051   | 177 |
| 1108449 | 0568   | 191 | 1109220 | 0626   | 193 | 1109736 | 0117   | 179 | 1113145 | 0051   | 177 |
| 1108451 | 0039   | 176 | 1109221 | 0626   | 193 | 1109741 | 0117   | 179 | 1113150 | 0051   | 177 |
| 1108452 | 0039   | 176 | 1109229 | 0117   | 179 | 1109746 | 0117   | 179 | 1113153 | 0051   | 177 |
| 1108453 | 0039   | 176 | 1109230 | 0117   | 179 | 1109755 | 0110   | 179 | 1113154 | 0051   | 177 |
| 1108454 | 0039   | 176 | 1109233 | 0117   | 179 | 1109755 | 9074   | 234 | 1113156 | 0051   | 177 |
| 1108456 | 0039   | 176 | 1109234 | 0188   | 181 | 1109759 | 0110   | 179 | 1113157 | 0051   | 177 |
| 1108476 | 0093   | 178 | 1109235 | 0117   | 179 | 1109759 | 9074   | 234 | 1113158 | 0051   | 177 |
| 1108476 | 0568   | 191 | 1109236 | 0117   | 179 | 1109762 | 0188   | 181 | 1113197 | 0381   | 185 |
| 1108493 | 0093   | 178 | 1109237 | 0188   | 181 | 1109767 | 0188   | 181 | 1113269 | 1194   | 213 |
| 1108493 | 0568   | 191 | 1109248 | 0188   | 181 | 1109792 | 0555   | 190 | 1113270 | 1194   | 213 |
| 1108501 | 0052   | 177 | 1109249 | 0117   | 179 | 1109793 | 0556   | 190 | 1113272 | 0722   | 196 |
| 1108632 | 0093   | 178 | 1109259 | 0052   | 177 | 1109794 | 0556   | 190 | 1113273 | 0650   | 194 |
| 1108632 | 0568   | 191 | 1109294 | 0556   | 190 | 1109801 | 0117   | 179 | 1113273 | 1196   | 213 |
| 1108634 | 0093   | 178 | 1109297 | 0626   | 193 | 1109823 | 0188   | 181 | 1113274 | 0649   | 194 |
| 1108634 | 0568   | 191 | 1109299 | 0556   | 190 | 1109832 | 0556   | 190 | 1113274 | 1195   | 213 |
| 1108636 | 0051   | 177 | 1109359 | 0977   | 206 | 1109835 | 0556   | 190 | 1113275 | 0649   | 194 |
| 1108641 | 0051   | 177 | 1109360 | 0977   | 206 | 1109869 | 0117   | 179 | 1113275 | 1195   | 213 |
| 1108643 | 0051   | 177 | 1109384 | 1216   | 233 | 1109874 | 0188   | 181 | 1113277 | 0722   | 196 |
| 1108644 | 0093   | 178 | 1109388 | 0032   | 233 | 1109891 | 0188   | 181 | 1113278 | 0649   | 194 |
| 1108644 | 0568   | 191 | 1109395 | 0032   | 233 | 1109962 | 0626   | 193 | 1113278 | 1195   | 213 |
| 1108648 | 0093   | 178 | 1109450 | 1216   | 233 | 1109969 | 0556   | 190 | 1113279 | 0650   | 194 |
| 1108648 | 0568   | 191 | 1109457 | 1216   | 233 | 1109989 | 0556   | 190 | 1113279 | 1196   | 213 |
| 1108649 | 0093   | 178 | 1109458 | 1216   | 233 | 1109998 | 0097   | 178 | 1113280 | 0650   | 194 |
| 1108649 | 0568   | 191 | 1109462 | 0032   | 233 | 1109998 | 9028   | 233 | 1113280 | 1196   | 213 |
| 1108652 | 0051   | 177 | 1109468 | 1216   | 233 | 1112775 | 0117   | 179 | 1113281 | 0649   | 194 |
| 1108653 | 0051   | 177 | 1109479 | 0032   | 233 | 1113007 | 0051   | 177 | 1113281 | 1195   | 213 |
| 1108661 | 0051   | 177 | 1109624 | 0097   | 178 | 1113010 | 0051   | 177 | 1113282 | 0649   | 194 |
| 1108662 | 0052   | 177 | 1109624 | 9028   | 233 | 1113013 | 0051   | 177 | 1113282 | 1195   | 213 |
| 1108665 | 0052   | 177 | 1109625 | 0110   | 179 | 1113038 | 0051   | 177 | 1113284 | 0649   | 194 |
| 1108667 | 0093   | 178 | 1109625 | 9074   | 234 | 1113050 | 0051   | 177 | 1113284 | 1195   | 213 |
| 1108667 | 0568   | 191 | 1109627 | 0110   | 179 | 1113052 | 0051   | 177 | 1113285 | 0649   | 194 |

| Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. |
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| 1113285 | 1195   | 213 | 1113603 | 0117   | 179 | 1113853 | 9028   | 233 | 1113977 | 0110   | 179 |
| 1113286 | 0651   | 194 | 1113605 | 0117   | 179 | 1113856 | 0626   | 193 | 1113977 | 9074   | 234 |
| 1113286 | 1197   | 213 | 1113606 | 0188   | 181 | 1113857 | 0626   | 193 | 1113978 | 0110   | 179 |
| 1113288 | 0649   | 194 | 1113607 | 0117   | 179 | 1113867 | 0556   | 190 | 1113978 | 9074   | 234 |
| 1113288 | 1195   | 213 | 1113612 | 0188   | 181 | 1113871 | 0182   | 180 | 1113979 | 0110   | 179 |
| 1113289 | 0649   | 194 | 1113617 | 0117   | 179 | 1113873 | 0182   | 180 | 1113979 | 9074   | 234 |
| 1113289 | 1195   | 213 | 1113619 | 0188   | 181 | 1113874 | 0626   | 193 | 1113981 | 0110   | 179 |
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| 1113290 | 1195   | 213 | 1113621 | 0117   | 179 | 1113884 | 0110   | 179 | 1113983 | 0110   | 179 |
| 1113291 | 0722   | 196 | 1113628 | 0097   | 178 | 1113884 | 9074   | 234 | 1113983 | 9074   | 234 |
| 1113292 | 1194   | 213 | 1113628 | 9028   | 233 | 1113885 | 0188   | 181 | 1113984 | 0626   | 193 |
| 1113295 | 1194   | 213 | 1113631 | 0097   | 178 | 1113889 | 0626   | 193 | 1113985 | 0182   | 180 |
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| 1113326 | 0117   | 179 | 1113647 | 0381   | 185 | 1113928 | 0097   | 178 | 1113995 | 9074   | 234 |
| 1113327 | 0117   | 179 | 1113655 | 0566   | 191 | 1113928 | 9028   | 233 | 1113996 | 0626   | 193 |
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| 1113344 | 0930   | 204 | 1113736 | 0188   | 181 | 1113943 | 9028   | 233 | 1114041 | 0188   | 181 |
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| 1113359 | 0117   | 179 | 1113751 | 0188   | 181 | 1113955 | 0110   | 179 | 1114047 | 0626   | 193 |
| 1113366 | 0097   | 178 | 1113772 | 0188   | 181 | 1113955 | 9074   | 234 | 1114052 | 0182   | 180 |
| 1113366 | 9028   | 233 | 1113773 | 0188   | 181 | 1113956 | 0110   | 179 | 1114059 | 0626   | 193 |
| 1113369 | 0879   | 202 | 1113774 | 0117   | 179 | 1113956 | 9074   | 234 | 1114062 | 0626   | 193 |
| 1113371 | 0097   | 178 | 1113775 | 0117   | 179 | 1113957 | 0110   | 179 | 1114063 | 0626   | 193 |
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| 1113378 | 0097   | 178 | 1113785 | 0188   | 181 | 1113958 | 9074   | 234 | 1114075 | 0626   | 193 |
| 1113378 | 9028   | 233 | 1113794 | 0117   | 179 | 1113965 | 0110   | 179 | 1114077 | 0182   | 180 |
| 1113386 | 0097   | 178 | 1113801 | 0879   | 202 | 1113965 | 9074   | 234 | 1114080 | 0626   | 193 |
| 1113386 | 9028   | 233 | 1113804 | 0879   | 202 | 1113966 | 0110   | 179 | 1114092 | 0110   | 179 |
| 1113393 | 0097   | 178 | 1113805 | 0188   | 181 | 1113966 | 9074   | 234 | 1114092 | 9074   | 234 |
| 1113393 | 9028   | 233 | 1113809 | 0188   | 181 | 1113968 | 0110   | 179 | 1114093 | 0626   | 193 |
| 1113407 | 0097   | 178 | 1113811 | 0879   | 202 | 1113968 | 9074   | 234 | 1114094 | 0182   | 180 |
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| 1113475 | 9074   | 234 | 1113827 | 0097   | 178 | 1113972 | 0110   | 179 | 1114140 | 0110   | 179 |
| 1113477 | 0097   | 178 | 1113827 | 9028   | 233 | 1113972 | 9074   | 234 | 1114140 | 9074   | 234 |
| 1113477 | 0914   | 203 | 1113832 | 0110   | 179 | 1113973 | 0110   | 179 | 1114143 | 0110   | 179 |
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| 1113519 | 0110   | 179 | 1113848 | 0097   | 178 | 1113974 | 0110   | 179 | 1114145 | 0110   | 179 |
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| 1113598 | 0566   | 191 | 1113852 | 0182   | 180 | 1113975 | 0110   | 179 | 1114146 | 0182   | 180 |
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| Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. |
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| 1114150 | 9074   | 234 | 1990315 | 0624   | 193 | 1993762 | 0625   | 193 | 1993898 | 0624   | 193 |
| 1114154 | 0182   | 180 | 1990315 | 0625   | 193 | 1993763 | 0624   | 193 | 1993901 | 0624   | 193 |
| 1114155 | 0914   | 203 | 1990316 | 0624   | 193 | 1993764 | 0624   | 193 | 1993902 | 0624   | 193 |
| 1114168 | 0182   | 180 | 1990317 | 0624   | 193 | 1993767 | 0625   | 193 | 1993903 | 0625   | 193 |
| 1114177 | 0914   | 203 | 1990318 | 0625   | 193 | 1993768 | 0624   | 193 | 1993905 | 0625   | 193 |
| 1114183 | 0626   | 193 | 1990319 | 0624   | 193 | 1993769 | 0625   | 193 | 1993909 | 0624   | 193 |
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| 1114197 | 9074   | 234 | 1990321 | 0624   | 193 | 1993774 | 0914   | 203 | 1993911 | 0624   | 193 |
| 1114702 | 0626   | 193 | 1990326 | 0625   | 193 | 1993778 | 0624   | 193 | 1993914 | 0625   | 193 |
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| 1114736 | 0626   | 193 | 1990332 | 0624   | 193 | 1993791 | 0624   | 193 | 1993921 | 0625   | 193 |
| 1114739 | 0626   | 193 | 1990335 | 0117   | 179 | 1993792 | 0625   | 193 | 1993926 | 0624   | 193 |
| 1114778 | 0626   | 193 | 1990336 | 0624   | 193 | 1993793 | 0625   | 193 | 1993928 | 0624   | 193 |
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| 1114808 | 0626   | 193 | 1990380 | 0626   | 193 | 1993800 | 0625   | 193 | 1993950 | 0625   | 193 |
| 1114809 | 0626   | 193 | 1990381 | 0626   | 193 | 1993801 | 0914   | 203 | 1993951 | 0625   | 193 |
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| 1114902 | 0626   | 193 | 1990395 | 0626   | 193 | 1993818 | 0625   | 193 | 1993954 | 0625   | 193 |
| 1114922 | 0626   | 193 | 1990430 | 0626   | 193 | 1993819 | 0625   | 193 | 1993955 | 0625   | 193 |
| 1114925 | 0626   | 193 | 1990436 | 0626   | 193 | 1993826 | 0914   | 203 | 1993956 | 0625   | 193 |
| 1114930 | 0626   | 193 | 1990439 | 0626   | 193 | 1993827 | 0626   | 193 | 1993957 | 0625   | 193 |
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| 1114952 | 0626   | 193 | 1990486 | 0914   | 203 | 1993831 | 0624   | 193 | 1993963 | 0625   | 193 |
| 1114955 | 0117   | 179 | 1990494 | 0626   | 193 | 1993832 | 0624   | 193 | 1993964 | 0624   | 193 |
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| 1114960 | 0626   | 193 | 1990499 | 0625   | 193 | 1993837 | 0625   | 193 | 1993966 | 0624   | 193 |
| 1114976 | 0117   | 179 | 1990707 | 0624   | 193 | 1993849 | 0626   | 193 | 1993970 | 0625   | 193 |
| 1117335 | 0052   | 177 | 1992019 | 0117   | 179 | 1993850 | 0625   | 193 | 1993971 | 0625   | 193 |
| 1117356 | 0052   | 177 | 1993669 | 0624   | 193 | 1993851 | 0624   | 193 | 1993974 | 0624   | 193 |
| 1117364 | 0052   | 177 | 1993701 | 0625   | 193 | 1993853 | 0624   | 193 | 1993981 | 0625   | 193 |
| 1117377 | 0052   | 177 | 1993702 | 0625   | 193 | 1993854 | 0625   | 193 | 1993986 | 0625   | 193 |
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| 1990213 | 0626   | 193 | 1993709 | 0624   | 193 | 1993861 | 0624   | 193 | 1993992 | 0624   | 193 |
| 1990215 | 0626   | 193 | 1993712 | 0625   | 193 | 1993862 | 0625   | 193 | 1993994 | 0625   | 193 |
| 1990216 | 0626   | 193 | 1993713 | 0624   | 193 | 1993865 | 0624   | 193 | 1993996 | 0626   | 193 |
| 1990217 | 0626   | 193 | 1993719 | 0624   | 193 | 1993866 | 0625   | 193 | 1993997 | 0624   | 193 |
| 1990227 | 0556   | 190 | 1993723 | 0625   | 193 | 1993869 | 0624   | 193 | 1993999 | 0626   | 193 |
| 1990232 | 0555   | 190 | 1993726 | 0625   | 193 | 1993871 | 0624   | 193 | 1998338 | 0566   | 191 |
| 1990232 | 0556   | 190 | 1993728 | 0624   | 193 | 1993873 | 0624   | 193 | 1998455 | 0566   | 191 |
| 1990236 | 0626   | 193 | 1993729 | 0624   | 193 | 1993874 | 0624   | 193 | 3471141 | 0243   | 182 |
| 1990238 | 0556   | 190 | 1993732 | 0624   | 193 | 1993878 | 0624   | 193 | 3471143 | 0243   | 182 |
| 1990241 | 0556   | 190 | 1993738 | 0625   | 193 | 1993879 | 0625   | 193 | 3471144 | 0243   | 182 |
| 1990242 | 0626   | 193 | 1993741 | 0625   | 193 | 1993880 | 0625   | 193 | 8000006 | 10003  | 232 |
| 1990245 | 0626   | 193 | 1993742 | 0624   | 193 | 1993881 | 0624   | 193 | 8000006 | 12720  | 240 |
| 1990265 | 0626   | 193 | 1993744 | 0625   | 193 | 1993881 | 0625   | 193 | 8000032 | 1840   | 230 |
| 1990285 | 0555   | 190 | 1993745 | 0624   | 193 | 1993883 | 0624   | 193 | 8000048 | 10003  | 232 |
| 1990308 | 0625   | 193 | 1993746 | 0624   | 193 | 1993885 | 0624   | 193 | 8000071 | 1482   | 216 |
| 1990309 | 0625   | 193 | 1993754 | 0625   | 193 | 1993886 | 0625   | 193 | 8000090 | 10003  | 232 |
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| Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. | Remy    | Nº ZEN | Pg. |
|---------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|
| 8000158 | 12720  | 240 | 8200064 | 1805   | 228 | 8200288 | 13117  | 237 | 8200417 | 1810   | 228 |
| 8000159 | 10003  | 232 | 8200065 | 1679   | 222 | 8200288 | 13131  | 237 | 8200417 | 1811   | 229 |
| 8000159 | 12720  | 240 | 8200065 | 1805   | 228 | 8200288 | 1810   | 228 | 8200421 | 1810   | 228 |
| 8000169 | 1800   | 228 | 8200072 | 13130  | 237 | 8200288 | 1811   | 229 | 8200431 | 13117  | 237 |
| 8000180 | 10003  | 232 | 8200072 | 1809   | 228 | 8200289 | 13117  | 237 | 8200431 | 1810   | 228 |
| 8000188 | 10003  | 232 | 8200075 | 13138  | 237 | 8200289 | 13131  | 237 | 8200433 | 13118  | 237 |
| 8000188 | 12720  | 240 | 8200075 | 1809   | 228 | 8200289 | 1810   | 228 | 8200433 | 1810   | 228 |
| 8000287 | 10003  | 232 | 8200077 | 13138  | 237 | 8200289 | 1811   | 229 | 8200434 | 13119  | 237 |
| 8000300 | 1800   | 228 | 8200077 | 1809   | 228 | 8200290 | 13117  | 237 | 8200434 | 1810   | 228 |
| 8000321 | 0756   | 197 | 8200078 | 13138  | 237 | 8200290 | 13131  | 237 | 8200435 | 13118  | 237 |
| 8000340 | 1800   | 228 | 8200078 | 1809   | 228 | 8200290 | 1810   | 228 | 8200435 | 1810   | 228 |
| 8000357 | 1770   | 227 | 8200081 | 13118  | 237 | 8200290 | 1811   | 229 | 8200436 | 1810   | 228 |
| 8000444 | 1745   | 225 | 8200081 | 13130  | 237 | 8200291 | 13118  | 237 | 8200446 | 13118  | 237 |
| 8000534 | 1794   | 228 | 8200081 | 1810   | 228 | 8200291 | 13130  | 237 | 8200446 | 1810   | 228 |
| 8000660 | 1745   | 225 | 8200081 | 1811   | 229 | 8200291 | 1810   | 228 | 8200468 | 1810   | 228 |
| 8000837 | 1794   | 228 | 8200085 | 13118  | 237 | 8200291 | 1811   | 229 | 8200469 | 13118  | 237 |
| 8000890 | 12720  | 240 | 8200085 | 13130  | 237 | 8200292 | 12955  | 236 | 8200469 | 13130  | 237 |
| 8000891 | 12720  | 240 | 8200085 | 1810   | 228 | 8200292 | 1679   | 222 | 8200469 | 1810   | 228 |
| 8000893 | 12720  | 240 | 8200085 | 1811   | 229 | 8200292 | 1805   | 228 | 8200469 | 1811   | 229 |
| 8000944 | 12720  | 240 | 8200087 | 13118  | 237 | 8200295 | 12961  | 236 | 8200474 | 12957  | 236 |
| 8000978 | 12720  | 240 | 8200087 | 13130  | 237 | 8200295 | 1679   | 222 | 8200474 | 1679   | 222 |
| 8000981 | 12720  | 240 | 8200087 | 1810   | 228 | 8200295 | 1805   | 228 | 8200474 | 1805   | 228 |
| 8200003 | 12961  | 236 | 8200087 | 1811   | 229 | 8200296 | 12954  | 236 | 8200478 | 12955  | 236 |
| 8200003 | 1679   | 222 | 8200090 | 13117  | 237 | 8200296 | 1679   | 222 | 8200478 | 1679   | 222 |
| 8200003 | 1805   | 228 | 8200090 | 13131  | 237 | 8200296 | 1805   | 228 | 8200478 | 1805   | 228 |
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| 8200004 | 1805   | 228 | 8200101 | 13118  | 237 | 8200297 | 1805   | 228 | 8200495 | 12957  | 236 |
| 8200005 | 13130  | 237 | 8200101 | 13130  | 237 | 8200308 | 13117  | 237 | 8200495 | 1679   | 222 |
| 8200005 | 1809   | 228 | 8200101 | 1810   | 228 | 8200308 | 1810   | 228 | 8200495 | 1805   | 228 |
| 8200014 | 1679   | 222 | 8200101 | 1811   | 229 | 8200326 | 12956  | 236 | 8200511 | 12961  | 236 |
| 8200014 | 1805   | 228 | 8200103 | 1679   | 222 | 8200326 | 1679   | 222 | 8200511 | 1679   | 222 |
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| 8200032 | 13131  | 237 | 8200138 | 1679   | 222 | 8200329 | 1810   | 228 | 8200512 | 1679   | 222 |
| 8200032 | 1811   | 229 | 8200138 | 1805   | 228 | 8200330 | 13117  | 237 | 8200512 | 1805   | 228 |
| 8200034 | 13131  | 237 | 8200182 | 13130  | 237 | 8200330 | 1810   | 228 | 8200519 | 13119  | 237 |
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| 8200039 | 13131  | 237 | 8200196 | 12957  | 236 | 8200331 | 1679   | 222 | 8200564 | 1679   | 222 |
| 8200039 | 1811   | 229 | 8200196 | 1679   | 222 | 8200331 | 1805   | 228 | 8200564 | 1805   | 228 |
| 8200040 | 13131  | 237 | 8200196 | 1805   | 228 | 8200356 | 13130  | 237 | 8200572 | 13118  | 237 |
| 8200040 | 1811   | 229 | 8200201 | 13117  | 237 | 8200356 | 1809   | 228 | 8200572 | 13130  | 237 |
| 8200041 | 13131  | 237 | 8200201 | 13131  | 237 | 8200357 | 12956  | 236 | 8200572 | 1810   | 228 |
| 8200041 | 1811   | 229 | 8200201 | 1810   | 228 | 8200357 | 1679   | 222 | 8200572 | 1811   | 229 |
| 8200050 | 13117  | 237 | 8200201 | 1811   | 229 | 8200357 | 1805   | 228 | 8200605 | 13117  | 237 |
| 8200050 | 13131  | 237 | 8200223 | 1811   | 229 | 8200386 | 12957  | 236 | 8200605 | 1810   | 228 |
| 8200050 | 1810   | 228 | 8200231 | 12956  | 236 | 8200386 | 1679   | 222 | 8200606 | 13118  | 237 |
| 8200050 | 1811   | 229 | 8200231 | 1679   | 222 | 8200386 | 1805   | 228 | 8200606 | 1810   | 228 |
| 8200053 | 13130  | 237 | 8200231 | 1805   | 228 | 8200387 | 1679   | 222 | 8200699 | 13117  | 237 |
| 8200053 | 1809   | 228 | 8200242 | 13138  | 237 | 8200387 | 1805   | 228 | 8200699 | 1810   | 228 |
| 8200054 | 12957  | 236 | 8200242 | 1809   | 228 | 8200400 | 12957  | 236 | 8200719 | 13117  | 237 |
| 8200054 | 1679   | 222 | 8200287 | 13119  | 237 | 8200400 | 1679   | 222 | 8200719 | 1810   | 228 |
| 8200054 | 1805   | 228 | 8200287 | 13132  | 237 | 8200400 | 1805   | 228 | 8200733 | 1809   | 228 |
| 8200064 | 12955  | 236 | 8200287 | 1810   | 228 | 8200417 | 13118  | 237 | 8200750 | 13104  | 237 |
| 8200064 | 1679   | 222 | 8200287 | 1811   | 229 | 8200417 | 13130  | 237 | 8200770 | 13105  | 237 |

| Remy    | Nº ZEN | Pg. | Remy     | Nº ZEN | Pg. | Remy     | Nº ZEN | Pg. | Remy     | Nº ZEN | Pg. |
|---------|--------|-----|----------|--------|-----|----------|--------|-----|----------|--------|-----|
| 8200771 | 13106  | 237 | 9000850  | 0756   | 197 | 10465294 | 0774   | 198 | 10479054 | 0625   | 193 |
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| 8200816 | 1805   | 228 | 9000853  | 0756   | 197 | 10465314 | 1194   | 213 | 10479069 | 0625   | 193 |
| 8200826 | 1679   | 222 | 9000854  | 0958   | 205 | 10465386 | 0756   | 197 | 10479109 | 1205   | 213 |
| 8200826 | 1805   | 228 | 9000857  | 0958   | 205 | 10465554 | 0756   | 197 | 10479196 | 0624   | 193 |
| 8200848 | 1679   | 222 | 9000858  | 0958   | 205 | 10478802 | 0110   | 179 | 10479292 | 1205   | 213 |
| 8200848 | 1805   | 228 | 9000860  | 0756   | 197 | 10478802 | 9074   | 234 | 10479302 | 0624   | 193 |
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| 8200853 | 1805   | 228 | 9000871  | 0958   | 205 | 10478806 | 0625   | 193 | 10479600 | 0723   | 196 |
| 8200854 | 1679   | 222 | 9000872  | 0958   | 205 | 10478811 | 0624   | 193 | 10479604 | 1194   | 213 |
| 8200854 | 1805   | 228 | 9000873  | 0958   | 205 | 10478813 | 0110   | 179 | 10479605 | 0721   | 196 |
| 8200875 | 1679   | 222 | 9000879  | 0958   | 205 | 10478813 | 9074   | 234 | 10479606 | 0650   | 194 |
| 8200875 | 1805   | 228 | 9000880  | 0958   | 205 | 10478814 | 0625   | 193 | 10479606 | 1196   | 213 |
| 8200882 | 1679   | 222 | 9000882  | 0958   | 205 | 10478818 | 1205   | 213 | 10479607 | 0649   | 194 |
| 8200882 | 1805   | 228 | 9000884  | 0958   | 205 | 10478819 | 0625   | 193 | 10479607 | 1195   | 213 |
| 8200884 | 1679   | 222 | 9000885  | 0958   | 205 | 10478824 | 0110   | 179 | 10479608 | 0721   | 196 |
| 8200884 | 1805   | 228 | 9000890  | 10003  | 232 | 10478824 | 9074   | 234 | 10479611 | 0722   | 196 |
| 8200885 | 1679   | 222 | 9000891  | 10003  | 232 | 10478825 | 0624   | 193 | 10479612 | 0721   | 196 |
| 8200885 | 1805   | 228 | 9000893  | 10003  | 232 | 10478826 | 0624   | 193 | 10479613 | 0650   | 194 |
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| 8200886 | 1805   | 228 | 9000932  | 10003  | 232 | 10478829 | 9074   | 234 | 10479614 | 1194   | 213 |
| 8200887 | 1679   | 222 | 9000934  | 10003  | 232 | 10478831 | 0625   | 193 | 10479615 | 1194   | 213 |
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| 8200889 | 1805   | 228 | 9000952  | 10003  | 232 | 10478862 | 0555   | 190 | 10479618 | 1194   | 213 |
| 8200890 | 1679   | 222 | 9000965  | 0756   | 197 | 10478862 | 0556   | 190 | 10479619 | 0645   | 194 |
| 8200890 | 1805   | 228 | 9000967  | 10003  | 232 | 10478890 | 0625   | 193 | 10479620 | 0651   | 194 |
| 8600612 | 1810   | 228 | 9000978  | 10003  | 232 | 10478894 | 0110   | 179 | 10479620 | 1197   | 213 |
| 9000751 | 0752   | 197 | 9000981  | 10003  | 232 | 10478894 | 9074   | 234 | 10479621 | 0629   | 193 |
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| 9000758 | 0752   | 197 | 10452345 | 10003  | 232 | 10478911 | 0110   | 179 | 10479625 | 1194   | 213 |
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| 9000786 | 0756   | 197 | 10455069 | 0783   | 199 | 10478921 | 0625   | 193 | 10479626 | 0985   | 206 |
| 9000794 | 0770   | 198 | 10455081 | 0783   | 199 | 10478927 | 0624   | 193 | 10479629 | 0722   | 196 |
| 9000794 | 12720  | 240 | 10455505 | 0854   | 202 | 10478928 | 0625   | 193 | 10479634 | 0629   | 193 |
| 9000794 | 12721  | 241 | 10455711 | 1680   | 222 | 10478929 | 0625   | 193 | 10479634 | 1194   | 213 |
| 9000794 | 12722  | 241 | 10461001 | 0625   | 193 | 10478930 | 0625   | 193 | 10479638 | 1194   | 213 |
| 9000796 | 0756   | 197 | 10461002 | 0625   | 193 | 10478949 | 0624   | 193 | 10479641 | 1194   | 213 |
| 9000798 | 0756   | 197 | 10461003 | 0625   | 193 | 10478953 | 0625   | 193 | 10479645 | 1112   | 211 |
| 9000804 | 0756   | 197 | 10461005 | 0625   | 193 | 10478957 | 0625   | 193 | 10479650 | 0985   | 206 |
| 9000805 | 0774   | 198 | 10461006 | 0625   | 193 | 10478960 | 0624   | 193 | 10479651 | 1112   | 211 |
| 9000806 | 0756   | 197 | 10461007 | 0624   | 193 | 10478961 | 1205   | 213 | 10479652 | 1112   | 211 |
| 9000812 | 0774   | 198 | 10461008 | 0624   | 193 | 10478976 | 0625   | 193 | 10479654 | 0985   | 206 |
| 9000819 | 0756   | 197 | 10461010 | 0624   | 193 | 10478981 | 0626   | 193 | 10479655 | 0722   | 196 |
| 9000820 | 0756   | 197 | 10461013 | 0624   | 193 | 10478986 | 0110   | 179 | 19011400 | 1679   | 222 |
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| 9000822 | 0756   | 197 | 10461016 | 0624   | 193 | 10478998 | 0110   | 179 | 19011402 | 1679   | 222 |
| 9000834 | 0756   | 197 | 10461018 | 0624   | 193 | 10478998 | 9074   | 234 | 19011402 | 1805   | 228 |
| 9000835 | 0756   | 197 | 10461039 | 0625   | 193 | 10479014 | 0624   | 193 | 19011403 | 1679   | 222 |
| 9000836 | 0958   | 205 | 10461044 | 0625   | 193 | 10479015 | 0625   | 193 | 19011403 | 1805   | 228 |
| 9000841 | 0958   | 205 | 10461069 | 0625   | 193 | 10479016 | 0625   | 193 | 19011407 | 1679   | 222 |
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| 9000846 | 12722  | 241 | 10465293 | 0756   | 197 | 10479036 | 0625   | 193 | 19011509 | 13131  | 237 |

| Remy     | Nº ZEN | Pg. | Remy               | Nº ZEN        | Pg.        | Suzuki             | Nº ZEN        | Pg.        | Toyota     | Nº ZEN | Pg. |
|----------|--------|-----|--------------------|---------------|------------|--------------------|---------------|------------|------------|--------|-----|
| 19011509 | 1811   | 229 | 19026027           | 13138         | 237        | 3110071J00         | 0519          | 189        | 2810010013 | 0184   | 180 |
| 19011511 | 13130  | 237 | 19026027           | 1809          | 228        | 3110080091         | 0450          | 187        | 2810010040 | 0947   | 205 |
| 19011511 | 1811   | 229 | 19026035           | 1809          | 228        | 3110082010         | 0576          | 191        | 2810010040 | 1722   | 224 |
| 19011512 | 13130  | 237 | 21020892           | 0752          | 197        | 3110082011         | 0576          | 191        | 2810010040 | 9186   | 234 |
| 19011512 | 1811   | 229 | 21020893           | 0752          | 197        | 3110083010         | 0450          | 187        | 2810010060 | 0947   | 205 |
| 19011513 | 13130  | 237 | 21021366           | 0752          | 197        | 3110083021         | 0450          | 187        | 2810010060 | 1722   | 224 |
| 19011513 | 1811   | 229 | 21021648           | 0752          | 197        | 31100M86J10        | 1752          | 226        | 2810012030 | 0184   | 180 |
| 19011514 | 13119  | 237 | 24506694           | 0958          | 205        | 31100M86J11        | 1752          | 226        | 2810012040 | 0184   | 180 |
| 19011514 | 13132  | 237 | 82000436           | 13119         | 237        | 31100M86J12        | 1752          | 226        | 2810013010 | 0947   | 205 |
| 19011514 | 1810   | 228 | 94123387           | 0946          | 205        | <b>Thermo King</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 2810013010 | 1722   | 224 |
| 19011514 | 1811   | 229 | 96051950           | 0576          | 191        | 442918             | 0376          | 185        | 2810013010 | 9186   | 234 |
| 19011518 | 13117  | 237 | 96062498           | 0576          | 191        | 445443             | 0376          | 185        | 2810015020 | 0947   | 205 |
| 19011518 | 13131  | 237 | <b>Renault</b>     | <b>Nº ZEN</b> | <b>Pg.</b> | 451229             | 0792          | 199        | 2810015020 | 1722   | 224 |
| 19011518 | 1810   | 228 | 233002654R         | 1838          | 230        | 451229             | 9526          | 235        | 2810015020 | 9186   | 234 |
| 19011518 | 1811   | 229 | 233003329R         | 1756          | 226        | 451263             | 0792          | 199        | 2810015040 | 0947   | 205 |
| 19011519 | 13117  | 237 | 5000046311         | 0308          | 183        | 451263             | 9526          | 235        | 2810015040 | 1722   | 224 |
| 19011519 | 13131  | 237 | 5000240884         | 0308          | 183        | 451285             | 0792          | 199        | 2810015040 | 9186   | 234 |
| 19011519 | 1810   | 228 | 7700525547         | 0308          | 183        | 451285             | 9526          | 235        | 2810015050 | 0184   | 180 |
| 19011519 | 1811   | 229 | 7702227059         | 0945          | 205        | 451671             | 0792          | 199        | 2810015070 | 0947   | 205 |
| 19011521 | 13117  | 237 | 8200568535         | 1838          | 230        | 451993             | 0792          | 199        | 2810015070 | 1722   | 224 |
| 19011521 | 13131  | 237 | 8201036311         | 1838          | 230        | 8451263            | 0792          | 199        | 2810015070 | 9186   | 234 |
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| 19011522 | 13131  | 237 | 4117847            | 1548          | 217        | 10451993           | 0792          | 199        | 2810015140 | 0184   | 180 |
| 19011522 | 1810   | 228 | <b>Scania</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | 41044000           | 0792          | 199        | 2810015180 | 0947   | 205 |
| 19011522 | 1811   | 229 | 183868             | 0308          | 183        | <b>Tigershark</b>  | <b>Nº ZEN</b> | <b>Pg.</b> | 2810015180 | 1722   | 224 |
| 19011523 | 13117  | 237 | 188486             | 0308          | 183        | 3008093            | 1036          | 208        | 2810015180 | 9186   | 234 |
| 19011523 | 13131  | 237 | <b>Sisu Diesel</b> | <b>Nº ZEN</b> | <b>Pg.</b> | 3008327            | 1036          | 208        | 2810016020 | 0947   | 205 |
| 19011523 | 1810   | 228 | 836673289          | 1701          | 223        | 3008536            | 1036          | 208        | 2810016020 | 1722   | 224 |
| 19011523 | 1811   | 229 | 836673290          | 1698          | 223        | <b>Toro</b>        | <b>Nº ZEN</b> | <b>Pg.</b> | 2810016020 | 9186   | 234 |
| 19011524 | 13118  | 237 | 836866817          | 1698          | 223        | NN10268            | 0943          | 205        | 2810016080 | 0947   | 205 |
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| 19011524 | 1810   | 228 | <b>Ssangyong</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | 88189              | 0567          | 191        | 2810016080 | 9186   | 234 |
| 19011527 | 13117  | 237 | 6611513201         | 1886          | 232        | 215861             | 0567          | 191        | 2810016110 | 0947   | 205 |
| 19011527 | 13131  | 237 | <b>Steyr</b>       | <b>Nº ZEN</b> | <b>Pg.</b> | 215987             | 0567          | 191        | 2810016110 | 1722   | 224 |
| 19011527 | 1810   | 228 | 6090926            | 0308          | 183        | 971561             | 0567          | 191        | 2810016270 | 0818   | 200 |
| 19011527 | 1811   | 229 | <b>Subaru</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | <b>Toyota</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | 2810017080 | 1830   | 230 |
| 19011529 | 13117  | 237 | 429916400          | 0517          | 189        | 28100              | 0327          | 184        | 2810020550 | 9186   | 234 |
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| 19024076 | 0133   | 179 | <b>Suzuki</b>      | <b>Nº ZEN</b> | <b>Pg.</b> | 281000D090         | 1813          | 229        | 2810022060 | 1827   | 229 |
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| 19024087 | 0133   | 179 | 3110060A20         | 0617          | 192        | 281000G040         | 1884          | 232        | 2810022090 | 1841   | 230 |
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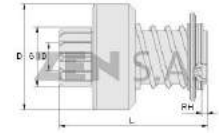
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| 2810096502                 | 1827          | 229        | D7E11 | 1064   | 209 | D9R99  | 0961   | 206 | D9R119  | 0961   | 206 |
| 2830023040                 | 1827          | 229        | D7E15 | 0843   | 201 | ND161  | 1162   | 211 | D9R134  | 0656   | 194 |
| 2830023041                 | 1827          | 229        | D7E16 | 0965   | 206 | TS8E2  | 1763   | 226 | D9R135  | 0961   | 206 |
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| 2810047090C                | 1827          | 229        | D7E23 | 0965   | 206 | 438186 | 1607   | 219 | FS10B4  | 1755   | 226 |
| 2810047090C                | 9301          | 234        | D7E24 | 0965   | 206 | 438189 | 1812   | 229 | FS14B1  | 1787   | 227 |
| 281000D08084               | 1841          | 230        | D7E27 | 1064   | 209 | 455899 | 1607   | 219 | FS14B2  | 1788   | 228 |
| 281002206171F              | 1827          | 229        | D7E33 | 1533   | 217 | 455954 | 1607   | 219 | TS12E9  | 1756   | 226 |
| <b>TRW</b>                 | <b>Nº ZEN</b> | <b>Pg.</b> | D7E34 | 1533   | 217 | 458172 | 1607   | 219 | TS2232  | 1838   | 230 |
| LRS661                     | 9702          | 235        | D7E35 | 0965   | 206 | 458178 | 1607   | 219 | TS22E5  | 1838   | 230 |
| <b>Unipoint</b>            | <b>Nº ZEN</b> | <b>Pg.</b> | D7E37 | 0965   | 206 | 458185 | 1812   | 229 | TS22E8  | 1838   | 230 |
| STR3302                    | 1796          | 228        | D7E39 | 0965   | 206 | 458237 | 1812   | 229 | TS22E9  | 1838   | 230 |
| STR8044                    | 1723          | 225        | D7E43 | 1533   | 217 | BD7E10 | 1064   | 209 | 1195921 | 1775   | 227 |
| <b>United Technologies</b> | <b>Nº ZEN</b> | <b>Pg.</b> | D7E45 | 1533   | 217 | BD7E17 | 0843   | 201 | 1195922 | 1775   | 227 |
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| 6873740                    | 1453          | 215        | D7E56 | 1534   | 217 | D6GS14 | 1891   | 232 | D6GC211 | 1873   | 231 |
| 7005840                    | 1453          | 215        | D7ES6 | 1534   | 217 | D6RA12 | 0775   | 198 | D6GS14M | 1891   | 232 |
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| <b>Utms</b>                | <b>Nº ZEN</b> | <b>Pg.</b> | D7R12 | 1023   | 208 | D6RA23 | 0775   | 198 | D6RA107 | 1209   | 214 |
| MFJ6501                    | 0930          | 204        | D7R13 | 1023   | 208 | D6RA26 | 0775   | 198 | D6RA110 | 1822   | 229 |
| <b>Valeo</b>               | <b>Nº ZEN</b> | <b>Pg.</b> | D7R15 | 1074   | 210 | D6RA32 | 0747   | 197 | D6RA115 | 1822   | 229 |
| D6G1                       | 1752          | 226        | D7R16 | 1023   | 208 | D6RA33 | 0747   | 197 | D6RA133 | 1209   | 214 |
| D6G3                       | 1752          | 226        | D7R18 | 1023   | 208 | D6RA37 | 0775   | 198 | D6RA141 | 0787   | 199 |
| D6G5                       | 1752          | 226        | D7R19 | 1458   | 215 | D6RA38 | 0775   | 198 | D6RA162 | 1209   | 214 |
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| D7E2                       | 1152          | 211        | D7R24 | 1074   | 210 | D6RA41 | 0775   | 198 | D6RA511 | 0787   | 199 |
| D7E4                       | 0843          | 201        | D7R25 | 1023   | 208 | D6RA45 | 0775   | 198 | D6RA571 | 0787   | 199 |
| D7E5                       | 0965          | 206        | D7R26 | 1023   | 208 | D6RA48 | 0747   | 197 | D6RA572 | 0787   | 199 |
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| D7E8                       | 0843          | 201        | D7R28 | 1458   | 215 | D6RA53 | 0787   | 199 | D6RA721 | 0787   | 199 |
| D7G3                       | 1812          | 229        | D7R33 | 1074   | 210 | D6RA56 | 1209   | 214 | TS12E10 | 1756   | 226 |
| D7R1                       | 1074          | 210        | D7R34 | 1607   | 219 | D6RA57 | 0775   | 198 | TS12E36 | 1765   | 226 |
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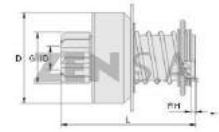
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|-------------------|---------------|------------|--------------|---------------|------------|--------|--------|-----|------------------|---------------|------------|
| TS18E13           | 1812          | 229        | 02T911023E   | 1069          | 209        | MALW3  | 0001   | 176 | MALBD2           | 0022          | 176        |
| TS22E20           | 1776          | 227        | 02T911023Q   | 1534          | 217        | MPB11  | 0024   | 176 | MALMF2           | 0024          | 176        |
| TS22E26           | 1758          | 226        | 2TO911335    | 1091          | 210        | MPB11  | 1359   | 215 | MALMF2           | 1359          | 215        |
| TS22E5B           | 1838          | 230        | 5U0911023    | 1712          | 224        | MPB13  | 0084   | 178 | MALTF1           | 0024          | 176        |
| TSC1010           | 1755          | 226        | 5U0911335    | 1712          | 224        | MPB17  | 0024   | 176 | MALTF1           | 1359          | 215        |
| TSC10B1           | 1825          | 229        | 069911023E   | 1480          | 216        | MPB17  | 1359   | 215 | MALTF2           | 0024          | 176        |
| TSC10R7           | 1893          | 232        | 02M911023MX  | 1891          | 232        | MPB18  | 0024   | 176 | MALTF2           | 1359          | 215        |
| 93264950          | 0843          | 201        | 2W0911023C   | 1604          | 219        | MPB18  | 1359   | 215 | MALW12           | 0001          | 176        |
| DSL42350          | 1607          | 219        | 2H0911023AX  | 1768          | 226        | MPB19  | 0025   | 176 | MALW14           | 0001          | 176        |
| TS12ER20          | 1891          | 232        | <b>Volvo</b> | <b>Nº ZEN</b> | <b>Pg.</b> | MPB22  | 0070   | 178 | MALW3N           | 0056          | 177        |
| TS12ER25          | 1891          | 232        | 240847       | 0308          | 183        | MPB23  | 0024   | 176 | MWV12F           | 0192          | 181        |
| TS14E110          | 1812          | 229        | 241599       | 0308          | 183        | MPB23  | 1359   | 215 | MALMWM3          | 0025          | 176        |
| TS22ER12          | 1768          | 226        | 243007       | 0308          | 183        | MPB25  | 0193   | 181 | MALMWM4          | 0025          | 176        |
| TS22ER13          | 1768          | 226        | 243043       | 0308          | 183        | MPB27  | 0193   | 181 | MPJ1074          | 0024          | 176        |
| D13E117TE         | 0117          | 179        | 243326       | 0308          | 183        | MPB30  | 0085   | 178 | MPJ1074          | 1359          | 215        |
| D13E118TE         | 0117          | 179        | 420760       | 1827          | 229        | MPB31  | 0024   | 176 | <b>Whatcom</b>   | <b>Nº ZEN</b> | <b>Pg.</b> |
| D13E119TE         | 0117          | 179        | 1328391      | 9702          | 235        | MPB31  | 1359   | 215 | 22958            | 1548          | 217        |
| D13E120TE         | 0117          | 179        | 1328396      | 9702          | 235        | MPB33  | 0024   | 176 | <b>White</b>     | <b>Nº ZEN</b> | <b>Pg.</b> |
| D13E121TE         | 0117          | 179        | 1676822      | 1827          | 229        | MPB33  | 1359   | 215 | 207000396        | 0567          | 191        |
| D13E122TE         | 0117          | 179        | 4785539      | 0308          | 183        | MPB35  | 0126   | 179 | <b>Wilson</b>    | <b>Nº ZEN</b> | <b>Pg.</b> |
| D13E123TE         | 0117          | 179        | 4785541      | 0308          | 183        | MPB36  | 0114   | 179 | 91251101         | 9702          | 235        |
| 3610042350        | 1607          | 219        | 5003003      | 9702          | 235        | MPB38  | 0125   | 179 | <b>Woodauto</b>  | <b>Nº ZEN</b> | <b>Pg.</b> |
| 361004A200        | 1872          | 231        | 8192262      | 1827          | 229        | MPB42  | 0085   | 178 | STR72029         | 9702          | 235        |
| 8200225336        | 1618          | 220        | 132839-6     | 9702          | 235        | MPB47  | 0186   | 181 | <b>Worldwide</b> | <b>Nº ZEN</b> | <b>Pg.</b> |
| ESW20ER121        | 1824          | 229        | 50030030     | 9702          | 235        | MPB48  | 0186   | 181 | 16942            | 9702          | 235        |
| 8V2111000BC       | 1756          | 226        | 5003003-0    | 9702          | 235        | MPB49  | 0024   | 176 | 17754            | 1548          | 217        |
| 8V2111000BD       | 1756          | 226        | <b>WAI</b>   | <b>Nº ZEN</b> | <b>Pg.</b> | MPB49  | 1359   | 215 | <b>Yale</b>      | <b>Nº ZEN</b> | <b>Pg.</b> |
| 8V2111000BE       | 1756          | 226        | 21289HI      | 9702          | 235        | MPB50  | 0024   | 176 | 220002397        | 0567          | 191        |
| TM000A34001       | 1705          | 224        | 22332MT      | 1548          | 217        | MPB50  | 1359   | 215 | 220007252        | 0567          | 191        |
| TM000A36101       | 1607          | 219        | <b>Wapsa</b> | <b>Nº ZEN</b> | <b>Pg.</b> | MPB55  | 0070   | 178 | 220007343        | 0567          | 191        |
| 36100DSL42350     | 1607          | 219        | MPB1         | 0024          | 176        | MPB59  | 0024   | 176 | 220007347        | 0567          | 191        |
| <b>Valtra</b>     | <b>Nº ZEN</b> | <b>Pg.</b> | MPB1         | 1359          | 215        | MPB59  | 1359   | 215 | 220007359        | 0567          | 191        |
| 221561            | 1699          | 223        | MPB2         | 0024          | 176        | MPB60  | 0024   | 176 | 220007362        | 0567          | 191        |
| 83645200          | 1699          | 223        | MPB2         | 1359          | 215        | MPB60  | 1359   | 215 | <b>Yamaha</b>    | <b>Nº ZEN</b> | <b>Pg.</b> |
| 83646400          | 1701          | 223        | MPB3         | 0056          | 177        | MPB63  | 0024   | 176 | 6k8818071000     | 0754          | 197        |
| 83646500          | 1698          | 223        | MPB4         | 0056          | 177        | MPB63  | 1359   | 215 | <b>Yanmar</b>    | <b>Nº ZEN</b> | <b>Pg.</b> |
| <b>Visteon</b>    | <b>Nº ZEN</b> | <b>Pg.</b> | MPB5         | 0073          | 178        | MPB66  | 0505   | 189 | 11913177010      | 1858          | 231        |
| 1C3U11000AA       | 1081          | 210        | MPB9         | 0085          | 178        | MPB68  | 0085   | 178 | <b>ZEN</b>       | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1C3U11000AB       | 1081          | 210        | MPC1         | 0022          | 176        | MPB70  | 0024   | 176 | 12716            | 0773          | 198        |
| 1C3U11000AC       | 1081          | 210        | MPE1         | 0193          | 181        | MPB70  | 1359   | 215 | 12723            | 1218          | 214        |
| 1C3U11000AD       | 1081          | 210        | MPF6         | 0001          | 176        | MPC1N  | 0086   | 178 | <b>ZM</b>        | <b>Nº ZEN</b> | <b>Pg.</b> |
| 1C3U11000AE       | 1081          | 210        | MPF7         | 0001          | 176        | MPC69  | 0024   | 176 | 8148001          | 1733          | 225        |
| 1C3Z11002AA       | 1081          | 210        | MPF8         | 0024          | 176        | MPC69  | 1359   | 215 | 8148002          | 1733          | 225        |
| 2C2411000AA       | 1081          | 210        | MPF8         | 1359          | 215        | MPMF3  | 0024   | 176 |                  |               |            |
| <b>Volkswagen</b> | <b>Nº ZEN</b> | <b>Pg.</b> | MPN2         | 0024          | 176        | MPMF3  | 1359   | 215 |                  |               |            |
| 495107            | 1893          | 232        | MPN2         | 1359          | 215        | MPT2N  | 0025   | 176 |                  |               |            |
| 02M911024         | 1856          | 230        | MPT2         | 0025          | 176        | MWB14  | 0104   | 178 |                  |               |            |
| 02A911023L        | 0937          | 204        | MWC2         | 0084          | 178        | MWB17  | 0348   | 184 |                  |               |            |
| 2H0911023         | 1768          | 226        | MALF2        | 0001          | 176        | MWB18  | 0328   | 184 |                  |               |            |
| 02M911021B        | 1891          | 232        | MALF3        | 0001          | 176        | MWB19  | 0329   | 184 |                  |               |            |
| 02M911021H        | 1803          | 228        | MALI1        | 0022          | 176        | MWB21  | 0328   | 184 |                  |               |            |
| 02M911023M        | 1891          | 232        | MALP2        | 0024          | 176        | MWB23  | 0293   | 183 |                  |               |            |
| 02M911024Q        | 1803          | 228        | MALP2        | 1359          | 215        | MWB25  | 0293   | 183 |                  |               |            |
| 02M911024R        | 1803          | 228        | MALT1        | 0025          | 176        | MWV12  | 0192   | 181 |                  |               |            |
| 02T911021E        | 1893          | 232        | MALW2        | 0001          | 176        | MALBD1 | 0022   | 176 |                  |               |            |

| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diámetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diámetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diámetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

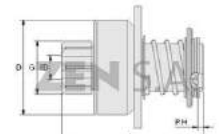
|      |    |       |      |    |    |      |     |              |
|------|----|-------|------|----|----|------|-----|--------------|
| 0108 | 9  | 25.8  | 64   | 10 | 12 | 46.7 | 2.5 | Horário      |
| 0111 | 11 | 29.5  | 64   | 10 | 12 | 46.5 | 2.5 | Horário      |
| 0292 | 9  | 25.8  | 64   | 10 | 11 | 46.5 | 2.5 | Horário      |
| 0325 | 9  | 25.8  | 62   | 10 | 12 | 46.5 | 3   | Horário      |
| 0361 | 9  | 29.64 | 64   | 10 | 12 | 46.5 | 2.5 | Horário      |
| 0417 | 9  | 34.8  | 64   | 10 | 12 | 54.5 | 2.5 | Horário      |
| 0442 | 9  | 25.8  | 64   | 10 | 12 | 46.7 | 3   | Anti-horário |
| 0638 | 9  | 34.4  | 64   | 10 | 12 | 46.5 | 2.5 | Horário      |
| 0857 | 9  | 25.8  | 64   | 10 | 12 | 46.5 |     | Horário      |
| 0874 | 8  | 28.2  | 64.5 | 10 | 12 | 46.5 | 2.5 | Horário      |
| 0893 | 10 | 31.7  | 64   | 10 | 12 | 46.5 | 2.5 | Horário      |
| 0931 | 10 | 33    | 75   | 10 | 12 | 54.5 |     | Horário      |
| 0996 | 10 | 32    | 64   | 10 | 12 | 46.5 | 2.5 | Horário      |



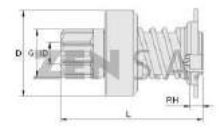
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|------|---|------|----|----|----|------|-----|--------------|
| 0068 | 9 | 25.8 | 64 | 10 | 12 | 46.5 | 2.5 | Horário      |
| 0323 | 9 | 25.8 | 62 | 10 | 11 | 46.5 | 3   | Anti-horário |
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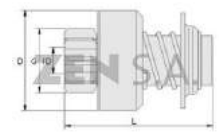
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|------|----|-------|----|----|----|------|-----|---------|
| 0221 | 9  | 25.8  | 64 | 10 | 12 | 46.5 | 2.5 | Horário |
| 0222 | 10 | 26.82 | 64 | 10 | 12 | 46.5 | 2.5 | Horário |
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|------|----|-------|----|----|----|------|---|---------|
| 0135 | 9  | 25.8  | 77 | 12 | 12 | 46.5 | 7 | Horário |
| 0905 | 10 | 27.94 | 77 | 12 | 12 | 46.5 | 7 | Horário |
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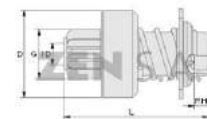


|      |   |       |      |   |       |      |  |         |
|------|---|-------|------|---|-------|------|--|---------|
| 0162 | 9 | 29.64 | 64.5 | 9 | 12.06 | 46.5 |  | Horário |
| 0238 | 9 | 25.8  | 64   | 9 | 12.06 | 46.5 |  | Horário |
| 0445 | 9 | 25.8  | 61.5 | 9 | 12.06 | 46.5 |  | Horário |
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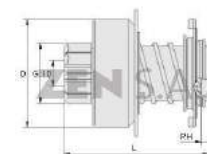


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diámetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

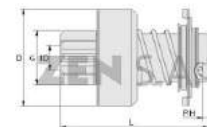
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|------|----|-------|------|----|----|------|---|---------|
| 0053 | 9  | 25.8  | 71.8 | 12 | 12 | 46.5 | 7 | Horário |
| 0455 | 10 | 27.94 | 71.8 | 12 | 12 | 46.5 | 7 | Horário |
| 0681 | 9  | 29.64 | 70   | 12 | 12 | 46.5 | 7 | Horário |
|      |    |       |      |    |    |      |   |         |
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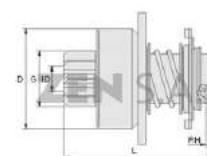
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|------|----|-------|----|----|----|------|-----|--------------|
| 0065 | 9  | 25.8  | 62 | 10 | 11 | 46.3 | 3   | Anti-horário |
| 0077 | 9  | 29.64 | 64 | 10 | 12 | 46.5 | 2.5 | Horário      |
| 0082 | 10 | 26.82 | 66 | 10 | 12 | 46.5 | 2.5 | Horário      |
| 0220 | 10 | 26.82 | 64 | 10 | 12 | 46.5 |     | Horário      |
| 0229 | 9  | 25.8  | 74 | 10 | 11 | 46.5 | 3   | Anti-horário |
| 0307 | 9  | 25.8  | 64 | 10 | 12 | 46.5 | 2.5 | Horário      |
| 0345 | 9  | 25.8  | 64 | 10 | 12 | 46.7 | 3   | Anti-horário |
|      |    |       |    |    |    |      |     |              |
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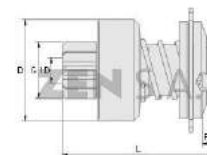
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|------|----|------|----|----|----|------|-----|---------|
| 0163 | 9  | 34.4 | 64 | 10 | 12 | 46.5 | 2.5 | Horário |
| 0653 | 9  | 25.8 | 64 | 10 | 12 | 46.5 | 2.5 | Horário |
| 0672 | 9  | 25.8 | 60 | 10 | 12 | 46.5 |     | Horário |
| 0673 | 11 | 34.4 | 64 | 10 | 12 | 46.5 | 2.5 | Horário |
| 0675 | 10 | 33   | 64 | 10 | 12 | 46.5 | 2.5 | Horário |
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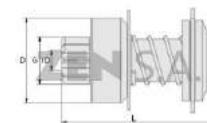
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|------|---|-------|------|----|----|------|-----|---------|
| 0115 | 9 | 25.8  | 66   | 10 | 12 | 46.5 | 2.5 | Horário |
| 0139 | 9 | 25.8  | 64   | 10 | 12 | 46.5 | 2.5 | Horário |
| 0300 | 9 | 29.64 | 64.5 | 10 | 12 | 46.5 | 2.5 | Horário |
| 0674 | 9 | 25.8  | 66   | 10 | 12 | 46.5 | 2.5 | Horário |
| 0676 | 9 | 25.8  | 74   | 10 | 12 | 46.5 | 2.5 | Horário |
|      |   |       |      |    |    |      |     |         |
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|------|----|-------|------|---|------|------|---|---------|
| 0213 | 11 | 29.5  | 68   | 6 | 14   | 46.5 |   | Horário |
| 0389 | 11 | 29.5  | 70.8 | 6 | 11.5 | 46.5 | 7 | Horário |
| 0397 | 9  | 29.64 | 70.8 | 6 | 11.5 | 46.5 | 7 | Horário |
| 0408 | 9  | 25.8  | 69   | 6 | 11.5 | 46.5 | 5 | Horário |
| 0443 | 9  | 25.8  | 62.5 | 6 | 12   | 46.5 | 3 | Horário |
| 0671 | 8  | 28.2  | 71   | 6 | 11.5 | 46.5 | 7 | Horário |
| 0714 | 9  | 29.64 | 70.8 | 6 | 12   | 46.5 | 7 | Horário |
| 0731 | 9  | 25.8  | 68.5 | 6 | 12   | 46.5 | 5 | Horário |
| 0732 | 9  | 25.8  | 58   | 6 | 12   | 46.5 |   | Horário |
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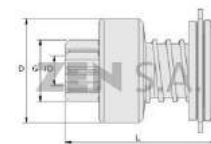


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|------|----|-------|------|---|-------|------|--|--------------|
| 0540 | 11 | 29.5  | 66.5 | 6 | 14    | 46.5 |  | Anti-horário |
| 0605 | 9  | 25.8  | 77   | 6 | 11    | 46.5 |  | Anti-horário |
| 0888 | 11 | 41.99 | 98   | 3 | 14.29 | 59.9 |  | Horário      |
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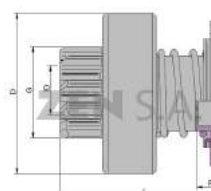


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diámetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diámetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diámetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

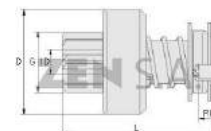
|      |   |      |      |   |    |    |  |         |
|------|---|------|------|---|----|----|--|---------|
| 0608 | 9 | 35.5 | 81.5 | 6 | 17 | 60 |  | Horário |
|      |   |      |      |   |    |    |  |         |
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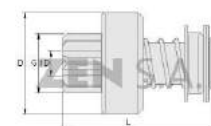
|      |   |       |    |    |    |      |    |         |
|------|---|-------|----|----|----|------|----|---------|
| 1104 | 9 | 34.8  | 62 | 10 | 12 | 60   | 11 | Horário |
| 1117 | 9 | 25.8  | 62 | 10 | 12 | 54.3 | 11 | Horário |
| 1477 | 9 | 29.64 | 62 | 10 | 12 | 54.3 | 11 | Horário |
|      |   |       |    |    |    |      |    |         |
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|      |    |      |    |    |       |      |    |         |
|------|----|------|----|----|-------|------|----|---------|
| 0101 | 11 | 41   | 89 | 10 | 14.3  | 60   | 20 | Horário |
| 0105 | 9  | 34.8 | 91 | 10 | 14.3  | 60   | 13 | Horário |
| 0118 | 10 | 40   | 91 | 10 | 14.26 | 60   | 13 | Horário |
| 0153 | 13 | 46   | 91 | 10 | 14.26 | 60   | 13 | Horário |
| 0155 | 10 | 40   | 73 | 12 | 17    | 60   |    | Horário |
| 0301 | 9  | 34.8 | 91 | 10 | 14.3  | 60   | 25 | Horário |
| 0302 | 10 | 40   | 91 | 10 | 14.26 | 60   | 25 | Horário |
| 0303 | 12 | 46   | 94 | 10 | 14.3  | 60   | 13 | Horário |
| 0304 | 10 | 32   | 91 | 10 | 14.26 | 60   | 25 | Horário |
| 0308 | 9  | 34.8 | 91 | 10 | 14.3  | 60   | 13 | Horário |
| 0310 | 9  | 34.8 | 75 | 10 | 14.3  | 60   | 6  | Horário |
| 0312 | 9  | 34.8 | 75 | 10 | 14.3  | 60   | 6  | Horário |
| 0313 | 12 | 46.3 | 75 | 10 | 14.3  | 60   | 6  | Horário |
| 0315 | 9  | 34.8 | 91 | 10 | 14.3  | 60   | 13 | Horário |
| 0316 | 11 | 41   | 91 | 10 | 14.3  | 60   | 25 | Horário |
| 0319 | 9  | 25.8 | 73 | 10 | 12    | 54.5 | 6  | Horário |
| 0392 | 11 | 41   | 91 | 10 | 14.3  | 60   | 13 | Horário |
| 0497 | 10 | 32   | 91 | 10 | 14.26 | 60   | 13 | Horário |
| 0661 | 10 | 39   | 91 | 10 | 14.3  | 60   | 13 | Horário |
| 0748 | 10 | 37.8 | 91 | 10 | 14.3  | 60   | 13 | Horário |
| 1364 | 9  | 34.8 | 91 | 10 | 14.3  | 60   | 13 | Horário |
| 1372 | 10 | 37.8 | 91 | 10 | 14.3  | 60   | 13 | Horário |

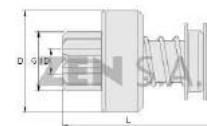


|      |    |       |      |    |       |      |  |         |
|------|----|-------|------|----|-------|------|--|---------|
| 0228 | 9  | 25.8  | 71   | 10 | 12    | 54.5 |  | Horário |
| 0291 | 9  | 34.8  | 74   | 10 | 14.3  | 60   |  | Horário |
| 0320 | 9  | 29.64 | 74   | 10 | 14.3  | 54.5 |  | Horário |
| 0365 | 9  | 36.5  | 74   | 10 | 14.3  | 60   |  | Horário |
| 0366 | 9  | 34.8  | 74   | 10 | 14.3  | 60   |  | Horário |
| 0367 | 9  | 34.8  | 91   | 10 | 14.3  | 60   |  | Horário |
| 0378 | 11 | 41    | 91   | 10 | 14.3  | 60   |  | Horário |
| 0418 | 10 | 40    | 91   | 10 | 14.26 | 60   |  | Horário |
| 0419 | 10 | 39    | 91   | 10 | 14.3  | 60   |  | Horário |
| 0447 | 11 | 41    | 73.5 | 10 | 14.2  | 60   |  | Horário |
| 0460 | 10 | 27.2  | 74   | 10 | 14.26 | 54.5 |  | Horário |
| 0496 | 9  | 34.8  | 84   | 10 | 14.3  | 54.5 |  | Horário |
| 0528 | 12 | 46.3  | 74   | 10 | 14.3  | 60   |  | Horário |
| 0538 | 10 | 37.8  | 91   | 10 | 14.3  | 60   |  | Horário |
| 0635 | 10 | 32    | 91   | 10 | 14.26 | 60   |  | Horário |
| 0648 | 9  | 34.8  | 91   | 10 | 14.26 | 60   |  | Horário |
| 0668 | 10 | 40    | 84   | 10 | 14.3  | 54.5 |  | Horário |
| 0677 | 10 | 40    | 74   | 10 | 14.3  | 54.5 |  | Horário |
| 0760 | 11 | 41    | 91   | 10 | 14.3  | 60   |  | Horário |

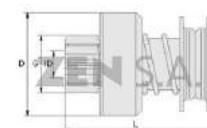


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

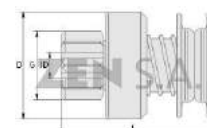
|      |    |       |      |    |       |      |              |
|------|----|-------|------|----|-------|------|--------------|
| 0764 | 11 | 35.8  | 74   | 10 | 14.3  | 60   | Horário      |
| 0784 | 9  | 29.64 | 91   | 10 | 14.3  | 60   | Anti-horário |
| 0814 | 10 | 40    | 91   | 10 | 14.26 | 60   | Horário      |
| 0970 | 9  | 36.5  | 91   | 10 | 14.3  | 60   | Horário      |
| 1001 | 11 | 41    | 91   | 10 | 14.26 | 60   | Anti-horário |
| 1002 | 11 | 35.8  | 91   | 10 | 14.26 | 60   | Horário      |
| 1003 | 10 | 40    | 74   | 10 | 14.26 | 60   | Anti-horário |
| 1004 | 9  | 34.8  | 91   | 10 | 14.26 | 60   | Anti-horário |
| 1005 | 9  | 34.8  | 74   | 10 | 14.26 | 60   | Anti-horário |
| 1180 | 10 | 27.5  | 70.2 | 10 | 12    | 54.5 | Horário      |
| 1594 | 11 | 42    | 91   | 10 | 14.26 | 60   | Horário      |
| 1616 | 10 | 39.5  | 77   | 10 | 14.3  | 60   | Horário      |



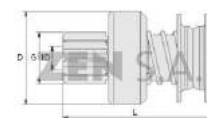
|      |    |       |      |    |       |      |              |
|------|----|-------|------|----|-------|------|--------------|
| 0216 | 9  | 36.5  | 76   | 12 | 14    | 54.5 | Horário      |
| 0245 | 9  | 25.8  | 59.5 | 9  | 12    | 46.5 | Anti-horário |
| 0530 | 10 | 27.94 | 76   | 12 | 12    | 54.5 | Horário      |
| 1753 | 11 | 39.67 | 55.4 | 3  | 12.65 | 46.5 | Horário      |
|      |    |       |      |    |       |      |              |
|      |    |       |      |    |       |      |              |
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|      |    |       |      |    |       |      |              |



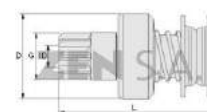
|      |    |       |      |    |       |      |              |
|------|----|-------|------|----|-------|------|--------------|
| 0104 | 9  | 25.8  | 72   | 6  | 12    | 46.5 | Horário      |
| 0114 | 12 | 46.3  | 108  | 6  | 14.26 | 60   | Horário      |
| 0126 | 9  | 25.8  | 72   | 6  | 12    | 46.5 | Horário      |
| 0158 | 9  | 25.8  | 70   | 9  | 12    | 46.5 | Horário      |
| 0192 | 9  | 25.8  | 64   | 3  | 11    | 46.5 | Anti-horário |
| 0215 | 9  | 29.64 | 76   | 12 | 14    | 54.5 | Horário      |
| 0217 | 9  | 29.64 | 76   | 6  | 14    | 54.5 | Horário      |
| 0293 | 9  | 25.8  | 64   | 6  | 12    | 46.5 | Horário      |
| 0294 | 9  | 25.8  | 64   | 6  | 11    | 46.5 | Anti-horário |
| 0433 | 9  | 25.8  | 69   | 3  | 12    | 43.5 | Horário      |
| 0458 | 9  | 29.64 | 55.5 | 6  | 12    | 41.5 | Anti-horário |
| 0462 | 9  | 29.64 | 68   | 9  | 12    | 54.5 | Horário      |
| 0463 | 9  | 29.64 | 69   | 9  | 12    | 46.5 | Horário      |
| 0783 | 9  | 25.8  | 69   | 3  | 12    | 43.5 | Horário      |
| 1189 | 9  | 25.8  | 68.5 | 3  | 12    | 45.8 | Horário      |



|      |   |      |      |   |    |      |         |
|------|---|------|------|---|----|------|---------|
| 0189 | 9 | 25.8 | 68   | 9 | 12 | 46.5 | Horário |
| 0244 | 9 | 25.8 | 61.5 | 9 | 12 | 46.5 | Horário |
|      |   |      |      |   |    |      |         |
|      |   |      |      |   |    |      |         |
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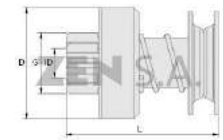


|      |    |      |      |   |    |      |         |
|------|----|------|------|---|----|------|---------|
| 0461 | 10 | 27.2 | 78.5 | 9 | 12 | 46.5 | Horário |
|      |    |      |      |   |    |      |         |
|      |    |      |      |   |    |      |         |
|      |    |      |      |   |    |      |         |
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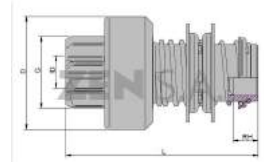


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|      |    |       |       |    |       |      |              |         |
|------|----|-------|-------|----|-------|------|--------------|---------|
| 0001 | 9  | 29.64 | 73.5  | 6  | 14.3  | 54.5 | Horário      |         |
| 0005 | 9  | 29.64 | 73.5  | 6  | 14.3  | 46.5 | Horário      |         |
| 0010 | 9  | 25.8  | 75    | 6  | 12    | 46.2 | Horário      |         |
| 0013 | 9  | 25.8  | 75.5  | 3  | 12    | 46.2 | Horário      |         |
| 0020 | 9  | 25.8  | 80.5  | 3  | 12    | 46.2 | Horário      |         |
| 0022 | 9  | 29.64 | 100   | 6  | 14.26 | 46.5 | Horário      |         |
| 0024 | 10 | 40    | 79.5  | 6  | 14.29 | 60   | Horário      |         |
| 0025 | 9  | 34.8  | 76.5  | 6  | 14.3  | 60   | Horário      |         |
| 0039 | 10 | 40    | 96    | 6  | 14.3  | 60   | Horário      |         |
| 0041 | 11 | 41    | 102.5 | 6  | 14.3  | 60   | Horário      |         |
| 0045 | 9  | 25.8  | 80.5  | 6  | 12    | 46.2 | Horário      |         |
| 0050 | 10 | 33    | 75    | 6  | 12    | 46.6 | Horário      |         |
| 0051 | 12 | 46.3  | 96    | 3  | 14.3  | 60   | Horário      |         |
| 0052 | 9  | 29.64 | 95    | 3  | 14.3  | 60   | Horário      |         |
| 0056 | 9  | 29.64 | 73.5  | 6  | 12    | 46.5 | Horário      |         |
| 0070 | 12 | 37.6  | 92.5  | 6  | 12    | 46.5 | Horário      |         |
| 0073 | 9  | 29.64 | 87    | 6  | 12    | 46.5 | Horário      |         |
| 0084 | 13 | 47    | 79.5  | 6  | 14.26 | 60   | Horário      |         |
| 0085 | 9  | 34.8  | 79    | 6  | 14.26 | 60   | Horário      |         |
| 0086 | 9  | 29.64 | 97.5  | 6  | 12    | 46.5 | Horário      |         |
| 0093 | 10 | 40    | 96    | 3  | 14.29 | 60   | Horário      |         |
| 0112 | 10 | 32    | 96    | 3  | 14.3  | 60   | Horário      |         |
| 0125 | 13 | 47    | 89.5  | 3  | 14.29 | 60   | Anti-horário |         |
| 0186 | 10 | 40    | 97    | 6  | 14.29 | 60   | Horário      |         |
| 0193 | 9  | 29.64 | 100   | 6  | 12    | 46.5 | Horário      |         |
| 0198 | 10 | 40    | 102.5 | 6  | 14.26 | 60   | Horário      |         |
| 0205 | 9  | 25.8  | 62    | 12 | 12    | 46.5 | Horário      |         |
| 0381 | 10 | 40    | 95.5  | 3  | 14.3  | 60   | Anti-horário |         |
| 0454 | 10 | 32    | 80.5  | 3  | 14.3  | 60   | Horário      |         |
| 0505 | 10 | 40    | 106.5 | 6  | 14.29 | 60   | Horário      |         |
| 0522 | 10 | 27.94 | 80.5  | 3  | 12    | 46.2 | Horário      |         |
| 0627 | 10 | 39.5  | 77.5  | 6  | 14.26 | 60   | Anti-horário |         |
| 0767 | 10 | 32.18 | 105.5 | 6  | 14.3  | 60   | Horário      |         |
| 0977 | 9  | 25.8  | 93    | 3  | 12    | 46.5 | Anti-horário |         |
| 1184 | 9  | 25.8  | 80.5  | 3  | 12    | 46.5 | Horário      |         |
| 1351 | 10 | 32.18 | 106   | 3  | 14.3  | 59.9 | Horário      |         |
| 1359 | 10 | 40    | 79.5  | 6  | 14.3  | 60   | Horário      |         |
| 1711 | 9  | 33.8  | 87.2  | 6  | 14.01 | 60.5 | 9            | Horário |
| 1784 | 10 | 37.8  | 89    | 6  | 15.01 | 60   | Horário      |         |
| 1785 | 12 | 46.4  | 89    | 6  | 15.01 | 60   | 6            | Horário |
| 1818 | 9  | 35.5  | 76.4  | 12 | 14.01 | 59.2 | 13.3         | Horário |
| 1819 | 10 | 32    | 98.2  | 11 | 14.01 | 59.2 | Horário      |         |



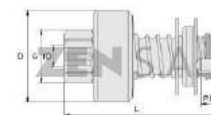
|      |    |       |      |    |       |      |         |              |
|------|----|-------|------|----|-------|------|---------|--------------|
| 0015 | 9  | 29.64 | 77.5 | 3  | 14.26 | 46.6 | 10      | Horário      |
| 0028 | 9  | 34.8  | 90   | 3  | 14.29 | 54.5 | 10      | Horário      |
| 0034 | 9  | 34.8  | 91   | 3  | 14.26 | 60   | 13      | Horário      |
| 0043 | 10 | 40    | 87   | 3  | 14.26 | 60   | 13      | Horário      |
| 0044 | 9  | 25.8  | 78   | 3  | 12    | 46.6 | 10      | Horário      |
| 0046 | 9  | 25.8  | 90   | 3  | 12    | 45.5 | 10      | Horário      |
| 0059 | 11 | 41    | 92   | 3  | 14.26 | 60   | Horário |              |
| 0060 | 10 | 40    | 91.5 | 3  | 14.26 | 60   | 10      | Horário      |
| 0061 | 13 | 46    | 92   | 3  | 14.26 | 60   | 10      | Horário      |
| 0062 | 9  | 34.8  | 77.5 | 3  | 14.26 | 46.6 | 10      | Horário      |
| 0092 | 9  | 34.8  | 86.5 | 3  | 14.26 | 60   | 12      | Horário      |
| 0224 | 10 | 37.8  | 90   | 3  | 14.26 | 54.5 | 10      | Horário      |
| 0227 | 11 | 41    | 90   | 3  | 14.26 | 54.5 | 10      | Horário      |
| 0318 | 9  | 34.8  | 90   | 10 | 14.26 | 54.5 | 18      | Horário      |
| 0709 | 9  | 34.8  | 90   | 3  | 14.26 | 54.5 | 10      | Horário      |
| 0831 | 9  | 25.8  | 79   | 12 | 12.51 | 54.5 | 10      | Anti-horário |
| 0902 | 11 | 41    | 91   | 12 | 14.26 | 60   | 15      | Horário      |
| 1076 | 9  | 34.8  | 86.9 | 3  | 14.29 | 54.5 | 13      | Horário      |
|      |    |       |      |    |       |      |         |              |
|      |    |       |      |    |       |      |         |              |
|      |    |       |      |    |       |      |         |              |
|      |    |       |      |    |       |      |         |              |



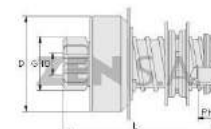


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

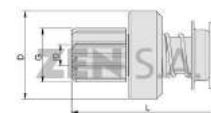
|      |    |      |      |   |      |    |    |         |
|------|----|------|------|---|------|----|----|---------|
| 0225 | 9  | 34.8 | 92.5 | 3 | 14.3 | 60 | 10 | Horário |
| 0226 | 11 | 41   | 92.5 | 3 | 14.3 | 60 | 10 | Horário |
|      |    |      |      |   |      |    |    |         |
|      |    |      |      |   |      |    |    |         |
|      |    |      |      |   |      |    |    |         |
|      |    |      |      |   |      |    |    |         |
|      |    |      |      |   |      |    |    |         |
|      |    |      |      |   |      |    |    |         |
|      |    |      |      |   |      |    |    |         |
|      |    |      |      |   |      |    |    |         |



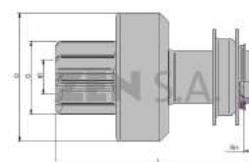
|      |   |       |      |   |       |      |    |              |
|------|---|-------|------|---|-------|------|----|--------------|
| 0006 | 9 | 29.64 | 74.5 | 3 | 14.26 | 46.5 | 10 | Anti-horário |
| 0191 | 9 | 25.8  | 74.5 | 3 | 11    | 46.5 | 10 | Anti-horário |
|      |   |       |      |   |       |      |    |              |
|      |   |       |      |   |       |      |    |              |
|      |   |       |      |   |       |      |    |              |
|      |   |       |      |   |       |      |    |              |
|      |   |       |      |   |       |      |    |              |
|      |   |       |      |   |       |      |    |              |
|      |   |       |      |   |       |      |    |              |
|      |   |       |      |   |       |      |    |              |



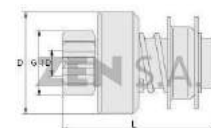
|      |   |      |       |    |       |      |  |         |
|------|---|------|-------|----|-------|------|--|---------|
| 1682 | 9 | 36.8 | 100.4 | 10 | 14.26 | 60.5 |  | Horário |
|      |   |      |       |    |       |      |  |         |
|      |   |      |       |    |       |      |  |         |
|      |   |      |       |    |       |      |  |         |
|      |   |      |       |    |       |      |  |         |
|      |   |      |       |    |       |      |  |         |
|      |   |      |       |    |       |      |  |         |
|      |   |      |       |    |       |      |  |         |
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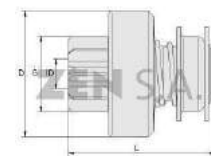
|      |   |      |    |    |    |    |   |         |
|------|---|------|----|----|----|----|---|---------|
| 0440 | 9 | 34.8 | 95 | 10 | 15 | 60 | 7 | Horário |
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|------|----|-------|------|----|-------|------|--|--------------|
| 0141 | 9  | 29.64 | 62   | 10 | 13    | 46.5 |  | Horário      |
| 0160 | 9  | 29.64 | 74   | 3  | 12.06 | 46.5 |  | Horário      |
| 0161 | 9  | 25.8  | 74   | 3  | 12    | 46.5 |  | Horário      |
| 0183 | 9  | 25.8  | 60   | 9  | 12    | 46.5 |  | Horário      |
| 0744 | 8  | 27    | 64   | 2  | 12    | 40   |  | Anti-horário |
| 0768 | 9  | 25.8  | 62.5 | 2  | 11.5  | 40   |  | Anti-horário |
| 0769 | 9  | 25.8  | 65.5 | 6  | 11.5  | 40   |  | Anti-horário |
| 1056 | 9  | 25.8  | 65   | 12 | 11.51 | 45.5 |  | Horário      |
| 1060 | 10 | 40    | 85   | 10 | 14.26 | 60   |  | Horário      |
| 1588 | 9  | 25.8  | 65   | 12 | 11.5  | 45.5 |  | Anti-horário |

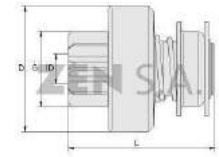


|      |    |      |    |    |    |    |  |         |
|------|----|------|----|----|----|----|--|---------|
| 0376 | 9  | 33   | 69 | 12 | 14 | 60 |  | Horário |
| 0448 | 9  | 36   | 69 | 12 | 14 | 60 |  | Horário |
| 0539 | 10 | 39.5 | 69 | 12 | 14 | 60 |  | Horário |
| 0561 | 9  | 34.8 | 77 | 6  | 14 | 60 |  | Horário |
| 0580 | 11 | 40.5 | 69 | 12 | 14 | 60 |  | Horário |
| 0684 | 9  | 34.8 | 69 | 12 | 14 | 60 |  | Horário |
| 0785 | 15 | 44.5 | 69 | 12 | 14 | 60 |  | Horário |
| 0901 | 11 | 40.5 | 77 | 12 | 16 | 60 |  | Horário |

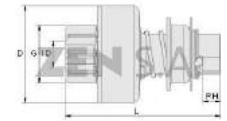


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

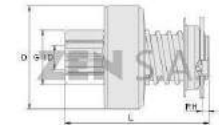
|      |    |      |    |    |       |    |  |         |
|------|----|------|----|----|-------|----|--|---------|
| 1073 | 9  | 34.8 | 83 | 10 | 14.3  | 60 |  | Horário |
| 1600 | 10 | 40   | 82 | 10 | 14.26 | 60 |  | Horário |
|      |    |      |    |    |       |    |  |         |
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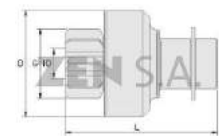
|      |   |      |    |   |      |    |    |         |
|------|---|------|----|---|------|----|----|---------|
| 0953 | 9 | 35.5 | 88 | 3 | 16.1 | 60 | 10 | Horário |
|      |   |      |    |   |      |    |    |         |
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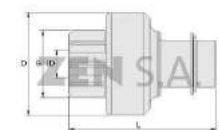
|      |    |       |    |    |       |    |    |         |
|------|----|-------|----|----|-------|----|----|---------|
| 0629 | 10 | 32    | 85 | 12 | 14    | 60 | 4  | Horário |
| 0645 | 10 | 32    | 85 | 12 | 13.01 | 60 | 4  | Horário |
| 0649 | 10 | 40    | 85 | 12 | 14    | 60 | 4  | Horário |
| 0650 | 12 | 46.3  | 85 | 12 | 14.01 | 60 | 4  | Horário |
| 0651 | 9  | 34.4  | 85 | 12 | 14    | 60 | 4  | Horário |
| 0663 | 9  | 36    | 78 | 12 | 14.01 | 60 |    | Horário |
| 0850 | 9  | 36.5  | 80 | 12 | 14    | 60 | 4  | Horário |
| 0895 | 9  | 36    | 71 | 12 | 13    | 60 | 4  | Horário |
| 1059 | 9  | 34.8  | 83 | 10 | 14.3  | 60 | 10 | Horário |
| 1194 | 10 | 32    | 85 | 12 | 14    | 60 | 4  | Horário |
| 1195 | 10 | 40    | 85 | 12 | 14    | 60 | 4  | Horário |
| 1196 | 12 | 46.3  | 85 | 12 | 14    | 60 | 4  | Horário |
| 1197 | 9  | 34.4  | 85 | 12 | 14    | 60 | 4  | Horário |
| 1198 | 9  | 29.64 | 85 | 12 | 13    | 60 | 4  | Horário |
| 1574 | 11 | 41    | 85 | 12 | 14.26 | 60 | 4  | Horário |



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|------|----|-------|------|---|------|------|--|--------------|
| 0144 | 9  | 29.64 | 60.5 | 8 | 12.8 | 45.5 |  | Horário      |
| 0352 | 8  | 28.2  | 60.5 | 8 | 12.8 | 45.9 |  | Horário      |
| 0426 | 11 | 34.8  | 60.5 | 8 | 12.8 | 45.9 |  | Horário      |
| 0427 | 10 | 40    | 60.5 | 8 | 12.8 | 45.5 |  | Anti-horário |
|      |    |       |      |   |      |      |  |              |
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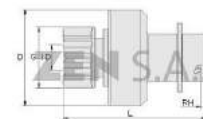


|      |   |       |      |   |      |      |  |         |
|------|---|-------|------|---|------|------|--|---------|
| 0340 | 9 | 29.64 | 60.5 | 8 | 12.8 | 45.5 |  | Horário |
|      |   |       |      |   |      |      |  |         |
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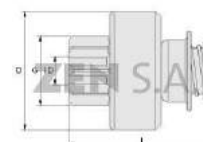


| T  | G  | L                                   | SPL  | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|--|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrials<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

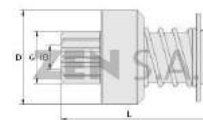
|      |    |      |      |    |       |      |     |              |
|------|----|------|------|----|-------|------|-----|--------------|
| 0554 | 9  | 29.5 | 65   | 10 | 12.51 | 46.5 | 2.5 | Horário      |
| 1518 | 9  | 25.8 | 62.5 | 12 | 12    | 60   | 3.5 | Horário      |
| 1526 | 11 | 34.5 | 92   | 12 | 14.2  | 60   |     | Anti-horário |
|      |    |      |      |    |       |      |     |              |
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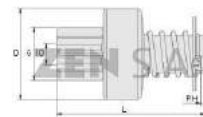
|      |    |       |      |    |       |      |      |              |
|------|----|-------|------|----|-------|------|------|--------------|
| 0549 | 9  | 32.2  | 70.5 | 3  | 14.3  | 60   |      | Horário      |
| 0756 | 11 | 30    | 61.5 | 6  | 12    | 46.2 | 2.5  | Horário      |
| 0770 | 9  | 25.8  | 45   | 6  | 12    | 43.5 | 1.5  | Horário      |
| 0774 | 9  | 25.8  | 61.5 | 6  | 12    | 46.2 | 2.5  | Horário      |
| 0809 | 9  | 29.6  | 53.5 | 5  | 11    | 43.5 | 2    | Horário      |
| 0841 | 9  | 29.6  | 53.5 | 5  | 11    | 41.5 | 2    | Horário      |
| 0843 | 8  | 23.92 | 44   | 5  | 11    | 46   | 1    | Horário      |
| 0854 | 8  | 24.7  | 64   | 6  | 12    | 43.5 | 1.5  | Anti-horário |
| 0950 | 9  | 29.6  | 53.5 | 5  | 11    | 41.5 | 2.12 | Anti-horário |
| 0958 | 11 | 30    | 47   | 6  | 12    | 46.5 | 1.5  | Horário      |
| 0965 | 9  | 25.8  | 41   | 5  | 10.99 | 46.5 | 1    | Horário      |
| 1064 | 8  | 23.92 | 41   | 5  | 10.99 | 46.5 | 1    | Horário      |
| 1152 | 9  | 25.4  | 43   | 5  | 11    | 46.5 | 1    | Horário      |
| 1482 | 9  | 29.6  | 47   | 6  | 12    | 46.5 | 1.5  | Horário      |
| 1605 | 8  | 28.2  | 45.5 | 6  | 12.06 | 43.5 | 1.5  | Anti-horário |
| 1620 | 8  | 28.2  | 64   | 6  | 12.06 | 43.5 | 1.5  | Anti-horário |
| 1704 | 8  | 28    | 55.8 | 4  | 12    | 46.7 |      | Horário      |
| 1734 | 9  | 29.6  | 64.2 | 5  | 11    | 43.7 | 2    | Horário      |
| 1801 | 8  | 23.46 | 43.8 | 12 | 10.69 | 45.3 |      | Horário      |



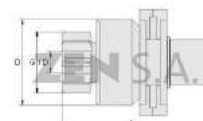
|      |    |       |      |    |       |      |  |         |
|------|----|-------|------|----|-------|------|--|---------|
| 0054 | 9  | 25.8  | 77   | 3  | 12    | 46.6 |  | Horário |
| 0102 | 10 | 40    | 95   | 3  | 15    | 60   |  | Horário |
| 0441 | 9  | 34.8  | 95   | 3  | 15    | 60   |  | Horário |
| 0459 | 10 | 27.5  | 80   | 3  | 14    | 60   |  | Horário |
| 0492 | 10 | 32    | 95   | 3  | 15    | 60   |  | Horário |
| 0720 | 9  | 29.64 | 80   | 3  | 14    | 60   |  | Horário |
| 0771 | 10 | 27.5  | 67.5 | 3  | 14    | 60   |  | Horário |
| 0772 | 9  | 34.8  | 75.5 | 3  | 15    | 60   |  | Horário |
| 0826 | 10 | 40    | 75.5 | 3  | 15    | 60   |  | Horário |
| 0868 | 10 | 27.5  | 80   | 3  | 14    | 60   |  | Horário |
| 1615 | 10 | 39.5  | 68   | 10 | 12.06 | 60   |  | Horário |



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|------|----|------|----|----|----|----|---|---------|
| 0438 | 9  | 34.8 | 91 | 10 | 15 | 60 | 3 | Horário |
| 0439 | 10 | 40   | 91 | 10 | 15 | 60 | 3 | Horário |
| 0603 | 9  | 34.8 | 91 | 10 | 15 | 60 | 3 | Horário |
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|------|----|-------|------|---|----|------|--|---------|
| 0049 | 12 | 37.6  | 75.5 | 6 | 12 | 46.5 |  | Horário |
| 0495 | 10 | 33    | 75.5 | 6 | 12 | 46.5 |  | Horário |
| 0609 | 9  | 29.64 | 74.5 | 6 | 12 | 46.5 |  | Horário |
|      |    |       |      |   |    |      |  |         |
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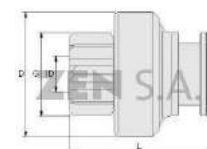


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

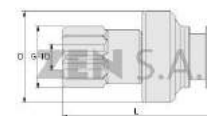
|      |    |      |      |    |      |      |     |         |
|------|----|------|------|----|------|------|-----|---------|
| 0786 | 9  | 25.8 | 64   | 6  | 11.5 | 46.5 | 4.5 | Horário |
| 0878 | 11 | 29.5 | 52.5 | 10 | 12   | 46.5 |     | Horário |
| 0969 | 9  | 29   | 52.5 | 10 | 12   | 46.5 |     | Horário |
| 1206 | 9  | 25.8 | 64   | 6  | 11.5 | 46.5 | 4.5 | Horário |
| 1227 | 9  | 25.8 | 64   | 6  | 11.5 | 46.5 | 4.5 | Horário |
|      |    |      |      |    |      |      |     |         |
|      |    |      |      |    |      |      |     |         |
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|      |    |      |      |    |       |      |  |              |
|------|----|------|------|----|-------|------|--|--------------|
| 0064 | 10 | 40   | 70   | 3  | 17    | 60   |  | Horário      |
| 0067 | 10 | 40   | 73   | 3  | 17    | 60   |  | Horário      |
| 0096 | 10 | 40   | 70   | 12 | 17    | 60   |  | Horário      |
| 0134 | 13 | 46   | 73   | 12 | 17    | 60   |  | Horário      |
| 0150 | 10 | 40   | 73   | 12 | 17    | 60   |  | Horário      |
| 0322 | 10 | 40   | 70   | 3  | 17    | 60   |  | Horário      |
| 0398 | 13 | 46   | 70   | 12 | 17    | 60   |  | Horário      |
| 0411 | 11 | 39.5 | 73   | 12 | 17    | 60   |  | Horário      |
| 0449 | 9  | 36.5 | 73   | 12 | 14.3  | 60   |  | Horário      |
| 0480 | 10 | 40   | 70   | 12 | 17.03 | 60   |  | Horário      |
| 0507 | 11 | 39.5 | 73   | 3  | 17    | 60   |  | Horário      |
| 0541 | 13 | 46   | 70   | 12 | 17    | 60   |  | Horário      |
| 0594 | 9  | 35.5 | 73   | 12 | 14.3  | 60   |  | Horário      |
| 0615 | 11 | 39.5 | 73   | 3  | 17    | 60   |  | Anti-horário |
| 1516 | 10 | 32.1 | 90.5 | 12 | 14.26 | 60   |  | Horário      |
| 1707 | 10 | 39.5 | 89.6 | 12 | 14.26 | 60.4 |  | Horário      |
| 1731 | 9  | 36.5 | 89   | 12 | 17.03 | 60.5 |  | Horário      |
| 1854 | 10 | 39.5 | 89.6 | 10 | 14.26 | 60.4 |  | Horário      |



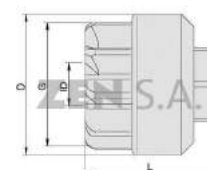
|      |    |    |      |    |       |    |  |         |
|------|----|----|------|----|-------|----|--|---------|
| 0286 | 10 | 40 | 100  | 12 | 17    | 60 |  | Horário |
| 0485 | 11 | 41 | 100  | 12 | 17    | 60 |  | Horário |
| 0486 | 10 | 40 | 100  | 12 | 17.03 | 60 |  | Horário |
| 0506 | 10 | 40 | 100  | 3  | 17    | 60 |  | Horário |
| 0557 | 11 | 41 | 100  | 12 | 17.03 | 60 |  | Horário |
| 0591 | 10 | 32 | 100  | 12 | 14.3  | 60 |  | Horário |
| 1502 | 11 | 41 | 95.5 | 12 | 14.26 | 60 |  | Horário |
|      |    |    |      |    |       |    |  |         |
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|------|----|------|-------|----|----|----|--|---------|
| 0434 | 10 | 40   | 102   | 4  | 17 | 60 |  | Horário |
| 0607 | 12 | 46.3 | 102   | 4  | 17 | 60 |  | Horário |
| 0813 | 10 | 40   | 108.5 | 4  | 17 | 60 |  | Horário |
| 0948 | 10 | 40   | 104   | 18 | 17 | 60 |  | Horário |
|      |    |      |       |    |    |    |  |         |
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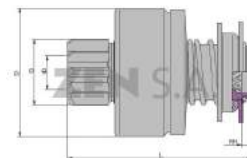


|      |    |      |      |   |       |      |  |              |
|------|----|------|------|---|-------|------|--|--------------|
| 1656 | 9  | 36.3 | 37.5 | 6 | 13.1  | 39.5 |  | Anti-horário |
| 1668 | 9  | 22   | 36.8 | 6 | 9.7   | 40.7 |  | Anti-horário |
| 1669 | 8  | 27   | 36.8 | 6 | 12.2  | 40.7 |  | Anti-horário |
| 1670 | 9  | 29.3 | 37.5 | 6 | 12.2  | 39.5 |  | Anti-horário |
| 1673 | 10 | 32.1 | 37.5 | 6 | 13.05 | 39.5 |  | Anti-horário |
|      |    |      |      |   |       |      |  |              |
|      |    |      |      |   |       |      |  |              |
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|      |    |      |      |   |       |      |  |              |
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| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

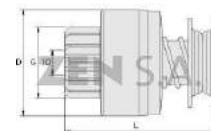
|      |    |      |      |    |       |    |     |         |
|------|----|------|------|----|-------|----|-----|---------|
| 0670 | 13 | 40   | 100  | 10 | 17    | 60 |     | Horário |
| 0721 | 10 | 40   | 85.5 | 12 | 14.01 | 60 | 4.5 | Horário |
| 0722 | 10 | 32   | 85.5 | 12 | 14    | 60 | 4.5 | Horário |
| 0723 | 12 | 46.3 | 85.5 | 12 | 14    | 60 | 4.5 | Horário |
| 0894 | 11 | 40.6 | 84   | 12 | 15    | 60 | 4.5 | Horário |
| 0985 | 9  | 36.5 | 85.5 | 12 | 14    | 60 | 4.5 | Horário |
| 1112 | 9  | 36.5 | 85.5 | 12 | 14    | 60 | 4.5 | Horário |
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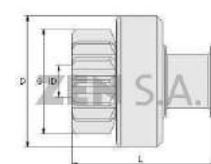
|      |    |    |     |    |    |    |  |         |
|------|----|----|-----|----|----|----|--|---------|
| 0669 | 13 | 40 | 109 | 10 | 17 | 60 |  | Horário |
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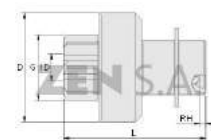
|      |    |       |      |   |       |    |  |         |
|------|----|-------|------|---|-------|----|--|---------|
| 0566 | 12 | 46.3  | 96   | 3 | 14.3  | 60 |  | Horário |
| 0567 | 9  | 29.64 | 96   | 3 | 14.3  | 60 |  | Horário |
| 0568 | 10 | 40    | 96   | 3 | 14.26 | 60 |  | Horário |
| 0624 | 12 | 46.3  | 98.5 | 3 | 14.3  | 60 |  | Horário |
| 0625 | 10 | 39.5  | 98.5 | 3 | 14.3  | 60 |  | Horário |
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|------|----|-------|------|----|-------|------|--|---------|
| 0991 | 9  | 35.5  | 61   | 10 | 12    | 60   |  | Horário |
| 1090 | 10 | 32.1  | 80   | 10 | 14    | 60   |  | Horário |
| 1091 | 10 | 37.8  | 80   | 10 | 14    | 60   |  | Horário |
| 1092 | 10 | 37.8  | 80.5 | 6  | 15    | 60   |  | Horário |
| 1098 | 11 | 40    | 75   | 16 | 17.03 | 60   |  | Horário |
| 1523 | 12 | 46.3  | 78.5 | 6  | 15    | 60   |  | Horário |
| 1595 | 10 | 40    | 80   | 6  | 15    | 60   |  | Horário |
| 1596 | 9  | 34.8  | 80   | 10 | 14.01 | 60   |  | Horário |
| 1602 | 10 | 40    | 60.5 | 10 | 14.06 | 60   |  | Horário |
| 1603 | 12 | 46.3  | 76   | 6  | 15    | 60   |  | Horário |
| 1604 | 10 | 32    | 77   | 6  | 15    | 60   |  | Horário |
| 1622 | 10 | 40    | 74   | 10 | 14.1  | 60   |  | Horário |
| 1623 | 10 | 32.1  | 77.5 | 10 | 14.01 | 60   |  | Horário |
| 1635 | 9  | 37.18 | 60.9 | 10 | 12.06 | 60   |  | Horário |
| 1637 | 10 | 40    | 80   | 10 | 14.01 | 60.4 |  | Horário |
| 1648 | 12 | 46.3  | 80.5 | 6  | 15    | 60   |  | Horário |
| 1684 | 10 | 32.6  | 80   | 10 | 14.01 | 60.5 |  | Horário |
| 1719 | 10 | 40    | 74.9 | 6  | 15    | 59.5 |  | Horário |
| 1726 | 11 | 41    | 80.4 | 6  | 15    | 59.5 |  | Horário |
| 1729 | 11 | 39.67 | 80   | 10 | 14.01 | 60.5 |  | Horário |
| 1733 | 11 | 39.67 | 74   | 10 | 14.01 | 60.5 |  | Horário |
| 1881 | 12 | 37.18 | 80.4 | 6  | 15    | 60   |  | Horário |

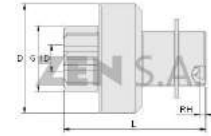


|      |    |       |      |    |       |      |     |              |
|------|----|-------|------|----|-------|------|-----|--------------|
| 0184 | 9  | 29.64 | 64   | 10 | 12.51 | 46.6 | 7   | Horário      |
| 0248 | 9  | 25.8  | 59.5 | 12 | 12    | 46.5 |     | Horário      |
| 0285 | 9  | 25.8  | 60   | 9  | 12    | 46.5 |     | Anti-horário |
| 0450 | 8  | 28.2  | 55.5 | 8  | 12    | 46.5 |     | Horário      |
| 0499 | 8  | 28    | 60   | 10 | 12.51 | 46.5 | 2.5 | Horário      |
| 0519 | 8  | 28.2  | 70.5 | 8  | 12    | 46.5 |     | Anti-horário |
| 0545 | 8  | 28.2  | 64   | 10 | 12.6  | 46.6 | 7   | Horário      |
| 0571 | 10 | 27.64 | 61.5 | 9  | 12    | 46.5 |     | Horário      |

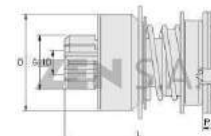


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diámetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Piñon-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|      |    |       |       |    |       |      |     |              |
|------|----|-------|-------|----|-------|------|-----|--------------|
| 0576 | 8  | 28.2  | 60    | 10 | 12.5  | 46.5 | 2.5 | Horário      |
| 0584 | 9  | 29.64 | 55.5  | 8  | 12    | 46.5 |     | Horário      |
| 0636 | 8  | 28.2  | 56    | 8  | 12    | 46.5 |     | Anti-horário |
| 0686 | 8  | 28.2  | 82    | 10 | 12.5  | 46.5 | 2.5 | Anti-horário |
| 0779 | 9  | 25.8  | 64    | 6  | 11.5  | 46.5 | 3.5 | Horário      |
| 0808 | 8  | 28.2  | 53.5  | 5  | 11    | 43.5 | 2   | Horário      |
| 0830 | 8  | 28.2  | 53.5  | 5  | 11    | 41.5 | 2   | Horário      |
| 0832 | 9  | 29.64 | 77    | 10 | 12.5  | 46.5 | 2.5 | Horário      |
| 0836 | 9  | 25.8  | 55    | 8  | 12    | 46.5 |     | Horário      |
| 0853 | 8  | 28.2  | 70.5  | 8  | 12    | 46.5 |     | Horário      |
| 0940 | 8  | 24.7  | 70.5  | 8  | 12    | 45.5 |     | Anti-horário |
| 0975 | 23 | 54.4  | 51    | 10 | 12    | 48.7 |     | Horário      |
| 0999 | 8  | 23.6  | 64    | 6  | 11.5  | 46.5 | 3.5 | Horário      |
| 1054 | 8  | 28    | 56    | 8  | 12    | 46.5 |     | Anti-horário |
| 1113 | 9  | 29    | 50.5  | 10 | 12    | 48.7 |     | Horário      |
| 1169 | 11 | 29.5  | 51    | 10 | 12    | 48.7 |     | Horário      |
| 1484 | 9  | 25.8  | 60    | 6  | 11.5  | 46.5 | 3   | Horário      |
| 1496 | 9  | 25.8  | 84.5  | 12 | 12.06 | 46.5 | 3.5 | Anti-horário |
| 1504 | 9  | 25.8  | 52    | 12 | 12.1  | 46.5 |     | Horário      |
| 1509 | 8  | 28.2  | 52    | 12 | 12.1  | 43.5 |     | Horário      |
| 1561 | 9  | 25.4  | 47.5  | 10 | 12    | 46.5 |     | Horário      |
| 1618 | 10 | 32.18 | 45.5  | 10 | 12.06 | 48.7 | 0.5 | Horário      |
| 1715 | 9  | 25.8  | 52    | 12 | 12.06 | 43.5 |     | Horário      |
| 1718 | 11 | 35.4  | 50.5  | 10 | 12.06 | 48.9 |     | Horário      |
| 1725 | 8  | 28    | 61.5  | 10 | 12    | 46.5 | 2.5 | Anti-horário |
| 1727 | 10 | 31.8  | 56    | 8  | 12.06 | 46.5 |     | Horário      |
| 1744 | 11 | 39.67 | 62    | 5  | 12.51 | 46.6 | 1   | Horário      |
| 1752 | 9  | 25.82 | 45.5  | 10 | 12    | 48.9 | 0.5 | Horário      |
| 1756 | 10 | 28.15 | 45.5  | 10 | 12    | 48.9 | 0.5 | Horário      |
| 1758 | 11 | 29.38 | 45    | 8  | 12    | 48.9 | 0.5 | Horário      |
| 1765 | 9  | 29.87 | 45.8  | 10 | 12    | 48.9 | 0.5 | Horário      |
| 1776 | 9  | 28    | 45.15 | 8  | 12    | 48.9 | 0.5 | Horário      |
| 1777 | 10 | 27.94 | 55.8  | 8  | 12    | 45.5 |     | Horário      |
| 1778 | 8  | 28.2  | 55.8  | 8  | 12    | 45.5 |     | Horário      |
| 1797 | 8  | 28.2  | 60    | 12 | 12.06 | 43.5 |     | Anti-horário |
| 1800 | 8  | 28.2  | 48.5  | 6  | 12    | 46.5 | 1.5 | Horário      |
| 1812 | 11 | 29.38 | 45    | 10 | 12    | 48.9 | 0.5 | Horário      |
| 1838 | 10 | 32.18 | 45.5  | 8  | 12.06 | 48.7 | 0.5 | Horário      |
| 1839 | 8  | 28.2  | 51.5  | 10 | 12    | 46.5 |     | Horário      |
| 1840 | 9  | 36.3  | 60.9  | 12 | 12.1  | 46.6 |     | Horário      |
| 1857 | 9  | 35.5  | 50.8  | 10 | 12.06 | 46.5 |     | Horário      |
| 1872 | 11 | 35.4  | 46.9  | 8  | 12.06 | 48.7 |     | Horário      |
| 1873 | 8  | 28.2  | 60.1  | 10 | 12    | 44.7 |     | Anti-horário |
| 1880 | 10 | 31.8  | 64    | 6  | 12    | 43.5 | 1.5 | Anti-horário |
| 1884 | 11 | 39    | 50.5  | 10 | 12    | 49   |     | Horário      |

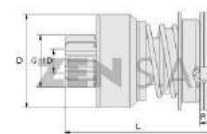


|      |   |       |      |    |       |      |   |              |
|------|---|-------|------|----|-------|------|---|--------------|
| 0119 | 9 | 29.64 | 66.5 | 10 | 12.51 | 46.5 | 7 | Anti-horário |
| 0120 | 9 | 25.8  | 70.8 | 6  | 11.5  | 46.5 | 7 | Horário      |
| 0131 | 9 | 25.8  | 66.5 | 10 | 11    | 46.5 | 7 | Anti-horário |
|      |   |       |      |    |       |      |   |              |
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| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|      |    |       |      |    |    |      |   |         |
|------|----|-------|------|----|----|------|---|---------|
| 0080 | 9  | 25.8  | 68.5 | 10 | 12 | 46.3 | 7 | Horário |
| 0223 | 9  | 29.64 | 69   | 10 | 12 | 46.5 | 7 | Horário |
| 0362 | 10 | 26.82 | 68.5 | 10 | 12 | 46.5 | 7 | Horário |
|      |    |       |      |    |    |      |   |         |
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|------|---|-------|------|----|-------|------|------|--------------|
| 0140 | 9 | 29.64 | 82   | 10 | 12.5  | 46.6 | 2.5  | Horário      |
| 0327 | 9 | 29.64 | 86   | 10 | 12.5  | 46.6 | 7    | Horário      |
| 0339 | 9 | 25.8  | 82   | 10 | 12.5  | 46.5 | 2.5  | Horário      |
| 0341 | 9 | 29.64 | 86   | 10 | 12.5  | 46.5 | 7    | Anti-horário |
| 0342 | 8 | 27.6  | 86   | 10 | 12.5  | 46.5 | 7    | Anti-horário |
| 0343 | 9 | 34.8  | 82   | 10 | 12.5  | 46.5 | 2.5  | Horário      |
| 0353 | 9 | 29.64 | 82   | 10 | 12.5  | 46.5 |      | Horário      |
| 0498 | 8 | 28.2  | 82   | 10 | 12.5  | 46.5 | 2.5  | Horário      |
| 0517 | 8 | 28    | 82   | 10 | 12.51 | 46.5 | 2.5  | Anti-horário |
| 0765 | 8 | 24.7  | 82   | 10 | 12.51 | 46.5 | 2.5  | Anti-horário |
| 0906 | 9 | 33    | 73.5 | 6  | 12    | 46.5 |      | Horário      |
| 0951 | 8 | 28.2  | 75   | 5  | 11    | 41.5 | 2.12 | Anti-horário |
| 1042 | 9 | 25.8  | 75.5 | 6  | 12.11 | 46.2 | 2.5  | Horário      |
| 1759 | 9 | 29.6  | 75   | 5  | 11    | 41.5 | 2    | Horário      |
| 1895 | 8 | 24.7  | 75   | 5  | 11    | 41.5 | 12.5 | Anti-horário |



|      |    |       |       |    |       |      |  |              |
|------|----|-------|-------|----|-------|------|--|--------------|
| 0097 | 12 | 46.3  | 120.1 | 19 | 15.9  | 58.4 |  | Horário      |
| 0110 | 11 | 56.7  | 120.1 | 19 | 15.9  | 58.4 |  | Horário      |
| 0117 | 12 | 46.3  | 120.1 | 19 | 19    | 58.4 |  | Horário      |
| 0182 | 13 | 49.7  | 120.1 | 19 | 15.9  | 58.4 |  | Horário      |
| 0188 | 11 | 56.7  | 120.1 | 19 | 19    | 58.4 |  | Horário      |
| 0622 | 12 | 46.3  | 118   | 19 | 15.9  | 58.9 |  | Horário      |
| 0626 | 11 | 56.7  | 120.1 | 19 | 15.9  | 58.4 |  | Anti-horário |
| 0776 | 12 | 46.3  | 118   | 19 | 19    | 58.4 |  | Horário      |
| 0778 | 11 | 56.7  | 118   | 19 | 19    | 58.4 |  | Horário      |
| 0879 | 13 | 49.7  | 118   | 19 | 19    | 58.4 |  | Horário      |
| 0914 | 12 | 46.3  | 120.1 | 19 | 15.9  | 58.4 |  | Anti-horário |
| 0920 | 11 | 42    | 118   | 19 | 15.9  | 58.4 |  | Horário      |
| 0930 | 11 | 56.7  | 118   | 19 | 19    | 58.4 |  | Anti-horário |
| 1013 | 10 | 39.67 | 102   | 19 | 15.9  | 58.4 |  | Horário      |
| 1190 | 10 | 40.4  | 118   | 19 | 20.7  | 58.4 |  | Horário      |
| 1204 | 11 | 56.7  | 118   | 19 | 19    | 58.4 |  | Horário      |
| 1205 | 12 | 46.3  | 102   | 19 | 15.9  | 58.4 |  | Horário      |
| 1210 | 11 | 56.7  | 102   | 19 | 15.9  | 58.4 |  | Horário      |
| 1521 | 11 | 41.5  | 102   | 19 | 15.9  | 58.4 |  | Horário      |
| 1573 | 12 | 43.7  | 118   | 19 | 15.9  | 58.4 |  | Horário      |
| 1866 | 12 | 46.3  | 118   | 19 | 19.08 | 58.4 |  | Anti-horário |

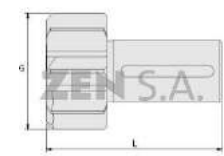


|      |    |      |     |    |      |      |  |         |
|------|----|------|-----|----|------|------|--|---------|
| 0555 | 12 | 46.3 | 170 | 19 | 15.9 | 58.4 |  | Horário |
| 0556 | 11 | 56.7 | 170 | 19 | 15.9 | 58.4 |  | Horário |
|      |    |      |     |    |      |      |  |         |
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| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diámetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diámetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diámetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

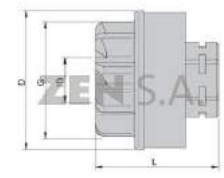
|      |    |    |    |  |  |  |         |
|------|----|----|----|--|--|--|---------|
| 0290 | 11 | 41 | 75 |  |  |  | Horário |
|      |    |    |    |  |  |  |         |
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|------|--|--|-----|--|--|--|--|
| 0133 |  |  | 166 |  |  |  |  |
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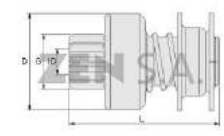
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|------|----|------|----|---|------|------|--------------|
| 1671 | 10 | 32.1 | 38 | 6 | 12.2 | 43.1 | Anti-horário |
| 1672 | 9  | 36.3 | 38 | 6 | 12.2 | 43.1 | Anti-horário |
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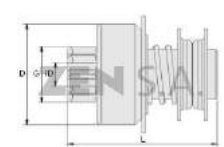
|      |    |       |      |    |       |      |              |
|------|----|-------|------|----|-------|------|--------------|
| 1632 | 10 | 27.94 | 80.5 | 16 | 14.24 | 46.5 | Anti-horário |
| 1685 | 10 | 27.94 | 88   | 16 | 11    | 45.8 | Anti-horário |
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|------|---|------|----|----|----|------|---------|
| 0243 | 9 | 25.8 | 66 | 12 | 12 | 45.5 | Horário |
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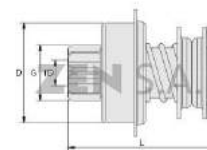
|      |   |      |    |   |    |      |              |
|------|---|------|----|---|----|------|--------------|
| 0328 | 9 | 25.8 | 64 | 6 | 11 | 46.5 | Anti-horário |
|      |   |      |    |   |    |      |              |
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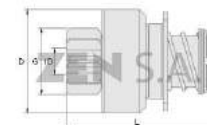


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diámetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

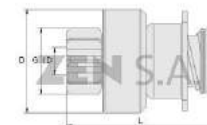
|      |   |       |    |    |      |      |         |
|------|---|-------|----|----|------|------|---------|
| 0329 | 9 | 25.8  | 64 | 6  | 12   | 46.5 | Horário |
| 0348 | 9 | 25.8  | 65 | 6  | 12   | 46.5 | Horário |
| 0349 | 9 | 29.64 | 62 | 10 | 12.5 | 46.5 | Horário |
|      |   |       |    |    |      |      |         |
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|------|----|-------|----|----|------|------|---------|
| 0351 | 9  | 29.64 | 62 | 10 | 12.5 | 46.5 | Horário |
| 0644 | 11 | 34.8  | 62 | 10 | 12.5 | 46.5 | Horário |
| 0691 | 15 | 44.5  | 62 | 10 | 12.5 | 54.5 | Horário |
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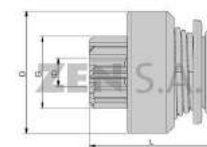
|      |   |    |    |    |      |      |         |
|------|---|----|----|----|------|------|---------|
| 0382 | 8 | 28 | 62 | 10 | 12.5 | 46.5 | Horário |
|      |   |    |    |    |      |      |         |
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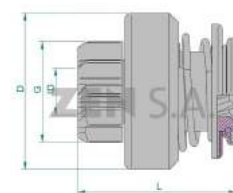
|      |   |      |      |    |      |      |         |
|------|---|------|------|----|------|------|---------|
| 0429 | 9 | 30   | 76.5 | 10 | 12.5 | 46.5 | Horário |
| 0537 | 9 | 25.8 | 76   | 10 | 12   | 46.5 | Horário |
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|------|----|-------|-------|----|----|------|---------|
| 1545 | 8  | 27.2  | 48    | 10 | 11 | 47.4 | Horário |
| 1576 | 10 | 27.92 | 48    | 16 | 11 | 47.4 | Horário |
| 1597 | 10 | 26.82 | 47.95 | 16 | 11 | 47.4 | Horário |
| 1619 | 9  | 25.8  | 48    | 16 | 11 | 46.5 | Horário |
| 1641 | 9  | 25.8  | 48    | 10 | 11 | 45.7 | Horário |
| 1740 | 12 | 31.8  | 47.95 | 10 | 11 | 48.7 | Horário |
| 1757 | 11 | 30    | 48    | 10 | 11 | 47.4 | Horário |
|      |    |       |       |    |    |      |         |
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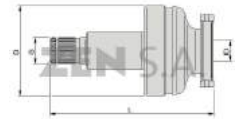


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|------|---|-------|------|----|----|------|---------|
| 1666 | 9 | 25.8  | 48.9 | 11 | 10 | 46.6 | Horário |
| 1674 | 8 | 23.5  | 48.9 | 11 | 10 | 46.6 | Horário |
| 1720 | 9 | 29.64 | 47.9 | 10 | 11 | 45.8 | Horário |
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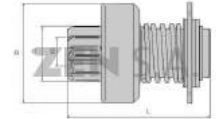


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diámetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

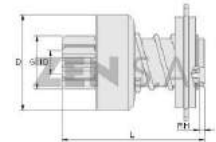
|      |    |      |     |   |      |  |         |
|------|----|------|-----|---|------|--|---------|
| 1658 | 19 | 20.8 | 128 | 7 | 72.2 |  | Horário |
| 1806 | 19 | 20.8 | 130 | 7 | 72.2 |  | Horário |
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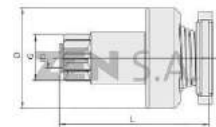
|      |   |      |      |    |    |      |   |         |
|------|---|------|------|----|----|------|---|---------|
| 0297 | 9 | 25.8 | 66.5 | 12 | 12 | 46.5 | 2 | Horário |
|      |   |      |      |    |    |      |   |         |
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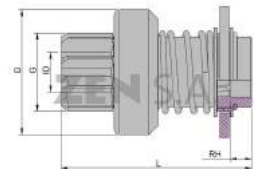
|      |    |      |      |    |      |      |     |         |
|------|----|------|------|----|------|------|-----|---------|
| 0394 | 11 | 29.5 | 65.5 | 10 | 11.5 | 46.5 | 2.5 | Horário |
| 0395 | 9  | 25.8 | 65.5 | 10 | 12   | 46.5 | 2.5 | Horário |
|      |    |      |      |    |      |      |     |         |
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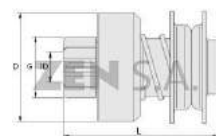
|      |    |       |       |    |    |      |  |              |
|------|----|-------|-------|----|----|------|--|--------------|
| 0932 | 9  | 25.8  | 80.5  | 16 | 11 | 54.5 |  | Anti-horário |
| 0937 | 10 | 27.94 | 80.5  | 16 | 11 | 54.5 |  | Anti-horário |
| 0972 | 9  | 25.7  | 90    | 16 | 11 | 54.5 |  | Anti-horário |
| 1223 | 9  | 25.8  | 80.5  | 16 | 11 | 46.5 |  | Horário      |
| 1480 | 9  | 25.7  | 80.5  | 16 | 11 | 54.5 |  | Horário      |
| 1485 | 10 | 27.94 | 70    | 16 | 12 | 50.5 |  | Horário      |
| 1655 | 10 | 27.94 | 105.5 | 16 | 12 | 54.5 |  | Anti-horário |
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|------|---|------|------|---|-------|------|---|--------------|
| 0451 | 9 | 25.8 | 62   | 6 | 11.5  | 41.5 | 7 | Horário      |
| 0453 | 8 | 27   | 60.5 | 6 | 12    | 41.5 |   | Anti-horário |
| 0910 | 8 | 32.4 | 77.5 | 6 | 14.26 | 60   | 4 | Horário      |
|      |   |      |      |   |       |      |   |              |
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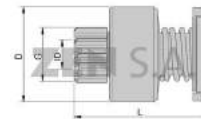


|      |   |      |      |    |    |      |  |         |
|------|---|------|------|----|----|------|--|---------|
| 0404 | 9 | 25.8 | 61.5 | 11 | 13 | 46.5 |  | Horário |
|      |   |      |      |    |    |      |  |         |
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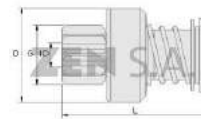


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

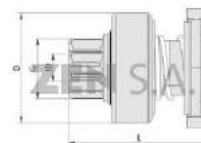
|      |    |      |    |    |       |      |         |
|------|----|------|----|----|-------|------|---------|
| 1026 | 10 | 34.5 | 75 | 10 | 14.26 | 60   | Horário |
| 1027 | 10 | 32   | 75 | 10 | 14.26 | 54.5 | Horário |
| 1038 | 9  | 34.8 | 83 | 10 | 14.3  | 60   | Horário |
| 1633 | 11 | 41   | 74 | 10 | 14.26 | 60   | Horário |
|      |    |      |    |    |       |      |         |
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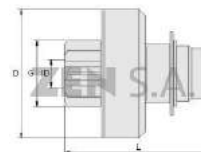
|      |    |      |      |    |       |      |         |
|------|----|------|------|----|-------|------|---------|
| 0412 | 9  | 29.3 | 75   | 12 | 12.06 | 46.5 | Horário |
| 0414 | 10 | 32   | 75   | 12 | 12.06 | 46.5 | Horário |
| 1188 | 9  | 29.3 | 68.5 | 12 | 12.1  | 46.5 | Horário |
|      |    |      |      |    |       |      |         |
|      |    |      |      |    |       |      |         |
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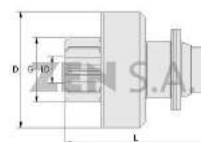
|      |    |       |      |    |    |      |              |
|------|----|-------|------|----|----|------|--------------|
| 0641 | 9  | 25.9  | 58.5 | 10 | 11 | 46.5 | Horário      |
| 0745 | 9  | 25.8  | 53.5 | 10 | 12 | 46.5 | Horário      |
| 0797 | 9  | 25.8  | 55.5 | 10 | 12 | 46.5 | Horário      |
| 0837 | 9  | 25.8  | 58.5 | 10 | 12 | 46.5 | Horário      |
| 0846 | 11 | 29.5  | 58.5 | 10 | 12 | 46.5 | Horário      |
| 0855 | 11 | 29.5  | 55.5 | 10 | 12 | 46.5 | Horário      |
| 0919 | 9  | 25.8  | 58.5 | 10 | 12 | 46.5 | Horário      |
| 0942 | 9  | 25.8  | 62   | 10 | 12 | 46.5 | Horário      |
| 0943 | 9  | 38.4  | 71   | 8  | 12 | 46.5 | Anti-horário |
| 0989 | 9  | 25.8  | 59.5 | 10 | 12 | 46.5 | Anti-horário |
| 1486 | 9  | 29.64 | 59   | 10 | 12 | 46.5 | Horário      |



|      |    |       |      |    |      |      |         |
|------|----|-------|------|----|------|------|---------|
| 0646 | 10 | 27.94 | 61.5 | 9  | 12   | 54.5 | Horário |
| 0656 | 12 | 31.8  | 61.5 | 9  | 12   | 54.5 | Horário |
| 0657 | 9  | 37.1  | 61.5 | 9  | 12   | 54.5 | Horário |
| 0747 | 10 | 27.94 | 51.5 | 9  | 12   | 46.5 | Horário |
| 0775 | 9  | 25.8  | 51.5 | 9  | 12   | 46.5 | Horário |
| 0908 | 8  | 28.2  | 48   | 9  | 12.1 | 46.5 | Horário |
| 0916 | 9  | 36.5  | 61   | 10 | 12   | 60   | Horário |
| 0917 | 9  | 29.64 | 48   | 9  | 12.1 | 46.5 | Horário |
| 0918 | 8  | 27.6  | 48   | 9  | 12.1 | 46.5 | Horário |
| 0936 | 11 | 29.5  | 61.5 | 9  | 12   | 46.5 | Horário |
| 0945 | 9  | 25.8  | 48   | 9  | 12.1 | 46.5 | Horário |
| 0961 | 11 | 29.5  | 61.5 | 9  | 12   | 54.5 | Horário |
| 0983 | 10 | 27.5  | 61   | 10 | 12   | 60   | Horário |
| 1023 | 11 | 29.38 | 54.5 | 9  | 12   | 54.5 | Horário |
| 1074 | 10 | 27.94 | 54.5 | 9  | 12   | 54.5 | Horário |
| 1162 | 10 | 32    | 61   | 9  | 12   | 54.5 | Horário |
| 1458 | 11 | 30.04 | 54.5 | 10 | 12   | 54.5 | Horário |
| 1607 | 10 | 32.18 | 54.5 | 9  | 12   | 54.5 | Horário |
| 1692 | 10 | 32    | 55.2 | 9  | 12   | 54.5 | Horário |
| 1705 | 10 | 27.5  | 69.3 | 9  | 12   | 54.6 | Horário |

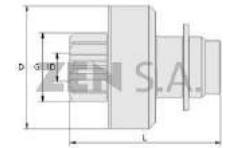


|      |    |       |      |    |    |      |         |
|------|----|-------|------|----|----|------|---------|
| 0287 | 9  | 25.8  | 55   | 9  | 12 | 46.5 | Horário |
| 0570 | 11 | 29.5  | 59   | 9  | 12 | 46.5 | Horário |
| 0787 | 9  | 25.82 | 51.5 | 10 | 12 | 46.5 | Horário |
| 1209 | 10 | 27.94 | 51.5 | 10 | 12 | 46.5 | Horário |
| 1822 | 11 | 29.3  | 51   | 10 | 12 | 46.5 | Horário |
|      |    |       |      |    |    |      |         |
|      |    |       |      |    |    |      |         |
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|      |    |       |      |    |    |      |         |

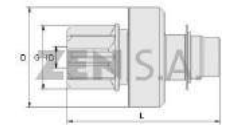


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

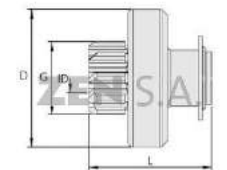
|      |    |      |    |   |    |      |  |         |
|------|----|------|----|---|----|------|--|---------|
| 0935 | 11 | 29.5 | 55 | 9 | 12 | 46.5 |  | Horário |
| 1187 | 9  | 25.8 | 55 | 9 | 12 | 46.5 |  | Horário |
|      |    |      |    |   |    |      |  |         |
|      |    |      |    |   |    |      |  |         |
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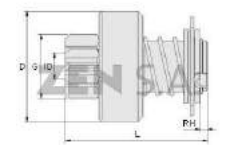
|      |    |      |      |   |    |      |  |         |
|------|----|------|------|---|----|------|--|---------|
| 0647 | 11 | 34.4 | 76.5 | 9 | 12 | 54.5 |  | Horário |
|      |    |      |      |   |    |      |  |         |
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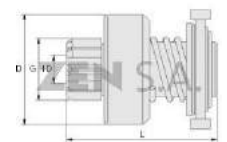
|      |    |       |       |    |       |      |     |         |
|------|----|-------|-------|----|-------|------|-----|---------|
| 1533 | 9  | 24.5  | 41.15 | 10 | 11    | 46   | 2.2 | Horário |
| 1686 | 9  | 24.5  | 41.15 | 4  | 10.12 | 46.3 | 2.2 | Horário |
| 1735 | 8  | 23.92 | 41.2  | 4  | 10.12 | 46.8 | 2.2 | Horário |
| 1755 | 9  | 25.82 | 41.15 | 4  | 10.1  | 46.3 | 3   | Horário |
| 1763 | 9  | 25.82 | 41.15 | 5  | 11.02 | 46.3 | 3   | Horário |
| 1791 | 10 | 28.15 | 44.2  | 4  | 10.12 | 46.4 | 3   | Horário |
| 1825 | 8  | 27.6  | 41.15 | 4  | 10.12 | 46.3 | 3   | Horário |
| 1848 | 9  | 25.8  | 55.1  | 10 | 12    | 46.5 |     | Horário |
|      |    |       |       |    |       |      |     |         |
|      |    |       |       |    |       |      |     |         |
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|      |    |      |       |    |       |      |   |         |
|------|----|------|-------|----|-------|------|---|---------|
| 0407 | 9  | 34.8 | 77.5  | 6  | 14.3  | 60   | 4 | Horário |
| 0601 | 9  | 34.8 | 77.5  | 6  | 14.3  | 60   |   | Horário |
| 1161 | 11 | 30   | 77.5  | 6  | 14.3  | 60   |   | Horário |
| 1678 | 10 | 40   | 81.8  | 10 | 14.26 | 60.4 |   | Horário |
| 1698 | 11 | 41   | 81.8  | 10 | 14.26 | 60.4 |   | Horário |
| 1699 | 9  | 34.8 | 75.9  | 14 | 14.26 | 60.4 |   | Horário |
| 1700 | 10 | 39.3 | 75.6  | 14 | 14.26 | 60.4 |   | Horário |
| 1701 | 10 | 40   | 85.6  | 14 | 14.26 | 60.4 |   | Horário |
| 1709 | 10 | 32   | 75.9  | 14 | 14.26 | 60.4 |   | Horário |
| 1751 | 9  | 34.8 | 82.2  | 6  | 14.15 | 60.4 |   | Horário |
| 1754 | 10 | 31.8 | 115.5 | 14 | 12    | 59.5 |   | Horário |
|      |    |      |       |    |       |      |   |         |
|      |    |      |       |    |       |      |   |         |
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|------|----|-------|----|----|----|------|--|--------------|
| 0406 | 9  | 25.8  | 64 | 10 | 11 | 46.5 |  | Anti-horário |
| 0420 | 9  | 25.8  | 64 | 10 | 12 | 46.5 |  | Horário      |
| 0633 | 10 | 26.82 | 64 | 10 | 12 | 46.5 |  | Horário      |
|      |    |       |    |    |    |      |  |              |
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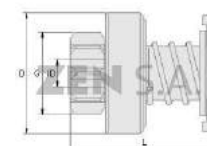


| T  | G  | L                                   | SPL  | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|--|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrials<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|      |   |      |    |    |    |      |              |
|------|---|------|----|----|----|------|--------------|
| 0428 | 9 | 25.8 | 85 | 10 | 12 | 46.5 | Anti-horário |
|      |   |      |    |    |    |      |              |
|      |   |      |    |    |    |      |              |
|      |   |      |    |    |    |      |              |
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|      |   |      |    |    |    |      |              |
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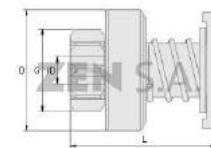


|      |    |       |      |    |       |      |              |
|------|----|-------|------|----|-------|------|--------------|
| 0852 | 8  | 27.2  | 52   | 10 | 11    | 46.5 | Horário      |
| 0861 | 9  | 36.8  | 62   | 10 | 12    | 54.5 | Horário      |
| 0925 | 9  | 25.8  | 49.5 | 10 | 12    | 46.5 | Horário      |
| 0929 | 11 | 35.8  | 62   | 10 | 12    | 54.5 | Horário      |
| 0938 | 10 | 26.82 | 48.5 | 10 | 12    | 46.5 | Horário      |
| 0976 | 9  | 25.8  | 47   | 10 | 12    | 46.5 | Horário      |
| 0997 | 9  | 29.64 | 49   | 10 | 12    | 46.5 | Horário      |
| 0998 | 9  | 29.64 | 47   | 10 | 12    | 46.5 | Horário      |
| 1022 | 9  | 35.5  | 57.5 | 16 | 12    | 54.5 | Horário      |
| 1030 | 11 | 29.5  | 49.5 | 10 | 12    | 54.5 | Horário      |
| 1031 | 10 | 27.94 | 49   | 10 | 12    | 50.5 | Horário      |
| 1033 | 9  | 29.64 | 49   | 10 | 12    | 54.5 | Horário      |
| 1037 | 10 | 27.94 | 49   | 10 | 12    | 46.5 | Horário      |
| 1057 | 10 | 27.94 | 49   | 10 | 12    | 54.5 | Horário      |
| 1058 | 11 | 29.5  | 49   | 10 | 12    | 50.5 | Horário      |
| 1071 | 10 | 27.5  | 58.5 | 10 | 12    | 52.7 | Horário      |
| 1107 | 10 | 38.8  | 49   | 10 | 12    | 54.5 | Horário      |
| 1109 | 10 | 27.94 | 55   | 10 | 12    | 52.7 | Horário      |
| 1155 | 9  | 34.8  | 49   | 10 | 12    | 50.3 | Horário      |
| 1156 | 21 | 49.7  | 47.1 | 10 | 12    | 54.5 | Horário      |
| 1157 | 9  | 34.8  | 83   | 10 | 14.3  | 60   | Horário      |
| 1158 | 9  | 35.5  | 62   | 16 | 12    | 54.5 | Horário      |
| 1159 | 10 | 40    | 83   | 10 | 14.3  | 60   | Horário      |
| 1160 | 12 | 46.3  | 83   | 10 | 14.3  | 60   | Horário      |
| 1168 | 9  | 36.3  | 49   | 10 | 12    | 54.5 | Horário      |
| 1170 | 10 | 38.8  | 56   | 10 | 12    | 52.7 | Horário      |
| 1172 | 11 | 28.8  | 54   | 10 | 12    | 52.7 | Horário      |
| 1173 | 9  | 35.2  | 58.5 | 10 | 12    | 54.5 | Horário      |
| 1174 | 9  | 35.2  | 58.5 | 10 | 12    | 54.5 | Horário      |
| 1178 | 10 | 37.8  | 84   | 10 | 14.3  | 60   | Horário      |
| 1179 | 11 | 41    | 83   | 10 | 14.3  | 60   | Horário      |
| 1451 | 9  | 29.6  | 49   | 10 | 12    | 46.6 | Anti-horário |
| 1469 | 10 | 27.94 | 49   | 10 | 12    | 46.5 | Horário      |
| 1472 | 11 | 35.8  | 62   | 16 | 12    | 54.5 | Horário      |
| 1474 | 9  | 25.8  | 58.5 | 10 | 12    | 46.5 | Horário      |
| 1478 | 8  | 27.2  | 47   | 10 | 11    | 46.5 | Horário      |
| 1483 | 9  | 34.8  | 62   | 16 | 12    | 54.5 | Horário      |
| 1550 | 9  | 35.5  | 62   | 10 | 12    | 54.5 | Horário      |
| 1562 | 9  | 34.8  | 58.5 | 10 | 12    | 52.7 | Horário      |
| 1624 | 9  | 34.8  | 76   | 10 | 14.26 | 60   | Horário      |
| 1629 | 10 | 27.5  | 57.5 | 16 | 12    | 52.5 | Horário      |
| 1631 | 10 | 33    | 60   | 10 | 12    | 53.5 | Horário      |
| 1638 | 9  | 34.8  | 69.5 | 10 | 12    | 52.7 | Horário      |
| 1642 | 12 | 38.8  | 56   | 10 | 12.06 | 53.5 | Horário      |
| 1643 | 9  | 29.64 | 58   | 16 | 12    | 54.5 | Horário      |
| 1650 | 9  | 36.3  | 55   | 10 | 12    | 54.5 | Horário      |
| 1651 | 9  | 34.8  | 80.5 | 6  | 15    | 60   | Horário      |
| 1675 | 10 | 32.95 | 58.5 | 10 | 12.03 | 52.8 | Horário      |
| 1690 | 10 | 40    | 59.4 | 10 | 12    | 52.9 | Horário      |
| 1691 | 10 | 32    | 69.5 | 10 | 12    | 52.5 | Horário      |
| 1696 | 12 | 31.8  | 51.5 | 10 | 12    | 47.4 | Horário      |
| 1697 | 10 | 32    | 71   | 10 | 12    | 52.7 | Horário      |
| 1708 | 8  | 26.8  | 49   | 10 | 12    | 46.4 | Horário      |
| 1736 | 9  | 34.8  | 59.4 | 10 | 12.03 | 53   | Horário      |
| 1743 | 10 | 39    | 82.9 | 10 | 14.26 | 59.5 | Horário      |

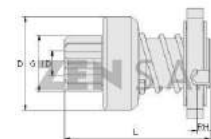


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

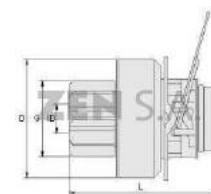
|      |    |       |      |    |       |      |         |
|------|----|-------|------|----|-------|------|---------|
| 1772 | 10 | 39.67 | 76   | 10 | 14.29 | 59.5 | Horário |
| 1786 | 9  | 34.8  | 76   | 10 | 14.26 | 60   | Horário |
| 1790 | 9  | 36.3  | 49.5 | 10 | 12.1  | 50.5 | Horário |
| 1815 | 9  | 36.3  | 53.7 | 10 | 12    | 52.7 | Horário |
| 1845 | 10 | 40    | 49.6 | 10 | 12    | 53.5 | Horário |
| 1874 | 12 | 38.8  | 56.2 | 10 | 12    | 50.9 | Horário |
| 1878 | 11 | 43.5  | 83   | 10 | 14.26 | 60   | Horário |
| 1882 | 9  | 25.8  | 49   | 10 | 12    | 53.5 | Horário |
|      |    |       |      |    |       |      |         |



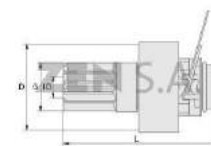
|      |   |      |    |   |    |      |     |         |
|------|---|------|----|---|----|------|-----|---------|
| 0610 | 9 | 25.8 | 68 | 3 | 12 | 43.5 | 6   | Horário |
| 0611 | 9 | 25.8 | 68 | 6 | 12 | 43.5 | 6   | Horário |
| 0612 | 9 | 25.8 | 69 | 3 | 12 | 43.5 |     | Horário |
| 0752 | 9 | 25.8 | 63 | 6 | 12 | 43.5 | 5.5 | Horário |
|      |   |      |    |   |    |      |     |         |
|      |   |      |    |   |    |      |     |         |
|      |   |      |    |   |    |      |     |         |
|      |   |      |    |   |    |      |     |         |



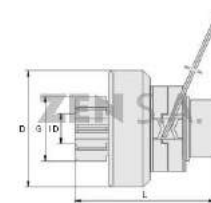
|      |    |       |      |    |       |      |  |              |
|------|----|-------|------|----|-------|------|--|--------------|
| 0467 | 9  | 25.8  | 54.5 | 9  | 12.06 | 46.5 |  | Horário      |
| 0468 | 9  | 25.8  | 51.5 | 9  | 12.06 | 46.5 |  | Horário      |
| 0469 | 10 | 26.82 | 63.5 | 9  | 12    | 46.5 |  | Horário      |
| 0502 | 11 | 29.5  | 60   | 12 | 12.06 | 46.5 |  | Horário      |
| 0740 | 11 | 29.5  | 58.5 | 9  | 12    | 46.5 |  | Horário      |
| 0741 | 9  | 25.8  | 58   | 9  | 12    | 46.5 |  | Horário      |
| 0742 | 9  | 25.8  | 64   | 9  | 12    | 46.5 |  | Horário      |
| 0743 | 11 | 29.5  | 54.5 | 9  | 12.06 | 46.5 |  | Horário      |
| 0753 | 9  | 25.8  | 67.5 | 9  | 12.06 | 46.5 |  | Anti-horário |



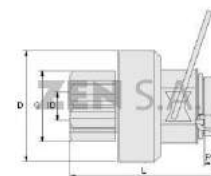
|      |    |       |      |    |       |      |  |              |
|------|----|-------|------|----|-------|------|--|--------------|
| 0762 | 10 | 27.94 | 86.5 | 9  | 12.06 | 46.5 |  | Anti-horário |
| 1547 | 11 | 35.4  | 47   | 10 | 12    | 47.4 |  | Horário      |
|      |    |       |      |    |       |      |  |              |
|      |    |       |      |    |       |      |  |              |
|      |    |       |      |    |       |      |  |              |
|      |    |       |      |    |       |      |  |              |
|      |    |       |      |    |       |      |  |              |



|      |    |       |      |   |       |      |  |              |
|------|----|-------|------|---|-------|------|--|--------------|
| 0574 | 9  | 25.8  | 53   | 9 | 12    | 46.5 |  | Horário      |
| 0820 | 10 | 26.82 | 50.5 | 9 | 12.1  | 46.5 |  | Horário      |
| 0821 | 10 | 26.82 | 44   | 9 | 12.1  | 46.5 |  | Horário      |
| 0822 | 10 | 26.82 | 56.5 | 9 | 12.1  | 46.5 |  | Anti-horário |
| 0823 | 10 | 26.82 | 48   | 9 | 12.1  | 46.5 |  | Horário      |
| 1068 | 9  | 25.8  | 53   | 9 | 12.06 | 46.5 |  | Anti-horário |
|      |    |       |      |   |       |      |  |              |
|      |    |       |      |   |       |      |  |              |

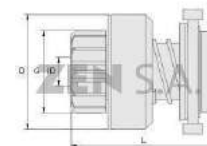


|      |    |       |      |   |       |      |   |              |
|------|----|-------|------|---|-------|------|---|--------------|
| 0863 | 8  | 28.2  | 48   | 9 | 12.1  | 46.5 | 3 | Horário      |
| 0960 | 10 | 26.82 | 60.5 | 9 | 12.1  | 46.5 | 3 | Anti-horário |
| 1062 | 8  | 28    | 65.5 | 9 | 12.06 | 46.5 |   | Horário      |
| 1475 | 9  | 25.8  | 56   | 9 | 12.1  | 46.5 |   | Horário      |
|      |    |       |      |   |       |      |   |              |
|      |    |       |      |   |       |      |   |              |
|      |    |       |      |   |       |      |   |              |
|      |    |       |      |   |       |      |   |              |

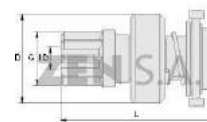


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

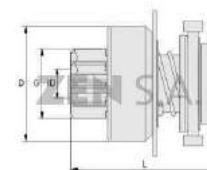
|      |    |       |      |    |    |      |   |              |
|------|----|-------|------|----|----|------|---|--------------|
| 0474 | 9  | 25.8  | 64   | 10 | 12 | 46.5 | 3 | Horário      |
| 0475 | 9  | 29.64 | 59   | 10 | 12 | 46.5 |   | Horário      |
| 0482 | 9  | 25.8  | 58.5 | 10 | 12 | 46.3 |   | Horário      |
| 0520 | 10 | 26.82 | 58.5 | 10 | 12 | 46.5 |   | Horário      |
| 0532 | 9  | 25.9  | 58.5 | 10 | 11 | 46.5 |   | Horário      |
| 0572 | 10 | 27.5  | 65   | 10 | 12 | 54.5 |   | Horário      |
| 0573 | 9  | 29.64 | 62   | 10 | 12 | 54.5 |   | Horário      |
| 0575 | 10 | 27.94 | 58.5 | 10 | 12 | 46.5 |   | Horário      |
| 0630 | 10 | 27.94 | 58.5 | 10 | 12 | 46.5 |   | Horário      |
| 0631 | 9  | 25.8  | 62   | 10 | 12 | 54.5 |   | Horário      |
| 0632 | 10 | 27.5  | 62   | 10 | 12 | 54.5 |   | Horário      |
| 0706 | 11 | 29.5  | 62   | 10 | 12 | 54.5 |   | Horário      |
| 0794 | 10 | 33    | 58.5 | 10 | 12 | 46.5 |   | Anti-horário |
| 0796 | 9  | 25.8  | 65.5 | 10 | 12 | 54.5 |   | Horário      |
| 0798 | 9  | 25.8  | 58.5 | 10 | 12 | 46.5 |   | Anti-horário |
| 0800 | 11 | 29.5  | 59   | 10 | 12 | 54.5 |   | Horário      |
| 0838 | 9  | 34.8  | 62   | 10 | 12 | 54.5 |   | Horário      |
| 0871 | 8  | 28.2  | 59   | 10 | 12 | 46.5 |   | Horário      |
| 0875 | 9  | 35.5  | 62   | 10 | 12 | 54.5 |   | Horário      |
| 0962 | 10 | 26.82 | 59   | 10 | 12 | 54.5 |   | Horário      |
| 1065 | 9  | 29.64 | 58.5 | 10 | 12 | 46.5 |   | Anti-horário |
| 1067 | 9  | 25.8  | 59   | 10 | 12 | 54.5 |   | Horário      |
| 1070 | 9  | 35.2  | 62   | 10 | 12 | 54.5 |   | Horário      |
| 1072 | 9  | 29.64 | 62   | 10 | 12 | 54.5 |   | Horário      |
| 1153 | 9  | 25.8  | 46   | 10 | 12 | 46.5 |   | Horário      |
| 1171 | 10 | 26.82 | 62   | 10 | 12 | 54.5 |   | Horário      |
| 1470 | 10 | 33.02 | 58.5 | 10 | 12 | 46.5 |   | Horário      |
| 1471 | 9  | 25.8  | 53.5 | 10 | 12 | 46.5 |   | Horário      |
| 1487 | 13 | 39.5  | 59   | 10 | 12 | 54.5 |   | Horário      |



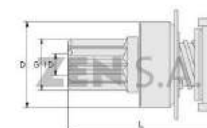
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|------|----|-------|------|----|----|------|--|--------------|
| 0613 | 9  | 25.8  | 79.5 | 10 | 12 | 46.5 |  | Anti-horário |
| 0933 | 10 | 27.94 | 90   | 16 | 9  | 46.5 |  | Anti-horário |
| 1011 | 8  | 27.2  | 69.5 | 10 | 12 | 46.5 |  | Anti-horário |
| 1177 | 9  | 25.8  | 90   | 16 | 11 | 47.4 |  | Horário      |
| 1222 | 10 | 27.94 | 90   | 16 | 11 | 46.5 |  | Anti-horário |
| 1468 | 9  | 25.8  | 90   | 16 | 11 | 47.4 |  | Anti-horário |
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|------|----|------|------|----|----|------|--|--------------|
| 0579 | 9  | 25.8 | 58.5 | 10 | 12 | 46.5 |  | Anti-horário |
| 0619 | 9  | 25.8 | 58.5 | 10 | 11 | 46.5 |  | Anti-horário |
| 0799 | 9  | 25.8 | 55.5 | 10 | 12 | 46.5 |  | Anti-horário |
| 0805 | 11 | 29.5 | 58.5 | 10 | 12 | 46.5 |  | Anti-horário |
| 0866 | 9  | 25.8 | 59.5 | 10 | 12 | 46.5 |  | Horário      |
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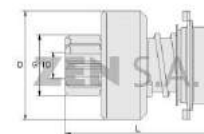


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| 0639 | 10 | 27.94 | 79.5 | 10 | 12 | 54.5 |  | Anti-horário |
| 0729 | 10 | 27.94 | 76.5 | 10 | 12 | 46.5 |  | Anti-horário |
| 0851 | 10 | 27.94 | 86   | 10 | 12 | 54.5 |  | Anti-horário |
| 0900 | 10 | 27.94 | 79.5 | 10 | 12 | 46.5 |  | Anti-horário |
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| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

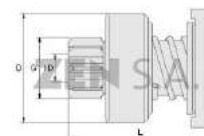
|      |   |      |      |    |    |      |              |
|------|---|------|------|----|----|------|--------------|
| 0702 | 9 | 25.8 | 58.5 | 10 | 11 | 46.5 | Anti-horário |
| 0703 | 9 | 25.8 | 68   | 10 | 11 | 46.5 | Anti-horário |
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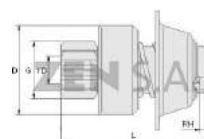
|      |   |      |    |    |    |      |              |
|------|---|------|----|----|----|------|--------------|
| 0701 | 9 | 29.6 | 75 | 10 | 12 | 46.5 | Anti-horário |
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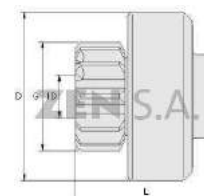
|      |    |      |      |    |    |      |              |
|------|----|------|------|----|----|------|--------------|
| 0781 | 11 | 29.5 | 64   | 10 | 12 | 46.5 | Horário      |
| 0803 | 9  | 25.8 | 58.5 | 10 | 12 | 46.5 | Horário      |
| 1467 | 8  | 27.2 | 66.5 | 10 | 12 | 47.4 | Anti-horário |
|      |    |      |      |    |    |      |              |
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|------|---|-------|----|---|----|------|---------|
| 0533 | 9 | 29.64 | 70 | 6 | 14 | 46.5 | Horário |
| 0713 | 9 | 29.64 | 70 | 3 | 14 | 46.5 | Horário |
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|------|----|-------|------|----|-------|------|--------------|
| 0536 | 9  | 30    | 39.5 | 6  | 12    | 46.5 | Anti-horário |
| 0708 | 10 | 32.18 | 36.5 | 6  | 11.96 | 46.5 | Anti-horário |
| 0754 | 11 | 33.5  | 39.5 | 6  | 12    | 46.5 | Anti-horário |
| 0773 | 9  | 29.64 | 34   | 6  | 12    | 46.5 | Anti-horário |
| 0898 | 11 | 43.1  | 40.5 | 19 | 12    | 54.5 | Horário      |
| 0981 | 13 | 30    | 36.5 | 10 | 12.14 | 68   | Horário      |
| 1191 | 9  | 30    | 39.5 | 6  | 12    | 46.5 | Anti-horário |
| 1218 | 8  | 27.8  | 34   | 6  | 12    | 46.5 | Anti-horário |
| 1453 | 9  | 29.66 | 36.5 | 6  | 11.96 | 46.5 | Anti-horário |
| 1454 | 9  | 29    | 36.5 | 6  | 11.96 | 46.5 | Anti-horário |
| 1455 | 10 | 32.18 | 36.5 | 6  | 11.96 | 43.5 | Anti-horário |
|      |    |       |      |    |       |      |              |
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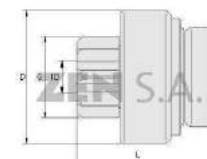


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

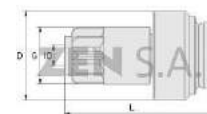
|      |    |       |       |    |    |      |              |
|------|----|-------|-------|----|----|------|--------------|
| 1534 | 9  | 25.8  | 75    | 10 | 10 | 46   | Anti-horário |
| 1768 | 12 | 37.8  | 87.15 | 4  | 10 | 48.9 | Horário      |
| 1769 | 23 | 17.5  | 106.8 | 6  |    | 60   | Horário      |
| 1824 | 13 | 34.65 | 87.3  | 4  | 10 | 48.9 | Anti-horário |
| 1893 | 11 | 29.35 | 81    | 4  | 12 | 49.8 | Anti-horário |
|      |    |       |       |    |    |      |              |
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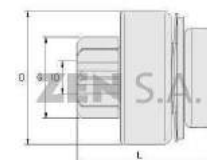
|      |    |       |      |   |       |      |         |
|------|----|-------|------|---|-------|------|---------|
| 0595 | 8  | 28.2  | 50   | 8 | 12    | 46.5 | Horário |
| 0617 | 9  | 30    | 51   | 8 | 12    | 46.5 | Horário |
| 0679 | 8  | 28.2  | 58.5 | 8 | 12    | 46.5 | Horário |
| 0711 | 8  | 28.2  | 75.8 | 8 | 12    | 46.5 | Horário |
| 0801 | 10 | 33    | 51   | 8 | 12    | 46.5 | Horário |
| 0825 | 10 | 27.94 | 50.5 | 8 | 12    | 46.5 | Horário |
| 1538 | 10 | 33    | 64   | 8 | 12    | 46.5 | Horário |
| 1681 | 12 | 32.28 | 51.9 | 8 | 12    | 46.3 | Horário |
| 1695 | 8  | 28.2  | 50.7 | 8 | 12.06 | 45.2 | Horário |
| 1706 | 8  | 28.2  | 43   | 8 | 12    | 46.5 | Horário |
| 1761 | 10 | 27.94 | 51   | 8 | 12    | 46.5 | Horário |
| 1764 | 11 | 34.5  | 51   | 8 | 12    | 46.5 | Horário |
| 1770 | 11 | 34.8  | 40.1 | 8 | 12    | 46.5 | Horário |
| 1771 | 8  | 28.2  | 51   | 8 | 12    | 46.5 | Horário |
| 1799 | 10 | 32    | 45   | 8 | 12    | 46.6 | Horário |
| 1876 | 11 | 34.5  | 42.5 | 8 | 12    | 46.5 | Horário |



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|------|----|-------|------|---|-------|------|---------|
| 0712 | 9  | 29.64 | 77   | 8 | 10.7  | 46.5 | Horário |
| 1592 | 9  | 29.64 | 73.8 | 8 | 10.69 | 46.5 | Horário |
| 1680 | 10 | 27.94 | 75   | 8 | 10.69 | 46.5 | Horário |
|      |    |       |      |   |       |      |         |
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|------|----|-------|------|---|-------|------|--------------|
| 0596 | 10 | 31.7  | 50.9 | 8 | 12    | 46.5 | Horário      |
| 0597 | 10 | 27.94 | 51.4 | 8 | 12    | 46.5 | Horário      |
| 0600 | 8  | 28.2  | 65   | 8 | 12    | 46.5 | Anti-horário |
| 0806 | 12 | 31.8  | 51   | 8 | 12    | 46.5 | Horário      |
| 1024 | 10 | 33    | 51.5 | 8 | 13.01 | 46.5 | Horário      |
| 1063 | 9  | 35.5  | 51   | 8 | 13.01 | 46.5 | Horário      |
| 1567 | 12 | 37.6  | 51   | 8 | 13.01 | 46.5 | Horário      |
| 1716 | 10 | 39.67 | 51.5 | 8 | 12    | 46.5 | Horário      |
| 1717 | 10 | 27.5  | 51.5 | 8 | 12    | 46.5 | Horário      |
| 1774 | 13 | 34    | 51.7 | 8 | 12    | 46.5 | Horário      |
| 1807 | 12 | 39    | 63   | 8 | 13.01 | 46.5 | Horário      |

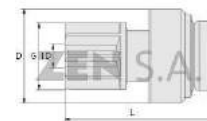


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|------|---|-------|------|---|------|------|---------|
| 0758 | 9 | 29.64 | 77.5 | 8 | 10.7 | 46.5 | Horário |
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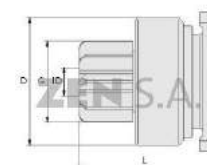


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|      |    |      |      |   |       |      |              |
|------|----|------|------|---|-------|------|--------------|
| 1018 | 8  | 28.2 | 75.5 | 8 | 12    | 46.5 | Anti-horário |
| 1019 | 30 | 21.3 | 92.7 | 8 | 10.74 | 46.5 | Anti-horário |
| 1687 | 30 | 21.3 | 93   | 8 | 10.74 | 46.5 | Horário      |
| 1702 | 13 | 40   | 76.3 | 8 | 12    | 46.5 | Anti-horário |
|      |    |      |      |   |       |      |              |
|      |    |      |      |   |       |      |              |
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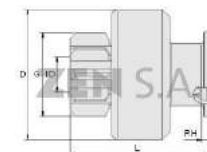
|      |    |       |      |    |       |      |      |              |
|------|----|-------|------|----|-------|------|------|--------------|
| 0890 | 23 | 54.4  | 46.5 | 12 | 12    | 45.3 | 1.85 | Horário      |
| 0907 | 13 | 46    | 46.5 | 12 | 12.02 | 45.3 | 1.85 | Horário      |
| 1192 | 10 | 27.94 | 47   | 12 | 12    | 46.5 | 2    | Horário      |
| 1193 | 9  | 30    | 47   | 12 | 12    | 46.5 | 2    | Horário      |
| 1199 | 12 | 31.8  | 47   | 12 | 12    | 46.5 | 2    | Horário      |
| 1208 | 10 | 26.82 | 47   | 12 | 12    | 46.5 | 2    | Horário      |
| 1217 | 9  | 37.18 | 59.5 | 12 | 12    | 48.7 |      | Horário      |
| 1224 | 10 | 27.9  | 46.6 | 12 | 12    | 45.3 | 1.85 | Horário      |
| 1225 | 9  | 30    | 46.5 | 12 | 12    | 45.3 | 1.85 | Horário      |
| 1226 | 12 | 31.8  | 46.5 | 12 | 12    | 45.3 | 1.85 | Horário      |
| 1228 | 10 | 26.82 | 46.5 | 12 | 12    | 45.3 | 1.85 | Horário      |
| 1539 | 12 | 37.6  | 46.5 | 12 | 12    | 45.3 | 1.85 | Anti-horário |
| 1552 | 9  | 25.8  | 47   | 12 | 12    | 46.5 | 2    | Horário      |
| 1553 | 11 | 30    | 47   | 12 | 12    | 46.5 | 2    | Horário      |
| 1570 | 9  | 25.8  | 44.5 | 12 | 12    | 46.5 | 2    | Horário      |
| 1575 | 10 | 33.02 | 44.5 | 12 | 12    | 46.5 | 2    | Horário      |
| 1585 | 11 | 34.4  | 46.6 | 6  | 12.06 | 45.3 | 1.85 | Horário      |
| 1612 | 11 | 34.4  | 44.5 | 12 | 12    | 46.5 | 2    | Horário      |
| 1646 | 12 | 37.8  | 47   | 12 | 12    | 46.5 | 2    | Horário      |
| 1714 | 11 | 36    | 46.7 | 12 | 12    | 45.4 | 1.85 | Horário      |
| 1820 | 10 | 26.82 | 57.8 | 12 | 12    | 45.3 | 1.8  | Horário      |
| 1871 | 11 | 34.4  | 46.9 | 6  | 12.06 | 45.5 |      | Horário      |



|      |    |       |      |   |  |      |  |              |
|------|----|-------|------|---|--|------|--|--------------|
| 0959 | 18 | 13.2  | 82   | 6 |  | 45.3 |  | Horário      |
| 1677 | 18 | 12.15 | 89.1 | 6 |  | 45.3 |  | Anti-horário |
|      |    |       |      |   |  |      |  |              |
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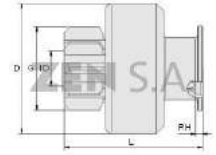


|      |    |       |      |    |       |      |     |              |
|------|----|-------|------|----|-------|------|-----|--------------|
| 0634 | 9  | 29.6  | 49   | 10 | 12.5  | 46.5 | 2.5 | Horário      |
| 0915 | 9  | 25.8  | 55   | 9  | 12.06 | 46.5 | 4   | Horário      |
| 0978 | 10 | 40    | 61   | 10 | 12    | 60   |     | Horário      |
| 0990 | 10 | 26.82 | 55   | 9  | 12.1  | 46.5 | 4   | Horário      |
| 1020 | 8  | 28    | 38.5 | 10 | 12.51 | 46.5 | 2.5 | Horário      |
| 1021 | 8  | 28    | 48.5 | 10 | 12.5  | 46.5 | 2.5 | Horário      |
| 1134 | 10 | 27.94 | 55   | 9  | 12.1  | 46.5 | 4   | Horário      |
| 1532 | 8  | 28    | 61.5 | 10 | 12.51 | 46.5 | 2.5 | Anti-horário |
| 1556 | 11 | 34.8  | 38.5 | 10 | 12.51 | 46.5 | 2.5 | Horário      |
| 1557 | 13 | 33.3  | 38.5 | 10 | 12.51 | 46.5 | 2.5 | Horário      |
| 1613 | 11 | 34.4  | 55   | 9  | 12    | 46.6 | 4   | Horário      |
| 1617 | 11 | 34.4  | 55.5 | 9  | 12.06 | 46.6 | 4   | Horário      |
| 1621 | 13 | 46    | 55   | 9  | 12.06 | 46.6 | 4   | Anti-horário |
| 1636 | 9  | 34.8  | 55   | 9  | 12.06 | 46.5 | 4   | Horário      |
| 1713 | 13 | 46    | 54.9 | 9  | 12.06 | 46.6 | 4   | Horário      |
| 1745 | 9  | 25.8  | 40.5 | 8  | 12    | 46.5 |     | Horário      |
| 1762 | 10 | 27.94 | 44   | 10 | 12.5  | 46.5 | 2.5 | Horário      |
| 1775 | 8  | 28.2  | 43.6 | 8  | 12    | 46.5 |     | Horário      |
| 1779 | 10 | 27.94 | 38.6 | 10 | 12.51 | 46.5 | 2   | Horário      |



| T  | G  | L                                   | SPL  | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|--|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrials<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

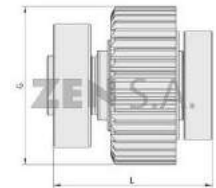
|      |    |       |      |    |       |      |   |         |
|------|----|-------|------|----|-------|------|---|---------|
| 1781 | 10 | 27.94 | 48.2 | 8  | 12    | 46.5 |   | Horário |
| 1787 | 9  | 29.6  | 43.3 | 8  | 12    | 46.5 |   | Horário |
| 1788 | 11 | 35    | 43.3 | 8  | 12    | 46.5 |   | Horário |
| 1796 | 9  | 34.1  | 38.6 | 10 | 12.51 | 46.5 | 2 | Horário |
| 1847 | 8  | 28.2  | 40   | 8  | 12    | 46.5 |   | Horário |
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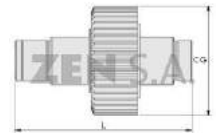
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| 0687 | 9  | 29.64 | 78 | 5  | 12.5 | 46.5 | 4.5 | Horário      |
| 0828 | 9  | 29.64 | 66 | 5  | 12.5 | 46.5 |     | Horário      |
| 1016 | 8  | 28    | 75 | 10 | 12.5 | 46.5 | 2.5 | Anti-horário |
| 1017 | 10 | 32.18 | 75 | 10 | 12.5 | 46.5 | 2.5 | Anti-horário |
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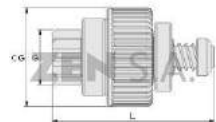
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|------|--|--|------|----|--|--|--|---------|
| 1221 |  |  | 52.4 | 10 |  |  |  | Horário |
| 1473 |  |  | 80.5 | 10 |  |  |  | Horário |
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| 1211 |  |  | 80.5 | 10 |  |  |  | Anti-horário |
| 1212 |  |  | 80.5 | 10 |  |  |  | Horário      |
| 1213 |  |  | 52   | 10 |  |  |  | Anti-horário |
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| 0737 | 9  | 29.6  | 87   |  |  |  |  | Horário      |
| 0790 | 9  | 36    | 87   |  |  |  |  | Horário      |
| 0791 | 8  | 28    | 87   |  |  |  |  | Horário      |
| 0792 | 9  | 33    | 87   |  |  |  |  | Horário      |
| 0793 | 8  | 28    | 94   |  |  |  |  | Anti-horário |
| 0844 | 9  | 25.9  | 87   |  |  |  |  | Horário      |
| 0892 | 9  | 25.9  | 78.5 |  |  |  |  | Anti-horário |
| 1081 | 12 | 37.26 | 92.7 |  |  |  |  | Horário      |
| 1200 |    |       | 50   |  |  |  |  | Horário      |
| 1207 |    |       | 50   |  |  |  |  | Anti-horário |
| 1608 | 9  | 36    | 92   |  |  |  |  | Horário      |
| 1676 | 12 | 37.26 | 92.7 |  |  |  |  | Horário      |
| 1780 | 10 | 39.15 | 95.3 |  |  |  |  | Horário      |
| 1858 | 9  | 36    | 100  |  |  |  |  | Horário      |
| 1860 | 9  | 29.6  | 87   |  |  |  |  | Anti-horário |
|      |    |       |      |  |  |  |  |              |
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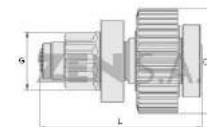


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

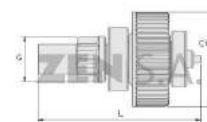
|      |   |       |       |  |  |  |         |
|------|---|-------|-------|--|--|--|---------|
| 1849 | 9 | 29.64 | 110.7 |  |  |  | Horário |
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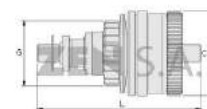
|      |    |       |       |  |  |  |              |
|------|----|-------|-------|--|--|--|--------------|
| 0750 | 11 | 29.3  | 83    |  |  |  | Horário      |
| 0816 | 10 | 33    | 83    |  |  |  | Horário      |
| 0817 | 10 | 28.2  | 83    |  |  |  | Horário      |
| 0818 | 9  | 29.6  | 83    |  |  |  | Horário      |
| 0921 | 11 | 40    | 102   |  |  |  | Horário      |
| 0946 | 9  | 33    | 102   |  |  |  | Horário      |
| 0947 | 9  | 29.64 | 102   |  |  |  | Horário      |
| 0954 | 10 | 37.8  | 83    |  |  |  | Horário      |
| 1097 | 10 | 37.8  | 102   |  |  |  | Horário      |
| 1201 |    |       | 52    |  |  |  | Horário      |
| 1215 |    |       | 64    |  |  |  | Horário      |
| 1555 | 13 | 40.8  | 110.5 |  |  |  | Anti-horário |
| 1566 | 10 | 28.2  | 110   |  |  |  | Horário      |
| 1601 | 11 | 34.8  | 102   |  |  |  | Horário      |
| 1722 | 18 | 12.7  | 102   |  |  |  | Horário      |
| 1723 | 18 | 12.7  | 102   |  |  |  | Anti-horário |
| 1766 |    |       | 52    |  |  |  | Horário      |
| 1767 |    |       | 66    |  |  |  | Horário      |
| 1846 | 10 | 40.8  | 110   |  |  |  | Horário      |
| 1863 | 9  | 29.64 | 83    |  |  |  | Horário      |
| 1864 | 9  | 29.64 | 110.5 |  |  |  | Horário      |



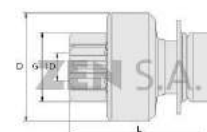
|      |   |      |      |  |  |  |         |
|------|---|------|------|--|--|--|---------|
| 0815 | 9 | 29.3 | 99   |  |  |  | Horário |
| 1548 | 9 | 29.3 | 95.7 |  |  |  | Horário |
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|------|----|------|------|--|--|--|--------------|
| 0749 | 19 | 44.5 | 107  |  |  |  | Anti-horário |
| 0751 | 17 | 39.3 | 91.5 |  |  |  | Anti-horário |
| 1036 | 23 | 52.1 | 107  |  |  |  | Anti-horário |
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|------|----|------|------|----|----|------|--------------|
| 1088 | 11 | 29.5 | 56.5 | 12 | 12 | 46.5 | Anti-horário |
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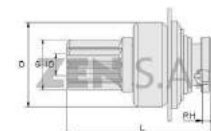


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

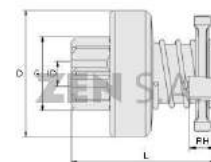
|      |    |       |       |   |      |     |         |
|------|----|-------|-------|---|------|-----|---------|
| 0887 | 20 | 14.7  | 110   | 5 | 60   | 2.5 | Horário |
| 1563 | 20 | 14.7  | 91    | 5 | 54.5 | 1.5 | Horário |
| 1647 | 10 | 32.1  | 117.5 | 6 | 60   | 6   | Horário |
| 1661 | 26 | 19.02 | 133.5 | 6 | 67.9 | 1.5 | Horário |
| 1679 | 21 | 16.5  | 131.3 | 7 | 60   |     | Horário |
| 1805 | 21 | 16.5  | 131.3 | 6 | 60   |     | Horário |
| 1808 | 26 | 19.02 | 140.2 | 6 | 71.9 | 2.5 | Horário |
| 1837 | 10 | 40    | 164.6 | 6 | 59.5 | 6.2 | Horário |



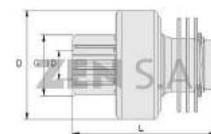
|      |    |       |    |   |      |      |   |              |
|------|----|-------|----|---|------|------|---|--------------|
| 0860 | 10 | 27.94 | 73 | 9 | 12.1 | 46.5 | 4 | Anti-horário |
| 1133 | 9  | 25.8  | 55 | 9 | 12.1 | 46.5 | 4 | Horário      |
|      |    |       |    |   |      |      |   |              |
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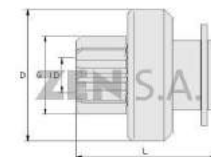
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|------|----|------|------|----|-------|------|----|---------|
| 1025 | 9  | 34.8 | 64.5 | 10 | 12.11 | 60   | 12 | Horário |
| 1630 | 9  | 29   | 64   | 10 | 12    | 54.5 | 11 | Horário |
| 1693 | 10 | 40.4 | 72.7 | 10 | 12.06 | 60.4 | 11 | Horário |
|      |    |      |      |    |       |      |    |         |
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|------|---|------|------|----|----|------|-----|---------|
| 0926 | 9 | 25.8 | 56.5 | 12 | 12 | 46.5 | 0.5 | Horário |
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|-------|----|-------|------|---|-------|------|--|---------|
| 10003 | 9  | 25.82 | 47   | 6 | 12    | 46.5 |  | Horário |
| 1048  | 8  | 28.2  | 45.5 | 6 | 12    | 43.5 |  | Horário |
| 1082  | 12 | 31.8  | 47   | 6 | 12    | 46.5 |  | Horário |
| 1614  | 10 | 27.5  | 47   | 6 | 12    | 46.5 |  | Horário |
| 1794  | 11 | 34.8  | 48.3 | 6 | 12    | 46.1 |  | Horário |
| 1886  | 10 | 27.5  | 50.6 | 6 | 12.06 | 46.5 |  | Horário |
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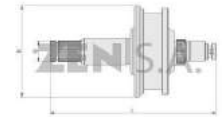


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|------|----|-------|------|----|----|------|--|--------------|
| 1069 | 10 | 27.94 | 81   | 16 | 11 | 46.5 |  | Anti-horário |
| 1108 | 9  | 25.8  | 80.5 | 16 | 11 | 46.5 |  | Anti-horário |
|      |    |       |      |    |    |      |  |              |
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| T  | G  | L                                   | SPL  | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|--|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diámetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrials<br># Of Splines<br># De Estriás | Diámetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diámetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

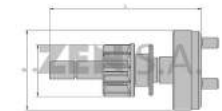
|      |    |       |       |    |      |  |              |
|------|----|-------|-------|----|------|--|--------------|
| 0957 | 20 | 14.7  | 116.8 | 10 | 64.8 |  | Horário      |
| 1043 | 18 | 13.32 | 109.8 | 8  | 56   |  | Horário      |
| 1046 | 20 | 14.7  | 126   | 10 | 64.8 |  | Horário      |
| 1047 | 20 | 14.7  | 119   | 10 | 64.8 |  | Horário      |
| 1577 | 19 | 14.65 | 116.8 | 10 | 64.8 |  | Horário      |
| 1667 | 19 | 14.65 | 126   | 10 | 64.8 |  | Anti-horário |
| 1853 | 20 | 14.7  | 138.2 | 10 | 65   |  | Horário      |
|      |    |       |       |    |      |  |              |
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|      |    |       |      |    |    |      |              |
|------|----|-------|------|----|----|------|--------------|
| 1712 | 9  | 25.8  | 82.3 | 11 | 11 | 46.6 | Anti-horário |
| 1741 | 10 | 27.94 | 80.4 | 11 | 11 | 46.6 | Anti-horário |
| 1823 | 10 | 27.94 | 91.4 | 16 | 11 | 50.1 | Anti-horário |
| 1856 | 11 | 27.5  | 90.8 | 16 | 11 | 50.1 | Anti-horário |
|      |    |       |      |    |    |      |              |
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|------|----|------|------|--|------|--|---------|
| 1875 | 9  | 29.6 | 85.7 |  | 45.3 |  | Horário |
| 1879 | 11 | 29.7 | 85.7 |  | 45.3 |  | Horário |
|      |    |      |      |  |      |  |         |
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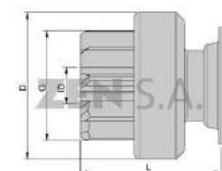
|      |    |       |       |    |      |      |              |
|------|----|-------|-------|----|------|------|--------------|
| 1803 | 13 | 34.65 | 97.85 | 16 | 45.8 |      | Anti-horário |
| 1826 | 13 | 34.4  | 98    | 16 | 11   | 50.7 | Anti-horário |
|      |    |       |       |    |      |      |              |
|      |    |       |       |    |      |      |              |
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|      |    |      |       |   |       |      |         |
|------|----|------|-------|---|-------|------|---------|
| 1809 | 23 | 17.5 | 144.2 | 6 | 13.01 | 69.5 | Horário |
| 1810 | 28 | 20.1 | 148   | 6 | 13.01 | 71.9 | Horário |
| 1811 | 23 | 17.5 | 144.2 | 6 | 13.01 | 71.9 | Horário |
|      |    |      |       |   |       |      |         |
|      |    |      |       |   |       |      |         |
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|      |    |       |      |    |       |      |         |
|------|----|-------|------|----|-------|------|---------|
| 1813 | 9  | 29.64 | 43.5 | 10 | 11.02 | 45.9 | Horário |
| 1816 | 9  | 34.1  | 43.5 | 10 | 11.08 | 45.9 | Horário |
| 1841 | 10 | 32    | 43.5 | 10 | 11.02 | 45.9 | Horário |
| 1887 | 9  | 29.64 | 50   | 10 | 11.02 | 45.9 | Horário |
|      |    |       |      |    |       |      |         |
|      |    |       |      |    |       |      |         |
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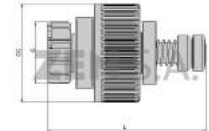


| T  | G  | L                                   | SPL   | ID  | D  | RH   | CW/CCW   |
|--|--|-------------------------------------|---|---|--|--|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Diâmetro Externo (mm)<br>Pinon O.D.<br>Piñon-Dimension | Comprimento (mm)<br>Length<br>Largo | Nº de Estrial<br># Of Splines<br># De Estriás | Diâmetro da Bucha (mm)<br>Pinon I.D.<br>Pinón-Dimensión Interna | Diâmetro da Capa (mm)<br>Drive O.D.<br>Dimensión Externa | Profundidade de Rebaixo<br>Height of Rabbet<br>Altura Del Rebajo | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

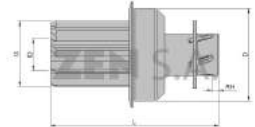
|      |    |      |       |  |  |  |         |
|------|----|------|-------|--|--|--|---------|
| 1827 | 11 | 40   | 146.3 |  |  |  | Horário |
| 1828 |    |      | 91.9  |  |  |  | Horário |
| 1829 | 13 | 39.5 | 146.3 |  |  |  | Horário |
| 1830 | 12 | 44.9 | 146.3 |  |  |  | Horário |
| 1831 | 10 | 40   | 146.3 |  |  |  | Horário |
|      |    |      |       |  |  |  |         |
|      |    |      |       |  |  |  |         |
|      |    |      |       |  |  |  |         |
|      |    |      |       |  |  |  |         |
|      |    |      |       |  |  |  |         |



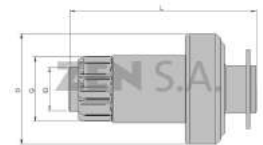
|      |    |      |       |  |  |  |              |
|------|----|------|-------|--|--|--|--------------|
| 1861 | 9  | 33   | 95.3  |  |  |  | Horário      |
| 1862 | 9  | 36   | 95.3  |  |  |  | Horário      |
| 1865 | 11 | 40.5 | 103.3 |  |  |  | Anti-horário |
| 1883 | 9  | 36   | 100   |  |  |  | Horário      |
|      |    |      |       |  |  |  |              |
|      |    |      |       |  |  |  |              |
|      |    |      |       |  |  |  |              |
|      |    |      |       |  |  |  |              |
|      |    |      |       |  |  |  |              |
|      |    |      |       |  |  |  |              |



|      |   |      |    |   |       |      |              |
|------|---|------|----|---|-------|------|--------------|
| 1885 | 9 | 29.5 | 75 | 5 | 11.02 | 41.5 | Anti-horário |
|      |   |      |    |   |       |      |              |
|      |   |      |    |   |       |      |              |
|      |   |      |    |   |       |      |              |
|      |   |      |    |   |       |      |              |
|      |   |      |    |   |       |      |              |
|      |   |      |    |   |       |      |              |
|      |   |      |    |   |       |      |              |
|      |   |      |    |   |       |      |              |
|      |   |      |    |   |       |      |              |










|      |    |       |      |    |       |      |      |              |
|------|----|-------|------|----|-------|------|------|--------------|
| 1890 | 10 | 28.36 | 81.8 | 10 | 12.06 | 48.7 | 15.8 | Anti-horário |
| 1891 | 10 | 28.36 | 89   | 10 | 12.06 | 48.7 | 15.8 | Anti-horário |
|      |    |       |      |    |       |      |      |              |
|      |    |       |      |    |       |      |      |              |
|      |    |       |      |    |       |      |      |              |
|      |    |       |      |    |       |      |      |              |
|      |    |       |      |    |       |      |      |              |
|      |    |       |      |    |       |      |      |              |
|      |    |       |      |    |       |      |      |              |
|      |    |       |      |    |       |      |      |              |







| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0001   | 1.01.0001.0   | 0005  | 1.01.0005.0   | 0006  | 1.01.0006.0  | 0010  | 1.01.0010.0  |
|--|---|---|---|---|--|---|--|
|  | T 9<br>G 29.64<br>L 73.5<br>SPL 6<br>ID 14.3<br>D 54.5<br>FAM 020 |  | T 9<br>G 29.64<br>L 73.5<br>SPL 6<br>ID 14.3<br>D 46.5<br>FAM 020 |  | T 9<br>G 29.64<br>L 74.5<br>SPL 3<br>ID 14.26<br>D 46.5<br>FAM 023 |  | T 9<br>G 25.8<br>L 75<br>SPL 6<br>ID 12<br>D 46.2<br>FAM 020 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 242                                 | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 242                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 242                                  | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 242                                    | CW/CCW Horário   |





| 0013   | 1.01.0013.0  | 0015  | 1.01.0015.0  | 0020  | 1.01.0020.0  | 0022  | 1.01.0022.0   |
|--|--|---|--|---|--|---|---|
|  | T 9<br>G 25.8<br>L 75.5<br>SPL 3<br>ID 12<br>D 46.2<br>FAM 020 |  | T 9<br>G 29.64<br>L 77.5<br>SPL 3<br>ID 14.26<br>D 46.6<br>FAM 021 |  | T 9<br>G 25.8<br>L 80.5<br>SPL 3<br>ID 12<br>D 46.2<br>FAM 020 |  | T 9<br>G 29.64<br>L 100<br>SPL 6<br>ID 14.26<br>D 46.5<br>FAM 020 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 242                                 | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 242                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 243                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 243                                    | CW/CCW Horário  |


| 0024   | 1.01.0024.0  | 0025  | 1.01.0025.0  | 0028  | 1.01.0028.0   | 0034  | 1.01.0034.0   |
|--|--|---|--|---|---|---|---|
|  | T 10<br>G 40<br>L 79.5<br>SPL 6<br>ID 14.29<br>D 60<br>FAM 020 |  | T 9<br>G 34.8<br>L 76.5<br>SPL 6<br>ID 14.3<br>D 60<br>FAM 020 |  | T 9<br>G 34.8<br>L 90<br>SPL 3<br>ID 14.29<br>D 54.5<br>FAM 021 |  | T 9<br>G 34.8<br>L 91<br>SPL 3<br>ID 14.26<br>D 60<br>FAM 021 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 243                                   | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 243                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 244                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 244                                      | CW/CCW Horário  |

| 0039   | 1.01.0039.0   | 0041  | 1.01.0041.0  | 0043  | 1.01.0043.0  | 0044  | 1.01.0044.0  |
|--|---|---|--|---|--|---|--|
|  | T 10<br>G 40<br>L 96<br>SPL 6<br>ID 14.3<br>D 60<br>FAM 020 |  | T 11<br>G 41<br>L 102.5<br>SPL 6<br>ID 14.3<br>D 60<br>FAM 020 |  | T 10<br>G 40<br>L 87<br>SPL 3<br>ID 14.26<br>D 60<br>FAM 021 |  | T 9<br>G 25.8<br>L 78<br>SPL 3<br>ID 12<br>D 46.6<br>FAM 021 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 244                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 244                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 244                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 244                                      | CW/CCW Horário   |



| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |


| 0045   | 1.01.0045.0  | 0046  | 1.01.0046.0  | 0049  | 1.01.0049.0   | 0050  | 1.01.0050.0   |
|--|--|---|--|---|---|---|---|
|  | T 9<br>G 25.8<br>L 80.5<br>SPL 6<br>ID 12<br>D 46.2<br>FAM 020<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 90<br>SPL 3<br>ID 12<br>D 45.5<br>FAM 021<br>CW/CCW Horário |  | T 12<br>G 37.6<br>L 75.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 037<br>CW/CCW Horário |  | T 10<br>G 33<br>L 75<br>SPL 6<br>ID 12<br>D 46.6<br>FAM 020<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 245                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 245                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 245                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 245                                    |   |

| 0051   | 1.01.0051.0   | 0052  | 1.01.0052.0   | 0053  | 1.01.0053.0   | 0054  | 1.01.0054.0  |
|--|---|---|---|---|---|---|--|
|  | T 12<br>G 46.3<br>L 96<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 020<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 95<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 020<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 71.8<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 006<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 77<br>SPL 3<br>ID 12<br>D 46.6<br>FAM 035<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 245                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 246                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 246                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 246                                    |  |

| 0056   | 1.01.0056.0   | 0059  | 1.01.0059.0  | 0060  | 1.01.0060.0  | 0061  | 1.01.0061.0  |
|--|---|---|--|---|--|---|--|
|  | T 9<br>G 29.64<br>L 73.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 020<br>CW/CCW Horário |  | T 11<br>G 41<br>L 92<br>SPL 3<br>ID 14.26<br>D 60<br>FAM 021<br>CW/CCW Horário |  | T 10<br>G 40<br>L 91.5<br>SPL 3<br>ID 14.26<br>D 60<br>FAM 021<br>CW/CCW Horário |  | T 13<br>G 46<br>L 92<br>SPL 3<br>ID 14.26<br>D 60<br>FAM 021<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 246                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 247                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 247                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 247                                      |  |

| 0062   | 1.01.0062.0   | 0064  | 1.01.0064.0   | 0065  | 1.01.0065.0  | 0067  | 1.01.0067.0   |
|--|---|---|---|---|--|---|---|
|  | T 9<br>G 34.8<br>L 77.5<br>SPL 3<br>ID 14.26<br>D 46.6<br>FAM 021<br>CW/CCW Horário |  | T 10<br>G 40<br>L 70<br>SPL 3<br>ID 17<br>D 60<br>FAM 039<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 62<br>SPL 10<br>ID 11<br>D 46.3<br>FAM 007<br>CW/CCW Anti-horário |  | T 10<br>G 40<br>L 73<br>SPL 3<br>ID 17<br>D 60<br>FAM 039<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 247                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 247                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 248                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 248                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |




| 0068   | 1.01.0068.0   | 0070  | 1.01.0070.0   | 0073  | 1.01.0073.0   | 0077  | 1.01.0077.0  |
|--|---|---|---|---|---|---|--|
|  | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 002<br>CW/CCW Horário |  | T 12<br>G 37.6<br>L 92.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 020<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 87<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 020<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 007<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 248                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 248                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 248                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 248                                    |  |





| 0080   | 1.01.0080.0   | 0082  | 1.01.0082.0   | 0084  | 1.01.0084.0  | 0085  | 1.01.0085.0   |
|--|---|---|---|---|--|---|---|
|  | T 9<br>G 25.8<br>L 68.5<br>SPL 10<br>ID 12<br>D 46.3<br>FAM 049<br>CW/CCW Horário |  | T 10<br>G 26.82<br>L 66<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 007<br>CW/CCW Horário |  | T 13<br>G 47<br>L 79.5<br>SPL 6<br>ID 14.26<br>D 60<br>FAM 020<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 79<br>SPL 6<br>ID 14.26<br>D 60<br>FAM 020<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 249                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 249                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 249                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 249                                    |   |

| 0086   | 1.01.0086.0   | 0092  | 1.01.0092.0   | 0093  | 1.01.0093.0  | 0096  | 1.01.0096.0  |
|--|---|---|---|---|--|---|--|
|  | T 9<br>G 29.64<br>L 97.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 020<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 86.5<br>SPL 3<br>ID 14.26<br>D 60<br>FAM 021<br>CW/CCW Horário |  | T 10<br>G 40<br>L 96<br>SPL 3<br>ID 14.29<br>D 60<br>FAM 020<br>CW/CCW Horário |  | T 10<br>G 40<br>L 70<br>SPL 12<br>ID 17<br>D 60<br>FAM 039<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 249                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 250                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 250                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 250                                      |  |





| 0097   | 1.01.0097.0   | 0101  | 1.01.0101.0  | 0102  | 1.01.0102.0   | 0104  | 1.01.0104.0  |
|--|---|---|--|---|---|---|--|
|  | T 12<br>G 46.3<br>L 120.1<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 051<br>CW/CCW Horário |  | T 11<br>G 41<br>L 89<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário |  | T 10<br>G 40<br>L 95<br>SPL 3<br>ID 15<br>D 60<br>FAM 035<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 72<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 017<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 250                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 250                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 251                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 251                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |




| 0105   | 1.01.0105.0   | 0108  | 1.01.0108.0   | 0110  | 1.01.0110.0   | 0111  | 1.01.0111.0  |
|--|---|---|---|---|---|---|--|
|  | T 9<br>G 34.8<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014 |  | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 12<br>D 46.7<br>FAM 001 |  | T 11<br>G 56.7<br>L 120.1<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 051 |  | T 11<br>G 29.5<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 001 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 251                                 | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 252                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 252                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 252                                    | CW/CCW Horário   |

| 0112   | 1.01.0112.0   | 0114  | 1.01.0114.0   | 0115  | 1.01.0115.0   | 0117  | 1.01.0117.0   |
|--|---|---|---|---|---|---|---|
|  | T 10<br>G 32<br>L 96<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 020 |  | T 12<br>G 46.3<br>L 108<br>SPL 6<br>ID 14.26<br>D 60<br>FAM 017 |  | T 9<br>G 25.8<br>L 66<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 009 |  | T 12<br>G 46.3<br>L 120.1<br>SPL 19<br>ID 19<br>D 58.4<br>FAM 051 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 253                                 | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 253                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 253                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 253                                    | CW/CCW Horário  |

| 0118   | 1.01.0118.0   | 0119  | 1.01.0119.0   | 0120  | 1.01.0120.0  | 0125  | 1.01.0125.0  |
|--|---|---|---|---|--|---|--|
|  | T 10<br>G 40<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 014 |  | T 9<br>G 29.64<br>L 66.5<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 048 |  | T 9<br>G 25.8<br>L 70.8<br>SPL 6<br>ID 11.5<br>D 46.5<br>FAM 048 |  | T 13<br>G 47<br>L 89.5<br>SPL 3<br>ID 14.29<br>D 60<br>FAM 020 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 254                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 254                                    | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 254                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 254                                      | CW/CCW Anti-horário  |




| 0126   | 1.01.0126.0  | 0131  | 1.01.0131.0   | 0133  | 1.01.0133.0  | 0134  | 1.01.0134.0  |
|--|--|---|---|---|--|---|--|
|  | T 9<br>G 25.8<br>L 72<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 017 |  | T 9<br>G 25.8<br>L 66.5<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 048 |  | T -<br>G -<br>L 166<br>SPL -<br>ID -<br>D -<br>FAM 058 |  | T 13<br>G 46<br>L 73<br>SPL 12<br>ID 17<br>D 60<br>FAM 039 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 255                                   | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 255                                    | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 255                                    | CW/CCW -   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 255                                      | CW/CCW Horário   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

















|  |             |                    |   |             |                    |   |     |       |
|--|-------------|--------------------|---|-------------|--------------------|---|-----|-------|
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 256</p> | <b>0135</b> | <b>1.01.0135.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 256</p> | <b>0140</b> | <b>1.01.0140.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 256</p> |     |       |
|  | T           | 9                  |   | T           | 9                  |   | T   | 9     |
|  | G           | 25.8               |   | G           | 25.8               |   | G   | 29.64 |
|  | L           | 77                 |   | L           | 64                 |   | L   | 82    |
|  | SPL         | 12                 |   | SPL         | 10                 |   | SPL | 10    |
|  | ID          | 12                 |   | ID          | 12                 |   | ID  | 12.5  |
|  | D           | 46.5               |   | D           | 46.5               |   | D   | 46.6  |
|  | FAM         | 004                |   | FAM         | 009                |   | FAM | 050   |
| CW/CCW   | Horário     | CW/CCW             | Horário   | CW/CCW      | Horário            |   |     |       |

|  |             |                    |   |             |                    |   |     |       |
|--|-------------|--------------------|---|-------------|--------------------|---|-----|-------|
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 257</p> | <b>0144</b> | <b>1.01.0144.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 257</p> | <b>0153</b> | <b>1.01.0153.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 257</p> |     |       |
|  | T           | 9                  |   | T           | 10                 |   | T   | 13    |
|  | G           | 29.64              |   | G           | 40                 |   | G   | 46    |
|  | L           | 60.5               |   | L           | 73                 |   | L   | 91    |
|  | SPL         | 8                  |   | SPL         | 12                 |   | SPL | 10    |
|  | ID          | 12.8               |   | ID          | 17                 |   | ID  | 14.26 |
|  | D           | 45.5               |   | D           | 60                 |   | D   | 60    |
|  | FAM         | 030                |   | FAM         | 039                |   | FAM | 014   |
| CW/CCW   | Horário     | CW/CCW             | Horário   | CW/CCW      | Horário            |   |     |       |





|  |             |                    |   |             |                    |   |     |      |
|--|-------------|--------------------|---|-------------|--------------------|---|-----|------|
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 257</p> | <b>0158</b> | <b>1.01.0158.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 258</p> | <b>0161</b> | <b>1.01.0161.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 258</p> |     |      |
|  | T           | 9                  |   | T           | 9                  |   | T   | 9    |
|  | G           | 25.8               |   | G           | 29.64              |   | G   | 25.8 |
|  | L           | 70                 |   | L           | 74                 |   | L   | 74   |
|  | SPL         | 9                  |   | SPL         | 3                  |   | SPL | 3    |
|  | ID          | 12                 |   | ID          | 12.06              |   | ID  | 12   |
|  | D           | 46.5               |   | D           | 46.5               |   | D   | 46.5 |
|  | FAM         | 017                |   | FAM         | 026                |   | FAM | 026  |
| CW/CCW   | Horário     | CW/CCW             | Horário   | CW/CCW      | Horário            |   |     |      |

|  |             |                    |   |             |                    |   |     |      |
|--|-------------|--------------------|---|-------------|--------------------|---|-----|------|
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 258</p> | <b>0163</b> | <b>1.01.0163.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 258</p> | <b>0183</b> | <b>1.01.0183.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 259</p> |     |      |
|  | T           | 9                  |   | T           | 13                 |   | T   | 9    |
|  | G           | 34.4               |   | G           | 49.7               |   | G   | 25.8 |
|  | L           | 64                 |   | L           | 120.1              |   | L   | 60   |
|  | SPL         | 10                 |   | SPL         | 19                 |   | SPL | 9    |
|  | ID          | 12                 |   | ID          | 15.9               |   | ID  | 12   |
|  | D           | 46.5               |   | D           | 58.4               |   | D   | 46.5 |
|  | FAM         | 008                |   | FAM         | 051                |   | FAM | 026  |
| CW/CCW   | Horário     | CW/CCW             | Horário   | CW/CCW      | Horário            |   |     |      |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|
| <b>0186</b>  | <b>1.01.0186.0</b>  | <b>0188</b>   | <b>1.01.0188.0</b>  | <b>0189</b>   | <b>1.01.0189.0</b>  | <b>0191</b>   | <b>1.01.0191.0</b>  |
|    | T 10<br>G 40<br>L 97<br>SPL 6<br>ID 14.29<br>D 60<br>FAM 020<br>CW/CCW Horário      |    | T 11<br>G 56.7<br>L 120.1<br>SPL 19<br>ID 19<br>D 58.4<br>FAM 051<br>CW/CCW Horário |    | T 9<br>G 25.8<br>L 68<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 018<br>CW/CCW Horário    |    | T 9<br>G 25.8<br>L 74.5<br>SPL 3<br>ID 11<br>D 46.5<br>FAM 023<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 259                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 259                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 259                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 260                                      |   |
| <b>0192</b>  | <b>1.01.0192.0</b>  | <b>0193</b>   | <b>1.01.0193.0</b>  | <b>0198</b>   | <b>1.01.0198.0</b>  | <b>0205</b>   | <b>1.01.0205.0</b>  |
|    | T 9<br>G 25.8<br>L 64<br>SPL 3<br>ID 11<br>D 46.5<br>FAM 017<br>CW/CCW Anti-horário |    | T 9<br>G 29.64<br>L 100<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 020<br>CW/CCW Horário    |    | T 10<br>G 40<br>L 102.5<br>SPL 6<br>ID 14.26<br>D 60<br>FAM 020<br>CW/CCW Horário |    | T 9<br>G 25.8<br>L 62<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 020<br>CW/CCW Horário       |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 260                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 260                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 260                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 260                                      |   |
| <b>0213</b>  | <b>1.01.0213.0</b>  | <b>0215</b>   | <b>1.01.0215.0</b>  | <b>0216</b>   | <b>1.01.0216.0</b>  | <b>0217</b>   | <b>1.01.0217.0</b>  |
|  | T 11<br>G 29.5<br>L 68<br>SPL 6<br>ID 14<br>D 46.5<br>FAM 010<br>CW/CCW Horário     |  | T 9<br>G 29.64<br>L 76<br>SPL 12<br>ID 14<br>D 54.5<br>FAM 017<br>CW/CCW Horário    |  | T 9<br>G 36.5<br>L 76<br>SPL 12<br>ID 14<br>D 54.5<br>FAM 016<br>CW/CCW Horário   |  | T 9<br>G 29.64<br>L 76<br>SPL 6<br>ID 14<br>D 54.5<br>FAM 017<br>CW/CCW Horário       |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 261                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 261                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 261                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 261                                      |   |
| <b>0220</b>  | <b>1.01.0220.0</b>  | <b>0221</b>   | <b>1.01.0221.0</b>  | <b>0222</b>   | <b>1.01.0222.0</b>  | <b>0223</b>   | <b>1.01.0223.0</b>  |
|  | T 10<br>G 26.82<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 007<br>CW/CCW Horário   |  | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 003<br>CW/CCW Horário     |  | T 10<br>G 26.82<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 003<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 69<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 049<br>CW/CCW Horário      |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 261                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 262                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 262                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 262                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0224   | 1.01.0224.0  | 0225  | 1.01.0225.0  | 0226  | 1.01.0226.0   | 0227  | 1.01.0227.0  |
|--|--|---|--|---|---|---|--|
|  | T 10<br>G 37.8<br>L 90<br>SPL 3<br>ID 14.26<br>D 54.5<br>FAM 021<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 92.5<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 022<br>CW/CCW Horário |  | T 11<br>G 41<br>L 92.5<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 022<br>CW/CCW Horário |  | T 11<br>G 41<br>L 90<br>SPL 3<br>ID 14.26<br>D 54.5<br>FAM 021<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 262                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 262                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 263                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 263                                    |  |

| 0228   | 1.01.0228.0   | 0229  | 1.01.0229.0  | 0238  | 1.01.0238.0   | 0243  | 1.01.0243.0   |
|--|---|---|--|---|---|---|---|
|  | T 9<br>G 25.8<br>L 71<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 015<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 74<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 007<br>CW/CCW Anti-horário |  | T 9<br>G 25.8<br>L 64<br>SPL 9<br>ID 12.06<br>D 46.5<br>FAM 005<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 66<br>SPL 12<br>ID 12<br>D 45.5<br>FAM 067<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 263                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 263                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 263                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 264                                    |   |





| 0244   | 1.01.0244.0  | 0245  | 1.01.0245.0   | 0248  | 1.01.0248.0   | 0285  | 1.01.0285.0   |
|--|--|---|---|---|---|---|---|
|  | T 9<br>G 25.8<br>L 61.5<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 018<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 59.5<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 016<br>CW/CCW Anti-horário |  | T 9<br>G 25.8<br>L 59.5<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 60<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 264                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 264                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 264                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 264                                      |   |





| 0286   | 1.01.0286.0   | 0287  | 1.01.0287.0  | 0290  | 1.01.0290.0   | 0291  | 1.01.0291.0   |
|--|---|---|--|---|---|---|---|
|  | T 10<br>G 40<br>L 100<br>SPL 12<br>ID 17<br>D 60<br>FAM 040<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 55<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 086<br>CW/CCW Horário |  | T 11<br>G 41<br>L 75<br>SPL -<br>ID -<br>D -<br>FAM 054<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 74<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 264                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 265                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 265                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 265                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |  |   |  |   |   |   |   |
|--|--|---|--|---|---|---|---|
| <b>0292</b>  | 1.01.0292.0  | <b>0293</b>   | 1.01.0293.0  | <b>0294</b>   | 1.01.0294.0   | <b>0297</b>   | 1.01.0297.0   |
|    | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 001<br>CW/CCW Horário    |    | T 9<br>G 25.8<br>L 64<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 017<br>CW/CCW Horário   |    | T 9<br>G 25.8<br>L 64<br>SPL 6<br>ID 11<br>D 46.5<br>FAM 017<br>CW/CCW Anti-horário |    | T 9<br>G 25.8<br>L 66.5<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 077<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 265                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 265                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 265                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 266                                      |   |
| <b>0300</b>  | 1.01.0300.0  | <b>0301</b>   | 1.01.0301.0  | <b>0302</b>   | 1.01.0302.0   | <b>0303</b>   | 1.01.0303.0   |
|    | T 9<br>G 29.64<br>L 64.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 009<br>CW/CCW Horário |    | T 9<br>G 34.8<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário  |    | T 10<br>G 40<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 014<br>CW/CCW Horário     |    | T 12<br>G 46<br>L 94<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário    |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 266                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 266                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 266                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 266                                      |   |
| <b>0304</b>  | 1.01.0304.0  | <b>0307</b>   | 1.01.0307.0  | <b>0308</b>   | 1.01.0308.0   | <b>0310</b>   | 1.01.0310.0   |
|  | T 10<br>G 32<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 014<br>CW/CCW Horário    |  | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 007<br>CW/CCW Horário  |  | T 9<br>G 34.8<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário     |  | T 9<br>G 34.8<br>L 75<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário   |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 267                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 267                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 267                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 267                                      |   |
| <b>0312</b>  | 1.01.0312.0  | <b>0313</b>   | 1.01.0313.0  | <b>0315</b>   | 1.01.0315.0   | <b>0316</b>   | 1.01.0316.0   |
|  | T 9<br>G 34.8<br>L 75<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário    |  | T 12<br>G 46.3<br>L 75<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário     |  | T 11<br>G 41<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário    |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 268                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 268                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 268                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 268                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0318   | 1.01.0318.0  | 0319  | 1.01.0319.0   | 0320  | 1.01.0320.0  | 0322  | 1.01.0322.0   |
|--|--|---|---|---|--|---|---|
|  | T 9<br>G 34.8<br>L 90<br>SPL 10<br>ID 14.26<br>D 54.5<br>FAM 021<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 73<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 014<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 74<br>SPL 10<br>ID 14.3<br>D 54.5<br>FAM 015<br>CW/CCW Horário |  | T 10<br>G 40<br>L 70<br>SPL 3<br>ID 17<br>D 60<br>FAM 039<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 268                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 268                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 269                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 269                                    |   |

| 0323   | 1.01.0323.0  | 0325  | 1.01.0325.0   | 0327  | 1.01.0327.0  | 0328  | 1.01.0328.0   |
|--|--|---|---|---|--|---|---|
|  | T 9<br>G 25.8<br>L 62<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 002<br>CW/CCW Anti-horário |  | T 9<br>G 25.8<br>L 62<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 001<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 86<br>SPL 10<br>ID 12.5<br>D 46.6<br>FAM 050<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 64<br>SPL 6<br>ID 11<br>D 46.5<br>FAM 068<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 269                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 269                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 269                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 270                                    |   |

| 0329   | 1.01.0329.0  | 0339  | 1.01.0339.0   | 0340  | 1.01.0340.0   | 0341  | 1.01.0341.0   |
|--|--|---|---|---|---|---|---|
|  | T 9<br>G 25.8<br>L 64<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 069<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 82<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 050<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 60.5<br>SPL 8<br>ID 12.8<br>D 45.5<br>FAM 032<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 86<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 050<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 270                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 270                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 270                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 270                                      |   |

| 0342   | 1.01.0342.0  | 0343  | 1.01.0343.0   | 0345  | 1.01.0345.0  | 0348  | 1.01.0348.0  |
|--|--|---|---|---|--|---|--|
|  | T 8<br>G 27.6<br>L 86<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 050<br>CW/CCW Anti-horário |  | T 9<br>G 34.8<br>L 82<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 050<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 12<br>D 46.7<br>FAM 007<br>CW/CCW Anti-horário |  | T 9<br>G 25.8<br>L 65<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 069<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 270                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 271                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 271                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 271                                      |  |







| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |


| 0349   | 1.01.0349.0  | 0351  | 1.01.0351.0  | 0352  | 1.01.0352.0  | 0353  | 1.01.0353.0  |
|--|--|---|--|---|--|---|--|
|  | T 9<br>G 29.64<br>L 62<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 069<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 62<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 070<br>CW/CCW Horário |  | T 8<br>G 28.2<br>L 60.5<br>SPL 8<br>ID 12.8<br>D 45.9<br>FAM 030<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 82<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 050<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 271                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 271                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 272                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 272                                    |  |

| 0361   | 1.01.0361.0  | 0362  | 1.01.0362.0   | 0365  | 1.01.0365.0   | 0366  | 1.01.0366.0   |
|--|--|---|---|---|---|---|---|
|  | T 9<br>G 29.64<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 001<br>CW/CCW Horário |  | T 10<br>G 26.82<br>L 68.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 049<br>CW/CCW Horário |  | T 9<br>G 36.5<br>L 74<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 74<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 273                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 273                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 273                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 273                                    |   |

| 0367   | 1.01.0367.0   | 0376  | 1.01.0376.0   | 0378  | 1.01.0378.0  | 0381  | 1.01.0381.0  |
|--|---|---|---|---|--|---|--|
|  | T 9<br>G 34.8<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário |  | T 9<br>G 33<br>L 69<br>SPL 12<br>ID 14<br>D 60<br>FAM 027<br>CW/CCW Horário |  | T 11<br>G 41<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário |  | T 10<br>G 40<br>L 95.5<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 020<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 273                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 274                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 274                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 274                                      |  |

| 0382   | 1.01.0382.0   | 0389  | 1.01.0389.0   | 0392  | 1.01.0392.0  | 0394  | 1.01.0394.0  |
|--|---|---|---|---|--|---|--|
|  | T 8<br>G 28<br>L 62<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 071<br>CW/CCW Horário |  | T 11<br>G 29.5<br>L 70.8<br>SPL 6<br>ID 11.5<br>D 46.5<br>FAM 010<br>CW/CCW Horário |  | T 11<br>G 41<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário |  | T 11<br>G 29.5<br>L 65.5<br>SPL 10<br>ID 11.5<br>D 46.5<br>FAM 078<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 274                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 275                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 275                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 275                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |   |   |   |   |  |   |   |
|--|---|---|---|---|--|---|---|
| <b>0395</b>  | 1.01.0395.0   | <b>0397</b>   | 1.01.0397.0   | <b>0398</b>   | 1.01.0398.0  | <b>0404</b>   | 1.01.0404.0   |
|  | T 9<br>G 25.8<br>L 65.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 078<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 70.8<br>SPL 6<br>ID 11.5<br>D 46.5<br>FAM 010<br>CW/CCW Horário |  | T 13<br>G 46<br>L 70<br>SPL 12<br>ID 17<br>D 60<br>FAM 039<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 61.5<br>SPL 11<br>ID 13<br>D 46.5<br>FAM 081<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 275                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 275                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 275                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 276                                    |   |

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|--|--|---|--|---|--|---|--|
| <b>0406</b>  | 1.01.0406.0  | <b>0407</b>   | 1.01.0407.0  | <b>0408</b>   | 1.01.0408.0  | <b>0411</b>   | 1.01.0411.0  |
|  | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 092<br>CW/CCW Anti-horário |  | T 9<br>G 34.8<br>L 77.5<br>SPL 6<br>ID 14.3<br>D 60<br>FAM 091<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 69<br>SPL 6<br>ID 11.5<br>D 46.5<br>FAM 010<br>CW/CCW Horário |  | T 11<br>G 39.5<br>L 73<br>SPL 12<br>ID 17<br>D 60<br>FAM 039<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 276                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 276                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 276                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 276                                    |  |

















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|--|--|---|---|---|---|---|---|
| <b>0412</b>  | 1.01.0412.0  | <b>0414</b>   | 1.01.0414.0   | <b>0417</b>   | 1.01.0417.0   | <b>0418</b>   | 1.01.0418.0   |
|  | T 9<br>G 29.3<br>L 75<br>SPL 12<br>ID 12.06<br>D 46.5<br>FAM 083<br>CW/CCW Horário |  | T 10<br>G 32<br>L 75<br>SPL 12<br>ID 12.06<br>D 46.5<br>FAM 083<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 64<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 001<br>CW/CCW Horário |  | T 10<br>G 40<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 015<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 277                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 277                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 277                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 277                                      |   |

|  |  |   |   |   |   |   |  |
|--|--|---|---|---|---|---|--|
| <b>0419</b>  | 1.01.0419.0  | <b>0420</b>   | 1.01.0420.0   | <b>0426</b>   | 1.01.0426.0   | <b>0427</b>   | 1.01.0427.0  |
|  | T 10<br>G 39<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 092<br>CW/CCW Horário |  | T 11<br>G 34.8<br>L 60.5<br>SPL 8<br>ID 12.8<br>D 45.9<br>FAM 030<br>CW/CCW Horário |  | T 10<br>G 40<br>L 60.5<br>SPL 8<br>ID 12.8<br>D 45.5<br>FAM 030<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 277                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 278                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 278                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 278                                      |  |





| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |  |   |   |   |   |   |  |
|--|--|---|---|---|---|---|--|
| <b>0428</b>  | 1.01.0428.0  | <b>0429</b>   | 1.01.0429.0   | <b>0433</b>   | 1.01.0433.0   | <b>0434</b>   | 1.01.0434.0  |
|    | T 9<br>G 25.8<br>L 85<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 093<br>CW/CCW Anti-horário |    | T 9<br>G 30<br>L 76.5<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 073<br>CW/CCW Horário |    | T 9<br>G 25.8<br>L 69<br>SPL 3<br>ID 12<br>D 43.5<br>FAM 017<br>CW/CCW Horário      |    | T 10<br>G 40<br>L 102<br>SPL 4<br>ID 17<br>D 60<br>FAM 041<br>CW/CCW Horário     |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 278                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 278                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 278                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 279                                      |  |
| <b>0438</b>  | 1.01.0438.0  | <b>0439</b>   | 1.01.0439.0   | <b>0440</b>   | 1.01.0440.0   | <b>0441</b>   | 1.01.0441.0  |
|    | T 9<br>G 34.8<br>L 91<br>SPL 10<br>ID 15<br>D 60<br>FAM 036<br>CW/CCW Horário        |    | T 10<br>G 40<br>L 91<br>SPL 10<br>ID 15<br>D 60<br>FAM 036<br>CW/CCW Horário      |    | T 9<br>G 34.8<br>L 95<br>SPL 10<br>ID 15<br>D 60<br>FAM 025<br>CW/CCW Horário       |    | T 9<br>G 34.8<br>L 95<br>SPL 3<br>ID 15<br>D 60<br>FAM 035<br>CW/CCW Horário     |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 279                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 279                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 279                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 279                                      |  |
| <b>0442</b>  | 1.01.0442.0  | <b>0443</b>   | 1.01.0443.0   | <b>0445</b>   | 1.01.0445.0   | <b>0447</b>   | 1.01.0447.0  |
|  | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 12<br>D 46.7<br>FAM 001<br>CW/CCW Anti-horário |  | T 9<br>G 25.8<br>L 62.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 010<br>CW/CCW Horário  |  | T 9<br>G 25.8<br>L 61.5<br>SPL 9<br>ID 12.06<br>D 46.5<br>FAM 005<br>CW/CCW Horário |  | T 11<br>G 41<br>L 73.5<br>SPL 10<br>ID 14.2<br>D 60<br>FAM 015<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 279                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 280                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 280                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 280                                      |  |
| <b>0448</b>  | 1.01.0448.0  | <b>0449</b>   | 1.01.0449.0   | <b>0450</b>   | 1.01.0450.0   | <b>0451</b>   | 1.01.0451.0  |
|  | T 9<br>G 36<br>L 69<br>SPL 12<br>ID 14<br>D 60<br>FAM 027<br>CW/CCW Horário          |  | T 9<br>G 36.5<br>L 73<br>SPL 12<br>ID 14.3<br>D 60<br>FAM 039<br>CW/CCW Horário   |  | T 8<br>G 28.2<br>L 55.5<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Horário    |  | T 9<br>G 25.8<br>L 62<br>SPL 6<br>ID 11.5<br>D 41.5<br>FAM 080<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 280                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 280                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 280                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 281                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|--|
| <b>0453</b>  | 1.01.0453.0   | <b>0454</b>   | 1.01.0454.0   | <b>0455</b>   | 1.01.0455.0   | <b>0458</b>   | 1.01.0458.0  |
|    | T 8<br>G 27<br>L 60.5<br>SPL 6<br>ID 12<br>D 41.5<br>FAM 080<br>CW/CCW Anti-horário |    | T 10<br>G 32<br>L 80.5<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 020<br>CW/CCW Horário     |    | T 10<br>G 27.94<br>L 71.8<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 006<br>CW/CCW Horário |    | T 9<br>G 29.64<br>L 55.5<br>SPL 6<br>ID 12<br>D 41.5<br>FAM 017<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 281                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 281                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 281                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 282                                      |  |
| <b>0459</b>  | 1.01.0459.0   | <b>0460</b>   | 1.01.0460.0   | <b>0461</b>   | 1.01.0461.0   | <b>0462</b>   | 1.01.0462.0  |
|    | T 10<br>G 27.5<br>L 80<br>SPL 3<br>ID 14<br>D 60<br>FAM 035<br>CW/CCW Horário       |    | T 10<br>G 27.2<br>L 74<br>SPL 10<br>ID 14.26<br>D 54.5<br>FAM 015<br>CW/CCW Horário |    | T 10<br>G 27.2<br>L 78.5<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 019<br>CW/CCW Horário   |    | T 9<br>G 29.64<br>L 68<br>SPL 9<br>ID 12<br>D 54.5<br>FAM 017<br>CW/CCW Horário        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 282                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 282                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 282                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 282                                      |  |
| <b>0463</b>  | 1.01.0463.0   | <b>0467</b>   | 1.01.0467.0   | <b>0468</b>   | 1.01.0468.0   | <b>0469</b>   | 1.01.0469.0  |
|  | T 9<br>G 29.64<br>L 69<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 017<br>CW/CCW Horário     |  | T 9<br>G 25.8<br>L 54.5<br>SPL 9<br>ID 12.06<br>D 46.5<br>FAM 096<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 51.5<br>SPL 9<br>ID 12.06<br>D 46.5<br>FAM 096<br>CW/CCW Horário |  | T 10<br>G 26.82<br>L 63.5<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 096<br>CW/CCW Horário     |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 282                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 283                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 283                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 283                                      |  |
| <b>0474</b>  | 1.01.0474.0   | <b>0475</b>   | 1.01.0475.0   | <b>0480</b>   | 1.01.0480.0   | <b>0482</b>   | 1.01.0482.0  |
|  | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100<br>CW/CCW Horário     |  | T 9<br>G 29.64<br>L 59<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100<br>CW/CCW Horário    |  | T 10<br>G 40<br>L 70<br>SPL 12<br>ID 17.03<br>D 60<br>FAM 039<br>CW/CCW Horário     |  | T 9<br>G 25.8<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.3<br>FAM 100<br>CW/CCW Horário      |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 283                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 283                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 283                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 284                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0485   | 1.01.0485.0   | 0486  | 1.01.0486.0  | 0492  | 1.01.0492.0   | 0495  | 1.01.0495.0   |
|--|---|---|--|---|---|---|---|
|  | T 11<br>G 41<br>L 100<br>SPL 12<br>ID 17<br>D 60<br>FAM 040<br>CW/CCW Horário |  | T 10<br>G 40<br>L 100<br>SPL 12<br>ID 17.03<br>D 60<br>FAM 040<br>CW/CCW Horário |  | T 10<br>G 32<br>L 95<br>SPL 3<br>ID 15<br>D 60<br>FAM 035<br>CW/CCW Horário |  | T 10<br>G 33<br>L 75.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 037<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 284                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 284                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 284                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 285                                    |   |

| 0496   | 1.01.0496.0   | 0497  | 1.01.0497.0   | 0498  | 1.01.0498.0   | 0499  | 1.01.0499.0  |
|--|---|---|---|---|---|---|--|
|  | T 9<br>G 34.8<br>L 84<br>SPL 10<br>ID 14.3<br>D 54.5<br>FAM 015<br>CW/CCW Horário |  | T 10<br>G 32<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 014<br>CW/CCW Horário |  | T 8<br>G 28.2<br>L 82<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 050<br>CW/CCW Horário |  | T 8<br>G 28<br>L 60<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 047<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 286                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 286                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 286                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 286                                    |  |

| 0502   | 1.01.0502.0   | 0505  | 1.01.0505.0   | 0506  | 1.01.0506.0  | 0507  | 1.01.0507.0   |
|--|---|---|---|---|--|---|---|
|  | T 11<br>G 29.5<br>L 60<br>SPL 12<br>ID 12.06<br>D 46.5<br>FAM 096<br>CW/CCW Horário |  | T 10<br>G 40<br>L 106.5<br>SPL 6<br>ID 14.29<br>D 60<br>FAM 020<br>CW/CCW Horário |  | T 10<br>G 40<br>L 100<br>SPL 3<br>ID 17<br>D 60<br>FAM 040<br>CW/CCW Horário |  | T 11<br>G 39.5<br>L 73<br>SPL 3<br>ID 17<br>D 60<br>FAM 039<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 286                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 287                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 287                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 287                                      |   |

| 0517   | 1.01.0517.0   | 0519  | 1.01.0519.0   | 0520  | 1.01.0520.0   | 0522  | 1.01.0522.0  |
|--|---|---|---|---|---|---|--|
|  | T 8<br>G 28<br>L 82<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 050<br>CW/CCW Anti-horário |  | T 8<br>G 28.2<br>L 70.5<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Anti-horário |  | T 10<br>G 26.82<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 80.5<br>SPL 3<br>ID 12<br>D 46.2<br>FAM 020<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 287                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 287                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 287                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 288                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





|  |  |   |   |   |   |   |  |
|--|--|---|---|---|---|---|--|
| <b>0528</b>  | <b>1.01.0528.0</b>   | <b>0530</b>   | <b>1.01.0530.0</b>  | <b>0532</b>   | <b>1.01.0532.0</b>  | <b>0533</b>   | <b>1.01.0533.0</b>   |
|    | T 12<br>G 46.3<br>L 74<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário       |    | T 10<br>G 27.94<br>L 76<br>SPL 12<br>ID 12<br>D 54.5<br>FAM 016<br>CW/CCW Horário   |    | T 9<br>G 25.9<br>L 58.5<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 100<br>CW/CCW Horário   |    | T 9<br>G 29.64<br>L 70<br>SPL 6<br>ID 14<br>D 46.5<br>FAM 107<br>CW/CCW Horário  |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 288                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 288                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 288                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 288                                      |  |
| <b>0536</b>  | <b>1.01.0536.0</b>   | <b>0537</b>   | <b>1.01.0537.0</b>  | <b>0538</b>   | <b>1.01.0538.0</b>  | <b>0539</b>   | <b>1.01.0539.0</b>   |
|    | T 9<br>G 30<br>L 39.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 108<br>CW/CCW Anti-horário    |    | T 9<br>G 25.8<br>L 76<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 073<br>CW/CCW Horário     |    | T 10<br>G 37.8<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário    |    | T 10<br>G 39.5<br>L 69<br>SPL 12<br>ID 14<br>D 60<br>FAM 027<br>CW/CCW Horário   |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 288                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 289                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 289                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 289                                      |  |
| <b>0540</b>  | <b>1.01.0540.0</b>   | <b>0541</b>   | <b>1.01.0541.0</b>  | <b>0545</b>   | <b>1.01.0545.0</b>  | <b>0549</b>   | <b>1.01.0549.0</b>   |
|  | T 11<br>G 29.5<br>L 66.5<br>SPL 6<br>ID 14<br>D 46.5<br>FAM 011<br>CW/CCW Anti-horário |  | T 13<br>G 46<br>L 70<br>SPL 12<br>ID 17<br>D 60<br>FAM 039<br>CW/CCW Horário        |  | T 8<br>G 28.2<br>L 64<br>SPL 10<br>ID 12.6<br>D 46.6<br>FAM 047<br>CW/CCW Horário   |  | T 9<br>G 32.2<br>L 70.5<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 034<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 289                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 289                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 290                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 290                                      |  |
| <b>0554</b>  | <b>1.01.0554.0</b>   | <b>0555</b>   | <b>1.01.0555.0</b>  | <b>0556</b>   | <b>1.01.0556.0</b>  | <b>0557</b>   | <b>1.01.0557.0</b>   |
|  | T 9<br>G 29.5<br>L 65<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 033<br>CW/CCW Horário     |  | T 12<br>G 46.3<br>L 170<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 052<br>CW/CCW Horário |  | T 11<br>G 56.7<br>L 170<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 052<br>CW/CCW Horário |  | T 11<br>G 41<br>L 100<br>SPL 12<br>ID 17.03<br>D 60<br>FAM 040<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 290                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 290                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 290                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 290                                      |  |


| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





|  |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|--|
| <b>0561</b>  | <b>1.01.0561.0</b>  | <b>0566</b>   | <b>1.01.0566.0</b>  | <b>0567</b>   | <b>1.01.0567.0</b>  | <b>0568</b>   | <b>1.01.0568.0</b>   |
|    | T 9<br>G 34.8<br>L 77<br>SPL 6<br>ID 14<br>D 60<br>FAM 027<br>CW/CCW Horário    |    | T 12<br>G 46.3<br>L 96<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 045<br>CW/CCW Horário     |    | T 9<br>G 29.64<br>L 96<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 045<br>CW/CCW Horário   |    | T 10<br>G 40<br>L 96<br>SPL 3<br>ID 14.26<br>D 60<br>FAM 045<br>CW/CCW Horário         |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 291                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 291                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 291                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 291                                      |  |
| <b>0570</b>  | <b>1.01.0570.0</b>  | <b>0571</b>   | <b>1.01.0571.0</b>  | <b>0572</b>   | <b>1.01.0572.0</b>  | <b>0573</b>   | <b>1.01.0573.0</b>   |
|    | T 11<br>G 29.5<br>L 59<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 086<br>CW/CCW Horário |    | T 10<br>G 27.64<br>L 61.5<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Horário  |    | T 10<br>G 27.5<br>L 65<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100<br>CW/CCW Horário  |    | T 9<br>G 29.64<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100<br>CW/CCW Horário       |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 291                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 292                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 292                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 292                                      |  |
| <b>0574</b>  | <b>1.01.0574.0</b>  | <b>0575</b>   | <b>1.01.0575.0</b>  | <b>0576</b>   | <b>1.01.0576.0</b>  | <b>0579</b>   | <b>1.01.0579.0</b>   |
|  | T 9<br>G 25.8<br>L 53<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 098<br>CW/CCW Horário  |  | T 10<br>G 27.94<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100<br>CW/CCW Horário |  | T 8<br>G 28.2<br>L 60<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 047<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 102<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 292                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 292                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 292                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 293                                      |  |
| <b>0580</b>  | <b>1.01.0580.0</b>  | <b>0584</b>   | <b>1.01.0584.0</b>  | <b>0591</b>   | <b>1.01.0591.0</b>  | <b>0594</b>   | <b>1.01.0594.0</b>   |
|  | T 11<br>G 40.5<br>L 69<br>SPL 12<br>ID 14<br>D 60<br>FAM 027<br>CW/CCW Horário  |  | T 9<br>G 29.64<br>L 55.5<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Horário   |  | T 10<br>G 32<br>L 100<br>SPL 12<br>ID 14.3<br>D 60<br>FAM 040<br>CW/CCW Horário   |  | T 9<br>G 35.5<br>L 73<br>SPL 12<br>ID 14.3<br>D 60<br>FAM 039<br>CW/CCW Horário        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 293                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 293                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 293                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 293                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0595   | 1.01.0595.0  | 0596  | 1.01.0596.0   | 0597  | 1.01.0597.0  | 0600  | 1.01.0600.0   |
|--|--|---|---|---|--|---|---|
|  | T 8<br>G 28.2<br>L 50<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário |  | T 10<br>G 31.7<br>L 50.9<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 112<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 51.4<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 112<br>CW/CCW Horário |  | T 8<br>G 28.2<br>L 65<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 112<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 294                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 294                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 294                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 294                                    |   |

| 0601   | 1.01.0601.0  | 0603  | 1.01.0603.0   | 0605  | 1.01.0605.0   | 0607  | 1.01.0607.0  |
|--|--|---|---|---|---|---|--|
|  | T 9<br>G 34.8<br>L 77.5<br>SPL 6<br>ID 14.3<br>D 60<br>FAM 091<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 91<br>SPL 10<br>ID 15<br>D 60<br>FAM 036<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 77<br>SPL 6<br>ID 11<br>D 46.5<br>FAM 011<br>CW/CCW Anti-horário |  | T 12<br>G 46.3<br>L 102<br>SPL 4<br>ID 17<br>D 60<br>FAM 041<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 294                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 295                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 295                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 295                                    |  |

| 0608   | 1.01.0608.0  | 0609  | 1.01.0609.0   | 0610  | 1.01.0610.0  | 0611  | 1.01.0611.0  |
|--|--|---|---|---|--|---|--|
|  | T 9<br>G 35.5<br>L 81.5<br>SPL 6<br>ID 17<br>D 60<br>FAM 012<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 74.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 037<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 68<br>SPL 3<br>ID 12<br>D 43.5<br>FAM 095<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 68<br>SPL 6<br>ID 12<br>D 43.5<br>FAM 095<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 295                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 295                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 295                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 296                                      |  |





| 0612   | 1.01.0612.0  | 0613  | 1.01.0613.0  | 0615  | 1.01.0615.0  | 0617  | 1.01.0617.0  |
|--|--|---|--|---|--|---|--|
|  | T 9<br>G 25.8<br>L 69<br>SPL 3<br>ID 12<br>D 43.5<br>FAM 095<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 79.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 101<br>CW/CCW Anti-horário |  | T 11<br>G 39.5<br>L 73<br>SPL 3<br>ID 17<br>D 60<br>FAM 039<br>CW/CCW Anti-horário |  | T 9<br>G 30<br>L 51<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 296                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 296                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 296                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 296                                      |  |







| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





|  |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|
| <b>0619</b>  | <b>1.01.0619.0</b>  | <b>0622</b>   | <b>1.01.0622.0</b>  | <b>0624</b>   | <b>1.01.0624.0</b>  | <b>0625</b>   | <b>1.01.0625.0</b>  |
|    | T 9<br>G 25.8<br>L 58.5<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 102     |    | T 12<br>G 46.3<br>L 118<br>SPL 19<br>ID 15.9<br>D 58.9<br>FAM 051 |    | T 12<br>G 46.3<br>L 98.5<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 045 |    | T 10<br>G 39.5<br>L 98.5<br>SPL 3<br>ID 14.3<br>D 60<br>FAM 045   |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 296                                   | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 297                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 297                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 297                                      | CW/CCW Horário  |
| <b>0626</b>  | <b>1.01.0626.0</b>  | <b>0627</b>   | <b>1.01.0627.0</b>  | <b>0629</b>   | <b>1.01.0629.0</b>  | <b>0630</b>   | <b>1.01.0630.0</b>  |
|    | T 11<br>G 56.7<br>L 120.1<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 051 |    | T 10<br>G 39.5<br>L 77.5<br>SPL 6<br>ID 14.26<br>D 60<br>FAM 020  |    | T 10<br>G 32<br>L 85<br>SPL 12<br>ID 14<br>D 60<br>FAM 029      |    | T 10<br>G 27.94<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 297                                   | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 298                                    | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 298                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 298                                      | CW/CCW Horário  |
| <b>0631</b>  | <b>1.01.0631.0</b>  | <b>0632</b>   | <b>1.01.0632.0</b>  | <b>0633</b>   | <b>1.01.0633.0</b>  | <b>0634</b>   | <b>1.01.0634.0</b>  |
|  | T 9<br>G 25.8<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100       |  | T 10<br>G 27.5<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100    |  | T 10<br>G 26.82<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 092 |  | T 9<br>G 29.6<br>L 49<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 117   |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 298                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 298                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 298                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 299                                      | CW/CCW Horário  |
| <b>0635</b>  | <b>1.01.0635.0</b>  | <b>0636</b>   | <b>1.01.0636.0</b>  | <b>0638</b>   | <b>1.01.0638.0</b>  | <b>0639</b>   | <b>1.01.0639.0</b>  |
|  | T 10<br>G 32<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 015       |  | T 8<br>G 28.2<br>L 56<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 047      |  | T 9<br>G 34.4<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 001   |  | T 10<br>G 27.94<br>L 79.5<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 103 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 299                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 299                                    | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 299                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 299                                      | CW/CCW Anti-horário   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0641   | 1.01.0641.0   | 0644  | 1.01.0644.0  | 0645  | 1.01.0645.0   | 0646  | 1.01.0646.0  |
|--|---|---|--|---|---|---|--|
|  | T 9<br>G 25.9<br>L 58.5<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 084<br>CW/CCW Horário |  | T 11<br>G 34.8<br>L 62<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 070<br>CW/CCW Horário |  | T 10<br>G 32<br>L 85<br>SPL 12<br>ID 13.01<br>D 60<br>FAM 029<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 61.5<br>SPL 9<br>ID 12<br>D 54.5<br>FAM 085<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 299                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 300                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 300                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 300                                    |  |

| 0647   | 1.01.0647.0   | 0648  | 1.01.0648.0  | 0649  | 1.01.0649.0  | 0650  | 1.01.0650.0   |
|--|---|---|--|---|--|---|---|
|  | T 11<br>G 34.4<br>L 76.5<br>SPL 9<br>ID 12<br>D 54.5<br>FAM 088<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 015<br>CW/CCW Horário |  | T 10<br>G 40<br>L 85<br>SPL 12<br>ID 14<br>D 60<br>FAM 029<br>CW/CCW Horário |  | T 12<br>G 46.3<br>L 85<br>SPL 12<br>ID 14.01<br>D 60<br>FAM 029<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 300                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 300                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 301                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 301                                    |   |

| 0651   | 1.01.0651.0   | 0653  | 1.01.0653.0   | 0656  | 1.01.0656.0   | 0657  | 1.01.0657.0  |
|--|---|---|---|---|---|---|--|
|  | T 9<br>G 34.4<br>L 85<br>SPL 12<br>ID 14<br>D 60<br>FAM 029<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 008<br>CW/CCW Horário |  | T 12<br>G 31.8<br>L 61.5<br>SPL 9<br>ID 12<br>D 54.5<br>FAM 085<br>CW/CCW Horário |  | T 9<br>G 37.1<br>L 61.5<br>SPL 9<br>ID 12<br>D 54.5<br>FAM 085<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 301                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 301                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 301                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 302                                      |  |

| 0661   | 1.01.0661.0  | 0663  | 1.01.0663.0  | 0668  | 1.01.0668.0  | 0669  | 1.01.0669.0   |
|--|--|---|--|---|--|---|---|
|  | T 10<br>G 39<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário |  | T 9<br>G 36<br>L 78<br>SPL 12<br>ID 14.01<br>D 60<br>FAM 029<br>CW/CCW Horário |  | T 10<br>G 40<br>L 84<br>SPL 10<br>ID 14.3<br>D 54.5<br>FAM 015<br>CW/CCW Horário |  | T 13<br>G 40<br>L 109<br>SPL 10<br>ID 17<br>D 60<br>FAM 044<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 302                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 302                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 302                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 302                                      |   |





| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |



|  |   |   |  |   |  |   |  |
|--|---|---|--|---|--|---|--|
| <b>0670</b>  | <b>1.01.0670.0</b>  | <b>0671</b>   | <b>1.01.0671.0</b>   | <b>0672</b>   | <b>1.01.0672.0</b>   | <b>0673</b>   | <b>1.01.0673.0</b>   |
|    | T 13<br>G 40<br>L 100<br>SPL 10<br>ID 17<br>D 60<br>FAM 043<br>CW/CCW Horário     |    | T 8<br>G 28.2<br>L 71<br>SPL 6<br>ID 11.5<br>D 46.5<br>FAM 010<br>CW/CCW Horário   |    | T 9<br>G 25.8<br>L 60<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 008<br>CW/CCW Horário      |    | T 11<br>G 34.4<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 008<br>CW/CCW Horário       |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 302                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 303                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 303                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 303                                      |  |
| <b>0674</b>  | <b>1.01.0674.0</b>  | <b>0675</b>   | <b>1.01.0675.0</b>   | <b>0676</b>   | <b>1.01.0676.0</b>   | <b>0677</b>   | <b>1.01.0677.0</b>   |
|    | T 9<br>G 25.8<br>L 66<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 009<br>CW/CCW Horário   |    | T 10<br>G 33<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 008<br>CW/CCW Horário     |    | T 9<br>G 25.8<br>L 74<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 009<br>CW/CCW Horário      |    | T 10<br>G 40<br>L 74<br>SPL 10<br>ID 14.3<br>D 54.5<br>FAM 015<br>CW/CCW Horário       |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 303                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 303                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 303                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 303                                      |  |
| <b>0679</b>  | <b>1.01.0679.0</b>  | <b>0681</b>   | <b>1.01.0681.0</b>   | <b>0684</b>   | <b>1.01.0684.0</b>   | <b>0686</b>   | <b>1.01.0686.0</b>   |
|  | T 8<br>G 28.2<br>L 58.5<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário  |  | T 9<br>G 29.64<br>L 70<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 006<br>CW/CCW Horário   |  | T 9<br>G 34.8<br>L 69<br>SPL 12<br>ID 14<br>D 60<br>FAM 027<br>CW/CCW Horário        |  | T 8<br>G 28.2<br>L 82<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 047<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 303                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 304                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 304                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 304                                      |  |
| <b>0687</b>  | <b>1.01.0687.0</b>  | <b>0691</b>   | <b>1.01.0691.0</b>   | <b>0701</b>   | <b>1.01.0701.0</b>   | <b>0702</b>   | <b>1.01.0702.0</b>   |
|  | T 9<br>G 29.64<br>L 78<br>SPL 5<br>ID 12.5<br>D 46.5<br>FAM 118<br>CW/CCW Horário |  | T 15<br>G 44.5<br>L 62<br>SPL 10<br>ID 12.5<br>D 54.5<br>FAM 070<br>CW/CCW Horário |  | T 9<br>G 29.6<br>L 75<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 105<br>CW/CCW Anti-horário |  | T 9<br>G 25.8<br>L 58.5<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 104<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 304                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 304                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 304                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 305                                      |  |





| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |  |   |   |   |  |   |   |
|--|--|---|---|---|--|---|---|
| <b>0703</b>  | <b>1.01.0703.0</b>   | <b>0706</b>   | <b>1.01.0706.0</b>  | <b>0708</b>   | <b>1.01.0708.0</b>   | <b>0709</b>   | <b>1.01.0709.0</b>  |
|    | T 9<br>G 25.8<br>L 68<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 104<br>CW/CCW Anti-horário     |    | T 11<br>G 29.5<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100<br>CW/CCW Horário  |    | T 10<br>G 32.18<br>L 36.5<br>SPL 6<br>ID 11.96<br>D 46.5<br>FAM 108<br>CW/CCW Anti-horário |    | T 9<br>G 34.8<br>L 90<br>SPL 3<br>ID 14.26<br>D 54.5<br>FAM 021<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 305                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 305                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 305                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 305                                      |   |
| <b>0711</b>  | <b>1.01.0711.0</b>   | <b>0712</b>   | <b>1.01.0712.0</b>  | <b>0713</b>   | <b>1.01.0713.0</b>   | <b>0714</b>   | <b>1.01.0714.0</b>  |
|    | T 8<br>G 28.2<br>L 75.8<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário         |    | T 9<br>G 29.64<br>L 77<br>SPL 8<br>ID 10.7<br>D 46.5<br>FAM 111<br>CW/CCW Horário |    | T 9<br>G 29.64<br>L 70<br>SPL 3<br>ID 14<br>D 46.5<br>FAM 107<br>CW/CCW Horário            |    | T 9<br>G 29.64<br>L 70.8<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 010<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 305                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 305                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 306                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 306                                      |   |
| <b>0720</b>  | <b>1.01.0720.0</b>   | <b>0721</b>   | <b>1.01.0721.0</b>  | <b>0722</b>   | <b>1.01.0722.0</b>   | <b>0723</b>   | <b>1.01.0723.0</b>  |
|  | T 9<br>G 29.64<br>L 80<br>SPL 3<br>ID 14<br>D 60<br>FAM 035<br>CW/CCW Horário            |  | T 10<br>G 40<br>L 85.5<br>SPL 12<br>ID 14.01<br>D 60<br>FAM 043<br>CW/CCW Horário |  | T 10<br>G 32<br>L 85.5<br>SPL 12<br>ID 14<br>D 60<br>FAM 043<br>CW/CCW Horário             |  | T 12<br>G 46.3<br>L 85.5<br>SPL 12<br>ID 14<br>D 60<br>FAM 043<br>CW/CCW Horário  |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 306                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 306                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 306                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 306                                      |   |
| <b>0729</b>  | <b>1.01.0729.0</b>   | <b>0731</b>   | <b>1.01.0731.0</b>  | <b>0732</b>   | <b>1.01.0732.0</b>   | <b>0737</b>   | <b>1.01.0737.0</b>  |
|  | T 10<br>G 27.94<br>L 76.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 103<br>CW/CCW Anti-horário |  | T 9<br>G 25.8<br>L 68.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 010<br>CW/CCW Horário  |  | T 9<br>G 25.8<br>L 58<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 010<br>CW/CCW Horário             |  | T 9<br>G 29.6<br>L 87<br>SPL -<br>CT 41<br>D -<br>FAM 122<br>CW/CCW Horário       |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 307                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 307                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 307                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 307                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0740   | 1.01.0740.0   | 0741  | 1.01.0741.0  | 0742  | 1.01.0742.0  | 0743  | 1.01.0743.0  |
|--|---|---|--|---|--|---|--|
|  | T 11<br>G 29.5<br>L 58.5<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 096 |  | T 9<br>G 25.8<br>L 58<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 096 |  | T 9<br>G 25.8<br>L 64<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 096 |  | T 11<br>G 29.5<br>L 54.5<br>SPL 9<br>ID 12.06<br>D 46.5<br>FAM 096 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 307                                 | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 307                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 308                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 308                                    | CW/CCW Horário   |

| 0744   | 1.01.0744.0  | 0745  | 1.01.0745.0   | 0747  | 1.01.0747.0  | 0748  | 1.01.0748.0  |
|--|--|---|---|---|--|---|--|
|  | T 8<br>G 27<br>L 64<br>SPL 2<br>ID 12<br>D 40<br>FAM 026 |  | T 9<br>G 25.8<br>L 53.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 084 |  | T 10<br>G 27.94<br>L 51.5<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 085 |  | T 10<br>G 37.8<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 308                                 | CW/CCW Anti-horário                                      | APLICAÇÃO<br>Application / Aplicación<br>Pg. 308                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 308                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 308                                    | CW/CCW Horário   |

| 0749   | 1.01.0749.0   | 0750  | 1.01.0750.0  | 0751  | 1.01.0751.0  | 0752  | 1.01.0752.0  |
|--|---|---|--|---|--|---|--|
|  | T 19<br>G 44.5<br>L 107<br>SPL -<br>CT 55<br>D -<br>FAM 126 |  | T 11<br>G 29.3<br>L 83<br>SPL -<br>CT 40<br>D -<br>FAM 124 |  | T 17<br>G 39.3<br>L 91.5<br>SPL -<br>CT 40<br>D -<br>FAM 126 |  | T 9<br>G 25.8<br>L 63<br>SPL 6<br>ID 12<br>D 43.5<br>FAM 095 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 309                                   | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 309                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 309                                    | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 309                                      | CW/CCW Horário   |

| 0753   | 1.01.0753.0   | 0754  | 1.01.0754.0   | 0756  | 1.01.0756.0   | 0758  | 1.01.0758.0   |
|--|---|---|---|---|---|---|---|
|  | T 9<br>G 25.8<br>L 67.5<br>SPL 9<br>ID 12.06<br>D 46.5<br>FAM 096 |  | T 11<br>G 33.5<br>L 39.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 108 |  | T 11<br>G 30<br>L 61.5<br>SPL 6<br>ID 12<br>D 46.2<br>FAM 034 |  | T 9<br>G 29.64<br>L 77.5<br>SPL 8<br>ID 10.7<br>D 46.5<br>FAM 113 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 309                                   | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 309                                    | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 309                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 310                                      | CW/CCW Horário  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |   |   |  |   |   |   |   |
|--|---|---|--|---|---|---|---|
| <b>0760</b>  | <b>1.01.0760.0</b>  | <b>0762</b>   | <b>1.01.0762.0</b>   | <b>0764</b>   | <b>1.01.0764.0</b>  | <b>0765</b>   | <b>1.01.0765.0</b>  |
|    | T 11<br>G 41<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário      |    | T 10<br>G 27.94<br>L 86.5<br>SPL 9<br>ID 12.06<br>D 46.5<br>FAM 097<br>CW/CCW Anti-horário |    | T 11<br>G 35.8<br>L 74<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário      |    | T 8<br>G 24.7<br>L 82<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 050<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 310                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 310                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 310                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 310                                      |   |
| <b>0767</b>  | <b>1.01.0767.0</b>  | <b>0768</b>   | <b>1.01.0768.0</b>   | <b>0769</b>   | <b>1.01.0769.0</b>  | <b>0770</b>   | <b>1.01.0770.0</b>  |
|    | T 10<br>G 32.18<br>L 105.5<br>SPL 6<br>ID 14.3<br>D 60<br>FAM 020<br>CW/CCW Horário |    | T 9<br>G 25.8<br>L 62.5<br>SPL 2<br>ID 11.5<br>D 40<br>FAM 026<br>CW/CCW Anti-horário      |    | T 9<br>G 25.8<br>L 65.5<br>SPL 6<br>ID 11.5<br>D 40<br>FAM 026<br>CW/CCW Anti-horário |    | T 9<br>G 25.8<br>L 45<br>SPL 6<br>ID 12<br>D 43.5<br>FAM 034<br>CW/CCW Horário          |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 310                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 310                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 311                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 311                                      |   |
| <b>0771</b>  | <b>1.01.0771.0</b>  | <b>0772</b>   | <b>1.01.0772.0</b>   | <b>0773</b>   | <b>1.01.0773.0</b>  | <b>0774</b>   | <b>1.01.0774.0</b>  |
|  | T 10<br>G 27.5<br>L 67.5<br>SPL 3<br>ID 14<br>D 60<br>FAM 035<br>CW/CCW Horário     |  | T 9<br>G 34.8<br>L 75.5<br>SPL 3<br>ID 15<br>D 60<br>FAM 035<br>CW/CCW Horário             |  | T 9<br>G 29.64<br>L 34<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 108<br>CW/CCW Anti-horário  |  | T 9<br>G 25.8<br>L 61.5<br>SPL 6<br>ID 12<br>D 46.2<br>FAM 034<br>CW/CCW Horário        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 311                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 311                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 311                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 312                                      |   |
| <b>0775</b>  | <b>1.01.0775.0</b>  | <b>0776</b>   | <b>1.01.0776.0</b>   | <b>0778</b>   | <b>1.01.0778.0</b>  | <b>0779</b>   | <b>1.01.0779.0</b>  |
|  | T 9<br>G 25.8<br>L 51.5<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 085<br>CW/CCW Horário    |  | T 12<br>G 46.3<br>L 118<br>SPL 19<br>ID 19<br>D 58.4<br>FAM 051<br>CW/CCW Horário          |  | T 11<br>G 56.7<br>L 118<br>SPL 19<br>ID 19<br>D 58.4<br>FAM 051<br>CW/CCW Horário     |  | T 9<br>G 25.8<br>L 64<br>SPL 6<br>ID 11.5<br>D 46.5<br>FAM 047<br>CW/CCW Horário        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 312                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 312                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 312                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 313                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0781   | 1.01.0781.0  | 0783  | 1.01.0783.0  | 0784  | 1.01.0784.0  | 0785  | 1.01.0785.0  |
|--|--|---|--|---|--|---|--|
|  | T 11<br>G 29.5<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 106 |  | T 9<br>G 25.8<br>L 69<br>SPL 3<br>ID 12<br>D 43.5<br>FAM 017 |  | T 9<br>G 29.64<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015 |  | T 15<br>G 44.5<br>L 69<br>SPL 12<br>ID 14<br>D 60<br>FAM 027 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 313                                 | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 313                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 313                                  | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 313                                    | CW/CCW Horário   |

| 0786   | 1.01.0786.0  | 0787  | 1.01.0787.0  | 0790  | 1.01.0790.0   | 0791  | 1.01.0791.0   |
|--|--|---|--|---|---|---|---|
|  | T 9<br>G 25.8<br>L 64<br>SPL 6<br>ID 11.5<br>D 46.5<br>FAM 038 |  | T 9<br>G 25.82<br>L 51.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 086 |  | T 9<br>G 36<br>L 87<br>SPL -<br>CT 41<br>D -<br>FAM 122 |  | T 8<br>G 28<br>L 87<br>SPL -<br>CT 41<br>D -<br>FAM 122 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 313                                 | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 314                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 314                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 314                                    | CW/CCW Horário  |

| 0792   | 1.01.0792.0   | 0793  | 1.01.0793.0   | 0794  | 1.01.0794.0  | 0796  | 1.01.0796.0   |
|--|---|---|---|---|--|---|---|
|  | T 9<br>G 33<br>L 87<br>SPL -<br>CT 41<br>D -<br>FAM 122 |  | T 8<br>G 28<br>L 94<br>SPL -<br>CT 41<br>D -<br>FAM 122 |  | T 10<br>G 33<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100 |  | T 9<br>G 25.8<br>L 65.5<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 314                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 315                                    | CW/CCW Anti-horário                                     | APLICAÇÃO<br>Application / Aplicación<br>Pg. 315                                    | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 315                                      | CW/CCW Horário  |

| 0797   | 1.01.0797.0   | 0798  | 1.01.0798.0   | 0799  | 1.01.0799.0   | 0800  | 1.01.0800.0  |
|--|---|---|---|---|---|---|--|
|  | T 9<br>G 25.8<br>L 55.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 084 |  | T 9<br>G 25.8<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100 |  | T 9<br>G 25.8<br>L 55.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 102 |  | T 11<br>G 29.5<br>L 59<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 315                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 315                                    | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 315                                    | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 316                                      | CW/CCW Horário   |





| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |  |   |  |   |   |   |  |
|--|--|---|--|---|---|---|--|
| <b>0801</b>  | <b>1.01.0801.0</b>   | <b>0803</b>   | <b>1.01.0803.0</b>   | <b>0805</b>   | <b>1.01.0805.0</b>  | <b>0806</b>   | <b>1.01.0806.0</b>   |
|    | T 10<br>G 33<br>L 51<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário        |    | T 9<br>G 25.8<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 106<br>CW/CCW Horário  |    | T 11<br>G 29.5<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 102<br>CW/CCW Anti-horário   |    | T 12<br>G 31.8<br>L 51<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 112<br>CW/CCW Horário    |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 316                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 316                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 316                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 316                                      |  |
| <b>0808</b>  | <b>1.01.0808.0</b>   | <b>0809</b>   | <b>1.01.0809.0</b>   | <b>0813</b>   | <b>1.01.0813.0</b>  | <b>0814</b>   | <b>1.01.0814.0</b>   |
|    | T 8<br>G 28.2<br>L 53.5<br>SPL 5<br>ID 11<br>D 43.5<br>FAM 047<br>CW/CCW Horário     |    | T 9<br>G 29.6<br>L 53.5<br>SPL 5<br>ID 11<br>D 43.5<br>FAM 034<br>CW/CCW Horário   |    | T 10<br>G 40<br>L 108.5<br>SPL 4<br>ID 17<br>D 60<br>FAM 041<br>CW/CCW Horário            |    | T 10<br>G 40<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 015<br>CW/CCW Horário    |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 316                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 317                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 317                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 317                                      |  |
| <b>0815</b>  | <b>1.01.0815.0</b>   | <b>0816</b>   | <b>1.01.0816.0</b>   | <b>0817</b>   | <b>1.01.0817.0</b>  | <b>0818</b>   | <b>1.01.0818.0</b>   |
|  | T 9<br>G 29.3<br>L 99<br>SPL -<br>CT 48<br>D -<br>FAM 125<br>CW/CCW Horário          |  | T 10<br>G 33<br>L 83<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário         |  | T 10<br>G 28.2<br>L 83<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário              |  | T 9<br>G 29.6<br>L 83<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 317                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 317                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 318                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 318                                      |  |
| <b>0820</b>  | <b>1.01.0820.0</b>   | <b>0821</b>   | <b>1.01.0821.0</b>   | <b>0822</b>   | <b>1.01.0822.0</b>  | <b>0823</b>   | <b>1.01.0823.0</b>   |
|  | T 10<br>G 26.82<br>L 50.5<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 098<br>CW/CCW Horário |  | T 10<br>G 26.82<br>L 44<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 098<br>CW/CCW Horário |  | T 10<br>G 26.82<br>L 56.5<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 098<br>CW/CCW Anti-horário |  | T 10<br>G 26.82<br>L 48<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 098<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 318                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 318                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 318                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 318                                      |  |






| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0825   | 1.01.0825.0  | 0826  | 1.01.0826.0   | 0828  | 1.01.0828.0   | 0830  | 1.01.0830.0  |
|--|--|---|---|---|---|---|--|
|  | T 10<br>G 27.94<br>L 50.5<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário |  | T 10<br>G 40<br>L 75.5<br>SPL 3<br>ID 15<br>D 60<br>FAM 035<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 66<br>SPL 5<br>ID 12.5<br>D 46.5<br>FAM 118<br>CW/CCW Horário |  | T 8<br>G 28.2<br>L 53.5<br>SPL 5<br>ID 11<br>D 41.5<br>FAM 047<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 319                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 319                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 319                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 319                                    |  |

| 0831   | 1.01.0831.0   | 0832  | 1.01.0832.0  | 0836  | 1.01.0836.0  | 0837  | 1.01.0837.0   |
|--|---|---|--|---|--|---|---|
|  | T 9<br>G 25.8<br>L 79<br>SPL 12<br>ID 12.51<br>D 54.5<br>FAM 021<br>CW/CCW Anti-horário |  | T 9<br>G 29.64<br>L 77<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 047<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 55<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 084<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 319                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 319                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 319                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 320                                    |   |

| 0838   | 1.01.0838.0   | 0841  | 1.01.0841.0  | 0843  | 1.01.0843.0   | 0844  | 1.01.0844.0   |
|--|---|---|--|---|---|---|---|
|  | T 9<br>G 34.8<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100<br>CW/CCW Horário |  | T 9<br>G 29.6<br>L 53.5<br>SPL 5<br>ID 11<br>D 41.5<br>FAM 034<br>CW/CCW Horário |  | T 8<br>G 23.92<br>L 44<br>SPL 5<br>ID 11<br>D 46<br>FAM 034<br>CW/CCW Horário |  | T 9<br>G 25.9<br>L 87<br>SPL -<br>CT 41<br>D -<br>FAM 122<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 320                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 320                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 320                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 320                                      |   |


| 0846   | 1.01.0846.0  | 0850  | 1.01.0850.0   | 0851  | 1.01.0851.0  | 0852  | 1.01.0852.0   |
|--|--|---|---|---|--|---|---|
|  | T 11<br>G 29.5<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 084<br>CW/CCW Horário |  | T 9<br>G 36.5<br>L 80<br>SPL 12<br>ID 14<br>D 60<br>FAM 029<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 86<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 103<br>CW/CCW Anti-horário |  | T 8<br>G 27.2<br>L 52<br>SPL 10<br>ID 11<br>D 46.5<br>FAM 094<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 321                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 321                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 321                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 321                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





|  |   |   |   |   |  |   |   |
|--|---|---|---|---|--|---|---|
| <b>0853</b>  | 1.01.0853.0   | <b>0854</b>   | 1.01.0854.0   | <b>0855</b>   | 1.01.0855.0  | <b>0857</b>   | 1.01.0857.0   |
|    | T 8<br>G 28.2<br>L 70.5<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Horário        |    | T 8<br>G 24.7<br>L 64<br>SPL 6<br>ID 12<br>D 43.5<br>FAM 034<br>CW/CCW Anti-horário |    | T 11<br>G 29.5<br>L 55.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 084<br>CW/CCW Horário |    | T 9<br>G 25.8<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 001<br>CW/CCW Horário     |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 321                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 321                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 322                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 322                                      |   |
| <b>0860</b>  | 1.01.0860.0   | <b>0861</b>   | 1.01.0861.0   | <b>0863</b>   | 1.01.0863.0  | <b>0866</b>   | 1.01.0866.0   |
|    | T 10<br>G 27.94<br>L 73<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 129<br>CW/CCW Anti-horário |    | T 9<br>G 36.8<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 094<br>CW/CCW Horário     |    | T 8<br>G 28.2<br>L 48<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 099<br>CW/CCW Horário   |    | T 9<br>G 25.8<br>L 59.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 102<br>CW/CCW Horário   |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 322                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 322                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 322                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 322                                      |   |
| <b>0868</b>  | 1.01.0868.0   | <b>0871</b>   | 1.01.0871.0   | <b>0874</b>   | 1.01.0874.0  | <b>0875</b>   | 1.01.0875.0   |
|  | T 10<br>G 27.5<br>L 80<br>SPL 3<br>ID 14<br>D 60<br>FAM 035<br>CW/CCW Horário           |  | T 8<br>G 28.2<br>L 59<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100<br>CW/CCW Horário     |  | T 8<br>G 28.2<br>L 64.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 001<br>CW/CCW Horário  |  | T 9<br>G 35.5<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100<br>CW/CCW Horário     |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 323                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 323                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 323                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 323                                      |   |
| <b>0878</b>  | 1.01.0878.0   | <b>0879</b>   | 1.01.0879.0   | <b>0887</b>   | 1.01.0887.0  | <b>0888</b>   | 1.01.0888.0   |
|  | T 11<br>G 29.5<br>L 52.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 038<br>CW/CCW Horário      |  | T 13<br>G 49.7<br>L 118<br>SPL 19<br>ID 19<br>D 58.4<br>FAM 051<br>CW/CCW Horário   |  | T 20<br>G 14.7<br>L 110<br>SPL 5<br>ID -<br>D 60<br>FAM 128<br>CW/CCW Horário      |  | T 11<br>G 41.99<br>L 98<br>SPL 3<br>ID 14.29<br>D 59.9<br>FAM 011<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 323                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 323                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 324                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 324                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0890   | 1.01.0890.0  | 0892  | 1.01.0892.0  | 0893  | 1.01.0893.0  | 0894  | 1.01.0894.0  |
|--|--|---|--|---|--|---|--|
|  | T 23<br>G 54.4<br>L 46.5<br>SPL 12<br>ID 12<br>D 45.3<br>FAM 115<br>CW/CCW Horário |  | T 9<br>G 25.9<br>L 78.5<br>SPL -<br>CT 44<br>D -<br>FAM 122<br>CW/CCW Anti-horário |  | T 10<br>G 31.7<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 001<br>CW/CCW Horário |  | T 11<br>G 40.6<br>L 84<br>SPL 12<br>ID 15<br>D 60<br>FAM 043<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 324                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 324                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 324                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 324                                    |  |


| 0895   | 1.01.0895.0   | 0898  | 1.01.0898.0  | 0900  | 1.01.0900.0  | 0901  | 1.01.0901.0  |
|--|---|---|--|---|--|---|--|
|  | T 9<br>G 36<br>L 71<br>SPL 12<br>ID 13<br>D 60<br>FAM 029<br>CW/CCW Horário |  | T 11<br>G 43.1<br>L 40.5<br>SPL 19<br>ID 12<br>D 54.5<br>FAM 108<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 79.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 103<br>CW/CCW Anti-horário |  | T 11<br>G 40.5<br>L 77<br>SPL 12<br>ID 16<br>D 60<br>FAM 027<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 325                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 325                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 325                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 325                                    |  |

| 0902   | 1.01.0902.0   | 0905  | 1.01.0905.0   | 0906  | 1.01.0906.0  | 0907  | 1.01.0907.0   |
|--|---|---|---|---|--|---|---|
|  | T 11<br>G 41<br>L 91<br>SPL 12<br>ID 14.26<br>D 60<br>FAM 021<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 77<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 004<br>CW/CCW Horário |  | T 9<br>G 33<br>L 73.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 050<br>CW/CCW Horário |  | T 13<br>G 46<br>L 46.5<br>SPL 12<br>ID 12.02<br>D 45.3<br>FAM 115<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 325                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 325                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 326                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 326                                      |   |

| 0908   | 1.01.0908.0  | 0910  | 1.01.0910.0   | 0914  | 1.01.0914.0  | 0915  | 1.01.0915.0   |
|--|--|---|---|---|--|---|---|
|  | T 8<br>G 28.2<br>L 48<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 085<br>CW/CCW Horário |  | T 8<br>G 32.4<br>L 77.5<br>SPL 6<br>ID 14.26<br>D 60<br>FAM 080<br>CW/CCW Horário |  | T 12<br>G 46.3<br>L 120.1<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 051<br>CW/CCW Anti-horário |  | T 9<br>G 25.8<br>L 55<br>SPL 9<br>ID 12.06<br>D 46.5<br>FAM 117<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 326                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 326                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 326                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 326                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0916   | 1.01.0916.0   | 0917  | 1.01.0917.0   | 0918  | 1.01.0918.0  | 0919  | 1.01.0919.0   |
|--|---|---|---|---|--|---|---|
|  | T 9<br>G 36.5<br>L 61<br>SPL 10<br>ID 12<br>D 60<br>FAM 085<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 48<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 085<br>CW/CCW Horário |  | T 8<br>G 27.6<br>L 48<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 085<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 084<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 326                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 327                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 327                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 327                                    |   |





| 0920   | 1.01.0920.0   | 0921  | 1.01.0921.0   | 0925  | 1.01.0925.0   | 0926  | 1.01.0926.0   |
|--|---|---|---|---|---|---|---|
|  | T 11<br>G 42<br>L 118<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 051<br>CW/CCW Horário |  | T 11<br>G 40<br>L 102<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 49.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 094<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 56.5<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 131<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 327                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 327                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 328                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 328                                    |   |

| 0929   | 1.01.0929.0  | 0930  | 1.01.0930.0  | 0931  | 1.01.0931.0  | 0932  | 1.01.0932.0  |
|--|--|---|--|---|--|---|--|
|  | T 11<br>G 35.8<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 094<br>CW/CCW Horário |  | T 11<br>G 56.7<br>L 118<br>SPL 19<br>ID 19<br>D 58.4<br>FAM 051<br>CW/CCW Anti-horário |  | T 10<br>G 33<br>L 75<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 001<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 80.5<br>SPL 16<br>ID 11<br>D 54.5<br>FAM 079<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 328                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 328                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 328                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 328                                      |  |

| 0933   | 1.01.0933.0   | 0935  | 1.01.0935.0   | 0936  | 1.01.0936.0   | 0937  | 1.01.0937.0  |
|--|---|---|---|---|---|---|--|
|  | T 10<br>G 27.94<br>L 90<br>SPL 16<br>ID 9<br>D 46.5<br>FAM 101<br>CW/CCW Anti-horário |  | T 11<br>G 29.5<br>L 55<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 087<br>CW/CCW Horário |  | T 11<br>G 29.5<br>L 61.5<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 085<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 80.5<br>SPL 16<br>ID 11<br>D 54.5<br>FAM 079<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 329                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 329                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 329                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 329                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





| 0938   | 1.01.0938.0   | 0940  | 1.01.0940.0   | 0942  | 1.01.0942.0   | 0943  | 1.01.0943.0   |
|--|---|---|---|---|---|---|---|
|  | T 10<br>G 26.82<br>L 48.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 094<br>CW/CCW Horário |  | T 8<br>G 24.7<br>L 70.5<br>SPL 8<br>ID 12<br>D 45.5<br>FAM 047<br>CW/CCW Anti-horário |  | T 9<br>G 25.8<br>L 62<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 084<br>CW/CCW Horário |  | T 9<br>G 38.4<br>L 71<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 084<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 329                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 329                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 329                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 330                                    |   |





| 0945   | 1.01.0945.0  | 0946  | 1.01.0946.0  | 0947  | 1.01.0947.0   | 0948  | 1.01.0948.0   |
|--|--|---|--|---|---|---|---|
|  | T 9<br>G 25.8<br>L 48<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 085<br>CW/CCW Horário |  | T 9<br>G 33<br>L 102<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 102<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário |  | T 10<br>G 40<br>L 104<br>SPL 18<br>ID 17<br>D 60<br>FAM 041<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 330                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 330                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 330                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 331                                    |   |




| 0950   | 1.01.0950.0   | 0951  | 1.01.0951.0   | 0953  | 1.01.0953.0  | 0954  | 1.01.0954.0  |
|--|---|---|---|---|--|---|--|
|  | T 9<br>G 29.6<br>L 53.5<br>SPL 5<br>ID 11<br>D 41.5<br>FAM 034<br>CW/CCW Anti-horário |  | T 8<br>G 28.2<br>L 75<br>SPL 5<br>ID 11<br>D 41.5<br>FAM 050<br>CW/CCW Anti-horário |  | T 9<br>G 35.5<br>L 88<br>SPL 3<br>ID 16.1<br>D 60<br>FAM 028<br>CW/CCW Horário |  | T 10<br>G 37.8<br>L 83<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 331                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 331                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 331                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 331                                      |  |

| 0957   | 1.01.0957.0  | 0958  | 1.01.0958.0   | 0959  | 1.01.0959.0  | 0960  | 1.01.0960.0   |
|--|--|---|---|---|--|---|---|
|  | T 20<br>G 14.7<br>L 116.8<br>SPL 10<br>ID -<br>D 64.8<br>FAM 134<br>CW/CCW Horário |  | T 11<br>G 30<br>L 47<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 034<br>CW/CCW Horário |  | T 18<br>G 13.2<br>L 82<br>SPL 6<br>ID -<br>D 45.3<br>FAM 116<br>CW/CCW Horário |  | T 10<br>G 26.82<br>L 60.5<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 099<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 331                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 332                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 332                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 332                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0961   | 1.01.0961.0   | 0962  | 1.01.0962.0   | 0965  | 1.01.0965.0   | 0969  | 1.01.0969.0   |
|--|---|---|---|---|---|---|---|
|  | T 11<br>G 29.5<br>L 61.5<br>SPL 9<br>ID 12<br>D 54.5<br>FAM 085<br>CW/CCW Horário |  | T 10<br>G 26.82<br>L 59<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 41<br>SPL 5<br>ID 10.99<br>D 46.5<br>FAM 034<br>CW/CCW Horário |  | T 9<br>G 29<br>L 52.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 038<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 332                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 332                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 332                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 333                                    |   |

| 0970   | 1.01.0970.0   | 0972  | 1.01.0972.0  | 0975  | 1.01.0975.0  | 0976  | 1.01.0976.0   |
|--|---|---|--|---|--|---|---|
|  | T 9<br>G 36.5<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015<br>CW/CCW Horário |  | T 9<br>G 25.7<br>L 90<br>SPL 16<br>ID 11<br>D 54.5<br>FAM 079<br>CW/CCW Anti-horário |  | T 23<br>G 54.4<br>L 51<br>SPL 10<br>ID 12<br>D 48.7<br>FAM 047<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 47<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 094<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 333                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 333                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 333                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 333                                    |   |





| 0977   | 1.01.0977.0   | 0978  | 1.01.0978.0  | 0981  | 1.01.0981.0   | 0983  | 1.01.0983.0  |
|--|---|---|--|---|---|---|--|
|  | T 9<br>G 25.8<br>L 93<br>SPL 3<br>ID 12<br>D 46.5<br>FAM 020<br>CW/CCW Anti-horário |  | T 10<br>G 40<br>L 61<br>SPL 10<br>ID 12<br>D 60<br>FAM 117<br>CW/CCW Horário |  | T 13<br>G 30<br>L 36.5<br>SPL 10<br>ID 12.14<br>D 68<br>FAM 108<br>CW/CCW Horário |  | T 10<br>G 27.5<br>L 61<br>SPL 10<br>ID 12<br>D 60<br>FAM 085<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 333                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 334                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 334                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 334                                      |  |





| 0985   | 1.01.0985.0   | 0989  | 1.01.0989.0  | 0990  | 1.01.0990.0  | 0991  | 1.01.0991.0   |
|--|---|---|--|---|--|---|---|
|  | T 9<br>G 36.5<br>L 85.5<br>SPL 12<br>ID 14<br>D 60<br>FAM 043<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 59.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 084<br>CW/CCW Anti-horário |  | T 10<br>G 26.82<br>L 55<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 117<br>CW/CCW Horário |  | T 9<br>G 35.5<br>L 61<br>SPL 10<br>ID 12<br>D 60<br>FAM 046<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 334                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 334                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 335                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 335                                      |   |





| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |  |   |  |   |   |   |   |
|--|--|---|--|---|---|---|---|
| <b>0996</b>  | 1.01.0996.0  | <b>0997</b>   | 1.01.0997.0  | <b>0998</b>   | 1.01.0998.0   | <b>0999</b>   | 1.01.0999.0   |
|    | T 10<br>G 32<br>L 64<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 001<br>CW/CCW Horário           |    | T 9<br>G 29.64<br>L 49<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 094<br>CW/CCW Horário       |    | T 9<br>G 29.64<br>L 47<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 094<br>CW/CCW Horário          |    | T 8<br>G 23.6<br>L 64<br>SPL 6<br>ID 11.5<br>D 46.5<br>FAM 047<br>CW/CCW Horário      |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 335                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 335                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 335                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 335                                      |   |
| <b>1001</b>  | 1.01.1001.0  | <b>1002</b>   | 1.01.1002.0  | <b>1003</b>   | 1.01.1003.0   | <b>1004</b>   | 1.01.1004.0   |
|    | T 11<br>G 41<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 015<br>CW/CCW Anti-horário     |    | T 11<br>G 35.8<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 015<br>CW/CCW Horário      |    | T 10<br>G 40<br>L 74<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 015<br>CW/CCW Anti-horário      |    | T 9<br>G 34.8<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 015<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 335                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 336                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 336                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 336                                      |   |
| <b>1005</b>  | 1.01.1005.0  | <b>1011</b>   | 1.01.1011.0  | <b>1013</b>   | 1.01.1013.0   | <b>1016</b>   | 1.01.1016.0   |
|  | T 9<br>G 34.8<br>L 74<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 015<br>CW/CCW Anti-horário    |  | T 8<br>G 27.2<br>L 69.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 101<br>CW/CCW Anti-horário |  | T 10<br>G 39.67<br>L 102<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 051<br>CW/CCW Horário      |  | T 8<br>G 28<br>L 75<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 118<br>CW/CCW Anti-horário  |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 336                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 336                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 336                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 336                                      |   |
| <b>1017</b>  | 1.01.1017.0  | <b>1018</b>   | 1.01.1018.0  | <b>1019</b>   | 1.01.1019.0   | <b>1020</b>   | 1.01.1020.0   |
|  | T 10<br>G 32.18<br>L 75<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 118<br>CW/CCW Anti-horário |  | T 8<br>G 28.2<br>L 75.5<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 114<br>CW/CCW Anti-horário  |  | T 30<br>G 21.3<br>L 92.7<br>SPL 8<br>ID 10.74<br>D 46.5<br>FAM 114<br>CW/CCW Anti-horário |  | T 8<br>G 28<br>L 38.5<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 117<br>CW/CCW Horário    |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 337                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 337                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 337                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 337                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 1021   | 1.01.1021.0   | 1022  | 1.01.1022.0   | 1023  | 1.01.1023.0  | 1024  | 1.01.1024.0  |
|--|---|---|---|---|--|---|--|
|  | T 8<br>G 28<br>L 48.5<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 117 |  | T 9<br>G 35.5<br>L 57.5<br>SPL 16<br>ID 12<br>D 54.5<br>FAM 094 |  | T 11<br>G 29.38<br>L 54.5<br>SPL 9<br>ID 12<br>D 54.5<br>FAM 085 |  | T 10<br>G 33<br>L 51.5<br>SPL 8<br>ID 13.01<br>D 46.5<br>FAM 112 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 337                                 | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 337                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 338                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 338                                    | CW/CCW Horário   |

| 1025   | 1.01.1025.0  | 1026  | 1.01.1026.0   | 1027  | 1.01.1027.0   | 1030  | 1.01.1030.0  |
|--|--|---|---|---|---|---|--|
|  | T 9<br>G 34.8<br>L 64.5<br>SPL 10<br>ID 12.11<br>D 60<br>FAM 130 |  | T 10<br>G 34.5<br>L 75<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 082 |  | T 10<br>G 32<br>L 75<br>SPL 10<br>ID 14.26<br>D 54.5<br>FAM 082 |  | T 11<br>G 29.5<br>L 49.5<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 094 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 338                                 | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 338                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 338                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 338                                    | CW/CCW Horário   |

| 1031   | 1.01.1031.0   | 1033  | 1.01.1033.0  | 1036  | 1.01.1036.0   | 1037  | 1.01.1037.0   |
|--|---|---|--|---|---|---|---|
|  | T 10<br>G 27.94<br>L 49<br>SPL 10<br>ID 12<br>D 50.5<br>FAM 094 |  | T 9<br>G 29.64<br>L 49<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 094 |  | T 23<br>G 52.1<br>L 107<br>SPL -<br>CT 55<br>D -<br>FAM 126 |  | T 10<br>G 27.94<br>L 49<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 094 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 339                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 339                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 339                                    | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 339                                      | CW/CCW Horário  |





| 1038   | 1.01.1038.0   | 1042  | 1.01.1042.0   | 1043  | 1.01.1043.0  | 1046  | 1.01.1046.0  |
|--|---|---|---|---|--|---|--|
|  | T 9<br>G 34.8<br>L 83<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 082 |  | T 9<br>G 25.8<br>L 75.5<br>SPL 6<br>ID 12.11<br>D 46.2<br>FAM 050 |  | T 18<br>G 13.32<br>L 109.8<br>SPL 8<br>ID -<br>D 56<br>FAM 134 |  | T 20<br>G 14.7<br>L 126<br>SPL 10<br>ID -<br>D 64.8<br>FAM 134 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 339                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 340                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 340                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 340                                      | CW/CCW Horário   |











| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |


|  |             |                    |        |              |   |             |                    |        |              |   |             |                    |   |    |   |             |                    |   |    |
|--|-------------|--------------------|--------|--------------|---|-------------|--------------------|--------|--------------|---|-------------|--------------------|---|----|---|-------------|--------------------|---|----|
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 340</p>   | <b>1047</b> | <b>1.01.1047.0</b> | T      | 20           |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 340</p>   | <b>1048</b> | <b>1.01.1048.0</b> | T      | 8            |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 340</p>   | <b>1054</b> | <b>1.01.1054.0</b> | T | 8  |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 340</p>   | <b>1056</b> | <b>1.01.1056.0</b> | T | 9  |
|  | G           | 14.7               | G      | 28.2         |   | G           | 28                 | G      | 25.8         |   |             |                    |   |    |   |             |                    |   |    |
|  | L           | 119                | L      | 45.5         |   | L           | 56                 | L      | 65           |   |             |                    |   |    |   |             |                    |   |    |
|  | SPL         | 10                 | SPL    | 6            |   | SPL         | 8                  | SPL    | 12           |   |             |                    |   |    |   |             |                    |   |    |
|  | ID          | -                  | ID     | 12           |   | ID          | 12                 | ID     | 11.51        |   |             |                    |   |    |   |             |                    |   |    |
|  | D           | 64.8               | D      | 43.5         |   | D           | 46.5               | D      | 45.5         |   |             |                    |   |    |   |             |                    |   |    |
|  | FAM         | 134                | FAM    | 132          |   | FAM         | 047                | FAM    | 026          |   |             |                    |   |    |   |             |                    |   |    |
|  | CW/CCW      | Horário            | CW/CCW | Horário      |   | CW/CCW      | Anti-horário       | CW/CCW | Horário      |   |             |                    |   |    |   |             |                    |   |    |
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 341</p>   | <b>1057</b> | <b>1.01.1057.0</b> | T      | 10           |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 341</p>   | <b>1058</b> | <b>1.01.1058.0</b> | T      | 11           |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 341</p>   | <b>1059</b> | <b>1.01.1059.0</b> | T | 9  |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 341</p>   | <b>1060</b> | <b>1.01.1060.0</b> | T | 10 |
|  | G           | 27.94              | G      | 29.5         |   | G           | 34.8               | G      | 40           |   |             |                    |   |    |   |             |                    |   |    |
|  | L           | 49                 | L      | 49           |   | L           | 83                 | L      | 85           |   |             |                    |   |    |   |             |                    |   |    |
|  | SPL         | 10                 | SPL    | 10           |   | SPL         | 10                 | SPL    | 10           |   |             |                    |   |    |   |             |                    |   |    |
|  | ID          | 12                 | ID     | 12           |   | ID          | 14.3               | ID     | 14.26        |   |             |                    |   |    |   |             |                    |   |    |
|  | D           | 54.5               | D      | 50.5         |   | D           | 60                 | D      | 60           |   |             |                    |   |    |   |             |                    |   |    |
|  | FAM         | 094                | FAM    | 094          |   | FAM         | 029                | FAM    | 026          |   |             |                    |   |    |   |             |                    |   |    |
|  | CW/CCW      | Horário            | CW/CCW | Horário      |   | CW/CCW      | Horário            | CW/CCW | Horário      |   |             |                    |   |    |   |             |                    |   |    |
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 341</p> | <b>1062</b> | <b>1.01.1062.0</b> | T      | 8            |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 342</p> | <b>1063</b> | <b>1.01.1063.0</b> | T      | 9            |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 342</p> | <b>1064</b> | <b>1.01.1064.0</b> | T | 8  |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 342</p> | <b>1065</b> | <b>1.01.1065.0</b> | T | 9  |
|  | G           | 28                 | G      | 35.5         |   | G           | 23.92              | G      | 29.64        |   |             |                    |   |    |   |             |                    |   |    |
|  | L           | 65.5               | L      | 51           |   | L           | 41                 | L      | 58.5         |   |             |                    |   |    |   |             |                    |   |    |
|  | SPL         | 9                  | SPL    | 8            |   | SPL         | 5                  | SPL    | 10           |   |             |                    |   |    |   |             |                    |   |    |
|  | ID          | 12.06              | ID     | 13.01        |   | ID          | 10.99              | ID     | 12           |   |             |                    |   |    |   |             |                    |   |    |
|  | D           | 46.5               | D      | 46.5         |   | D           | 46.5               | D      | 46.5         |   |             |                    |   |    |   |             |                    |   |    |
|  | FAM         | 099                | FAM    | 112          |   | FAM         | 034                | FAM    | 100          |   |             |                    |   |    |   |             |                    |   |    |
|  | CW/CCW      | Horário            | CW/CCW | Horário      |   | CW/CCW      | Horário            | CW/CCW | Anti-horário |   |             |                    |   |    |   |             |                    |   |    |
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 342</p> | <b>1067</b> | <b>1.01.1067.0</b> | T      | 9            |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 342</p> | <b>1068</b> | <b>1.01.1068.0</b> | T      | 9            |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 342</p> | <b>1069</b> | <b>1.01.1069.0</b> | T | 10 |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 343</p> | <b>1070</b> | <b>1.01.1070.0</b> | T | 9  |
|  | G           | 25.8               | G      | 25.8         |   | G           | 27.94              | G      | 35.2         |   |             |                    |   |    |   |             |                    |   |    |
|  | L           | 59                 | L      | 53           |   | L           | 81                 | L      | 62           |   |             |                    |   |    |   |             |                    |   |    |
|  | SPL         | 10                 | SPL    | 9            |   | SPL         | 16                 | SPL    | 10           |   |             |                    |   |    |   |             |                    |   |    |
|  | ID          | 12                 | ID     | 12.06        |   | ID          | 11                 | ID     | 12           |   |             |                    |   |    |   |             |                    |   |    |
|  | D           | 54.5               | D      | 46.5         |   | D           | 46.5               | D      | 54.5         |   |             |                    |   |    |   |             |                    |   |    |
|  | FAM         | 100                | FAM    | 098          |   | FAM         | 133                | FAM    | 100          |   |             |                    |   |    |   |             |                    |   |    |
|  | CW/CCW      | Horário            | CW/CCW | Anti-horário |   | CW/CCW      | Anti-horário       | CW/CCW | Horário      |   |             |                    |   |    |   |             |                    |   |    |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





| 1071   | 1.01.1071.0  | 1072  | 1.01.1072.0  | 1073  | 1.01.1073.0   | 1074  | 1.01.1074.0  |
|--|--|---|--|---|---|---|--|
|  | T 10<br>G 27.5<br>L 58.5<br>SPL 10<br>ID 12<br>D 52.7<br>FAM 094<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 83<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 027<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 54.5<br>SPL 9<br>ID 12<br>D 54.5<br>FAM 085<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 343                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 343                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 343                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 343                                    |  |

| 1076   | 1.01.1076.0   | 1081  | 1.01.1081.0   | 1082  | 1.01.1082.0   | 1088  | 1.01.1088.0   |
|--|---|---|---|---|---|---|---|
|  | T 9<br>G 34.8<br>L 86.9<br>SPL 3<br>ID 14.29<br>D 54.5<br>FAM 021<br>CW/CCW Horário |  | T 12<br>G 37.26<br>L 92.7<br>SPL -<br>CT 44<br>D -<br>FAM 122<br>CW/CCW Horário |  | T 12<br>G 31.8<br>L 47<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 132<br>CW/CCW Horário |  | T 11<br>G 29.5<br>L 56.5<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 127<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 343                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 344                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 344                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 344                                    |   |

| 1090   | 1.01.1090.0  | 1091  | 1.01.1091.0  | 1092  | 1.01.1092.0   | 1097  | 1.01.1097.0   |
|--|--|---|--|---|---|---|---|
|  | T 10<br>G 32.1<br>L 80<br>SPL 10<br>ID 14<br>D 60<br>FAM 046<br>CW/CCW Horário |  | T 10<br>G 37.8<br>L 80<br>SPL 10<br>ID 14<br>D 60<br>FAM 046<br>CW/CCW Horário |  | T 10<br>G 37.8<br>L 80.5<br>SPL 6<br>ID 15<br>D 60<br>FAM 046<br>CW/CCW Horário |  | T 10<br>G 37.8<br>L 102<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 344                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 344                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 344                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 345                                      |   |

| 1098   | 1.01.1098.0   | 1104  | 1.01.1104.0   | 1107  | 1.01.1107.0  | 1108  | 1.01.1108.0  |
|--|---|---|---|---|--|---|--|
|  | T 11<br>G 40<br>L 75<br>SPL 16<br>ID 17.03<br>D 60<br>FAM 046<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 62<br>SPL 10<br>ID 12<br>D 60<br>FAM 013<br>CW/CCW Horário |  | T 10<br>G 38.8<br>L 49<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 094<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 80.5<br>SPL 16<br>ID 11<br>D 46.5<br>FAM 133<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 345                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 345                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 345                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 345                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|
| <b>1109</b>  | <b>1.01.1109.0</b>  | <b>1112</b>   | <b>1.01.1112.0</b>  | <b>1113</b>   | <b>1.01.1113.0</b>  | <b>1117</b>   | <b>1.01.1117.0</b>  |
|  | T 10<br>G 27.94<br>L 55<br>SPL 10<br>ID 12<br>D 52.7<br>FAM 094<br>CW/CCW Horário |  | T 9<br>G 36.5<br>L 85.5<br>SPL 12<br>ID 14<br>D 60<br>FAM 043<br>CW/CCW Horário |  | T 9<br>G 29<br>L 50.5<br>SPL 10<br>ID 12<br>D 48.7<br>FAM 047<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 62<br>SPL 10<br>ID 12<br>D 54.3<br>FAM 013<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 345                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 346                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 346                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 346                                    |   |

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|--|--|---|--|---|--|---|---|
| <b>1133</b>  | <b>1.01.1133.0</b>   | <b>1134</b>   | <b>1.01.1134.0</b>   | <b>1152</b>   | <b>1.01.1152.0</b>   | <b>1153</b>   | <b>1.01.1153.0</b>  |
|  | T 9<br>G 25.8<br>L 55<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 129<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 55<br>SPL 9<br>ID 12.1<br>D 46.5<br>FAM 117<br>CW/CCW Horário |  | T 9<br>G 25.4<br>L 43<br>SPL 5<br>ID 11<br>D 46.5<br>FAM 034<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 46<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 346                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 346                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 346                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 347                                    |   |

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|--|---|---|--|---|---|---|---|
| <b>1155</b>  | <b>1.01.1155.0</b>  | <b>1156</b>   | <b>1.01.1156.0</b>   | <b>1157</b>   | <b>1.01.1157.0</b>  | <b>1158</b>   | <b>1.01.1158.0</b>  |
|  | T 9<br>G 34.8<br>L 49<br>SPL 10<br>ID 12<br>D 50.3<br>FAM 094<br>CW/CCW Horário |  | T 21<br>G 49.7<br>L 47.1<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 094<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 83<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 094<br>CW/CCW Horário |  | T 9<br>G 35.5<br>L 62<br>SPL 16<br>ID 12<br>D 54.5<br>FAM 094<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 347                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 347                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 347                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 347                                      |   |





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|--|--|---|--|---|---|---|---|
| <b>1159</b>  | <b>1.01.1159.0</b>   | <b>1160</b>   | <b>1.01.1160.0</b>   | <b>1161</b>   | <b>1.01.1161.0</b>  | <b>1162</b>   | <b>1.01.1162.0</b>  |
|  | T 10<br>G 40<br>L 83<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 094<br>CW/CCW Horário |  | T 12<br>G 46.3<br>L 83<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 094<br>CW/CCW Horário |  | T 11<br>G 30<br>L 77.5<br>SPL 6<br>ID 14.3<br>D 60<br>FAM 091<br>CW/CCW Horário |  | T 10<br>G 32<br>L 61<br>SPL 9<br>ID 12<br>D 54.5<br>FAM 085<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 347                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 348                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 348                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 348                                      |   |





| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |  |   |   |   |  |   |   |
|--|--|---|---|---|--|---|---|
| <b>1168</b>  | 1.01.1168.0  | <b>1169</b>   | 1.01.1169.0   | <b>1170</b>   | 1.01.1170.0  | <b>1171</b>   | 1.01.1171.0   |
|    | T 9<br>G 36.3<br>L 49<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 094<br>CW/CCW Horário  |    | T 11<br>G 29.5<br>L 51<br>SPL 10<br>ID 12<br>D 48.7<br>FAM 047<br>CW/CCW Horário    |    | T 10<br>G 38.8<br>L 56<br>SPL 10<br>ID 12<br>D 52.7<br>FAM 094<br>CW/CCW Horário   |    | T 10<br>G 26.82<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 100<br>CW/CCW Horário   |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 348                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 348                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 348                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 348                                      |   |
| <b>1172</b>  | 1.01.1172.0  | <b>1173</b>   | 1.01.1173.0   | <b>1174</b>   | 1.01.1174.0  | <b>1177</b>   | 1.01.1177.0   |
|    | T 11<br>G 28.8<br>L 54<br>SPL 10<br>ID 12<br>D 52.7<br>FAM 094<br>CW/CCW Horário |    | T 9<br>G 35.2<br>L 58.5<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 094<br>CW/CCW Horário   |    | T 9<br>G 35.2<br>L 58.5<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 094<br>CW/CCW Horário  |    | T 9<br>G 25.8<br>L 90<br>SPL 16<br>ID 11<br>D 47.4<br>FAM 101<br>CW/CCW Horário     |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 349                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 349                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 349                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 349                                      |   |
| <b>1178</b>  | 1.01.1178.0  | <b>1179</b>   | 1.01.1179.0   | <b>1180</b>   | 1.01.1180.0  | <b>1184</b>   | 1.01.0020.1   |
|  | T 10<br>G 37.8<br>L 84<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 094<br>CW/CCW Horário |  | T 11<br>G 41<br>L 83<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 094<br>CW/CCW Horário      |  | T 10<br>G 27.5<br>L 70.2<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 015<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 80.5<br>SPL 3<br>ID 12<br>D 46.5<br>FAM 020<br>CW/CCW Horário    |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 349                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 349                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 350                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 350                                      |   |
| <b>1187</b>  | 1.01.0287.1  | <b>1188</b>   | 1.01.0409.1   | <b>1189</b>   | 1.01.0433.1  | <b>1190</b>   | 1.01.0491.1   |
|  | T 9<br>G 25.8<br>L 55<br>SPL 9<br>ID 12<br>D 46.5<br>FAM 087<br>CW/CCW Horário   |  | T 9<br>G 29.3<br>L 68.5<br>SPL 12<br>ID 12.1<br>D 46.5<br>FAM 083<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 68.5<br>SPL 3<br>ID 12<br>D 45.8<br>FAM 017<br>CW/CCW Horário   |  | T 10<br>G 40.4<br>L 118<br>SPL 19<br>ID 20.7<br>D 58.4<br>FAM 051<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 350                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 350                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 350                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 351                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

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| <b>1191</b>  | 1.01.0536.1  | <b>1192</b>   | 1.01.0620.1   | <b>1193</b>   | 1.01.0623.1   | <b>1194</b>   | 1.01.0629.1  |
|  | T 9<br>G 30<br>L 39.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 108 |  | T 10<br>G 27.94<br>L 47<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 115 |  | T 9<br>G 30<br>L 47<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 115 |  | T 10<br>G 32<br>L 85<br>SPL 12<br>ID 14<br>D 60<br>FAM 029 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 351                                 | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 351                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 351                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 351                                    | CW/CCW Horário   |

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| <b>1195</b>  | 1.01.0649.1  | <b>1196</b>   | 1.01.0650.1  | <b>1197</b>   | 1.01.0651.1   | <b>1198</b>   | 1.01.0652.1  |
|  | T 10<br>G 40<br>L 85<br>SPL 12<br>ID 14<br>D 60<br>FAM 029 |  | T 12<br>G 46.3<br>L 85<br>SPL 12<br>ID 14<br>D 60<br>FAM 029 |  | T 9<br>G 34.4<br>L 85<br>SPL 12<br>ID 14<br>D 60<br>FAM 029 |  | T 9<br>G 29.64<br>L 85<br>SPL 12<br>ID 13<br>D 60<br>FAM 029 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 352                                 | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 352                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 352                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 352                                    | CW/CCW Horário   |

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| <b>1199</b>  | 1.01.0662.1  | <b>1200</b>   | 1.01.0737.1  | <b>1201</b>   | 1.01.0750.1  | <b>1204</b>   | 1.01.0778.1   |
|  | T 12<br>G 31.8<br>L 47<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 115 |  | T -<br>G -<br>L 50<br>SPL -<br>CT 41<br>D -<br>FAM 122 |  | T -<br>G -<br>L 52<br>SPL -<br>CT 40<br>D -<br>FAM 124 |  | T 11<br>G 56.7<br>L 118<br>SPL 19<br>ID 19<br>D 58.4<br>FAM 051 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 352                                   | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 352                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 353                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 353                                      | CW/CCW Horário  |


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| <b>1205</b>  | 1.01.0780.1   | <b>1206</b>   | 1.01.0786.1  | <b>1207</b>   | 1.01.0793.1  | <b>1208</b>   | 1.01.0824.1   |
|  | T 12<br>G 46.3<br>L 102<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 051 |  | T 9<br>G 25.8<br>L 64<br>SPL 6<br>ID 11.5<br>D 46.5<br>FAM 038 |  | T -<br>G -<br>L 50<br>SPL -<br>CT 41<br>D -<br>FAM 122 |  | T 10<br>G 26.82<br>L 47<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 115 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 353                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 353                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 353                                    | CW/CCW Anti-horário                                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 353                                      | CW/CCW Horário  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





|  |              |        |                    |        |   |             |              |                    |         |   |             |      |                    |  |   |             |  |                    |  |
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| <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 354   | <b>1209</b>  |        | <b>1.01.0833.1</b> |        | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 354   | <b>1210</b> |              | <b>1.01.0870.1</b> |         | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 354   | <b>1211</b> |      | <b>1.01.0883.1</b> |  | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 354   | <b>1212</b> |  | <b>1.01.0884.1</b> |  |
|  | T            | 10     | T                  | 11     |   | T           | -            | T                  | -       |   | T           | -    |                    |  |   |             |  |                    |  |
|  | G            | 27.94  | G                  | 56.7   |   | G           | -            | G                  | -       |   | G           | -    |                    |  |   |             |  |                    |  |
|  | L            | 51.5   | L                  | 102    |   | L           | 80.5         | L                  | 80.5    |   | L           | 80.5 |                    |  |   |             |  |                    |  |
|  | SPL          | 10     | SPL                | 19     |   | SPL         | 10           | SPL                | 10      |   | SPL         | 10   |                    |  |   |             |  |                    |  |
|  | ID           | 12     | ID                 | 15.9   |   | ID          | 40           | ID                 | 40      |   | ID          | 40   |                    |  |   |             |  |                    |  |
|  | D            | 46.5   | D                  | 58.4   |   | D           | -            | D                  | -       |   | D           | -    |                    |  |   |             |  |                    |  |
|  | FAM          | 086    | FAM                | 051    |   | FAM         | 121          | FAM                | 121     |   | FAM         | 121  |                    |  |   |             |  |                    |  |
| CW/CCW   | Horário      | CW/CCW | Horário            | CW/CCW | Anti-horário  | CW/CCW      | Horário      | CW/CCW             | Horário |   |             |      |                    |  |   |             |  |                    |  |
| <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 354   | <b>1213</b>  |        | <b>1.01.0885.1</b> |        | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 354   | <b>1215</b> |              | <b>1.01.0921.1</b> |         | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 355   | <b>1217</b> |      | <b>1.01.0941.1</b> |  | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 355   | <b>1218</b> |  | <b>1.01.0974.1</b> |  |
|  | T            | -      | T                  | -      |   | T           | 9            | T                  | 8       |   |             |      |                    |  |   |             |  |                    |  |
|  | G            | -      | G                  | -      |   | G           | 37.18        | G                  | 27.8    |   |             |      |                    |  |   |             |  |                    |  |
|  | L            | 52     | L                  | 64     |   | L           | 59.5         | L                  | 34      |   |             |      |                    |  |   |             |  |                    |  |
|  | SPL          | 10     | SPL                | -      |   | SPL         | 12           | SPL                | 6       |   |             |      |                    |  |   |             |  |                    |  |
|  | CT           | 40     | CT                 | 40     |   | ID          | 12           | ID                 | 12      |   |             |      |                    |  |   |             |  |                    |  |
|  | D            | -      | D                  | -      |   | D           | 48.7         | D                  | 46.5    |   |             |      |                    |  |   |             |  |                    |  |
|  | FAM          | 121    | FAM                | 124    |   | FAM         | 115          | FAM                | 108     |   |             |      |                    |  |   |             |  |                    |  |
| CW/CCW   | Anti-horário | CW/CCW | Horário            | CW/CCW | Horário   | CW/CCW      | Anti-horário |                    |         |   |             |      |                    |  |   |             |  |                    |  |
| <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 355 | <b>1221</b>  |        | <b>1.01.1014.1</b> |        | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 355 | <b>1222</b> |              | <b>1.01.1078.1</b> |         | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 355 | <b>1223</b> |      | <b>1.01.1080.1</b> |  | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 355 | <b>1224</b> |  | <b>1.01.0620.2</b> |  |
|  | T            | -      | T                  | 10     |   | T           | 9            | T                  | 10      |   |             |      |                    |  |   |             |  |                    |  |
|  | G            | -      | G                  | 27.94  |   | G           | 25.8         | G                  | 27.9    |   |             |      |                    |  |   |             |  |                    |  |
|  | L            | 52.4   | L                  | 90     |   | L           | 80.5         | L                  | 46.6    |   |             |      |                    |  |   |             |  |                    |  |
|  | SPL          | 10     | SPL                | 16     |   | SPL         | 16           | SPL                | 12      |   |             |      |                    |  |   |             |  |                    |  |
|  | CT           | 40     | ID                 | 11     |   | ID          | 11           | ID                 | 12      |   |             |      |                    |  |   |             |  |                    |  |
|  | D            | -      | D                  | 46.5   |   | D           | 46.5         | D                  | 45.3    |   |             |      |                    |  |   |             |  |                    |  |
|  | FAM          | 120    | FAM                | 101    |   | FAM         | 079          | FAM                | 115     |   |             |      |                    |  |   |             |  |                    |  |
| CW/CCW   | Horário      | CW/CCW | Anti-horário       | CW/CCW | Horário   | CW/CCW      | Horário      |                    |         |   |             |      |                    |  |   |             |  |                    |  |
| <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 356 | <b>1225</b>  |        | <b>1.01.0623.2</b> |        | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 356 | <b>1226</b> |              | <b>1.01.0662.2</b> |         | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 356 | <b>1227</b> |      | <b>1.01.0786.2</b> |  | <br>APLICAÇÃO<br>Application / Aplicación<br>Pg. 356 | <b>1228</b> |  | <b>1.01.0824.2</b> |  |
|  | T            | 9      | T                  | 12     |   | T           | 9            | T                  | 10      |   |             |      |                    |  |   |             |  |                    |  |
|  | G            | 30     | G                  | 31.8   |   | G           | 25.8         | G                  | 26.82   |   |             |      |                    |  |   |             |  |                    |  |
|  | L            | 46.5   | L                  | 46.5   |   | L           | 64           | L                  | 46.5    |   |             |      |                    |  |   |             |  |                    |  |
|  | SPL          | 12     | SPL                | 12     |   | SPL         | 6            | SPL                | 12      |   |             |      |                    |  |   |             |  |                    |  |
|  | ID           | 12     | ID                 | 12     |   | ID          | 11.5         | ID                 | 12      |   |             |      |                    |  |   |             |  |                    |  |
|  | D            | 45.3   | D                  | 45.3   |   | D           | 46.5         | D                  | 45.3    |   |             |      |                    |  |   |             |  |                    |  |
|  | FAM          | 115    | FAM                | 115    |   | FAM         | 038          | FAM                | 115     |   |             |      |                    |  |   |             |  |                    |  |
| CW/CCW   | Horário      | CW/CCW | Horário            | CW/CCW | Horário   | CW/CCW      | Horário      |                    |         |   |             |      |                    |  |   |             |  |                    |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

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| <b>1351</b>  | 1.01.0968.3   | <b>1359</b>   | 1.01.0024.4   | <b>1364</b>   | 1.01.0105.4   | <b>1372</b>   | 1.01.0748.4  |
|  | T 10<br>G 32.18<br>L 106<br>SPL 3<br>ID 14.3<br>D 59.9<br>FAM 020<br>CW/CCW Horário |  | T 10<br>G 40<br>L 79.5<br>SPL 6<br>ID 14.3<br>D 60<br>FAM 020<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário |  | T 10<br>G 37.8<br>L 91<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 014<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 356                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 356                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 357                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 357                                    |  |

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| <b>1451</b>  | 1.01.1451.0  | <b>1453</b>   | 1.01.1453.0   | <b>1454</b>   | 1.01.1454.0  | <b>1455</b>   | 1.01.1455.0  |
|  | T 9<br>G 29.6<br>L 49<br>SPL 10<br>ID 12<br>D 46.6<br>FAM 094<br>CW/CCW Anti-horário |  | T 9<br>G 29.66<br>L 36.5<br>SPL 6<br>ID 11.96<br>D 46.5<br>FAM 108<br>CW/CCW Anti-horário |  | T 9<br>G 29<br>L 36.5<br>SPL 6<br>ID 11.96<br>D 46.5<br>FAM 108<br>CW/CCW Anti-horário |  | T 10<br>G 32.18<br>L 36.5<br>SPL 6<br>ID 11.96<br>D 43.5<br>FAM 108<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 357                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 357                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 358                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 358                                    |  |

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|--|---|---|--|---|--|---|---|
| <b>1458</b>  | 1.01.1458.0   | <b>1467</b>   | 1.01.1467.0  | <b>1468</b>   | 1.01.1468.0  | <b>1469</b>   | 1.01.1469.0   |
|  | T 11<br>G 30.04<br>L 54.5<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 085<br>CW/CCW Horário |  | T 8<br>G 27.2<br>L 66.5<br>SPL 10<br>ID 12<br>D 47.4<br>FAM 106<br>CW/CCW Anti-horário |  | T 9<br>G 25.8<br>L 90<br>SPL 16<br>ID 11<br>D 47.4<br>FAM 101<br>CW/CCW Anti-horário |  | T 10<br>G 27.94<br>L 49<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 094<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 358                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 358                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 358                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 358                                      |   |

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| <b>1470</b>  | 1.01.1470.0   | <b>1471</b>   | 1.01.1471.0   | <b>1472</b>   | 1.01.1472.0  | <b>1473</b>   | 1.01.1473.0   |
|  | T 10<br>G 33.02<br>L 58.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 53.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 100<br>CW/CCW Horário |  | T 11<br>G 35.8<br>L 62<br>SPL 16<br>ID 12<br>D 54.5<br>FAM 094<br>CW/CCW Horário |  | T -<br>G -<br>L 80.5<br>SPL 10<br>CT 40<br>D -<br>FAM 120<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 359                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 359                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 359                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 359                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |             |                    |   |  |                    |   |             |  |   |             |                    |
|--|-------------|--------------------|---|--|--------------------|---|-------------|--|---|-------------|--------------------|
|    | <b>1474</b> | <b>1.01.1474.0</b> |    | <b>1475</b>                                      | <b>1.01.1475.0</b> |    | <b>1477</b> | <b>1.01.1477.0</b>                               |    | <b>1478</b> | <b>1.01.1478.0</b> |
|  | T           | 9                  |   | T  | 9                  |   | T           | 9  |   | T           | 8                  |
|  | G           | 25.8               |   | G  | 25.8               |   | G           | 29.64  |   | G           | 27.2               |
|  | L           | 58.5               |   | L  | 56                 |   | L           | 62   |   | L           | 47                 |
|  | SPL         | 10                 |   | SPL  | 9                  |   | SPL         | 10   |   | SPL         | 10                 |
|  | ID          | 12                 |   | ID   | 12.1               |   | ID          | 12   |   | ID          | 11                 |
|  | D           | 46.5               |   | D  | 46.5               |   | D           | 54.3   |   | D           | 46.5               |
|  | FAM         | 094                |   | FAM  | 099                |   | FAM         | 013  |   | FAM         | 094                |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 359                                   |             | CW/CCW             | Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 359 |                    | CW/CCW  | Horário     | APLICAÇÃO<br>Application / Aplicación<br>Pg. 360 |   | CW/CCW      | Horário            |
|    | <b>1480</b> | <b>1.01.1480.0</b> |    | <b>1482</b>                                      | <b>1.01.1482.0</b> |    | <b>1483</b> | <b>1.01.1483.0</b>                               |    | <b>1484</b> | <b>1.01.1484.0</b> |
|  | T           | 9                  |   | T  | 9                  |   | T           | 9  |   | T           | 9                  |
|  | G           | 25.7               |   | G  | 29.6               |   | G           | 34.8   |   | G           | 25.8               |
|  | L           | 80.5               |   | L  | 47                 |   | L           | 62   |   | L           | 60                 |
|  | SPL         | 16                 |   | SPL  | 6                  |   | SPL         | 16   |   | SPL         | 6                  |
|  | ID          | 11                 |   | ID   | 12                 |   | ID          | 12   |   | ID          | 11.5               |
|  | D           | 54.5               |   | D  | 46.5               |   | D           | 54.5   |   | D           | 46.5               |
|  | FAM         | 079                |   | FAM  | 034                |   | FAM         | 094  |   | FAM         | 047                |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 360                                   |             | CW/CCW             | Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 360 |                    | CW/CCW  | Horário     | APLICAÇÃO<br>Application / Aplicación<br>Pg. 360 |   | CW/CCW      | Horário            |
|  | <b>1485</b> | <b>1.01.1485.0</b> |  | <b>1486</b>                                      | <b>1.01.1486.0</b> |  | <b>1487</b> | <b>1.01.1487.0</b>                               |  | <b>1496</b> | <b>1.01.1496.0</b> |
|  | T           | 10                 |   | T  | 9                  |   | T           | 13   |   | T           | 9                  |
|  | G           | 27.94              |   | G  | 29.64              |   | G           | 39.5   |   | G           | 25.8               |
|  | L           | 70                 |   | L  | 59                 |   | L           | 59   |   | L           | 84.5               |
|  | SPL         | 16                 |   | SPL  | 10                 |   | SPL         | 10   |   | SPL         | 12                 |
|  | ID          | 12                 |   | ID   | 12                 |   | ID          | 12   |   | ID          | 12.06              |
|  | D           | 50.5               |   | D  | 46.5               |   | D           | 54.5   |   | D           | 46.5               |
|  | FAM         | 079                |   | FAM  | 084                |   | FAM         | 100  |   | FAM         | 047                |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 360                                   |             | CW/CCW             | Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 361 |                    | CW/CCW  | Horário     | APLICAÇÃO<br>Application / Aplicación<br>Pg. 361 |   | CW/CCW      | Anti-horário       |
|  | <b>1502</b> | <b>1.01.1502.0</b> |  | <b>1504</b>                                      | <b>1.01.1504.0</b> |  | <b>1509</b> | <b>1.01.1509.0</b>                               |  | <b>1516</b> | <b>1.01.1516.0</b> |
|  | T           | 11                 |   | T  | 9                  |   | T           | 8  |   | T           | 10                 |
|  | G           | 41                 |   | G  | 25.8               |   | G           | 28.2   |   | G           | 32.1               |
|  | L           | 95.5               |   | L  | 52                 |   | L           | 52   |   | L           | 90.5               |
|  | SPL         | 12                 |   | SPL  | 12                 |   | SPL         | 12   |   | SPL         | 12                 |
|  | ID          | 14.26              |   | ID   | 12.1               |   | ID          | 12.1   |   | ID          | 14.26              |
|  | D           | 60                 |   | D  | 46.5               |   | D           | 43.5   |   | D           | 60                 |
|  | FAM         | 040                |   | FAM  | 047                |   | FAM         | 047  |   | FAM         | 039                |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 361                                   |             | CW/CCW             | Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 361 |                    | CW/CCW  | Horário     | APLICAÇÃO<br>Application / Aplicación<br>Pg. 361 |   | CW/CCW      | Horário            |




| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 1518   | 1.01.1518.0   | 1521  | 1.01.1521.0   | 1523  | 1.01.1523.0   | 1526  | 1.01.1526.0   |
|--|---|---|---|---|---|---|---|
|  | T 9<br>G 25.8<br>L 62.5<br>SPL 12<br>ID 12<br>D 60<br>FAM 033<br>CW/CCW Horário |  | T 11<br>G 41.5<br>L 102<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 051<br>CW/CCW Horário |  | T 12<br>G 46.3<br>L 78.5<br>SPL 6<br>ID 15<br>D 60<br>FAM 046<br>CW/CCW Horário |  | T 11<br>G 34.5<br>L 92<br>SPL 12<br>ID 14.2<br>D 60<br>FAM 033<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 362                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 362                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 362                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 362                                    |   |

| 1532   | 1.01.1532.0   | 1533  | 1.01.1533.0  | 1534  | 1.01.1534.0  | 1538  | 1.01.1538.0   |
|--|---|---|--|---|--|---|---|
|  | T 8<br>G 28<br>L 61.5<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 117<br>CW/CCW Anti-horário |  | T 9<br>G 24.5<br>L 41.15<br>SPL 10<br>ID 11<br>D 46<br>FAM 089<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 75<br>SPL 10<br>ID 10<br>D 46<br>FAM 109<br>CW/CCW Anti-horário |  | T 10<br>G 33<br>L 64<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 362                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 362                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 362                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 363                                    |   |

| 1539   | 1.01.1539.0   | 1545  | 1.01.1545.0   | 1547  | 1.01.1547.0  | 1548  | 1.01.1548.0   |
|--|---|---|---|---|--|---|---|
|  | T 12<br>G 37.6<br>L 46.5<br>SPL 12<br>ID 12<br>D 45.3<br>FAM 115<br>CW/CCW Anti-horário |  | T 8<br>G 27.2<br>L 48<br>SPL 10<br>ID 11<br>D 47.4<br>FAM 074<br>CW/CCW Horário |  | T 11<br>G 35.4<br>L 47<br>SPL 10<br>ID 12<br>D 47.4<br>FAM 097<br>CW/CCW Horário |  | T 9<br>G 29.3<br>L 95.7<br>SPL -<br>CT 61<br>D -<br>FAM 125<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 363                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 363                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 363                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 363                                      |   |

| 1550   | 1.01.1550.0   | 1552  | 1.01.1552.0   | 1553  | 1.01.1553.0  | 1555  | 1.01.1555.0  |
|--|---|---|---|---|--|---|--|
|  | T 9<br>G 35.5<br>L 62<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 094<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 47<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 115<br>CW/CCW Horário |  | T 11<br>G 30<br>L 47<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 115<br>CW/CCW Horário |  | T 13<br>G 40.8<br>L 110.5<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 363                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 364                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 364                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 364                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





| 1556   | 1.01.1556.0   | 1557  | 1.01.1557.0   | 1561  | 1.01.1561.0   | 1562  | 1.01.1562.0   |
|--|---|---|---|---|---|---|---|
|  | T 11<br>G 34.8<br>L 38.5<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 117<br>CW/CCW Horário |  | T 13<br>G 33.3<br>L 38.5<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 117<br>CW/CCW Horário |  | T 9<br>G 25.4<br>L 47.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 58.5<br>SPL 10<br>ID 12<br>D 52.7<br>FAM 094<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 364                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 364                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 364                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 364                                    |   |





| 1563   | 1.01.1563.0  | 1566  | 1.01.1566.0   | 1567  | 1.01.1567.0  | 1570  | 1.01.1570.0   |
|--|--|---|---|---|--|---|---|
|  | T 20<br>G 14.7<br>L 91<br>SPL 5<br>ID -<br>D 54.5<br>FAM 128<br>CW/CCW Horário |  | T 10<br>G 28.2<br>L 110<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário |  | T 12<br>G 37.6<br>L 51<br>SPL 8<br>ID 13.01<br>D 46.5<br>FAM 112<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 44.5<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 115<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 365                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 365                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 365                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 365                                    |   |

| 1573   | 1.01.1573.0   | 1574  | 1.01.1574.0   | 1575  | 1.01.1575.0   | 1576  | 1.01.1576.0   |
|--|---|---|---|---|---|---|---|
|  | T 12<br>G 43.7<br>L 118<br>SPL 19<br>ID 15.9<br>D 58.4<br>FAM 051<br>CW/CCW Horário |  | T 11<br>G 41<br>L 85<br>SPL 12<br>ID 14.26<br>D 60<br>FAM 029<br>CW/CCW Horário |  | T 10<br>G 33.02<br>L 44.5<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 115<br>CW/CCW Horário |  | T 10<br>G 27.92<br>L 48<br>SPL 16<br>ID 11<br>D 47.4<br>FAM 074<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 365                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 365                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 365                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 365                                      |   |





| 1577   | 1.01.1577.0   | 1585  | 1.01.1585.0  | 1588  | 1.01.1588.0  | 1592  | 1.01.1592.0  |
|--|---|---|--|---|--|---|--|
|  | T 19<br>G 14.65<br>L 116.8<br>SPL 10<br>ID -<br>D 64.8<br>FAM 134<br>CW/CCW Horário |  | T 11<br>G 34.4<br>L 46.6<br>SPL 6<br>ID 12.06<br>D 45.3<br>FAM 115<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 65<br>SPL 12<br>ID 11.5<br>D 45.5<br>FAM 026<br>CW/CCW Anti-horário |  | T 9<br>G 29.64<br>L 73.8<br>SPL 8<br>ID 10.69<br>D 46.5<br>FAM 111<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 365                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 366                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 366                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 366                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 1594   | 1.01.1594.0   | 1595  | 1.01.1595.0   | 1596  | 1.01.1596.0  | 1597  | 1.01.1597.0  |
|--|---|---|---|---|--|---|--|
|  | T 11<br>G 42<br>L 91<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 015<br>CW/CCW Horário |  | T 10<br>G 40<br>L 80<br>SPL 6<br>ID 15<br>D 60<br>FAM 046<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 80<br>SPL 10<br>ID 14.01<br>D 60<br>FAM 046<br>CW/CCW Horário |  | T 10<br>G 26.82<br>L 47.95<br>SPL 16<br>ID 11<br>D 47.4<br>FAM 074<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 366                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 367                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 367                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 367                                    |  |

| 1600   | 1.01.1600.0   | 1601  | 1.01.1601.0   | 1602  | 1.01.1602.0   | 1603  | 1.01.1603.0   |
|--|---|---|---|---|---|---|---|
|  | T 10<br>G 40<br>L 82<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 027<br>CW/CCW Horário |  | T 11<br>G 34.8<br>L 102<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário |  | T 10<br>G 40<br>L 60.5<br>SPL 10<br>ID 14.06<br>D 60<br>FAM 046<br>CW/CCW Horário |  | T 12<br>G 46.3<br>L 76<br>SPL 6<br>ID 15<br>D 60<br>FAM 046<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 367                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 367                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 368                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 368                                    |   |





| 1604   | 1.01.1604.0   | 1605  | 1.01.1605.0  | 1607  | 1.01.1607.0  | 1608  | 1.01.1608.0   |
|--|---|---|--|---|--|---|---|
|  | T 10<br>G 32<br>L 77<br>SPL 6<br>ID 15<br>D 60<br>FAM 046<br>CW/CCW Horário |  | T 8<br>G 28.2<br>L 45.5<br>SPL 6<br>ID 12.06<br>D 43.5<br>FAM 034<br>CW/CCW Anti-horário |  | T 10<br>G 32.18<br>L 54.5<br>SPL 9<br>ID 12<br>D 54.5<br>FAM 085<br>CW/CCW Horário |  | T 9<br>G 36<br>L 92<br>SPL -<br>CT 41<br>D -<br>FAM 122<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 368                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 368                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 368                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 368                                      |   |




| 1612   | 1.01.1612.0  | 1613  | 1.01.1613.0   | 1614  | 1.01.1614.0   | 1615  | 1.01.1615.0   |
|--|--|---|---|---|---|---|---|
|  | T 11<br>G 34.4<br>L 44.5<br>SPL 12<br>ID 12<br>D 46.5<br>FAM 115<br>CW/CCW Horário |  | T 11<br>G 34.4<br>L 55<br>SPL 9<br>ID 12<br>D 46.6<br>FAM 117<br>CW/CCW Horário |  | T 10<br>G 27.5<br>L 47<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 132<br>CW/CCW Horário |  | T 10<br>G 39.5<br>L 68<br>SPL 10<br>ID 12.06<br>D 60<br>FAM 035<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 369                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 369                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 369                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 369                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





| 1616   | 1.01.1616.0  | 1617  | 1.01.1617.0  | 1618  | 1.01.1618.0  | 1619  | 1.01.1619.0   |
|--|--|---|--|---|--|---|---|
|  | T 10<br>G 39.5<br>L 77<br>SPL 10<br>ID 14.3<br>D 60<br>FAM 015 |  | T 11<br>G 34.4<br>L 55.5<br>SPL 9<br>ID 12.06<br>D 46.6<br>FAM 117 |  | T 10<br>G 32.18<br>L 45.5<br>SPL 10<br>ID 12.06<br>D 48.7<br>FAM 047 |  | T 9<br>G 25.8<br>L 48<br>SPL 16<br>ID 11<br>D 46.5<br>FAM 074 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 369                                 | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 370                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 370                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 370                                    | CW/CCW Horário  |

| 1620   | 1.01.1620.0   | 1621  | 1.01.1621.0  | 1622  | 1.01.1622.0  | 1623  | 1.01.1623.0   |
|--|---|---|--|---|--|---|---|
|  | T 8<br>G 28.2<br>L 64<br>SPL 6<br>ID 12.06<br>D 43.5<br>FAM 034 |  | T 13<br>G 46<br>L 55<br>SPL 9<br>ID 12.06<br>D 46.6<br>FAM 117 |  | T 10<br>G 40<br>L 74<br>SPL 10<br>ID 14.1<br>D 60<br>FAM 046 |  | T 10<br>G 32.1<br>L 77.5<br>SPL 10<br>ID 14.01<br>D 60<br>FAM 046 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 370                                 | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 370                                  | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 370                                  | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 371                                    | CW/CCW Horário  |

| 1624   | 1.01.1624.0  | 1629  | 1.01.1629.0  | 1630  | 1.01.1630.0   | 1631  | 1.01.1631.0  |
|--|--|---|--|---|---|---|--|
|  | T 9<br>G 34.8<br>L 76<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 094 |  | T 10<br>G 27.5<br>L 57.5<br>SPL 16<br>ID 12<br>D 52.5<br>FAM 094 |  | T 9<br>G 29<br>L 64<br>SPL 10<br>ID 12<br>D 54.5<br>FAM 130 |  | T 10<br>G 33<br>L 60<br>SPL 10<br>ID 12<br>D 53.5<br>FAM 094 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 371                                   | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 371                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 371                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 371                                      | CW/CCW Horário   |

| 1632   | 1.01.1632.0  | 1633  | 1.01.1633.0   | 1635  | 1.01.1635.0   | 1636  | 1.01.1636.0   |
|--|--|---|---|---|---|---|---|
|  | T 10<br>G 27.94<br>L 80.5<br>SPL 16<br>ID 14.24<br>D 46.5<br>FAM 062 |  | T 11<br>G 41<br>L 74<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 082 |  | T 9<br>G 37.18<br>L 60.9<br>SPL 10<br>ID 12.06<br>D 60<br>FAM 046 |  | T 9<br>G 34.8<br>L 55<br>SPL 9<br>ID 12.06<br>D 46.5<br>FAM 117 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 371                                   | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 372                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 372                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 372                                      | CW/CCW Horário  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





|  |             |                    |   |             |                    |   |             |                    |   |             |                    |
|--|-------------|--------------------|---|-------------|--------------------|---|-------------|--------------------|---|-------------|--------------------|
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 372</p> | <b>1637</b> | <b>1.01.1637.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 372</p> | <b>1638</b> | <b>1.01.1638.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 372</p> | <b>1641</b> | <b>1.01.1641.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 373</p> | <b>1642</b> | <b>1.01.1642.0</b> |
|  | T           | 10                 |   | T           | 9                  |   | T           | 9                  |   | T           | 12                 |
|  | G           | 40                 |   | G           | 34.8               |   | G           | 25.8               |   | G           | 38.8               |
|  | L           | 80                 |   | L           | 69.5               |   | L           | 48                 |   | L           | 56                 |
|  | SPL         | 10                 |   | SPL         | 10                 |   | SPL         | 10                 |   | SPL         | 10                 |
|  | ID          | 14.01              |   | ID          | 12                 |   | ID          | 11                 |   | ID          | 12.06              |
|  | D           | 60.4               |   | D           | 52.7               |   | D           | 45.7               |   | D           | 53.5               |
|  | FAM         | 046                |   | FAM         | 094                |   | FAM         | 074                |   | FAM         | 094                |
| CW/CCW   | Horário     | CW/CCW             | Horário   | CW/CCW      | Horário            | CW/CCW  | Horário     |                    |   |             |                    |





|  |             |                    |   |             |                    |   |             |                    |   |             |                    |
|--|-------------|--------------------|---|-------------|--------------------|---|-------------|--------------------|---|-------------|--------------------|
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 373</p> | <b>1643</b> | <b>1.01.1643.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 373</p> | <b>1646</b> | <b>1.01.1646.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 373</p> | <b>1647</b> | <b>1.01.1647.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 373</p> | <b>1648</b> | <b>1.01.1648.0</b> |
|  | T           | 9                  |   | T           | 12                 |   | T           | 10                 |   | T           | 12                 |
|  | G           | 29.64              |   | G           | 37.8               |   | G           | 32.1               |   | G           | 46.3               |
|  | L           | 58                 |   | L           | 47                 |   | L           | 117.5              |   | L           | 80.5               |
|  | SPL         | 16                 |   | SPL         | 12                 |   | SPL         | 6                  |   | SPL         | 6                  |
|  | ID          | 12                 |   | ID          | 12                 |   | ID          | -                  |   | ID          | 15                 |
|  | D           | 54.5               |   | D           | 46.5               |   | D           | 60                 |   | D           | 60                 |
|  | FAM         | 094                |   | FAM         | 115                |   | FAM         | 128                |   | FAM         | 046                |
| CW/CCW   | Horário     | CW/CCW             | Horário   | CW/CCW      | Horário            | CW/CCW  | Horário     |                    |   |             |                    |

|  |             |                    |   |             |                    |   |              |                    |   |             |                    |
|--|-------------|--------------------|---|-------------|--------------------|---|--------------|--------------------|---|-------------|--------------------|
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 373</p> | <b>1650</b> | <b>1.01.1650.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 374</p> | <b>1651</b> | <b>1.01.1651.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 374</p> | <b>1655</b>  | <b>1.01.1655.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 374</p> | <b>1656</b> | <b>1.01.1656.0</b> |
|  | T           | 9                  |   | T           | 9                  |   | T            | 10                 |   | T           | 9                  |
|  | G           | 36.3               |   | G           | 34.8               |   | G            | 27.94              |   | G           | 36.3               |
|  | L           | 55                 |   | L           | 80.5               |   | L            | 105.5              |   | L           | 37.5               |
|  | SPL         | 10                 |   | SPL         | 6                  |   | SPL          | 16                 |   | SPL         | 6                  |
|  | ID          | 12                 |   | ID          | 15                 |   | ID           | 12                 |   | ID          | 13.1               |
|  | D           | 54.5               |   | D           | 60                 |   | D            | 54.5               |   | D           | 39.5               |
|  | FAM         | 094                |   | FAM         | 094                |   | FAM          | 079                |   | FAM         | 042                |
| CW/CCW   | Horário     | CW/CCW             | Horário   | CW/CCW      | Anti-horário       | CW/CCW  | Anti-horário |                    |   |             |                    |





|  |             |                    |   |             |                    |   |              |                    |   |             |                    |
|--|-------------|--------------------|---|-------------|--------------------|---|--------------|--------------------|---|-------------|--------------------|
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 374</p> | <b>1658</b> | <b>1.01.1658.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 374</p> | <b>1661</b> | <b>1.01.1661.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 374</p> | <b>1666</b>  | <b>1.01.1666.0</b> |  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 375</p> | <b>1667</b> | <b>1.01.1667.0</b> |
|  | T           | 19                 |   | T           | 26                 |   | T            | 9                  |   | T           | 19                 |
|  | G           | 20.8               |   | G           | 19.02              |   | G            | 25.8               |   | G           | 14.65              |
|  | L           | 128                |   | L           | 133.5              |   | L            | 48.9               |   | L           | 126                |
|  | SPL         | 7                  |   | SPL         | 6                  |   | SPL          | 11                 |   | SPL         | 10                 |
|  | ID          | -                  |   | ID          | -                  |   | ID           | 10                 |   | ID          | -                  |
|  | D           | 72.2               |   | D           | 67.9               |   | D            | 46.6               |   | D           | 64.8               |
|  | FAM         | 076                |   | FAM         | 128                |   | FAM          | 075                |   | FAM         | 134                |
| CW/CCW   | Horário     | CW/CCW             | Horário   | CW/CCW      | Horário            | CW/CCW  | Anti-horário |                    |   |             |                    |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 1668   | 1.01.1668.0   | 1669  | 1.01.1669.0  | 1670  | 1.01.1670.0  | 1671  | 1.01.1671.0   |
|--|---|---|--|---|--|---|---|
|  | T 9<br>G 22<br>L 36.8<br>SPL 6<br>ID 9.7<br>D 40.7<br>FAM 042 |  | T 8<br>G 27<br>L 36.8<br>SPL 6<br>ID 12.2<br>D 40.7<br>FAM 042 |  | T 9<br>G 29.3<br>L 37.5<br>SPL 6<br>ID 12.2<br>D 39.5<br>FAM 042 |  | T 10<br>G 32.1<br>L 38<br>SPL 6<br>ID 12.2<br>D 43.1<br>FAM 060 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 375                                 | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 375                                  | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 375                                  | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 375                                    | CW/CCW Anti-horário   |

| 1672   | 1.01.1672.0  | 1673  | 1.01.1673.0  | 1674  | 1.01.1674.0   | 1675  | 1.01.1675.0  |
|--|--|---|--|---|---|---|--|
|  | T 9<br>G 36.3<br>L 38<br>SPL 6<br>ID 12.2<br>D 43.1<br>FAM 060 |  | T 10<br>G 32.1<br>L 37.5<br>SPL 6<br>ID 13.05<br>D 39.5<br>FAM 042 |  | T 8<br>G 23.5<br>L 48.9<br>SPL 11<br>ID 10<br>D 46.6<br>FAM 075 |  | T 10<br>G 32.95<br>L 58.5<br>SPL 10<br>ID 12.03<br>D 52.8<br>FAM 094 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 375                                 | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 375                                  | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 376                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 376                                    | CW/CCW Horário   |

| 1676   | 1.01.1676.0   | 1677  | 1.01.1677.0   | 1678  | 1.01.1678.0   | 1679  | 1.01.1679.0   |
|--|---|---|---|---|---|---|---|
|  | T 12<br>G 37.26<br>L 92.7<br>SPL -<br>CT 44<br>D -<br>FAM 122 |  | T 18<br>G 12.15<br>L 89.1<br>SPL 6<br>ID -<br>D 45.3<br>FAM 116 |  | T 10<br>G 40<br>L 81.8<br>SPL 10<br>ID 14.26<br>D 60.4<br>FAM 091 |  | T 21<br>G 16.5<br>L 131.3<br>SPL 7<br>ID -<br>D 60<br>FAM 128 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 376                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 376                                    | CW/CCW Anti-horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 376                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 377                                      | CW/CCW Horário  |

| 1680   | 1.01.1680.0   | 1681  | 1.01.1681.0  | 1682  | 1.01.1682.0   | 1684  | 1.01.1684.0   |
|--|---|---|--|---|---|---|---|
|  | T 10<br>G 27.94<br>L 75<br>SPL 8<br>ID 10.69<br>D 46.5<br>FAM 111 |  | T 12<br>G 32.28<br>L 51.9<br>SPL 8<br>ID 12<br>D 46.3<br>FAM 110 |  | T 9<br>G 36.8<br>L 100.4<br>SPL 10<br>ID 14.26<br>D 60.5<br>FAM 024 |  | T 10<br>G 32.6<br>L 80<br>SPL 10<br>ID 14.01<br>D 60.5<br>FAM 046 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 377                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 377                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 377                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 378                                      | CW/CCW Horário  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |



|  |              |  |                    |  |   |  |              |  |         |   |             |  |                    |  |   |             |  |                    |  |
|--|--------------|--|--------------------|--|---|--|--------------|--|---------|---|-------------|--|--------------------|--|---|-------------|--|--------------------|--|
|    | <b>1685</b>  |  | <b>1.01.1685.0</b> |  |    | <b>1686</b>                                      |              | <b>1.01.1686.0</b>                               |         |    | <b>1687</b> |  | <b>1.01.1687.0</b> |  |    | <b>1690</b> |  | <b>1.01.1690.0</b> |  |
|  | T            | 10   | T                  | 9  |   | T  | 30           | T  | 10      |   |             |  |                    |  |   |             |  |                    |  |
|  | G            | 27.94  | G                  | 24.5   |   | G  | 21.3         | G  | 40      |   |             |  |                    |  |   |             |  |                    |  |
|  | L            | 88   | L                  | 41.15  |   | L  | 93           | L  | 59.4    |   |             |  |                    |  |   |             |  |                    |  |
|  | SPL          | 16   | SPL                | 4  |   | SPL  | 8            | SPL  | 10      |   |             |  |                    |  |   |             |  |                    |  |
|  | ID           | 11   | ID                 | 10.12  |   | ID   | 10.74        | ID   | 12      |   |             |  |                    |  |   |             |  |                    |  |
|  | D            | 45.8   | D                  | 46.3   |   | D  | 46.5         | D  | 52.9    |   |             |  |                    |  |   |             |  |                    |  |
|  | FAM          | 062  | FAM                | 089  |   | FAM  | 114          | FAM  | 094     |   |             |  |                    |  |   |             |  |                    |  |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 378                                   |              | APLICAÇÃO<br>Application / Aplicación<br>Pg. 378 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 378 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 378 |              | APLICAÇÃO<br>Application / Aplicación<br>Pg. 378 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 378                                    |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 378 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 378 |   |             |  |                    |  |
| CW/CCW   | Anti-horário | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Horário      | CW/CCW   | Horário | CW/CCW  | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   |             |  |                    |  |
|    | <b>1691</b>  |  | <b>1.01.1691.0</b> |  |    | <b>1692</b>                                      |              | <b>1.01.1692.0</b>                               |         |    | <b>1693</b> |  | <b>1.01.1693.0</b> |  |    | <b>1695</b> |  | <b>1.01.1695.0</b> |  |
|  | T            | 10   | T                  | 10   |   | T  | 10           | T  | 8       |   |             |  |                    |  |   |             |  |                    |  |
|  | G            | 32   | G                  | 32   |   | G  | 40.4         | G  | 28.2    |   |             |  |                    |  |   |             |  |                    |  |
|  | L            | 69.5   | L                  | 55.2   |   | L  | 72.7         | L  | 50.7    |   |             |  |                    |  |   |             |  |                    |  |
|  | SPL          | 10   | SPL                | 9  |   | SPL  | 10           | SPL  | 8       |   |             |  |                    |  |   |             |  |                    |  |
|  | ID           | 12   | ID                 | 12   |   | ID   | 12.06        | ID   | 12.06   |   |             |  |                    |  |   |             |  |                    |  |
|  | D            | 52.5   | D                  | 54.5   |   | D  | 60.4         | D  | 45.2    |   |             |  |                    |  |   |             |  |                    |  |
|  | FAM          | 094  | FAM                | 085  |   | FAM  | 130          | FAM  | 110     |   |             |  |                    |  |   |             |  |                    |  |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 378                                   |              | APLICAÇÃO<br>Application / Aplicación<br>Pg. 379 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 379 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 379 |              | APLICAÇÃO<br>Application / Aplicación<br>Pg. 379 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 379                                    |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 379 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 379 |   |             |  |                    |  |
| CW/CCW   | Horário      | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Horário      | CW/CCW   | Horário | CW/CCW  | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   |             |  |                    |  |
|  | <b>1696</b>  |  | <b>1.01.1696.0</b> |  |  | <b>1697</b>                                      |              | <b>1.01.1697.0</b>                               |         |  | <b>1698</b> |  | <b>1.01.1698.0</b> |  |  | <b>1699</b> |  | <b>1.01.1699.0</b> |  |
|  | T            | 12   | T                  | 10   |   | T  | 11           | T  | 9       |   |             |  |                    |  |   |             |  |                    |  |
|  | G            | 31.8   | G                  | 32   |   | G  | 41           | G  | 34.8    |   |             |  |                    |  |   |             |  |                    |  |
|  | L            | 51.5   | L                  | 71   |   | L  | 81.8         | L  | 75.9    |   |             |  |                    |  |   |             |  |                    |  |
|  | SPL          | 10   | SPL                | 10   |   | SPL  | 10           | SPL  | 14      |   |             |  |                    |  |   |             |  |                    |  |
|  | ID           | 12   | ID                 | 12   |   | ID   | 14.26        | ID   | 14.26   |   |             |  |                    |  |   |             |  |                    |  |
|  | D            | 47.4   | D                  | 52.7   |   | D  | 60.4         | D  | 60.4    |   |             |  |                    |  |   |             |  |                    |  |
|  | FAM          | 094  | FAM                | 094  |   | FAM  | 091          | FAM  | 091     |   |             |  |                    |  |   |             |  |                    |  |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 379                                   |              | APLICAÇÃO<br>Application / Aplicación<br>Pg. 379 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 380 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 380 |              | APLICAÇÃO<br>Application / Aplicación<br>Pg. 380 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 380                                    |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 380 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 380 |   |             |  |                    |  |
| CW/CCW   | Horário      | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Horário      | CW/CCW   | Horário | CW/CCW  | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   |             |  |                    |  |
|  | <b>1700</b>  |  | <b>1.01.1700.0</b> |  |  | <b>1701</b>                                      |              | <b>1.01.1701.0</b>                               |         |  | <b>1702</b> |  | <b>1.01.1702.0</b> |  |  | <b>1704</b> |  | <b>1.01.1704.0</b> |  |
|  | T            | 10   | T                  | 10   |   | T  | 13           | T  | 8       |   |             |  |                    |  |   |             |  |                    |  |
|  | G            | 39.3   | G                  | 40   |   | G  | 40           | G  | 28      |   |             |  |                    |  |   |             |  |                    |  |
|  | L            | 75.6   | L                  | 85.6   |   | L  | 76.3         | L  | 55.8    |   |             |  |                    |  |   |             |  |                    |  |
|  | SPL          | 14   | SPL                | 14   |   | SPL  | 8            | SPL  | 4       |   |             |  |                    |  |   |             |  |                    |  |
|  | ID           | 14.26  | ID                 | 14.26  |   | ID   | 12           | ID   | 12      |   |             |  |                    |  |   |             |  |                    |  |
|  | D            | 60.4   | D                  | 60.4   |   | D  | 46.5         | D  | 46.7    |   |             |  |                    |  |   |             |  |                    |  |
|  | FAM          | 091  | FAM                | 091  |   | FAM  | 114          | FAM  | 034     |   |             |  |                    |  |   |             |  |                    |  |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 380                                   |              | APLICAÇÃO<br>Application / Aplicación<br>Pg. 381 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 381 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 381 |              | APLICAÇÃO<br>Application / Aplicación<br>Pg. 381 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 381                                    |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 381 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 381 |   |             |  |                    |  |
| CW/CCW   | Horário      | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Anti-horário | CW/CCW   | Horário | CW/CCW  | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   |             |  |                    |  |


| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |             |  |                    |  |   |  |         |  |         |   |             |  |                    |  |   |  |         |                    |         |
|--|-------------|--|--------------------|--|---|--|---------|--|---------|---|-------------|--|--------------------|--|---|--|---------|--------------------|---------|
|    | <b>1705</b> |  | <b>1.01.1705.0</b> |  |    | <b>1706</b>                                      |         | <b>1.01.1706.0</b>                               |         |    | <b>1707</b> |  | <b>1.01.1707.0</b> |  |    | <b>1708</b>                                      |         | <b>1.01.1708.0</b> |         |
|  | T           | 10   | T                  | 8  |   | T  | 10      | T  | 8       |   |             |  |                    |  |   |  |         |                    |         |
|  | G           | 27.5   | G                  | 28.2   |   | G  | 39.5    | G  | 26.8    |   |             |  |                    |  |   |  |         |                    |         |
|  | L           | 69.3   | L                  | 43   |   | L  | 89.6    | L  | 49      |   |             |  |                    |  |   |  |         |                    |         |
|  | SPL         | 9  | SPL                | 8  |   | SPL  | 12      | SPL  | 10      |   |             |  |                    |  |   |  |         |                    |         |
|  | ID          | 12   | ID                 | 12   |   | ID   | 14.26   | ID   | 12      |   |             |  |                    |  |   |  |         |                    |         |
|  | D           | 54.6   | D                  | 46.5   |   | D  | 60.4    | D  | 46.4    |   |             |  |                    |  |   |  |         |                    |         |
|  | FAM         | 085  | FAM                | 110  |   | FAM  | 039     | FAM  | 094     |   |             |  |                    |  |   |  |         |                    |         |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 381                                   |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 381 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 381 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382                                    |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |         |                    |         |
| CW/CCW   | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Horário | CW/CCW   | Horário | CW/CCW  | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Horário | CW/CCW             | Horário |
|    | <b>1709</b> |  | <b>1.01.1709.0</b> |  |    | <b>1711</b>                                      |         | <b>1.01.1711.0</b>                               |         |    | <b>1712</b> |  | <b>1.01.1712.0</b> |  |    | <b>1713</b>                                      |         | <b>1.01.1713.0</b> |         |
|  | T           | 10   | T                  | 9  |   | T  | 9       | T  | 13      |   |             |  |                    |  |   |  |         |                    |         |
|  | G           | 32   | G                  | 33.8   |   | G  | 25.8    | G  | 46      |   |             |  |                    |  |   |  |         |                    |         |
|  | L           | 75.9   | L                  | 87.2   |   | L  | 82.3    | L  | 54.9    |   |             |  |                    |  |   |  |         |                    |         |
|  | SPL         | 14   | SPL                | 6  |   | SPL  | 11      | SPL  | 9       |   |             |  |                    |  |   |  |         |                    |         |
|  | ID          | 14.26  | ID                 | 14.01  |   | ID   | 11      | ID   | 12.06   |   |             |  |                    |  |   |  |         |                    |         |
|  | D           | 60.4   | D                  | 60.5   |   | D  | 46.6    | D  | 46.6    |   |             |  |                    |  |   |  |         |                    |         |
|  | FAM         | 091  | FAM                | 020  |   | FAM  | 138     | FAM  | 117     |   |             |  |                    |  |   |  |         |                    |         |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 382                                   |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382                                    |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |         |                    |         |
| CW/CCW   | Horário     | CW/CCW   | Horário            | CW/CCW   | Anti-horário  | CW/CCW   | Horário | CW/CCW   | Horário | CW/CCW  | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Horário | CW/CCW             | Horário |
|  | <b>1714</b> |  | <b>1.01.1714.0</b> |  |  | <b>1715</b>                                      |         | <b>1.01.1715.0</b>                               |         |  | <b>1716</b> |  | <b>1.01.1716.0</b> |  |  | <b>1717</b>                                      |         | <b>1.01.1717.0</b> |         |
|  | T           | 11   | T                  | 9  |   | T  | 10      | T  | 10      |   |             |  |                    |  |   |  |         |                    |         |
|  | G           | 36   | G                  | 25.8   |   | G  | 39.67   | G  | 27.5    |   |             |  |                    |  |   |  |         |                    |         |
|  | L           | 46.7   | L                  | 52   |   | L  | 51.5    | L  | 51.5    |   |             |  |                    |  |   |  |         |                    |         |
|  | SPL         | 12   | SPL                | 12   |   | SPL  | 8       | SPL  | 8       |   |             |  |                    |  |   |  |         |                    |         |
|  | ID          | 12   | ID                 | 12.06  |   | ID   | 12      | ID   | 12      |   |             |  |                    |  |   |  |         |                    |         |
|  | D           | 45.4   | D                  | 43.5   |   | D  | 46.5    | D  | 46.5    |   |             |  |                    |  |   |  |         |                    |         |
|  | FAM         | 115  | FAM                | 047  |   | FAM  | 112     | FAM  | 112     |   |             |  |                    |  |   |  |         |                    |         |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 382                                   |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 382 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383                                    |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |         |                    |         |
| CW/CCW   | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Horário | CW/CCW   | Horário | CW/CCW  | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Horário | CW/CCW             | Horário |
|  | <b>1718</b> |  | <b>1.01.1718.0</b> |  |  | <b>1719</b>                                      |         | <b>1.01.1719.0</b>                               |         |  | <b>1720</b> |  | <b>1.01.1720.0</b> |  |  | <b>1722</b>                                      |         | <b>1.01.1722.0</b> |         |
|  | T           | 11   | T                  | 10   |   | T  | 9       | T  | 18      |   |             |  |                    |  |   |  |         |                    |         |
|  | G           | 35.4   | G                  | 40   |   | G  | 29.64   | G  | 12.7    |   |             |  |                    |  |   |  |         |                    |         |
|  | L           | 50.5   | L                  | 74.9   |   | L  | 47.9    | L  | 102     |   |             |  |                    |  |   |  |         |                    |         |
|  | SPL         | 10   | SPL                | 6  |   | SPL  | 10      | SPL  | -       |   |             |  |                    |  |   |  |         |                    |         |
|  | ID          | 12.06  | ID                 | 15   |   | ID   | 11      | ID   | 40      |   |             |  |                    |  |   |  |         |                    |         |
|  | D           | 48.9   | D                  | 59.5   |   | D  | 45.8    | D  | -       |   |             |  |                    |  |   |  |         |                    |         |
|  | FAM         | 047  | FAM                | 046  |   | FAM  | 075     | FAM  | 124     |   |             |  |                    |  |   |  |         |                    |         |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 383                                   |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |         | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383                                    |             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 383 |         |                    |         |
| CW/CCW   | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Horário | CW/CCW   | Horário | CW/CCW  | Horário     | CW/CCW   | Horário            | CW/CCW   | Horário   | CW/CCW   | Horário | CW/CCW             | Horário |



| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

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|--|--|---|--|---|---|---|--|
| <b>1723</b>  | <b>1.01.1723.0</b>   | <b>1725</b>   | <b>1.01.1725.0</b>   | <b>1726</b>   | <b>1.01.1726.0</b>  | <b>1727</b>   | <b>1.01.1727.0</b>   |
|  | T 18<br>G 12.7<br>L 102<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Anti-horário |  | T 8<br>G 28<br>L 61.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Anti-horário |  | T 11<br>G 41<br>L 80.4<br>SPL 6<br>ID 15<br>D 59.5<br>FAM 046<br>CW/CCW Horário |  | T 10<br>G 31.8<br>L 56<br>SPL 8<br>ID 12.06<br>D 46.5<br>FAM 047<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 384                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 384                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 384                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 384                                    |  |

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|--|--|---|--|---|--|---|--|
| <b>1729</b>  | <b>1.01.1729.0</b>   | <b>1731</b>   | <b>1.01.1731.0</b>   | <b>1733</b>   | <b>1.01.1733.0</b>   | <b>1734</b>   | <b>1.01.1734.0</b>   |
|  | T 11<br>G 39.67<br>L 80<br>SPL 10<br>ID 14.01<br>D 60.5<br>FAM 046<br>CW/CCW Horário |  | T 9<br>G 36.5<br>L 89<br>SPL 12<br>ID 17.03<br>D 60.5<br>FAM 039<br>CW/CCW Horário |  | T 11<br>G 39.67<br>L 74<br>SPL 10<br>ID 14.01<br>D 60.5<br>FAM 046<br>CW/CCW Horário |  | T 9<br>G 29.6<br>L 64.2<br>SPL 5<br>ID 11<br>D 43.7<br>FAM 034<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 384                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 385                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 385                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 385                                    |  |

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|--|--|---|--|---|---|---|--|
| <b>1735</b>  | <b>1.01.1735.0</b>   | <b>1736</b>   | <b>1.01.1736.0</b>   | <b>1740</b>   | <b>1.01.1740.0</b>  | <b>1741</b>   | <b>1.01.1741.0</b>   |
|  | T 8<br>G 23.92<br>L 41.2<br>SPL 4<br>ID 10.12<br>D 46.8<br>FAM 089<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 59.4<br>SPL 10<br>ID 12.03<br>D 53<br>FAM 094<br>CW/CCW Horário |  | T 12<br>G 31.8<br>L 47.95<br>SPL 10<br>ID 11<br>D 48.7<br>FAM 074<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 80.4<br>SPL 11<br>ID 11<br>D 46.6<br>FAM 138<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 385                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 385                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 385                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 385                                      |  |





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| <b>1743</b>  | <b>1.01.1743.0</b>  | <b>1744</b>   | <b>1.01.1744.0</b>  | <b>1745</b>   | <b>1.01.1745.0</b>   | <b>1751</b>   | <b>1.01.1751.0</b>  |
|  | T 10<br>G 39<br>L 82.9<br>SPL 10<br>ID 14.26<br>D 59.5<br>FAM 094<br>CW/CCW Horário |  | T 11<br>G 39.67<br>L 62<br>SPL 5<br>ID 12.51<br>D 46.6<br>FAM 047<br>CW/CCW Horário |  | T 9<br>G 25.8<br>L 40.5<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 117<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 82.2<br>SPL 6<br>ID 14.15<br>D 60.4<br>FAM 091<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 386                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 386                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 386                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 386                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 1752   | 1.01.1752.0  | 1753  | 1.01.1753.0   | 1754  | 1.01.1754.0   | 1755  | 1.01.1755.0  |
|--|--|---|---|---|---|---|--|
|  | T 9<br>G 25.82<br>L 45.5<br>SPL 10<br>ID 12<br>D 48.9<br>FAM 047<br>CW/CCW Horário |  | T 11<br>G 39.67<br>L 55.4<br>SPL 3<br>ID 12.65<br>D 46.5<br>FAM 016<br>CW/CCW Horário |  | T 10<br>G 31.8<br>L 115.5<br>SPL 14<br>ID 12<br>D 59.5<br>FAM 091<br>CW/CCW Horário |  | T 9<br>G 25.82<br>L 41.15<br>SPL 4<br>ID 10.1<br>D 46.3<br>FAM 089<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 386                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 387                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 387                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 387                                    |  |

| 1756   | 1.01.1756.0   | 1757  | 1.01.1757.0  | 1758  | 1.01.1758.0  | 1759  | 1.01.1759.0  |
|--|---|---|--|---|--|---|--|
|  | T 10<br>G 28.15<br>L 45.5<br>SPL 10<br>ID 12<br>D 48.9<br>FAM 047<br>CW/CCW Horário |  | T 11<br>G 30<br>L 48<br>SPL 10<br>ID 11<br>D 47.4<br>FAM 074<br>CW/CCW Horário |  | T 11<br>G 29.38<br>L 45<br>SPL 8<br>ID 12<br>D 48.9<br>FAM 047<br>CW/CCW Horário |  | T 9<br>G 29.6<br>L 75<br>SPL 5<br>ID 11<br>D 41.5<br>FAM 050<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 387                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 387                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 387                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 388                                    |  |

| 1761   | 1.01.1761.0  | 1762  | 1.01.1762.0   | 1763  | 1.01.1763.0   | 1764  | 1.01.1764.0   |
|--|--|---|---|---|---|---|---|
|  | T 10<br>G 27.94<br>L 51<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 44<br>SPL 10<br>ID 12.5<br>D 46.5<br>FAM 117<br>CW/CCW Horário |  | T 9<br>G 25.82<br>L 41.15<br>SPL 5<br>ID 11.02<br>D 46.3<br>FAM 089<br>CW/CCW Horário |  | T 11<br>G 34.5<br>L 51<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 388                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 388                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 388                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 388                                      |   |

| 1765   | 1.01.1765.0  | 1766  | 1.01.1766.0  | 1767  | 1.01.1767.0  | 1768  | 1.01.1768.0  |
|--|--|---|--|---|--|---|--|
|  | T 9<br>G 29.87<br>L 45.8<br>SPL 10<br>ID 12<br>D 48.9<br>FAM 047<br>CW/CCW Horário |  | T -<br>G -<br>L 52<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário |  | T -<br>G -<br>L 66<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário |  | T 12<br>G 37.8<br>L 87.15<br>SPL 4<br>ID 10<br>D 48.9<br>FAM 109<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 388                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 389                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 389                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 389                                      |  |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 1769   | 1.01.1769.0   | 1770  | 1.01.1770.0   | 1771  | 1.01.1771.0  | 1772  | 1.01.1772.0  |
|--|---|---|---|---|--|---|--|
|  | T 23<br>G 17.5<br>L 106.8<br>SPL 6<br>ID -<br>D 60<br>FAM 109<br>CW/CCW Horário |  | T 11<br>G 34.8<br>L 40.1<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário |  | T 8<br>G 28.2<br>L 51<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário |  | T 10<br>G 39.67<br>L 76<br>SPL 10<br>ID 14.29<br>D 59.5<br>FAM 094<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 389                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 389                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 389                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 389                                    |  |

| 1774   | 1.01.1774.0   | 1775  | 1.01.1775.0  | 1776  | 1.01.1776.0   | 1777  | 1.01.1777.0  |
|--|---|---|--|---|---|---|--|
|  | T 13<br>G 34<br>L 51.7<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 112<br>CW/CCW Horário |  | T 8<br>G 28.2<br>L 43.6<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 117<br>CW/CCW Horário |  | T 9<br>G 28<br>L 45.15<br>SPL 8<br>ID 12<br>D 48.9<br>FAM 047<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 55.8<br>SPL 8<br>ID 12<br>D 45.5<br>FAM 047<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 390                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 390                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 390                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 390                                    |  |

| 1778   | 1.01.1778.0  | 1779  | 1.01.1779.0  | 1780  | 1.01.1780.0   | 1781  | 1.01.1781.0  |
|--|--|---|--|---|---|---|--|
|  | T 8<br>G 28.2<br>L 55.8<br>SPL 8<br>ID 12<br>D 45.5<br>FAM 047<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 38.6<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 117<br>CW/CCW Horário |  | T 10<br>G 39.15<br>L 95.3<br>SPL -<br>CT 41<br>D -<br>FAM 122<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 48.2<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 117<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 390                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 390                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 390                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 391                                      |  |

| 1784   | 1.01.1784.0  | 1785  | 1.01.1785.0  | 1786  | 1.01.1786.0  | 1787  | 1.01.1787.0  |
|--|--|---|--|---|--|---|--|
|  | T 10<br>G 37.8<br>L 89<br>SPL 6<br>ID 15.01<br>D 60<br>FAM 020<br>CW/CCW Horário |  | T 12<br>G 46.4<br>L 89<br>SPL 6<br>ID 15.01<br>D 60<br>FAM 020<br>CW/CCW Horário |  | T 9<br>G 34.8<br>L 76<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 094<br>CW/CCW Horário |  | T 9<br>G 29.6<br>L 43.3<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 117<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 391                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 391                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 391                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 391                                      |  |



| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |   |   |  |   |   |   |   |
|--|---|---|--|---|---|---|---|
| <b>1788</b>  | <b>1.01.1788.0</b>  | <b>1790</b>   | <b>1.01.1790.0</b>   | <b>1791</b>   | <b>1.01.1791.0</b>  | <b>1794</b>   | <b>1.01.1794.0</b>  |
|    | T 11<br>G 35<br>L 43.3<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 117<br>CW/CCW Horário       |    | T 9<br>G 36.3<br>L 49.5<br>SPL 10<br>ID 12.1<br>D 50.5<br>FAM 094<br>CW/CCW Horário      |    | T 10<br>G 28.15<br>L 44.2<br>SPL 4<br>ID 10.12<br>D 46.4<br>FAM 089<br>CW/CCW Horário |    | T 11<br>G 34.8<br>L 48.3<br>SPL 6<br>ID 12<br>D 46.1<br>FAM 132<br>CW/CCW Horário   |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 391                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 391                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 392                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 392                                      |   |
| <b>1796</b>  | <b>1.01.1796.0</b>  | <b>1797</b>   | <b>1.01.1797.0</b>   | <b>1799</b>   | <b>1.01.1799.0</b>  | <b>1800</b>   | <b>1.01.1800.0</b>  |
|    | T 9<br>G 34.1<br>L 38.6<br>SPL 10<br>ID 12.51<br>D 46.5<br>FAM 117<br>CW/CCW Horário  |    | T 8<br>G 28.2<br>L 60<br>SPL 12<br>ID 12.06<br>D 43.5<br>FAM 047<br>CW/CCW Anti-horário  |    | T 10<br>G 32<br>L 45<br>SPL 8<br>ID 12<br>D 46.6<br>FAM 110<br>CW/CCW Horário         |    | T 8<br>G 28.2<br>L 48.5<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 047<br>CW/CCW Horário    |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 392                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 392                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 392                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 392                                      |   |
| <b>1801</b>  | <b>1.01.1801.0</b>  | <b>1803</b>   | <b>1.01.1803.0</b>   | <b>1805</b>   | <b>1.01.1805.0</b>  | <b>1806</b>   | <b>1.01.1806.0</b>  |
|  | T 8<br>G 23.46<br>L 43.8<br>SPL 12<br>ID 10.69<br>D 45.3<br>FAM 034<br>CW/CCW Horário |  | T 13<br>G 34.65<br>L 97.85<br>SPL 16<br>ID -<br>D 45.8<br>FAM 141<br>CW/CCW Anti-horário |  | T 21<br>G 16.5<br>L 131.3<br>SPL 6<br>ID -<br>D 60<br>FAM 128<br>CW/CCW Horário       |  | T 19<br>G 20.8<br>L 130<br>SPL 7<br>ID -<br>D 72.2<br>FAM 076<br>CW/CCW Horário     |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 392                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 393                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 393                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 393                                      |   |
| <b>1807</b>  | <b>1.01.1807.0</b>  | <b>1808</b>   | <b>1.01.1808.0</b>   | <b>1809</b>   | <b>1.01.1809.0</b>  | <b>1810</b>   | <b>1.01.1810.0</b>  |
|  | T 12<br>G 39<br>L 63<br>SPL 8<br>ID 13.01<br>D 46.5<br>FAM 112<br>CW/CCW Horário      |  | T 26<br>G 19.02<br>L 140.2<br>SPL 6<br>ID -<br>D 71.9<br>FAM 128<br>CW/CCW Horário       |  | T 23<br>G 17.5<br>L 144.2<br>SPL 6<br>ID 13.01<br>D 69.5<br>FAM 142<br>CW/CCW Horário |  | T 28<br>G 20.1<br>L 148<br>SPL 6<br>ID 13.01<br>D 71.9<br>FAM 142<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 394                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 394                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 394                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 394                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |





|  |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|
| <b>1811</b>  | <b>1.01.1811.0</b>  | <b>1812</b>   | <b>1.01.1812.0</b>  | <b>1813</b>   | <b>1.01.1813.0</b>  | <b>1815</b>   | <b>1.01.1815.0</b>  |
|  | T 23<br>G 17.5<br>L 144.2<br>SPL 6<br>ID 13.01<br>D 71.9<br>FAM 142<br>CW/CCW Horário |  | T 11<br>G 29.38<br>L 45<br>SPL 10<br>ID 12<br>D 48.9<br>FAM 047<br>CW/CCW Horário |  | T 9<br>G 29.64<br>L 43.5<br>SPL 10<br>ID 11.02<br>D 45.9<br>FAM 143<br>CW/CCW Horário |  | T 9<br>G 36.3<br>L 53.7<br>SPL 10<br>ID 12<br>D 52.7<br>FAM 094<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 395                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 395                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 395                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 395                                    |   |

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|--|--|---|--|---|---|---|---|
| <b>1816</b>  | <b>1.01.1816.0</b>   | <b>1818</b>   | <b>1.01.1818.0</b>   | <b>1819</b>   | <b>1.01.1819.0</b>  | <b>1820</b>   | <b>1.01.01820.0</b>   |
|  | T 9<br>G 34.1<br>L 43.5<br>SPL 10<br>ID 11.08<br>D 45.9<br>FAM 143<br>CW/CCW Horário |  | T 9<br>G 35.5<br>L 76.4<br>SPL 12<br>ID 14.01<br>D 59.2<br>FAM 020<br>CW/CCW Horário |  | T 10<br>G 32<br>L 98.2<br>SPL 11<br>ID 14.01<br>D 59.2<br>FAM 020<br>CW/CCW Horário |  | T 10<br>G 26.82<br>L 57.8<br>SPL 12<br>ID 12<br>D 45.3<br>FAM 115<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 396                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 396                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 396                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 396                                    |   |

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|--|--|---|--|---|---|---|--|
| <b>1822</b>  | <b>1.01.1822.0</b>   | <b>1823</b>   | <b>1.01.1823.0</b>   | <b>1824</b>   | <b>1.01.1824.0</b>  | <b>1825</b>   | <b>1.01.1825.0</b>   |
|  | T 11<br>G 29.3<br>L 51<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 086<br>CW/CCW Horário |  | T 10<br>G 27.94<br>L 91.4<br>SPL 16<br>ID 11<br>D 50.1<br>FAM 138<br>CW/CCW Anti-horário |  | T 13<br>G 34.65<br>L 87.3<br>SPL 4<br>ID 10<br>D 48.9<br>FAM 109<br>CW/CCW Anti-horário |  | T 8<br>G 27.6<br>L 41.15<br>SPL 4<br>ID 10.12<br>D 46.3<br>FAM 089<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 396                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 396                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 396                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 397                                      |  |

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|--|---|---|---|---|--|---|---|
| <b>1826</b>  | <b>1.01.1826.0</b>  | <b>1827</b>   | <b>1.01.1827.0</b>  | <b>1828</b>   | <b>1.01.1828.0</b>   | <b>1829</b>   | <b>1.01.1829.0</b>  |
|  | T 13<br>G 34.4<br>L 98<br>SPL 16<br>ID 11<br>D 50.7<br>FAM 141<br>CW/CCW Anti-horário |  | T 11<br>G 40<br>L 146.3<br>SPL -<br>CT 35<br>D -<br>FAM 144<br>CW/CCW Horário |  | T -<br>G -<br>L 91.9<br>SPL -<br>CT 35<br>D -<br>FAM 144<br>CW/CCW Horário |  | T 13<br>G 39.5<br>L 146.3<br>SPL -<br>CT 35<br>D -<br>FAM 144<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 397                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 397                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 398                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 399                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estriás<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 1830   | 1.01.1830.0   | 1831  | 1.01.1831.0   | 1837  | 1.01.1837.0   | 1838  | 1.01.1838.0   |
|--|---|---|---|---|---|---|---|
|  | T 12<br>G 44.9<br>L 146.3<br>SPL -<br>CT 35<br>D -<br>FAM 144 |  | T 10<br>G 40<br>L 146.3<br>SPL -<br>CT 35<br>D -<br>FAM 144 |  | T 10<br>G 40<br>L 164.6<br>SPL 6<br>ID -<br>D 59.5<br>FAM 128 |  | T 10<br>G 32.18<br>L 45.5<br>SPL 8<br>ID 12.06<br>D 48.7<br>FAM 047 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 399                                 | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 399                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 399                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 399                                    | CW/CCW Horário  |

| 1839   | 1.01.1839.0   | 1840  | 1.01.1840.0   | 1841  | 1.01.1841.0   | 1845  | 1.01.1845.0  |
|--|---|---|---|---|---|---|--|
|  | T 8<br>G 28.2<br>L 51.5<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 047 |  | T 9<br>G 36.3<br>L 60.9<br>SPL 12<br>ID 12.1<br>D 46.6<br>FAM 047 |  | T 10<br>G 32<br>L 43.5<br>SPL 10<br>ID 11.02<br>D 45.9<br>FAM 143 |  | T 10<br>G 40<br>L 49.6<br>SPL 10<br>ID 12<br>D 53.5<br>FAM 094 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 399                                 | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 400                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 400                                  | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 400                                    | CW/CCW Horário   |

| 1846   | 1.01.1846.0   | 1847  | 1.01.1847.0  | 1848  | 1.01.1848.0   | 1849  | 1.01.1849.0  |
|--|---|---|--|---|---|---|--|
|  | T 10<br>G 40.8<br>L 110<br>SPL -<br>CT 40<br>D -<br>FAM 124 |  | T 8<br>G 28.2<br>L 40<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 117 |  | T 9<br>G 25.8<br>L 55.1<br>SPL 10<br>ID 12<br>D 46.5<br>FAM 089 |  | T 9<br>G 29.64<br>L 110.7<br>SPL -<br>ID -<br>D -<br>FAM 123 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 400                                   | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 400                                    | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 400                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 400                                      | CW/CCW Horário   |

| 1853   | 1.01.1853.0  | 1854  | 1.01.1854.0   | 1856  | 1.01.1856.0  | 1857  | 1.01.1857.0  |
|--|--|---|---|---|--|---|--|
|  | T 20<br>G 14.7<br>L 138.2<br>SPL 10<br>ID -<br>D 65<br>FAM 134 |  | T 10<br>G 39.5<br>L 89.6<br>SPL 10<br>ID 14.26<br>D 60.4<br>FAM 039 |  | T 11<br>G 27.5<br>L 90.8<br>SPL 16<br>ID 11<br>D 50.1<br>FAM 138 |  | T 9<br>G 35.5<br>L 50.8<br>SPL 10<br>ID 12.06<br>D 46.5<br>FAM 047 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 401                                   | CW/CCW Horário   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 401                                    | CW/CCW Horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 401                                    | CW/CCW Anti-horário  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 401                                      | CW/CCW Horário   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | Ø Externo (mm)<br>Pinon O.D.<br>Piñon - Ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - Ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | Ø da Capa (mm)<br>Drive O.D.<br>Ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |  |   |  |   |  |   |   |
|--|--|---|--|---|--|---|---|
| <b>1858</b>  | <b>1.01.1858.0</b>   | <b>1860</b>   | <b>1.01.1860.0</b>   | <b>1861</b>   | <b>1.01.1861.0</b>   | <b>1862</b>   | <b>1.01.1862.0</b>  |
|    | T 9<br>G 36<br>L 100<br>SPL -<br>CT 41<br>D -<br>FAM 122<br>CW/CCW Horário           |    | T 9<br>G 29.6<br>L 87<br>SPL -<br>CT 41<br>D -<br>FAM 122<br>CW/CCW Anti-horário     |    | T 9<br>G 33<br>L 95.3<br>SPL -<br>CT 41<br>D -<br>FAM 145<br>CW/CCW Horário            |    | T 9<br>G 36<br>L 95.3<br>SPL -<br>CT 41<br>D -<br>FAM 145<br>CW/CCW Horário               |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 401                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 401                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 402                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 402                                      |   |
| <b>1863</b>  | <b>1.01.1863.0</b>   | <b>1864</b>   | <b>1.01.1864.0</b>   | <b>1865</b>   | <b>1.01.1865.0</b>   | <b>1866</b>   | <b>1.01.1866.0</b>  |
|    | T 9<br>G 29.64<br>L 83<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário         |    | T 9<br>G 29.64<br>L 110.5<br>SPL -<br>CT 40<br>D -<br>FAM 124<br>CW/CCW Horário      |    | T 11<br>G 40.5<br>L 103.3<br>SPL -<br>CT 41<br>D -<br>FAM 145<br>CW/CCW Anti-horário   |    | T 12<br>G 46.3<br>L 118<br>SPL 19<br>ID 19.08<br>D 58.4<br>FAM 051<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 402                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 402                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 402                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 402                                      |   |
| <b>1871</b>  | <b>1.01.1871.0</b>   | <b>1872</b>   | <b>1.01.1872.0</b>   | <b>1873</b>   | <b>1.01.1873.0</b>   | <b>1874</b>   | <b>1.01.1874.0</b>  |
|  | T 11<br>G 34.4<br>L 46.9<br>SPL 6<br>ID 12.06<br>D 45.5<br>FAM 115<br>CW/CCW Horário |  | T 11<br>G 35.4<br>L 46.9<br>SPL 8<br>ID 12.06<br>D 48.7<br>FAM 047<br>CW/CCW Horário |  | T 8<br>G 28.2<br>L 60.1<br>SPL 10<br>ID 12<br>D 44.7<br>FAM 047<br>CW/CCW Anti-horário |  | T 12<br>G 38.8<br>L 56.2<br>SPL 10<br>ID 12<br>D 50.9<br>FAM 094<br>CW/CCW Horário        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 403                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 403                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 403                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 403                                      |   |
| <b>1875</b>  | <b>1.01.1875.0</b>   | <b>1876</b>   | <b>1.01.1876.0</b>   | <b>1878</b>   | <b>1.01.1878.0</b>   | <b>1879</b>   | <b>1.01.1879.0</b>  |
|  | T 9<br>G 29.6<br>L 85.7<br>SPL -<br>ID -<br>D 45.3<br>FAM 139<br>CW/CCW Horário      |  | T 11<br>G 34.5<br>L 42.5<br>SPL 8<br>ID 12<br>D 46.5<br>FAM 110<br>CW/CCW Horário    |  | T 11<br>G 43.5<br>L 83<br>SPL 10<br>ID 14.26<br>D 60<br>FAM 094<br>CW/CCW Horário      |  | T 11<br>G 29.7<br>L 85.7<br>SPL -<br>ID -<br>D 45.3<br>FAM 139<br>CW/CCW Horário          |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 403                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 403                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 404                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 404                                      |   |

| T  | G   | L   | SPL   | ID   | CT   | D   | FAM                          | CW/CCW   |
|--|---|---|---|--|--|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | ø da Bucha (mm)<br>Pinon I.D.<br>Pinón - ø Interna | Nº Dentes Coroa<br># Barrel Gear Teeth<br># Dientes de la Corona | ø da Capa (mm)<br>Drive O.D.<br>ø Externa | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|
| <b>1880</b>  | 1.01.1880.0   | <b>1881</b>   | 1.01.1881.0   | <b>1882</b>   | 1.01.1882.0   | <b>1883</b>   |   |
|    | T 10<br>G 31.8<br>L 64<br>SPL 6<br>ID 12<br>D 43.5<br>FAM 047<br>CW/CCW Anti-horário        |    | T 12<br>G 37.18<br>L 80.4<br>SPL 6<br>ID 15<br>D 60<br>FAM 046<br>CW/CCW Horário          |    | T 9<br>G 25.8<br>L 49<br>SPL 10<br>ID 12<br>D 53.5<br>FAM 094<br>CW/CCW Horário       |    | T 9<br>G 36<br>L 100<br>SPL -<br>CT 41<br>D -<br>FAM 145<br>CW/CCW Horário          |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 404                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 404                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 404                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 404                                      |   |
| <b>1884</b>  |   | <b>1885</b>   |   | <b>1886</b>   |   | <b>1887</b>   |   |
|    | T 11<br>G 39<br>L 50.5<br>SPL 10<br>ID 12<br>D 49<br>FAM 047<br>CW/CCW Horário              |    | T 9<br>G 29.5<br>L 75<br>SPL 5<br>ID 11.02<br>D 41.5<br>FAM 147<br>CW/CCW Anti-horário    |    | T 10<br>G 27.5<br>L 50.6<br>SPL 6<br>ID 12.06<br>D 46.5<br>FAM 132<br>CW/CCW Horário  |    | T 9<br>G 29.64<br>L 50<br>SPL 10<br>ID 11.02<br>D 45.9<br>FAM 143<br>CW/CCW Horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 405                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 405                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 405                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 405                                      |   |
| <b>1890</b>  |   | <b>1891</b>   |   | <b>1893</b>   |   | <b>1895</b>   |   |
|  | T 10<br>G 28.36<br>L 81.8<br>SPL 10<br>ID 12.06<br>D 48.7<br>FAM 149<br>CW/CCW Anti-horário |  | T 10<br>G 28.36<br>L 89<br>SPL 10<br>ID 12.06<br>D 48.7<br>FAM 149<br>CW/CCW Anti-horário |  | T 11<br>G 29.35<br>L 81<br>SPL 4<br>ID 12<br>D 49.8<br>FAM 109<br>CW/CCW Anti-horário |  | T 8<br>G 24.7<br>L 75<br>SPL 5<br>ID 11<br>D 41.5<br>FAM 050<br>CW/CCW Anti-horário |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 405                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 405                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 406                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 406                                      |   |
| <b>10003</b>   | 1.01.0952.1   |   |   |   |   |   |   |
|  | T 9<br>G 25.82<br>L 47<br>SPL 6<br>ID 12<br>D 46.5<br>FAM 132<br>CW/CCW Horário             |   |   |   |   |   |   |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 406                                   |   |   |   |   |   |   |   |







| T  | G   | L   | FAM                          | CW/CCW   |
|--|---|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Piñon | ∅ Externo (mm)<br>Pinon O.D.<br>Piñon - ∅ Externa | Comprimento Total (mm)<br>Length<br>Largo | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

|  |   |   |  |   |   |  |   |  |  |   |   |
|--|---|---|--|---|---|--|---|--|--|---|---|
| <b>0032</b>                                      |  | T: 9<br>G: 29.64<br>L: 72<br>SPL: -<br>FAM: 061 | <b>0035</b>                                      |  | T: 9<br>G: 34.8<br>L: 120<br>SPL: -<br>FAM: 053 | <b>0036</b>                                      |  | T: 11<br>G: 41<br>L: 120<br>SPL: -<br>FAM: 053 | <b>0078</b>                                      |  | T: 13<br>G: 47<br>L: 61.1<br>SPL: -<br>FAM: 054 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 407 |   | CW/CCW Anti-horário                             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 407 |   | CW/CCW Horário                                  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 407 |   | CW/CCW Horário                                 | APLICAÇÃO<br>Application / Aplicación<br>Pg. 407 |   | CW/CCW Horário                                  |


|  |   |   |  |   |   |  |   |   |  |   |   |
|--|---|---|--|---|---|--|---|---|--|---|---|
| <b>0087</b>                                      |  | T: 11<br>G: 41<br>L: 61.1<br>SPL: -<br>FAM: 054 | <b>0088</b>                                      |  | T: 11<br>G: 56<br>L: 61.1<br>SPL: -<br>FAM: 054 | <b>0089</b>                                      |  | T: 12<br>G: 46.3<br>L: 61.1<br>SPL: -<br>FAM: 054 | <b>0170</b>                                      |  | T: 9<br>G: 29.64<br>L: 58<br>SPL: 4<br>FAM: 064 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 408 |   | CW/CCW Horário                                  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 408 |   | CW/CCW Horário                                  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 408 |   | CW/CCW Horário                                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 409 |   | CW/CCW Anti-horário                             |




|  |   |   |  |   |  |  |   |  |  |   |  |
|--|---|---|--|---|--|--|---|--|--|---|--|
| <b>0171</b>                                      |  | T: 9<br>G: 29.64<br>L: 58<br>SPL: -<br>FAM: 063 | <b>0218</b>                                      |  | T: 9<br>G: 34.8<br>L: 61.1<br>SPL: -<br>FAM: 054 | <b>0280</b>                                      |  | T: 10<br>G: 29.64<br>L: 58<br>SPL: 4<br>FAM: 064 | <b>0380</b>                                      |  | T: 10<br>G: 29.64<br>L: 58<br>SPL: -<br>FAM: 063 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 409 |   | CW/CCW Anti-horário                             | APLICAÇÃO<br>Application / Aplicación<br>Pg. 409 |   | CW/CCW Horário                                   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 409 |   | CW/CCW Anti-horário                              | APLICAÇÃO<br>Application / Aplicación<br>Pg. 409 |   | CW/CCW Anti-horário                              |





|  |   |  |  |   |   |  |   |   |  |   |   |
|--|---|--|--|---|---|--|---|---|--|---|---|
| <b>1111</b>                                      |  | T: 9<br>G: 34.8<br>L: 75<br>SPL: -<br>FAM: 054 | <b>1181</b>                                      |  | T: 11<br>G: 42.4<br>L: 61.1<br>SPL: -<br>FAM: 054 | <b>1216</b>                                      |  | T: 9<br>G: 29.64<br>L: 66<br>SPL: -<br>FAM: 061 | <b>9028</b>                                      |  | T: 12<br>G: 46.3<br>L: 44.9<br>SPL: -<br>FAM: 401 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 410 |   | CW/CCW Horário                                 | APLICAÇÃO<br>Application / Aplicación<br>Pg. 410 |   | CW/CCW Horário                                    | APLICAÇÃO<br>Application / Aplicación<br>Pg. 410 |   | CW/CCW Horário                                  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 410 |   | CW/CCW Horário                                    |

| T  | G   | L   | FAM                          | CW/CCW   |
|--|---|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Piñon | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |


| 9074   |                | 9186  |                | 9260  |                | 9301  |                |
|--|----------------|---|----------------|---|----------------|---|----------------|
|  | T 11           |  | T 9            |  | T 9            |  | T 11           |
|  | G 56.7         |   | G 29.64        |   | G 33           |   | G 40           |
|  | L 44.9         |   | L 25.2         |   | L 23.5         |   | L 36           |
|  | SPL -          |   | SPL 18         |   | SPL 18         |   | SPL 16         |
|  | FAM 401        |   | FAM 410        |   | FAM 408        |   | FAM 402        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 410                                 | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 410                                  | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 411                                  | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 411                                    | CW/CCW Horário |





| 9302   |                | 9307  |                | 9349  |                | 9350  |                |
|--|----------------|---|----------------|---|----------------|---|----------------|
|  | T 13           |  | T 11           |  | T 10           |  | T 9            |
|  | G 39.5         |   | G 29.3         |   | G 33           |   | G 29.3         |
|  | L 36           |   | L 25           |   | L 25.2         |   | L 41           |
|  | SPL 16         |   | SPL 18         |   | SPL 18         |   | SPL 18         |
|  | FAM 402        |   | FAM 410        |   | FAM 410        |   | FAM 403        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 411                                 | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 412                                  | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 412                                  | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 412                                    | CW/CCW Horário |




| 9402   |                | 9403  |                | 9426  |                | 9459  |                |
|--|----------------|---|----------------|---|----------------|---|----------------|
|  | T 10           |  | T 9            |  | T 11           |  | T 11           |
|  | G 40           |   | G 35.5         |   | G 34.8         |   | G 34.4         |
|  | L 36           |   | L 36           |   | L 19           |   | L 40           |
|  | SPL 16         |   | SPL 16         |   | SPL 18         |   | SPL 16         |
|  | FAM 402        |   | FAM 402        |   | FAM 409        |   | FAM 402        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 412                                   | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 412                                    | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 412                                    | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 413                                      | CW/CCW Horário |





| 9488   |                | 9492  |                | 9495  |                | 9502  |                     |
|--|----------------|---|----------------|---|----------------|---|---------------------|
|  | T 9            |  | T 10           |  | T 11           |  | T 13                |
|  | G 29.6         |   | G 28.2         |   | G 34.8         |   | G 40.8              |
|  | L 87           |   | L 25           |   | L 17.5         |   | L 24.5              |
|  | SPL 10         |   | SPL 18         |   | SPL 18         |   | SPL 18              |
|  | FAM 406        |   | FAM 410        |   | FAM 409        |   | FAM 408             |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 413                                   | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 413                                    | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 413                                    | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 413                                      | CW/CCW Anti-horário |

| T  | G   | L   | FAM                          | CW/CCW   |
|--|---|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Piñon | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 9504   |                | 9506  |                     | 9525  |                     | 9526  |                |
|--|----------------|---|---------------------|---|---------------------|---|----------------|
|  | T 9            |  | T 13                |  | T 8                 |  | T 9            |
|  | G 29.64        |   | G 40.8              |   | G 28                |   | G 33           |
|  | L 25.2         |   | L 23.5              |   | L 94                |   | L 87           |
|  | SPL 18         |   | SPL 18              |   | SPL 10              |   | SPL 10         |
|  | FAM 410        |   | FAM 407             |   | FAM 406             |   | FAM 406        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 413                                 | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 414                                  | CW/CCW Anti-horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 414                                  | CW/CCW Anti-horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 414                                    | CW/CCW Horário |





| 9527   |                | 9528  |                | 9542  |                | 9566  |                |
|--|----------------|---|----------------|---|----------------|---|----------------|
|  | T 9            |  | T 8            |  | T 9            |  | T 9            |
|  | G 36           |   | G 28           |   | G 29.64        |   | G 25.9         |
|  | L 87           |   | L 87           |   | L 25.2         |   | L 87           |
|  | SPL 10         |   | SPL 10         |   | SPL 18         |   | SPL 10         |
|  | FAM 406        |   | FAM 406        |   | FAM 410        |   | FAM 406        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 414                                 | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 414                                  | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 414                                  | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 414                                    | CW/CCW Horário |

| 9597   |                | 9632  |                | 9678  |                | 9702  |                |
|--|----------------|---|----------------|---|----------------|---|----------------|
|  | T 12           |  | T 11           |  | T 10           |  | T 9            |
|  | G 37.18        |   | G 33.8         |   | G 37.8         |   | G 25.9         |
|  | L 17.7         |   | L 23.5         |   | L 25.2         |   | L 87           |
|  | SPL 20         |   | SPL 18         |   | SPL 18         |   | SPL 10         |
|  | FAM 407        |   | FAM 408        |   | FAM 410        |   | FAM 406        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 415                                   | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 415                                    | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 415                                    | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 415                                      | CW/CCW Horário |





| 9705   |                | 9781  |                | 9791  |                | 10048   |                |
|--|----------------|---|----------------|---|----------------|---|----------------|
|  | T 12           |  | T 10           |  | T 13           |  | T 10           |
|  | G 32           |   | G 27.94        |   | G 51.1         |   | G 40.8         |
|  | L 14.9         |   | L 14.9         |   | L 18.2         |   | L 23.5         |
|  | SPL 18         |   | SPL 18         |   | SPL 20         |   | SPL 18         |
|  | FAM 404        |   | FAM 404        |   | FAM 407        |   | FAM 408        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 415                                   | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 416                                    | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 416                                    | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 416                                      | CW/CCW Horário |

| T  | G   | L   | FAM                          | CW/CCW   |
|--|---|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Piñon | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 10049  |   | 12609   |  | 12656   |  | 12657   |   |
|--|---|---|--|---|--|---|---|
|  | T 9<br>G 29.64<br>L 25.2<br>SPL 18<br>FAM 410 |  | T 11<br>G 41.99<br>L 23.5<br>SPL 18<br>FAM 408 |  | T 9<br>G 35.5<br>L 18.2<br>SPL 19<br>FAM 407 |  | T 11<br>G 41<br>L 23<br>SPL 20<br>FAM 408 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 416                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 416                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 416                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 416                                    |   |
| CW/CCW   | Horário                                       | CW/CCW  | Horário  | CW/CCW  | Horário                                      | CW/CCW  | Horário                                   |

| 12658  |  | 12659   |  | 12660   |   | 12812   |   |
|--|--|---|--|---|---|---|---|
|  | T 9<br>G 35.5<br>L 17.7<br>SPL 20<br>FAM 407 |  | T 9<br>G 35.5<br>L 17.7<br>SPL 20<br>FAM 407 |  | T 10<br>G 38.8<br>L 18.2<br>SPL 20<br>FAM 407 |  | T 10<br>G 32.6<br>L 20.2<br>SPL 20<br>FAM 407 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 417                                 |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 417                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 417                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 417                                    |   |
| CW/CCW   | Horário                                      | CW/CCW  | Horário                                      | CW/CCW  | Horário                                       | CW/CCW  | Horário                                       |

| 12839  |   | 12913   |   | 12954   |   | 12955   |   |
|--|---|---|---|---|---|---|---|
|  | T 12<br>G 44.9<br>L 23.2<br>SPL 19<br>FAM 404 |  | T 9<br>G 29.5<br>L 46.4<br>SPL -<br>FAM 411 |  | T 11<br>G 40.4<br>L 34.5<br>SPL 21<br>FAM 402 |  | T 10<br>G 32<br>L 34.5<br>SPL 21<br>FAM 402 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 417                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 418                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 418                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 418                                      |   |
| CW/CCW   | Horário                                       | CW/CCW  | Horário                                     | CW/CCW  | Horário                                       | CW/CCW  | Horário                                     |

| 12956  |   | 12957   |   | 12961   |  | 12967   |   |
|--|---|---|---|---|--|---|---|
|  | T 10<br>G 37.8<br>L 34.5<br>SPL 21<br>FAM 402 |  | T 10<br>G 40<br>L 34.5<br>SPL 21<br>FAM 402 |  | T 9<br>G 36<br>L 34.5<br>SPL 21<br>FAM 402 |  | T 12<br>G 43.7<br>L 32.1<br>SPL 26<br>FAM 407 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 418                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 418                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 418                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 418                                      |   |
| CW/CCW   | Horário                                       | CW/CCW  | Horário                                     | CW/CCW  | Horário                                    | CW/CCW  | Horário                                       |

| T  | G   | L   | FAM                          | CW/CCW   |
|--|---|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Piñon | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 12972  |   | 13017   |   | 13018   |                                       | 13021   |   |
|--|---|---|---|---|---------------------------------------|---|---|
|  | T 12<br>G 47<br>L 32.2<br>SPL 26<br>FAM 407 |  | T 11<br>G 33.8<br>L 18.8<br>SPL 18<br>FAM 409 |  | T -<br>G -<br>L -<br>SPL -<br>FAM 425 |  | T 11<br>G 35.4<br>L 18.2<br>SPL 19<br>FAM 407 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 419                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 419                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 419                                  |                                       | APLICAÇÃO<br>Application / Aplicación<br>Pg. 419                                    |   |
| CW/CCW Horário   |   | CW/CCW Horário  |   | CW/CCW -  |                                       | CW/CCW Anti-horário   |   |




| 13104  |   | 13105   |  | 13106   |   | 13117   |   |
|--|---|---|--|---|---|---|---|
|  | T 11<br>G 56.7<br>L 103.9<br>SPL 7<br>FAM 417 |  | T 12<br>G 46.53<br>L 103.9<br>SPL 7<br>FAM 417 |  | T 12<br>G 43.8<br>L 103.9<br>SPL 7<br>FAM 407 |  | T 11<br>G 56.7<br>L 27<br>SPL 28<br>FAM 409 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 419                                 |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 419                                  |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 419                                  |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 420                                    |   |
| CW/CCW Horário   |   | CW/CCW Horário  |  | CW/CCW Horário  |   | CW/CCW Horário  |   |

| 13118  |  | 13119   |   | 13130   |  | 13131   |   |
|--|--|---|---|---|--|---|---|
|  | T 12<br>G 46.53<br>L 27<br>SPL 28<br>FAM 409 |  | T 12<br>G 43.7<br>L 27<br>SPL 28<br>FAM 409 |  | T 12<br>G 46.36<br>L 26<br>SPL 23<br>FAM 409 |  | T 11<br>G 56.7<br>L 26<br>SPL 23<br>FAM 407 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 420                                   |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 420                                    |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 420                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 420                                      |   |
| CW/CCW Horário   |  | CW/CCW Horário  |   | CW/CCW Horário  |  | CW/CCW Horário  |   |





| 13132  |   | 13138   |  | 13224   |  | 13268   |  |
|--|---|---|--|---|--|---|--|
|  | T 12<br>G 43.7<br>L 26<br>SPL 23<br>FAM 407 |  | T 10<br>G 39.67<br>L 26<br>SPL 23<br>FAM 407 |  | T 9<br>G 36<br>L 92.2<br>SPL 11<br>FAM 406 |  | T 22<br>G 51.5<br>L 44.5<br>SPL -<br>FAM 420 |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 421                                   |   | APLICAÇÃO<br>Application / Aplicación<br>Pg. 421                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 421                                    |  | APLICAÇÃO<br>Application / Aplicación<br>Pg. 421                                      |  |
| CW/CCW Horário   |   | CW/CCW Horário  |  | CW/CCW Horário  |  | CW/CCW Horário  |  |

| T  | G   | L   | FAM                          | CW/CCW   |
|--|---|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 13272   |                | 13273   |                | 13274   |                | 13275   |                |
|---|----------------|---|----------------|---|----------------|---|----------------|
|  | T 9            |  | T 9            |  | T 11           |  | T 9            |
|   | G 25.8         |   | G 25.8         |   | G 30           |   | G 25.82        |
|   | L 38.4         |   | L 36.4         |   | L 30.4         |   | L 30.4         |
|   | SPL -          |   | SPL -          |   | SPL -          |   | SPL -          |
|   | FAM 405        |   | FAM 405        |   | FAM 405        |   | FAM 405        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 421                                  | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 421                                  | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 421                                  | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 421                                    | CW/CCW Horário |

| 13332  |                | 13333   |                | 13336   |                |
|--|----------------|---|----------------|---|----------------|
|  | T 11           |  | T 9            |  | T 10           |
|  | G 36           |   | G 25.8         |   | G 27.94        |
|  | L 34.2         |   | L 23.1         |   | L 33.7         |
|  | SPL -          |   | SPL -          |   | SPL -          |
|  | FAM 405        |   | FAM 411        |   | FAM 421        |
| APLICAÇÃO<br>Application / Aplicación<br>Pg. 422                                 | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. 422                                  | CW/CCW Horário | APLICAÇÃO<br>Application / Aplicación<br>Pg. -                                    | CW/CCW Horário |

| T  | G   | L   | SPL   | FAM                          | CW/CCW   |
|--|---|---|---|------------------------------|--|
| Nº de Dentes<br># Of Pinon Teeth<br># De Los Dientes Del Pinón | ø Externo (mm)<br>Pinon O.D.<br>Piñon - ø Externa | Comprimento Total (mm)<br>Length<br>Largo | Nº de Estrias<br># Of Splines<br># De Estriás | Família<br>Family<br>Familia | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

| 0121  | 1.01.0121.0 | 0122 | 1.01.0122.0 | 0201 | 1.01.0201.0 | 0204 | 1.01.0204.0 |     |
|---|-------------|------|-------------|------|-------------|------|-------------|-----|
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 423</p>    | T           | -    | T           | -    | T           | -    | T           | -   |
|   | G           | -    | G           | -    | G           | -    | G           | -   |
|   | L           | -    | L           | -    | L           | -    | L           | -   |
|   | SPL         | -    | SPL         | -    | SPL         | -    | SPL         | -   |
|   | FAM         | 057  | FAM         | 059  | FAM         | 066  | FAM         | 056 |
|   | CW/CCW      | -    | CW/CCW      | -    | CW/CCW      | -    | CW/CCW      | -   |
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 423</p>   | T           | -    | T           | -    | T           | -    | T           | -   |
|   | G           | -    | G           | -    | G           | -    | G           | -   |
|   | L           | -    | L           | -    | L           | -    | L           | -   |
|   | SPL         | -    | SPL         | -    | SPL         | -    | SPL         | -   |
|   | FAM         | 057  | FAM         | 059  | FAM         | 066  | FAM         | 056 |
|   | CW/CCW      | -    | CW/CCW      | -    | CW/CCW      | -    | CW/CCW      | -   |
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 423</p>   | T           | -    | T           | -    | T           | -    | T           | -   |
|   | G           | -    | G           | -    | G           | -    | G           | -   |
|   | L           | -    | L           | -    | L           | -    | L           | -   |
|   | SPL         | -    | SPL         | -    | SPL         | -    | SPL         | -   |
|   | FAM         | 066  | FAM         | 066  | FAM         | 066  | FAM         | 056 |
|   | CW/CCW      | -    | CW/CCW      | -    | CW/CCW      | -    | CW/CCW      | -   |
|  <p>APLICAÇÃO<br/>Application / Aplicación<br/>Pg. 423</p> | T           | -    | T           | -    | T           | -    | T           | -   |
|   | G           | -    | G           | -    | G           | -    | G           | -   |
|   | L           | -    | L           | -    | L           | -    | L           | -   |
|   | SPL         | -    | SPL         | -    | SPL         | -    | SPL         | -   |
|   | FAM         | 056  | FAM         | 056  | FAM         | 056  | FAM         | 056 |
|   | CW/CCW      | -    | CW/CCW      | -    | CW/CCW      | -    | CW/CCW      | -   |

| A   | B  | D                          | d   | SPL  | CW/CCW   |
|---|--|----------------------------|---|--|--|
| Comprimento Livre do Eixo<br>Shaft Free Length<br>Largo Libre del Eje | Comprimento Eixo até Canal<br>Shaft Length up to the Chanel<br>Largo del Eje Hasta Canal | ∅ Eixo<br>∅ Shaft<br>∅ Eje | ∅ Bucha Eixo<br>∅ Shaft Bushing<br>∅ Buje Eje | Nº Estrías Engrenagem<br>Nr. Splines<br>Nº Estrías | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

**12675**



|        |         |
|--------|---------|
| A      | 98.7    |
| B      | 17.3    |
| D      | 13.96   |
| d      | 8.04    |
| SPL    | 10      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 424

**12681**



|        |         |
|--------|---------|
| A      | 97.3    |
| B      | 19.5    |
| D      | 11.96   |
| d      | 8.04    |
| SPL    | 10      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 424

**12682**



|        |         |
|--------|---------|
| A      | 98.7    |
| B      | 17.3    |
| D      | 11.96   |
| d      | 8.04    |
| SPL    | 10      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 424

**12683**



|        |         |
|--------|---------|
| A      | 92.1    |
| B      | 21.3    |
| D      | 11.96   |
| d      | 8.04    |
| SPL    | 10      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 424

**12684**



|        |         |
|--------|---------|
| A      | 119.7   |
| B      | 16.3    |
| D      | 13.96   |
| d      | 8.04    |
| SPL    | 10      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 424

**12685**



|        |              |
|--------|--------------|
| A      | 115.8        |
| B      | 21.5         |
| D      | 11.96        |
| d      | 8.04         |
| SPL    | 10           |
| CW/CCW | Anti-horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 425

**12686**



|        |         |
|--------|---------|
| A      | 119.7   |
| B      | 19      |
| D      | 11.96   |
| d      | 8.04    |
| SPL    | 10      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 425

**12687**



|        |              |
|--------|--------------|
| A      | 136.2        |
| B      | 19.3         |
| D      | 11.96        |
| d      | 8.04         |
| SPL    | 10           |
| CW/CCW | Anti-horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 425

**12688**



|        |         |
|--------|---------|
| A      | 126.7   |
| B      | 23.3    |
| D      | 13.96   |
| d      | 8.04    |
| SPL    | 10      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 425

**12689**



|        |         |
|--------|---------|
| A      | 94.7    |
| B      | 20.9    |
| D      | 11.96   |
| d      | 8.04    |
| SPL    | 10      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 425

**12690**



|        |              |
|--------|--------------|
| A      | 92.1         |
| B      | 20.1         |
| D      | 11.96        |
| d      | 8.04         |
| SPL    | 10           |
| CW/CCW | Anti-horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 425

**12692**



|        |         |
|--------|---------|
| A      | 119.7   |
| B      | 18.8    |
| D      | 13.96   |
| d      | 8.04    |
| SPL    | 10      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 426

**12717**



|        |         |
|--------|---------|
| A      | 80      |
| B      | 15.8    |
| D      | 11.96   |
| d      | 7.06    |
| SPL    | 12      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 426

**12720**



|        |         |
|--------|---------|
| A      | 79      |
| B      | 15      |
| D      | 11.94   |
| d      | 8.04    |
| SPL    | 12      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 426

**12841**



|        |         |
|--------|---------|
| A      | 80.8    |
| B      | 2.5     |
| D      | 14.2    |
| d      | 8.04    |
| SPL    | 16      |
| CW/CCW | Horário |

APLICAÇÃO  
Application / Aplicación  
Pg. 426

**12693**




|        |   |
|--------|---|
| A      | - |
| B      | - |
| D      | - |
| d      | - |
| SPL    | - |
| CW/CCW | - |

APLICAÇÃO  
Application / Aplicación  
Pg. 426



| A   | B  | D                          | d   | SPL  | CW/CCW   |
|---|--|----------------------------|---|--|--|
| Comprimento Livre do Eixo<br>Shaft Free Length<br>Largo Libre del Eje | Comprimento Eixo até Canal<br>Shaft Length up to the Chanel<br>Largo del Eje Hasta Canal | ∅ Eixo<br>∅ Shaft<br>∅ Eje | ∅ Bucha Eixo<br>∅ Shaft Bushing<br>∅ Buje Eje | Nº Estrías Engrenagem<br>Nr. Splines<br>Nº Estrías | Horário/Anti Horário<br>Clockwise/Counter Clockwise<br>Horario/Antihorario |

**12694**



|        |   |
|--------|---|
| A      | - |
| B      | - |
| D      | - |
| d      | - |
| SPL    | - |
| CW/CCW | - |

APLICAÇÃO  
Application / Aplicación  
Pg. 427


**12695**



|        |   |
|--------|---|
| A      | - |
| B      | - |
| D      | - |
| d      | - |
| SPL    | - |
| CW/CCW | - |

APLICAÇÃO  
Application / Aplicación  
Pg. 427

**12718**



|        |   |
|--------|---|
| A      | - |
| B      | - |
| D      | - |
| d      | - |
| SPL    | - |
| CW/CCW | - |

APLICAÇÃO  
Application / Aplicación  
Pg. 427

**12719**



|        |   |
|--------|---|
| A      | - |
| B      | - |
| D      | - |
| d      | - |
| SPL    | - |
| CW/CCW | - |

APLICAÇÃO  
Application / Aplicación  
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**12721**



|        |   |
|--------|---|
| A      | - |
| B      | - |
| D      | - |
| d      | - |
| SPL    | - |
| CW/CCW | - |

APLICAÇÃO  
Application / Aplicación  
Pg. 427


**12722**



|        |   |
|--------|---|
| A      | - |
| B      | - |
| D      | - |
| d      | - |
| SPL    | - |
| CW/CCW | - |

APLICAÇÃO  
Application / Aplicación  
Pg. 427

**12786**



|        |   |
|--------|---|
| A      | - |
| B      | - |
| D      | - |
| d      | - |
| SPL    | - |
| CW/CCW | - |

APLICAÇÃO  
Application / Aplicación  
Pg. 428

0001

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Ford: F100 | F350 | F600 | Galaxie ...05/1970 | Landau ...05/1970

## MOTOR

Wapsa: MPF6 | MPF7 | MALF2 | MALF3 | MALW2 | MALW3 | MALW12 | MALW14

## EQUIVALENTE / Equivalent

Wapsa: 224001

0005

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Willys: Aero Willys ...05/1970 | Itamaraty ...05/1970 | Jeep ...05/1970 | Pick Up ...05/1970 | Rural ...05/1970

## EQUIVALENTE / Equivalent

Wapsa: 224001

0006

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Volkswagen: Fusca 1200 | Fusca 1300 | Fusca Sedan 1.2 | Karmann Ghia | Kombi 1.2

## MOTOR

Bosch: 0001205005 | 0001205012 | 0001205016 | 9000082000

## EQUIVALENTE / Equivalent

Bosch: 9001082421 - Lucas Indiel: 223101 - Volkswagen: 111911335B

0010

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Pick Up C10 1964... | Pick Up C14 1964... | Pick Up C15 1964...

## EQUIVALENTE / Equivalent

Bosch: 1987BE0125 - Lester: 3639 | 3690 | 4238 - Lucas: TDB070 - Lucas Indiel: 221710 - Remy: 07363070 - Wapsa: 224034

0013

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: C20 | Pick Up Apache - Opel: Ascona | Blitz | Kadett B, C | Manta | Rekord B, C

## MOTOR

Remy: 1107208 | 1107223 | 1107270 | 1107272 | 1107279 | 1107354 | 1107389 | 1107397 | 1107398 | 1107641 | 1107652 | 1107653 | 1107655 | 1107657 | 1107661 | 1107665 | 1107668

## EQUIVALENTE / Equivalent

Chrysler: DR1900 - Lester: 3630 | 3637 | 3639 | 3643 | 3690 | 4150 | 4161 | 4222 | 4238 | 4247 - Lucas Indiel: 223137 - Remy: D2003 | D2028 | 1932185 | 1932188 | 1939506 | 1974355 - Ww: 480466

0015

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: JK2000 | JK2150 - Audi: 1000 - BMW: 2600 | 2600L | 3200 | 3200CS | 503 - Ford: 12 M | 15 M | 17 M | Maverick 6 Cil | Transit 1.0 1250cc | Transit 1000 - Mercedes Benz: 108B | 190B - Opel: Blitz 1.9 | Kapitan P | Rekord PII - Puma: Puma GT Malzoni - Volvo: 121 1958...1964 | 122 1958...1964

## MOTOR

Bosch: NN9 | 0001201009 | 0001201010 | 0001203008 | 0001203024 | 0001203025 | 0001203026 | 0001205017 | 0001304002 | 0001304012 | 0001304013 | 0001305008 | 0001352003 | 9000082001 | 9000082015

## EQUIVALENTE / Equivalent

Bosch: 1006208030 | 1006208036 | 1006209010 | 1006209011 | 1006209013 | 1006209015 | 1006209016 | 1006209123 | 1006209124 | 1006209901 | 1006209903 | 9001082014 | 9001082016 | 9001082423 | 9001082429 | F000AL1876 - Lester: 16313 | 16314 | 16320 | 16345 | 16346 - Lucas Indiel: 223138 - Volkswagen: 80415

0020

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: 400 | Buick | C20 | Opala 4 e 6 cil | Silverado gasolina - Willys: Jeep 1969...1971

## MOTOR

Remy: 1107163 | 1107219 | 1107233 | 1107237 | 1107242 | 1107248 | 1107259 | 1107260 | 1107266 | 1107273 | 1107274 | 1107286 | 1107289 | 1107293 | 1107294 | 1107298 | 1107299 | 1107301 | 1107302 | 1107303 | 1107306 | 1107307 | 1107313 | 1107314 | 1107315 | 1107316 | 1107317 | 1107320 | 1107321 | 1107330 | 1107331 | 1107336 | 1107340 | 1107342 | 1107345 | 1107346 | 1107347 | 1107349 | 1107352 | 1107353 | 1107355 | 1107360 | 1107361 | 1107363 | 1107365 | 1107367 | 1107368 | 1107369 | 1107370 | 1107371 | 1107372 | 1107373 | 1107374 | 1107889

## EQUIVALENTE / Equivalent

Bosch: 1987BE0000 - Chrysler: DR1902 | DR1905 - Lester: 3503 | 3504 | 3505 | 3507 | 3508 | 3510 | 3524 | 3525 | 3533 | 3535 | 3546 | 3550 | 3551 | 3552 | 3553 | 3554 | 3557 | 3560 | 3561 | 3563 | 3564 | 3565 | 3568 | 3569 | 3571 | 3627 | 3629 | 3631 | 3633 | 3635 | 3649 | 3666 | 3674 | 3686 | 3689 | 3691 | 3696 | 3733 | 3800 | 3838 | 4038 | 4208 | 4247 | 4253 | 4263 | 4347 | 4724 | 6303 | 6311 | 6375 | 3508M | 3510M - Lucas Indiel: 223102 - Remy: D2008 | D2014 | D2020 | D2049 | 1108481 | 1875687 | 1935827 | 1935829 | 1945842 | 1947727 | 1954842 | 1954867 | 1965538 | 1965723 | 1965923 | 10456422

0022

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Clark: Empilhadeira CFY40 Willys 6 cil ...1977 | Empilhadeira CFY50 Willys 6 cil ...1977

## MOTOR

Wapsa: MPC1 | MAL11 | MALBD1 | MALBD2

## EQUIVALENTE / Equivalent

Lucas Indiel: 223140 - Wapsa: 224002

0024

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Case: 580/E/CK (Perkins) Perkins | Pá Carregadeira W7 com motor Perkins 6 cil | Retroescavadeira 580 Perkins 4 cil | Retroescavadeira 580CK Perkins 4cil | Retroescavadeira 580E Perkins 4 cil | Retroescavadeira 580H - CBT: Trator 1000 Perkins 4 e 6 cil | Trator 1090 Perkins 4 e 6 cil | Trator 1100 Perkins 4 e 6 cil | Trator 8240 Perkins 4236 - Chrysler: Dodge D400 Perkins 4 cil - Clark: Empilhadeira 135 | Empilhadeira 155 | Empilhadeira 50 | Empilhadeira 60 | Empilhadeira C-300 | Empilhadeira C-500 | Empilhadeira HY 40 | Empilhadeira Y110 | Pá Carregadeira Michigan 75A | Pá Carregadeira Michigan 75II | Pá Carregadeira Michigan 75III | PK4236 Pick Up - Ford: 4600 | 5600 | 6600 4 cil | F11000 Perkins 6 cil | F12000 Perkins 6 cil Diesel | F13000 Perkins 6 cil Diesel | F2000 Ford 4 cil | F4000 Ford 4 cil | General Motors/Chevrolet: D20 1991... | Especial/Special com motor Perkins 6 cil | Pick Up Perkins 4 cil - Massey Ferguson: MF220 | MF235 | MF250 | MF275 | MF285 | MF290 | MF290 RA Perkins 4236 | MF296 | MF3366 | MF400 | MF50X | MF55X | MF65R | MF65X | MF85X | MF95I | MF95X 11/1971...08/1977 | New Holland: 4600 motor diesel 4 cil | 4610 motor diesel 4 cil | 5600 motor diesel 4 cil | 5610 motor diesel 4 cil | 6600 motor diesel 4 cil | 6610 motor diesel 4 cil | 7610 motor diesel 4 cil - Perkins: 248 Trator CBT 8240 01/1984... | 4236 A Trator MF 275, 275/4 04/1976... | A6.358 Trator Ideal 9110 08/1989... | GM, Ford, Dodge, CBT, Case Motor 4 e 6 cil | Motor Industrial 3152, 4203, 4236 | Motor Industrial 6354.4, 6358 | Trator 283, 290/4 | Trator 290, 290/4 | Trator 292, 292 turbo | Trator 9130, 9150, 9170 | Trator MF 283 | Trator MF 296/4, 296, 400 04/1976... - Volkswagen: 6.80 com motor Perkins

## MOTOR

Bosch: 9000453001 | 9000453004 | 9000453005 | 9000453006 | 9000453009 | 9000453011 | 9000453014 | 9000453015 | 9000453016 | 9000453017 | 9000453019 | 9000453028 | 9000453032 | 9000453034 | 9000453038 | 9000453041 | 9000453042 | 9000453043 | 9000453046 | 9000453047 | 9000453049 | 9000453050 | 9000453051 | 9000453052 | 9000453054 | 9000453059 | 9000453061 - Wapsa: MPB1 | MPB2 | MPF8 | MPN2 | MALP2 | MPB11 | MPB17 | MPB18 | MPB23 | MPB31 | MPB33 | MPB49 | MPB50 | MPB59 | MPB60 | MPB63 | MPB70 | MPC69 | MPMF3 | MALMF2 | MALTF1 | MALTF2 | MPJ1074

## EQUIVALENTE / Equivalent

Bosch: 9001453333 | 9001453334 | 9001453338 - General Motors/Chevrolet: 07328970 - Lucas: TNB460 - Lucas Indiel: 222460 - Volkswagen: 04128642 | BC4N11350A - Wapsa: 2244 | 224004 | 224038 | 224043 | 2244036

0025

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Ford: F100 | F1000 | F150 - Mercedes Benz: Caminhão com motor 0321H 12/1973... | Caminhão com motor 0321H2 12/1973... | Caminhão com motor 321 12/1973... | Ônibus - Toyota: Bandeirante - Volkswagen: 81

## MOTOR

Wapsa: MPT2 | MALT1 | MPB19 | MPT2N | MALMWM3 | MALMWM4

## EQUIVALENTE / Equivalent

Bosch: 9001453391 - Lucas: TNB463 - Lucas Indiel: 222463 - Mercedes Benz: 3431517113 - Wapsa: 224010

0028

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Agrale: TX1600 MWM-D 229-3 ...12/1984 - Lamborghini: 226 | 230 | 340 | 452 | 90-2 | 90-4 | LDA 78/4 - Mercedes Benz: 180DB | 190DB | L319D | L405 | L406 | O2319D - MWM: D2253 | D2254 | D2293 - Perkins: 6.354/4 Trator CBT 8260 4x4 01/1984... - Renault: 7052 - Valmet: 10 | 11 | 110ID MWM-D 225-6 ...07/1977 | 15 | 22 | 30 | 35 | 50DA | 62ID MWM-D 225-3 ...07/1985 | 65ID MWM-D 225-3 ...07/1985 | 68 ...07/1985 | 68 Cafeeiro ...07/1985 | 68 Especial MWM-D 229-3 ...07/1985 | 85ID MWM-D 229-3 ...07/1977

## MOTOR

Bosch: 0001354016 | 0001354064 | 0001354076

## EQUIVALENTE / Equivalent

Bosch: 2006209043 | 2006209068 | 2006209183 | 2006209212 | 2006209900 | 2006209915 - Italcacciai: SD061 - Lester: 16365 - Lucas: TNB044 - Lucas Indiel: 223103

0034

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Case: Pá Carregadeira W20 ...09/1976 - CBT: Oliver 1020 ...09/1976 | Oliver 1065 ...09/1976 | Oliver 1105 ...09/1976 | Oliver 950 ...09/1976 - Chrysler: Dodge D950 MWM ...07/1977 - Clark: Pá Carregadeira Michigam 55A ...09/1976 | Pá Carregadeira Michigam 65R ...09/1976 | Pá Carregadeira Michigam 75III ...09/1976  
Massey Ferguson: MF85 - Mercedes Benz: 1111 (OM321) | 1113 | 1313 | 1316 | 1513 | 1516 | 2013 | 2015 | 2213 (OM352) | 2216 (OM352A) | L408DG | L508G | L608DG | LP608 | LP808 | Micro ônibus L608D (OM314) | O362 MWM D226-4 ...09/1976 | O362A Autolite | OM314 | OM321 | OM321 marítimo 1959 ED | OM324 | OM324 marítimo 1961 ED | OM326 | OM326 marítimo 1963 | OM352 | OM352A | U54 | U66 | U72 | U80 - MWM: Motor D2256 ...07/1977 - Toyota: Bandeirante MBB-OM314 ...09/1976

## MOTOR

Bosch: 0001358030 | 9000082020 | 9000083001 | 9000083011 | 9000083012 | 9000083014 | 9000083018 | 9000083020 | 9000083029

## EQUIVALENTE / Equivalent

Bosch: 9001083440 - Lucas: TNB461 - Lucas Indiel: 222461 - Mercedes Benz: 3431517113

0039

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

John Deere: Trator Triunfo

## MOTOR

Autolite Prestolite: MAY4147 | MJB4115 - Remy: 728K | 1107117 | 1107146 | 1107513 | 1107537 | 1108105 | 1108108 | 1108110 | 1108451 | 1108452 | 1108453 | 1108454 | 1108456

## EQUIVALENTE / Equivalent

Lester: 4056 | 4577 | 4678 | 5648 - Lucas Indiel: 223409 - Remy: D2001 | 1839099 | 1874133

0041

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Ford: Caminhão 1954...1960 - Massey Ferguson: MF1956 - New Holland: Super Major Diesel

## MOTOR

Lucas Indiel: 26132A/F | 26132H/R | 26143A/H | 26143J/Q | 26172A/L

## EQUIVALENTE / Equivalent

Lester: 16603 | 16604 | 16660 - Lucas: 291484 | TLB165 | 54244389

0043

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Massey Ferguson: MF235 ...1986 | MF235 PER-A 3152 - Perkins: A3.152 Trator MF 235 | Motor Motor 4 e 6 cil | Trator MF 265

## MOTOR

Bosch: 9000083000

## EQUIVALENTE / Equivalent

Bosch: 9001083445 - Lucas: TNB445

0044

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## APLICAÇÃO / Application / Aplicación

Ford: Belina I | Corcel I

0044

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 176

## MOTOR

Bosch: 0001203016 | 0001305016 | 0001308006 | 9000082005 | 9000082010

## EQUIVALENTE / Equivalent

Bosch: 1006209012 | 1006209014 | 1006209017 | 1006209125 | 1006209902 | 9001082417 - Lester: 16326 | 16332 | 16360 - Lucas: TMB484 - Lucas Indiel: 221484  
Volkswagen: 85357

0045

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: C10 | C75 | Caravan 1976... | Opala 1976... | Pick Up C10 1976... | Pick Up C15 1976... - Puma: Puma GTB GM4100

## EQUIVALENTE / Equivalent

Bosch: 1987BE0122 - General Motors/Chevrolet: 01954842 - Lucas: TDB045 - Lucas Indiel: 221711 - Wapsa: 224033

0046

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Opala ...06/1978

## MOTOR

Bosch: 9000082006 | 9000082022

## EQUIVALENTE / Equivalent

Bosch: 9001082177 | 9001082419 - General Motors/Chevrolet: 07325345 - Lucas: TMB419 - Volkswagen: 9307667

0049

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge D100 | Dodge D400 | Dodge D700

## EQUIVALENTE / Equivalent

Wapsa: 224014

0050

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Crysler: Dodge Chrysler 1962...1975 - Dodge: Coronado | GTX | Polara

## MOTOR

Autolite Prestolite: MZ4205 | MZZ4658 | MHB4011R | MHB4012R | MHB4013R - Chrysler: 1889297 | 2095122 | 2095150 | 2095254 | 3656650 - Crysler: 1889297 | 2095122 | 2095150 | 2095254 | 3656650 - Remy: 1107650 | 1107651 | 1107666 | 1107748 | 1107749

## EQUIVALENTE / Equivalent

Bosch: 1987BE0001 - Chrysler: CH1920 | CH1922 | CH1925 | CH1927 | 2095122 | 2095397 | 2444651 | 2444658 | 3755085 | 3874045 | 4094174 - Ford: 2900804  
Lester: 3250 | 3257 | 3258 - Lucas Indiel: 221903 - Remy: C2001 | D2018 | 1939444 | 1972282

0051

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Case: Pá Carregadeira - Detroit: Caminhão GM com Motor 4.53 | Pá Carregadeira Case com Motor 4.53

## MOTOR

Remy: 1107251 | 1107343 | 1107344 | 1107504 | 1107510 | 1107527 | 1107534 | 1107538 | 1107553 | 1107567 | 1107581 | 1107587 | 1107588 | 1107600 | 1107875 | 1108239 | 1108636 | 1108641 | 1108643 | 1108652 | 1108653 | 1108661 | 1108692 | 1109140 | 1109196 | 1113007 | 1113010 | 1113013 | 1113038 | 1113050 | 1113052 | 1113056 | 1113059 | 1113064 | 1113066 | 1113075 | 1113084 | 1113089 | 1113097 | 1113099 | 1113100 | 1113101 | 1113110 | 1113111 | 1113116 | 1113121 | 1113124 | 1113128 | 1113130 | 1113133 | 1113136 | 1113137 | 1113142 | 1113143 | 1113145 | 1113150 | 1113153 | 1113154 | 1113156 | 1113157 | 1113158

## EQUIVALENTE / Equivalent

Lester: 3276 | 3279 | 3280 | 3729 | 3793 | 3804 | 3852 | 3873 | 3943 | 3953 | 3977 | 3992 | 4280 | 4387 | 4882 | 4883 | 4893 | 4999 | 6181 | 6185 | 6188 | 6198 | 6519  
Lucas Indiel: 223153 - Remy: D2017 | D2107 | D4123 | 1851430 | 1875852 | 1877353 | 1877354 | 1932890 | 1934488 | 1940134 | 1940138 | 1951180 | 1952486 | 1965358 | 1967042

0052

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Case: Pá Carregadeira

## MOTOR

Remy: 1107203 | 1107234 | 1107245 | 1107280 | 1107308 | 1107332 | 1107356 | 1107364 | 1107377 | 1107378 | 1107379 | 1107393 | 1107501 | 1107516 | 1107523 | 1107546 | 1107547 | 1107550 | 1107556 | 1107558 | 1107559 | 1107571 | 1107572 | 1107583 | 1107584 | 1107598 | 1107680 | 1107734 | 1107771 | 1107874 | 1107879 | 1108033 | 1108042 | 1108051 | 1108161 | 1108250 | 1108251 | 1108323 | 1108340 | 1108341 | 1108393 | 1108438 | 1108501 | 1108662 | 1108665 | 1108672 | 1108769 | 1109081 | 1109192 | 1109259 | 1117335 | 1117356 | 1117364 | 1117377

## EQUIVALENTE / Equivalent

Lester: 3281 | 3282 | 3870 | 3883 | 3964 | 3966 | 4046 | 4098 | 4151 | 4167 | 4200 | 4201 | 4202 | 4217 | 4224 | 4239 | 4243 | 4244 | 4246 | 4249 | 4254 | 4283 | 4286 | 4326 | 4328 | 4388 | 4393 | 4408 | 4500 | 4506 | 4508 | 4509 | 4545 | 4597 | 4723 | 4996 | 6147 | 6148 | 6157 | 6180 | 6521 | 6740 - Remy: D2005 | D2009 | D2021 | 0800026 | 1852410 | 1852570 | 1852970 | 1892899 | 1929402 | 1930802 | 1935992 | 1946220 | 1952410

0053

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Ford: Club 8 Cil 4.3L 4261cc 260cid 1963...1964 | Club 8 Cil 4.7L 4727cc 289cid 1963...1964 | Club Wagon 8 Cil 4.3L 4261cc 260cid 1963...1964 | Club Wagon 8 Cil 4.7L 4727cc 289cid 1963...1964 | Country Sedan 6 Cil 3.9L 240cid 1963...1964 | Country Sedan 6 Cil 3.9L 3933cc 240cid 1965...1970 | Country Sedan 8 Cil 4.3L 4261cc 260cid 1963...1965 | Country Sedan 8 Cil 4.7L 4727cc 289cid 1965...1967 | Country Sedan 8 Cil 5.0L 302cid 1968...1969 | Country Sedan 8 Cil 5.0L 302cid 1971...1972 | Country Sedan 8 Cil 5.0L 4949cc 302cid 1968...1972 | Country Sedan 8 Cil 5.8L 351cid 1969...1974 | Country Sedan 8 Cil 5.8L 5752cc 351cid 1969...1974 | Country Sedan 8 Cil 5.8L 5753cc 351cid 1969...1974 | Country Squire 6 Cil 3.9L 3933cc 240cid 1965...1967 | Country Squire 8 Cil 4.3L 4261cc 260cid 1963...1964 | Country Squire 8 Cil 4.7L 4727cc 289cid 1965...1967 | Country Squire 8 Cil 5.0L 302cid 1968...1972 | Country Squire 8 Cil 5.0L 4949cc 302cid 1969...1972 | Country Squire 8 Cil 5.8L 351cid 1969...1974 | Country Squire 8 Cil 5.8L 5752cc 351cid 1969...1974 | Country Squire 8 Cil 5.8L 5753cc 351cid 1969...1974 | Custom 6 Cil 3.9L 3933cc 240cid 1965...1972 | Custom 8 Cil 4.3L 4261cc 260cid 1964...1967 | Custom 8 Cil 4.7L 4727cc 289cid 1964...1967 | Custom 8 Cil 5.0L 4949cc 302cid 1968...1972 | Custom 8 Cil 5.8L 5752cc 351cid 1969...1972 | Custom 8 Cil 5.8L 5753cc 351cid 1969...1972 | Custom 500 6 Cil 3.9L 240cid 1965...1972 | Custom 500 6 Cil 3.9L 3933cc 240cid 1968...1972 | Custom 500 8 Cil 4.3L 260cid 1964 | Custom 500 8 Cil 4.7L 289cid 1964...1967 | Custom 500 8 Cil 5.0L 302cid 1968...1972 | Custom 500 8 Cil 5.0L 4949cc 302cid 1962...1972 | Custom 500 8 Cil 5.8L 351cid 1969...1974 | Custom 500 8 Cil 5.8L 351cid Windsor Eng 1977 | Custom 500 8 Cil 5.8L 5752cc 351cid 1969...1974 | Custom 500 8 Cil 5.8L 5753cc 351cid 1969...1974 | Fairlane 6 Cil 4.1L 250cid 1969...1970 | Fairlane 6 Cil 4.1L 4097cc 250cid 1969...1970 | Fairlane 6 Cil 4.1L 4098cc 250cid 1969...1970 | Fairlane 8 Cil 3.6L 221cid 1962...1963 | Fairlane 8 Cil 3.6L 3622cc 221cid 1962...1963 | Fairlane 8 Cil 4.3L 260cid 1963...1964 | Fairlane 8 Cil 4.3L 4261cc 260cid 1962...1964 | Fairlane 8 Cil 4.7L 289cid 1963...1968 | Fairlane 8 Cil 4.7L 4727cc 289cid 1963...1968 | Fairlane 8 Cil 5.0L 302cid 1968...1970 | Fairlane 8 Cil 5.0L 4949cc 302cid 1968...1970 | Fairlane 8 Cil 5.8L 351cid 1969...1970 | Fairlane 8 Cil 5.8L 5752cc 351cid 1969...1970 | Fairlane 8 Cil 5.8L 5753cc 351cid 1969...1970 | Falcon 6 Cil 3.3L 200cid 1966...1970 | Falcon 6 Cil 3.3L 3277cc 200cid 1966...1970 | Falcon 6 Cil 3.3L 3278cc 200cid 1968...1970 | Falcon 6 Cil 4.1L 250cid 1 1970 | Falcon 6 Cil 4.1L 4097cc 250cid 1970 | Falcon 6 Cil 4.1L 4098cc 250cid 1970 | Falcon 8 Cil 4.3L 260cid 1963...1964 | Falcon 8 Cil 4.3L 4261cc 260cid 1963...1964 | Falcon 8 Cil 4.7L 289cid 1964...1968 | Falcon 8 Cil 4.7L 4727cc 289cid 1964...1968 | Falcon 8 Cil 5.0L 302cid 1968...1970 | Falcon 8 Cil 5.0L 4949cc 302cid 1968...1970 | Falcon 8 Cil 5.8L 351cid 1970 | Falcon 8 Cil 5.8L 5752cc 351cid 1970 | Falcon 8 Cil 5.8L 5753cc 351cid 1970 | Ford 300 8 Cil 4.3L 4261cc 260cid 1963 | Ford 300 8 Cil 4.7L 4727cc 289cid 1963 | Galaxie 6 Cil 3.9L 3933cc 240cid 1965...1967 | Galaxie 8 Cil 4.3L 4261cc 260cid 1964 | Galaxie 8 Cil 4.7L 4727cc 289cid 1963...1967 | Galaxie 500 6 Cil 3.9L 240cid 1965...1972 | Galaxie 500 6 Cil 3.9L 3933cc 240cid 1968...1972 | Galaxie 500 8 Cil 4.3L 260cid 1964

## MOTOR

Ford: E1TF11001B | E1TZ11002A | E1TZ11002B | E1TZ11002C | E1TF11001CA

## EQUIVALENTE / Equivalent

Bosch: 1987BE0002 - Chrysler: FO1905 | FO1909 - Fems: 278963 - Ford: SD302 | C1VF11350A | C1VY11350A | C2OF11350C | C3VF11350A | C3VF11350C | C4OF11350A | C4OF11350B | C4OZ11350A | C4OZ11350B | C5JF11350A | C6FY11350A | C6VY11350A | C7AF11350A | C8VF11350B | D6PZ11350B | C6VY11350A1 | C7AF11350A1 | C8VF11350B1 | D5AF11350AA | D6PF11A108B | D6PF11A108BA - Lester: 3124 | 3131 | 3132 | 3135 | 3149 | 3152 | 3153 | 3154 | 3155 | 3157 | 3160 | 3168 | 3169 | 3176 | 3181 | 3185 | 3187 | 3188 | 3189 - Remy: F2004 | 1972287

0054

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge D500

## MOTOR

Chrysler: 1889100 | 1889129 | 1889200 | 2095753 | 2642227

## EQUIVALENTE / Equivalent

Chrysler: CH1917 | CH1924 | 1889129 | 2444661 | 2642445 | 2642506 | 2642692 - Lester: 3248 | 3249 | 3252 - Remy: C2000 | C2002 | 1889129 | 1972281 | 1972365

0056

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Ford: F100 Gasolina 06/1975...12/1975 | F350 Gasolina 06/1975...12/1975 | F600 Gasolina 06/1975...12/1975 | Galaxie 06/1970... | Landau e LTD 06/1970...12/1975 | Pick Up 06/1970... - Hyster: Guindaste KF 06/1970... - Willys: Itamaraty 06/1970... | Jeep 06/1970... | Rural 06/1970...

0056

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## MOTOR

Bosch: 9000453055 - Wapsa: MPB3 | MPB4 | MALW3N

## EQUIVALENTE / Equivalent

Bosch: 9001453340 - Volkswagen: BD0A11350A - Wapsa: 224016

0059

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Asia Motors: Compressor Deutz - Deutz: Atlas Copco compressor | Trator Demisa DM55 | Trator Demisa DM65

## MOTOR

Bosch: 9000083002 | 9000083030

## EQUIVALENTE / Equivalent

Bosch: 9001083442

0060

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

CBT: 1090 Perkins 6 cil - Fiat: 127 1.3D | 147 | Duna 60 / 70 | Fiorino | Uno - Perkins: Motor 4 e 6 cil

## MOTOR

Bosch: 9000083003 | 9000083013 | 9000083019 | 9000083040

## EQUIVALENTE / Equivalent

Bosch: 9001083441

0061

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Yanmar: Motor AE1 ...08/1970 | Motor AE2 ...08/1970

## MOTOR

Bosch: 9000083004

## EQUIVALENTE / Equivalent

Bosch: 9001083443

0062

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Agrale: 4100 ...07/1977 | 416 ...07/1977 | 420 ...07/1977 | Motor Estacionário M70 ...07/1977 | Motor Estacionário M790 ...07/1977 | Motor Estacionário M80 ...07/1977 | Motor Estacionário M85 ...07/1977 | Motor Estacionário M90 ...07/1977 | Motor Estacionário M93 ...07/1977

## MOTOR

Bosch: 9000082004

## EQUIVALENTE / Equivalent

Bosch: 9001082127 | 9001082418

0064

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Ford: Retroescavadeira | Transit

## MOTOR

Facet: 26211M/T - Ford: 26211 | 26291 - Italacciai: 26211M - Lucas Indiel: 26312 | 26338 | 26339 | 26395 | S5012 | 26312A | 26211M/T | 26227A/Q | 26291A/D | 26305A/B | 26350A/B | 26312AM50 | 26211MTM50 | 26291ADM50 | 26305ABM50

## EQUIVALENTE / Equivalent

Facet: 10325 - Ford: 2701E11350B | 72DB11K003AA - Italacciai: SD341 - Lester: 16608 - Lucas: TMB101 | 54240795 | 54243848 | 54246661 | 54247188 | 54258190 | 60600210 - Lucas Indiel: 223164

0065

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Porsche: 190 | 924 - Puma: GT VW 1600 ...04/1981 | GTS VW 1600 ...04/1981 - Volkswagen: Brasília 1.3 e 1.6 álcool e gasolina | Fusca 1.6 (mod 94) | Gol 1.3 e 1.6 álcool e gasolina | Karmann Ghia TC 1600 | Kombi 1.5, 1.6 | Pick Up 1.5, 1.6 | Saveiro 1.6 álcool e gasolina | Sedan 1.3 e 1.6 álcool e gasolina | SP1 | SP2 | TC1600 | TL1600 | Variant I | Variant II

## MOTOR

Bosch: 0001211992 | 0001211993 | 0001314012 | 9000082009 | 9000082032 | 9000082034 | 9000082046 | 9000082047 | 9000082049 | 9000082073 | 9000082077

## EQUIVALENTE / Equivalent

Bosch: 1006209162 | 1006209431 | 2006209162 | 9001042021 | 9001082362 - Italcacciai: SD450 - Lester: 16450 - Lucas: TMB482 - Lucas Indiel: 221482  
Volkswagen: 3059113353 | 311911335A

0067

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 177

## APLICAÇÃO / Application / Aplicación

Bedford: 6C4 | 6D4 | 6RT | TD - Massey Ferguson: Especial/Special - Perkins: Estacionários | Industriais | Perkins | Tratores

## MOTOR

Lucas Indiel: 26236A/K | 26238A/L | 26248A/L | 26256A/E | 26259A/K | 26264A/F | 26271A/E | 26279A/E | 26281A/E | 26283A/F | 26285A/E | 26287A/E | 26288A/E | 26310A/D | 26310A/E | 26321A/B

## EQUIVALENTE / Equivalent

Lester: 16660 | 17641 - Lucas: TMB105 | 54246725 | 54259688 - Lucas Indiel: 223165

0068

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Audi: Fox 100 1.6, 1.8, 1.9 | Fox 4000 1.6, 1.7 | Fox 50 1.3, 1.5 | Fox 80 1.3, 1.5, 1.6 - BMW: 528i | 728i - Ford: Capri 2.8 | Galaxy | Granada 2.8 | Pampa 1.6 - Opel: Ascona A | Blitz 1.9 | Manta A | Rekord D - Volkswagen: Dasher 1.5 D | Derby | Gol 1.6, 1.8, 2.0, C, CL, GL | Golf 1.1, 1.3 | Jetta 1.1, 1.3, 1.7 (USA) | Kombi | Parati 1.5 e 1.6 C, CL, GL | Passat 1.3, D1.5, 1.5, 1.6 | Pick Up 1.6 | Polo | Rabbit 1.7 | Saveiro 1.6 CL, GL | Scirocco 1.1, 1.3, 1.6, 1.7 (USA) | Voyage 1.5 e 1.6 CL, GL

## MOTOR

Bosch: 0001208053 | 0001208054 | 0001208055 | 0001211209 | 0001211210 | 0001211213 | 0001211214 | 0001211216 | 0001211217 | 0001211218 | 0001211219 | 0001211220 | 0001211230 | 0001211233 | 0001211234 | 0001211235 | 0001211236 | 0001211244 | 0001211245 | 0001211247 | 0001211248 | 0001211249 | 0001311041 | 0001311046 | 0001311049 | 0001314014 | 0001314015 | 9000082030 | 9000082045

## EQUIVALENTE / Equivalent

Bosch: 1006209400 | 1006209405 | 1006209412 | 1006209417 | 9001082750 - Italcacciai: SD454 - Lester: 16401 | 16530 | 16539 | 16621 | 16623 | 16781 - Lucas: TMB421 - Lucas Indiel: 221421 - Volkswagen: 052911335 | 056911335 | 056911335A | ZBA911335

0070

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge Álcool 1981... | Dodge D100 gasolina | Dodge D900 gasolina

## MOTOR

Bosch: 9000453025 - Wapsa: MPB22 | MPB55

## EQUIVALENTE / Equivalent

Bosch: 9001453284 - Wapsa: 224029

0073

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Clark: CHY100 GM 6 cil | CHY120 GM 6 cil | CHY140 GM 6 cil | CHY60 GM 6 cil | CHY70 GM 6 cil | CHY80 GM 6 cil

## MOTOR

Wapsa: MPB5

## EQUIVALENTE / Equivalent

Wapsa: 224025

0077

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: 2300 ...03/1977 | 2300B ...03/1977 - Chrysler: Dodge Polara 1800



0077

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## MOTOR

Bosch: 9000082013 | 9000082020 | 9000082029

## EQUIVALENTE / Equivalent

Bosch: 9001082424 | 9001082426 | 9001082498

0080

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Audi: 100 | 60 | 72 | 80 | 90 - Ford: Capri | Granada | Taunus 2.0, 2.3 - General Motors/Chevrolet: Chevette 1.4 gasolina 01/1975..07/1976 | Marajó 1.4 álcool e gasolina 02/1975..07/1976 - Mercedes Benz: 190C | 200 | 220 | 230 | 250 | 280 | 300 | L408G | O309B - Volvo: 121 | 122 | 140 | 142 | 144 | 145 | 164 | 1800 | 221 | 222

## MOTOR

Bosch: 0001207010 | 0001208001 | 0001208003 | 0001208009 | 0001208011 | 0001208023 | 0001208025 | 0001208026 | 0001208030 | 0001208033 | 0001208036 | 0001208038 | 0001208046 | 0001208047 | 0001208050 | 0001208058 | 0001208059 | 0001208061 | 0001209002 | 0001209003 | 0001209008 | 0001209012 | 0001211006 | 0001211010 | 0001211018 | 0001211991 | 0001310016 | 0001311001 | 0001311013 | 0001311019 | 0001311023 | 0001311024 | 0001311027 | 0001311028 | 0001311030 | 0001311031 | 0001311032 | 0001311034 | 0001311036 | 0001311037 | 0001311039 | 0001313001 | 9000082012 | 9000082023

## EQUIVALENTE / Equivalent

Bosch: 1006209029 | 1006209031 | 1006209034 | 1006209040 | 1006209047 | 1006209051 | 1006209052 | 1006209053 | 1006209055 | 1006209058 | 1006209066 | 1006209101 | 1006209127 | 1006209332 | 2006209165 | 2006209166 | 9001082420 - General Motors/Chevrolet: 07329691 - Italacciai: SD305 - Lester: 16299 | 16321 | 16328 | 16331 | 16332 | 16337 | 16341 | 16360 | 16367 | 16407 | 16412 | 16440 | 16443 | 16539 | 16692 - Lucas: TMB420 - Lucas Indiel: 223176 - Volkswagen: 059911335

0082

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Ford: F1000 Georgia | F75 Georgia | Maverick Georgia 4 cil - Willys: Jeep Georgia

## EQUIVALENTE / Equivalent

Bosch: 9001082306 - Volkswagen: BD7D11350A

0084

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Perkins: Motor Industrial

## MOTOR

Bosch: 9000453018 | 9000453053 - Wapsa: MWC2 | MPB13

## EQUIVALENTE / Equivalent

Bosch: 9001453342 - Wapsa: 224024

0085

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Agrale: TX1600 MWM - Chrysler: Dodge D14000 MWM 6 cil e partida Wapsa | Dodge D750 MWM 6 cil | Dodge D950 MWM 6 cil - Ford: Cargo 1113 | Cargo 1313 | F1000 MWM | F11000 MWM | F12000 MWM | F13000 MWM | F14000 MWM | F19000 MWM | F2000 MWM | F21000 MWM | F22000 MWM | F400 MWM | F4000 MWM | F7000 MWM - Massey Ferguson: Trator - MWM: D2293 | D2294 | D2296 - Valmet: Trator MWM 3, 4 e 6 cil - Volkswagen: VW11130 | VW13130

## MOTOR

Bosch: 9000453012 | 9000453027 | 9000453033 | 9000453062 - Wapsa: MPB9 | MPB30 | MPB42 | MPB68

## EQUIVALENTE / Equivalent

Bosch: 9001453336 - Lucas: TNB402 - Lucas Indiel: 222402 - Volkswagen: BD5T11350A | T11911335A - Wapsa: 224026

0086

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Clark: Empilhadeira CFY 40 1978... | Empilhadeira CFY50 1978...

## MOTOR

Wapsa: MPC1N

## EQUIVALENTE / Equivalent

Wapsa: 224031

0092

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Fiat: Caminhão 130 | Caminhão 160 | Caminhão 70 | Ônibus 100 | Ônibus 130 | Ônibus 70 - Fiat Allis: Trator de Esteiras ADB ...1978

## MOTOR

Bosch: 9000083024 | 9000083025

## EQUIVALENTE / Equivalent

Bosch: 9001083439

0093

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Clark: Empilhadeira com motor Detroit D478 - General Motors/Chevrolet: Caminhão D478 1996...1972

## MOTOR

Ford: C5TF11000B | C6TF11000B | C6TZ11001A | C6TZ11002C | C7TF11000A - Remy: 1107214 | 1107234 | 1107249 | 1107268 | 1107290 | 1107291 | 1107382 | 1107503 | 1107511 | 1107512 | 1107515 | 1107533 | 1107539 | 1107540 | 1107557 | 1107561 | 1107575 | 1107580 | 1107582 | 1107591 | 1107592 | 1107593 | 1107696 | 1107857 | 1107859 | 1107867 | 1107872 | 1108240 | 1108280 | 1108322 | 1108379 | 1108396 | 1108397 | 1108415 | 1108431 | 1108443 | 1108447 | 1108449 | 1108476 | 1108493 | 1108632 | 1108634 | 1108644 | 1108648 | 1108649 | 1108667 | 1108696 | 1109023 | 1109194

## EQUIVALENTE / Equivalent

Chrysler: 2525287 - Ford: C6TZ11350A - Lester: 3353 | 3362 | 3363 | 3365 | 3367 | 3511 | 3512 | 3708 | 3720 | 3726 | 3774 | 3898 | 3942 | 3972 | 3977 | 3986 | 3991 | 4191 | 4192 | 4241 | 4252 | 4265 | 4266 | 4267 | 4272 | 4274 | 4275 | 4276 | 4281 | 4284 | 4338 | 4385 | 4389 | 4392 | 4398 | 4399 | 4525 | 4537 | 4573 | 4828 | 4894 | 4898 | 4906 | 4941 | 4946 | 4949 | 4953 | 4971 | 4972 | 4973 | 4998 | 6179 | 6543 | 6730 - Lucas Indiel: 223185 - Remy: D2024 | D2025 | D2042 | 1852716 | 1876857 | 1877355 | 1933471 | 1941119 | 1941157 | 1942950 | 1950058 | 1964127 | 1966931 | 1968355 | 1971707 | 1975046 | 4019393 | 10498623

0096

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Fordson: Tratores - Perkins: Estacionários | Industriais | Tratores

## MOTOR

Italacciai: 26211U - Lucas Indiel: 26211U | 26291E | 26312B | 26227R/V | 26265J/M | 26305D/N | 26316A/M | 26329A/L | 26338A/F | 26339A/K | 26341A/J | 26352A/L | 26379A/F | 26395A/H | 26430A/D | 26431A/B | 26312BM50 | 26431AM50 | 26211MTM50

## EQUIVALENTE / Equivalent

Italacciai: SD401 - Lester: 16608 | 17646 | 17647 - Lucas: TMB115 | 54243783 | 54246738 | 54246896 | 54247187 - Lucas Indiel: 223187

0097

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Caterpillar: Máquinas com motor D330C | Máquinas com motor D333C | Máquinas com motor D334C | Máquinas com motor D336C | Máquinas com motor D344C

## MOTOR

Ford: C8ZF11000C | D3OZ11002A | D4TZ11002E | D3TF11000CA | D3TF11001CA - Remy: 1109624 | 1109628 | 1109637 | 1109638 | 1109998 | 1113353 | 1113366 | 1113371 | 1113378 | 1113386 | 1113393 | 1113407 | 1113472 | 1113477 | 1113628 | 1113631 | 1113670 | 1113827 | 1113848 | 1113853 | 1113891 | 1113904 | 1113928 | 1113934 | 1113943

## EQUIVALENTE / Equivalent

Butec: 851073 | 852762 | 852961 - Caterpillar: 6N3827 - Facet: 480118 | 480411 - Ford: C8TZ11350B | C8TZ11350D | C9WF11350C | D4HF11350AA - Lester: 3288 | 3339 | 3352 | 3370 | 3374 | 3790 | 3948 | 3955 | 3971 | 3987 | 3990 | 3999 | 4997 | 6191 | 6197 | 6202 | 6224 | 6225 | 6227 | 6232 | 6233 | 6238 | 6242 | 6246 | 6249 | 6250 | 6251 | 6252 | 6253 | 6254 | 6259 | 6349 | 6355 | 6360 | 6361 | 6363 | 6371 | 6372 | 6373 | 6374 | 6516 | 6530 | 6544 | 6557 | 6558 | 6559 | 6566 | 6567 | 6568 | 6618 | 6636 | 6638 | 6639 | 6682 | 6683 | 6686 | 6687 | 6688 - Lucas Indiel: 223111 - Remy: 1114087 | 1893560 | 1894213 | 1936647 | 1946945 | 1946957 | 1970711 | 8000068

0101

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Asia Motors: Compressor com motor Deutz 8 cil - Atlas Copco: Tratores com motor Deutz 8 cil - Deutz: Motores 8 cil

## MOTOR

Bosch: 0001358051 | 0001359001 | 0001359003 | 0001359006 | 0001359007 | 0001359010 | 0001359019 | 0001359024 | 0001359040 | 0001359050 | 0001360002 | 0001360003 | 0001360009 | 0001360016

## EQUIVALENTE / Equivalent

Bosch: 2006209109 | 2006209120 | 2006209302 - Italacciai: SD349 - Lucas Indiel: 223188

0102

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Chrysler: Caminhão Dodge com motor Perkins 4 cil - John Deere: Trator 6600 | Trator 7500 | Tratores com motor Perkins 3 cil

## MOTOR

Lucas Indiel: 35256034 | 35256425 | 35256433 | 35256519 | 35256520 | 35256637 | 35256900 | 35257188 | 35257720 | 35258930

## EQUIVALENTE / Equivalent

Bosch: 1987BE0003 - Lucas Indiel: 227814 | 32557814 | 35255870 | 35256861 | 35257814

0104

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 178

## APLICAÇÃO / Application / Aplicación

Ford: Caminhão F100 com motor 4 cil | Caminhão F75 com motor 4 cil - Willys: Jeep | Pick Up | Rural com motor 4 cil

## MOTOR

Wapsa: MWB14

## EQUIVALENTE / Equivalent

Bosch: 9001451291 - Lucas: TWB235 - Wapsa: 224035

0105

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Agrale: Caminhão 1600D | Caminhão 1800D | Caminhão TX1600D - Case: Escavadeira Hidráulica 80CP | Escavadeira Hidráulica 80CR | Pá Carregadeira W18 | Pá Carregadeira W20 | Pá Carregadeira W20B | W18 | W20 (MBB-OM 352) | W20B (MBB-OM 352A) - CBT: Trator 1065 (MBB-OM 314) | Trator 1105 (MBB-OM 352) | Trator 2080 (MBB-OM 314) | Trator 2105 (MBB-OM 352) | Trator 2600 10/1976... | Trator 8060 4x4 (MBB-OM 352) | Trator 8440 10/1976... | Trator Oliver 1020 10/1976... | Trator Oliver 1065 10/1976... | Trator Oliver 950 10/1976... - Chrysler: Caminhão Dodge D950 com motor MWM | Caminhão Dodge P700 com motor MWM | Caminhão Dodge P900 com motor MWM - Clark: Pá Carregadeira Michigan 45C | Pá Carregadeira Michigan 55A | Pá Carregadeira Michigan 55C | Pá Carregadeira Michigan 65R | Pá Carregadeira Michigan 75III - Deutz: Trator 100S 01/1981... | Trator 120S 01/1981... | Trator 4.190 01/1981... | Trator 80S 01/1981... | Trator AX 4.100 01/1981...

Fiat Allis: Escavadeira Hidráulica FE105 | Motoniveladora FG70 | Motoniveladora FG85 - Ford: Cargo C 1215 | Cargo C 1216 | Cargo C 1217 | Cargo C 1415 | Cargo C 1416 | Cargo C 1417 | Cargo C 1421 | Cargo C 1617 | Cargo C 1621 | Cargo C 814 | Cargo C 815 | F4000 - John Deere: Trator Série 7000 com motor MMB | Trator Série 7200 turbo com motor MMB | Trator Série 7700 com motor MMB | Trator Série 7700 turbo com motor MMB - Komatsu: Trator de Esteiras D30E MBB OM 352, 352A | Trator de Esteiras D50A MBB OM 352, 352A | Trator de Esteiras D50P MBB OM 352, 352A - Mercedes Benz: Caminhão / Ônibus LP1219 | Caminhão / Ônibus 1113 | Caminhão / Ônibus 1214 | Caminhão / Ônibus 1218 | Caminhão / Ônibus 1313 | Caminhão / Ônibus 1316 | Caminhão / Ônibus 1414 | Caminhão / Ônibus 1418 | Caminhão / Ônibus 1513 | Caminhão / Ônibus 1516 | Caminhão / Ônibus 1614 | Caminhão / Ônibus 1618 | Caminhão / Ônibus 1621 | Caminhão / Ônibus 1720 | Caminhão / Ônibus 2013 | Caminhão / Ônibus 2016 | Caminhão / Ônibus 2213 | Caminhão / Ônibus 2215 | Caminhão / Ônibus 2216 | Caminhão / Ônibus L1319 | Caminhão / Ônibus L608D | Caminhão / Ônibus L610(OM 352) | Caminhão / Ônibus L709D | Caminhão / Ônibus LP1419 | Chassi p/ Ônibus OF/OH 1113 com motor M366G | Chassi p/ Ônibus OF/OH 1115 com motor M366G | Chassi p/ Ônibus OF/OH 1313 com motor M366G | Chassi p/ Ônibus OF/OH 1315 com motor M366G | Chassi p/ Ônibus OF/OH 1316 com motor M366G | Chassi p/ Ônibus OF/OH O364 com motor M366G | Chassi p/ Ônibus OF/OH O371U com motor M366G - Müller: Trator RT 62H MWM 229.3 01/1995... | Trator RT 82H MWM 229.3 01/1995... | Trator VAP 55 MWM 229.3 01/1995... - MWM: Motor D2256 08/1977... | Motor D2294 08/1977... | Motor D2296 08/1977... | Motor TD2296 08/1977... - New Holland: Colheitadeira FNH 8040 MBB-OM352 | Colheitadeira FNH 8055 MBB-OM352A - Puma: Caminhão 900 série 914 com motor MWM 229.4 09/1995... - Toyota: Bandeirante MBB-OM 314 10/1976... - Valmet: Trator 110ID 08/1977... | Trator 118 08/1977... | Trator 128 08/1977... | Trator 138 08/1977... | Trator 138/4 turbo 08/1977... | Trator 148 08/1977... | Trator 78 08/1977... | Trator 85ID 08/1977... | Trator 88 08/1977... | Trator 880 08/1977... | Trator 980 08/1977... - Volkswagen: Caminhão VW11.130 | Caminhão VW13.130 | Caminhão VW6.90 | Caminhão VW7.110S | Caminhão VW7.90S | Chassi VW7.90CE | Chassi VW7.90CO | Chassi VW7.90S - Yanmar: Motor Estacionário BT22 | Motor Estacionário BT33 | Motor Estacionário BTD22 | Motor Estacionário BTD33 | Trator 1050D | Trator 1050D 4x4

## MOTOR

Bosch: 0001354084 | 0001359031 | 0001359055 | 0001359057 | 0001359062 | 0001359071 | 0001359072 | 0001359073 | 0001359074 | 0001359083 | 0001359084 | 0001359087 | 0001359089 | 0001359091 | 0001359097 | 0001359100 | 0001359101 | 0001359111 | 0001359113 | 0001359118 | 0001359119 | 0001360004 | 0001360025 | 0001360027 | 0001360030 | 0001360031 | 0001360032 | 0001360034 | 0001360035 | 0001360036 | 0001360037 | 0001360038 | 0001360039 | 0001360040 | 0001360046 | 0001360047 | 0001360049 | 0001360056 | 0001360057 | 0001360059 | 0001360061 | 0001360065 | 0001364108 | 0001365007 | 0001365008 | 9000083027 | 9000083028 | 9000083031 | 9000083036 | 9000083045 | 9000083046 | 9000083050 | 9000083052 | 9000083053 | 9000083054 | 9000083056 | 9000083060 | 9000083061 | 9000083063 | 9000083064 | 9000083065 | 9000083066 | 9000083067 | 9000083068 | 9000083074 | 9000453074 | 9000453082 | 9000453083

## EQUIVALENTE / Equivalent

Bosch: 2006209421 | 2006209436 | 2006209446 | 9001083406 | 9001083436 | 9002453073 - Fiat: 8122129 | 9008243 | 9926112 | 9957919 | 79028900 | 79028909  
Italacciai: SD124 - Lester: 16560 | 17073 | 17074 | 17076 | 17106 | 17136 | 17184 | 17228 | 17230 | 18029 | 18030 | 18032 | 18033 | 18111 | 18229 | 18237 - Lucas:  
TNB407 - Lucas Indiel: 222407 - Mercedes Benz: 0001517013 - Volkswagen: 04053926

0108

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE

STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: Alfa 6 2.0, 2.5 | Alfa 75 1.6, 1.8, 1.8 turbo, 2.5 | Alfa 90 1.8, 2.0, 2.5 | Alfasud 1.2 Super TI | Alfetta 1.6, 1.8, 2.0 | Arna 1.2 e 1.3 | F2 | Giulietta 1.3, 1.8, 2.0 | GTV2000 2.0 e 2.5 - Audi: 100 1.8, 1.9, 2.0 | 200 turbo | 200i | 80 | 80L | Quattro - BMW: 320 | 323 i | 520 | 523 i | 528 - Citroën: BX 14 | C22 | C25 | LNA II | Visa | Visa II - Fiat: Ritmo Super 85 1.5 - Ford: Belina II com motor CHT 1.6 | Capri II 2.3, 2.8 | Consul 2.3 | Corcel II 1.6 | Del Rey 1.6 | Escort 1.3, 1.6 CHT | Escort Hobby 1.6 | FT 100 | FT 125 | FT 130 | FT 150 | FT 175 | FT 190 | FT 60 | FT 75 | FT 900 | Galaxy | Granada 1.7, 2.0, 2.3, 2.6, 2.8 | Pampa 1.6 | Royale com transmissão automática e EFI | Scala 1.6 CHT | Sierra 1.6, 2.0, 2.3 | Taunus 2.0, 2.3 | Verona LX 1.6 | Versailles 1.8, 2.0 e 2.0i - General Motors/Chevrolet: Chevette 1.4 e 1.6 | Chevette Junior álcool e gasolina | Chevy 500 | Ipanema 1.8 | Kadett 1.8 | Marajó 1.4 e 1.6 | Monza - Gurgel: Carajas com motor VW AP 1.8 02/1988... - Lancia: Delta 1.5 | Gamma 2.0, 2.5 | Prisma 1.5 - Mercedes Benz: 200 | 208 | 220 | 280 | 308 | 350 | 380 | 450 | 500 - Opel: Admiral 2.8 | Ascona B, C | Blitz CF | Comodore B | Corsa 1.0, 1.2, 1.3 | Diplomat B | Kadett C, D | Manta B | Monza | Rekord | Senator - Peugeot: 104 | 504 1.6, 1.8, 2.0 (V6) | 505 1.8, 2.0 | 604 V6 | J5 Porsche: 924 - Renault: P1000 | P2000 | R14GTL-GTS | R18 | R18 turbo | R20 | R30 | Trafic - Volkswagen: Gol 1.0i | Gol 1.6 | Gol 1.8i | LT 28 | LT 31 | LT 35 | LT 40 | LT 45 | Parati GLS | Passat GTS Pointer 1.8 5cil. a álcool | Quantum 1.8 e 2.0 CL, GL, GLS | Santana 1.8 e 2.0 CL, GL, GLS | Saveiro 1.8 álcool e gasolina | Voyage GLS 1.8 álcool e gasolina - Volvo: 140 | 142 | 144 | 160 | 164 | 240 | 340 | 360 | 760 - Yanmar: Micro Trator 1030 | Micro Trator TC11 | TC11 Super (NS 11)

## MOTOR

Bosch: 0001157024 | 0001157025 | 0001157028 | 0001157029 | 0001157030 | 0001208200 | 0001208201 | 0001208202 | 0001208206 | 0001208208 | 0001208209 | 0001208211 | 0001208216 | 0001208217 | 0001208224 | 0001208225 | 0001208226 | 0001208227 | 0001208228 | 0001208229 | 0001208233 | 0001208400 | 0001208405 | 0001211207 | 0001211215 | 0001211229 | 0001211242 | 0001311101 | 0001311103 | 0001311104 | 0001311105 | 0001311106 | 0001311107 | 0001311108 | 0001311109 | 0001311110 | 0001311112 | 0001311114 | 0001311117 | 0001311118 | 0001311120 | 0001311121 | 0001311122 | 0001311124 | 0001311125 | 0001311126 | 0001311127 | 0001311131 | 0001311132 | 0001311136 | 0001311137 | 0001311139 | 0001311140 | 0001311141 | 0001311143 | 0001311145 | 0001311147 | 0001314018 | 9000062014 | 9000082024 | 9000082025 | 9000082033 | 9000082035 | 9000082036 | 9000082041 | 9000082042 | 9000082043 | 9000082048 | 9000082050 | 9000082051 | 9000082054 | 9000082055 | 9000082058 | 9000082059 | 9000082063 | 9000082064 | 9000082065 | 9000082067 | 9000082069 | 9000082071 | 9000082074 | 9000082075 | 9000082076 | 9000082078 | 9000141116 | 9000142001 | 9000142002 | 9000142003 | 9000142102 | 9000333105 | 9000334102

## EQUIVALENTE / Equivalent

Bosch: 1006209404 | 1006209410 | 1006209414 | 1006209416 | 1006209427 | 1006209447 | 1006209462 | 1006209463 | 1006209471 | 9001066236 | 9001082340 | 9001082618 | 9001082660 | 9001082686 | 9001082748 | 9001336324 | F000AL1002 - Fiat: 9936602 | 9937705 | 82327386 - General Motors/Chevrolet: 09307667 Italaccai: SD436 - Lester: 16299 | 16353 | 16367 | 16401 | 16412 | 16417 | 16418 | 16443 | 16462 | 16531 | 16534 | 16538 | 16539 | 16550 | 16557 | 16593 | 16619 | 16621 | 16683 | 16684 | 16689 | 16722 | 16781 | 17031 | 17061 | 17122 - Lucas: TMB448 | TMB480 - Lucas Indiel: 221480 - Volkswagen: 059911335B | ZBC911335 | 78MU11350A

0110

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE

STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Caterpillar: Máquinas equipadas com motor D311 | Máquinas equipadas com motor D320 | Máquinas equipadas com motor D330 | Máquinas equipadas com motor D333 | Máquinas equipadas com motor D342 | Máquinas equipadas com motor D343 - Cummins: Motor Cummins 42 MT 12/14V - John Deere: John Deere 42 MT Massey Ferguson: Massey Ferguson

## MOTOR

Caterpillar: 7M8651 - Chrysler: 15056 | 15113 - Ford: C3TF11000A | C3TZ11001A | C4TF11000A | C4TZ11002A | C5TZ11002C | C6TF11001A | C9HZ11000C | D3TF11000A - Leece Neville: CATF11000A | CATZ11002A - Remy: 1109625 | 1109627 | 1109631 | 1109636 | 1109642 | 1109643 | 1109649 | 1109755 | 1109759 | 1113475 | 1113519 | 1113643 | 1113645 | 1113832 | 1113884 | 1113952 | 1113955 | 1113956 | 1113957 | 1113958 | 1113965 | 1113966 | 1113968 | 1113970 | 1113971 | 1113972 | 1113973 | 1113974 | 1113975 | 1113977 | 1113978 | 1113979 | 1113981 | 1113983 | 1113986 | 1113994 | 1113995 | 1113997 | 1114066 | 1114092 | 1114140 | 1114143 | 1114145 | 1114148 | 1114150 | 1114197 | 10478802 | 10478813 | 10478824 | 10478829 | 10478894 | 10478911 | 10478986 | 10478998

## EQUIVALENTE / Equivalent

Butech: 851075 | 852763 | 852962 - Caterpillar: 6N3826 - Chrysler: 15056 | 15113 - Facet: 480117 | 480321 - Ford: EAB11350A | C2DZ11350A | C3DE11350A | C3TZ11350A | C8DF11350A | C9HE11350A | D4HF11350BA - Lester: 3041 | 3042 | 3043 | 3045 | 3047 | 3074 | 3296 | 3298 | 3299 | 3342 | 3712 | 3744 | 3745 | 3757 | 3766 | 3770 | 3785 | 3902 | 3905 | 3941 | 3958 | 3963 | 3974 | 3997 | 4600 | 4899 | 4927 | 4930 | 4937 | 4987 | 6203 | 6208 | 6229 | 6230 | 6231 | 6243 | 6245 | 6352 | 6356 | 6370 | 6378 | 6509 | 6511 | 6513 | 6538 | 6548 | 6549 | 6551 | 6552 | 6553 | 6554 | 6555 | 6556 | 6564 | 6565 | 6569 | 6619 | 6624 | 6625 | 6637 | 6671 | 6672 | 6684 | 6760 | 6762 | 6781 - Lucas Indiel: 223190 - Remy: 830620 | 1109625 | 1894211 | 1935487 | 1945487 | 1952083 | 1953373 | 1955777 | 1960370 | 1967779 | 8000066

0111

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE

STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Fiat: 147 | Argenta 2.0 | Duna 60 | Duna 70 | Elba 1.3 e 1.5, CS/S | Fiorino 1.1 | Panorama | Prêmio 1.2, 1.3, 1.5 | Prêmio CS | Prêmio CSL | Prêmio S | Regata 70 | Regata 75 | Regata 85 | Regata 90 IE | Ritmo 75 | Spazio | Spazio Super 85 | Tempra 16V | Tempra 2.0 MPI 16V | Tempra 2.0 SPI 8V | Tempra 2.0 Turbo | Tipo 1.6.e | Uno 1.4i e 1.6i (argentina) | Uno 1.5 | Uno 1.6 | Uno 75 IE | Uno CS | Uno Mille | Uno R | Uno S | Uno SX - Lada: 2104 | Laika 1.5 e 1.6 | Niva 1.5 e 1.6 02/1993... - Lancia: Beta 1.3, 1.4, 1.6, 1.8, 2.0 | Delta 1.5, 1.6 | Prisma 1.5, 1.6 | Trevi 1.6, 2.0 - Seat: 131 1.6 | 132 1.6 e 1.8 - Volvo: Penta

## MOTOR

Bosch: 0001208218 | 0001208408 | 0001211246 | 0001311116 | 0001311119 | 0001311123 | 0001311129 | 0001311130 | 0001311133 | 9000082021 | 9000082039 | 9000082040 | 9000082053 | 9000082061 | 9000082066 | 9000082070 | 9000082079 | 9000082080 | 9000082083 | 9000082085 | 9000142100 - Fiat: 4470377 | 7501995

0111

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## EQUIVALENTE / Equivalent

Bosch: 1006209425 | 9001082324 | 9001082749 | F000AL1871 - Fiat: 7073094 | 9932923 - General Motors/Chevrolet: 07073094 - Italacciai: SD186 - Lester: 16257 | 16953 - Lucas: TMB483 - Lucas Indiel: 221483

0112

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Case: Pá Carregadeira - John Deere: Tractor

## EQUIVALENTE / Equivalent

Cargo: 133545 - Facet: 10533 | 10632 | 10633 - Lester: 3300 | 4000 | 4100 | 4211 | 4248 | 4251 | 4268 | 4307 | 4318 | 4943 | 4994 | 4995 | 6164 | 6510 | 6707 | 6731 | 6733 | 6737 - Lucas Indiel: 223191 - Remy: D2037 | A43652 | 1877345 | 1947912 | 1968131 | 1970376 | 1971706 | 10479522 | 10497522

0114

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Detroit: Caminhão GM com motor 4.53 - General Motors/Chevrolet: Caminhão com motor 4.53

## MOTOR

Wapsa: MPB36

## EQUIVALENTE / Equivalent

Lucas Indiel: 223192 - Wapsa: 224041

0115

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Ford: Maverick 4 cil | Pick Up - Willys: Pick Up | Rural | Utilitário Jeep

## MOTOR

Bosch: 9000082017

## EQUIVALENTE / Equivalent

Bosch: 9001082425 - Lucas Indiel: 221493

0117

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Case: Trator 42 MT - Caterpillar: Caterpillar - Clark: Pá Carregadeira - Cummins: Empilhadeira Case 42MT 12/24V - John Deere: John Deere 42 MT

## MOTOR

Autolite Prestolite: MES6101K | MES6301K | MFJ6201J | MFY6201K | MFY6101AUT - Bosch: 0001420001 | 0001420003 | 0001420004 | 0001420005 | 0001420009 | 0001420013 | 0001420014 | 0001420015 | 0001420024 | 0001420025 | 0001421001 | 0001421002 | 0001421003 | 0001421004 | 0001421006 | 0001421008

Leece Neville: 7072MB | 7072MC | 7146MA | 7146MB | 7148MA - Paris Rhone: D13E117TE | D13E119TE | D13E120TE | D13E121TE | D13E122TE | D13E123TE

Prestolite: MES6301K - Remy: 1108898 | 1108987 | 1109158 | 1109169 | 1109170 | 1109172 | 1109178 | 1109184 | 1109229 | 1109230 | 1109233 | 1109235 | 1109236 | 1109249 | 1109736 | 1109741 | 1109746 | 1109801 | 1109869 | 1112775 | 1113127 | 1113311 | 1113312 | 1113313 | 1113326 | 1113327 | 1113329 | 1113330 | 1113335 | 1113337 | 1113359 | 1113602 | 1113603 | 1113605 | 1113607 | 1113617 | 1113620 | 1113621 | 1113744 | 1113774 | 1113775 | 1113794 | 1113816 | 1113822 | 1114024 | 1114028 | 1114036 | 1114043 | 1114044 | 1114045 | 1114955 | 1114976 | 1990335 | 1992019 - Valeo: D13E117TE | D13E118TE | D13E119TE | D13E120TE | D13E121TE | D13E122TE | D13E123TE

## EQUIVALENTE / Equivalent

Bosch: 2006202000 - Butec: 850363 | 852758 | 852957 - Cargo: 232632 - Caterpillar: 4N4517 - Facet: 480116 | 480410 - Lester: 3055 | 3064 | 3809 | 3884 | 3894 | 3895 | 3931 | 3949 | 4636 | 4731 | 4732 | 4733 | 4734 | 4747 | 4748 | 5597 | 6213 | 18020 | 18021 - Lucas Indiel: 223193 - Paris Rhone: 103066 - Prestolite: PD71

Remy: 1914341 | 1918866 | 1921998 | 1932526 | 1932545 | 1932605 - Valeo: NE711 | 103066 | 186621

0118

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Case: Retroscavadeira 580H - CBT: Trator 8240 | Trator 8260 4x4 com motor Perkins - Chrysler: Caminhão Dodge D300 com motor Perkins 09/1977...  
 General Motors/Chevrolet: 4006MT | 8000MT | D40 | D6000 com motor Maxion 03/1992... | Pick Up D20 com motor Maxion - John Deere: MD630 | MND730  
 Kawasaki: F1300DT | F1400DT | F1500DT | F1600DT | F1800DT | F1902DT | F2105D - Komatsu: P160 | P170 | P170T | P190 | P200 | P260 | P270 |  
 Retroscavadeira PC150 mod. 5, (Hidráulica) - Massey Ferguson: Colheitadeira MF3640 PER-A 6358 | Colheitadeira MF5650 turbo PER-AT 6354-4 | Colheitadeira MF102  
 | Colheitadeira MF1630 | Colheitadeira MF1630 PER-A 4248 | Colheitadeira MF210S | Colheitadeira MF220 | Colheitadeira MF310 | Colheitadeira MF3640 | Colheitadeira  
 MF5650 | Colheitadeira MF5650 PER-A 6354-4 | Pick Up | Trator Maxion 9150 | Trator Maxion 9110 | Trator Maxion 9130 | Trator Maxion 9170 | Trator MF265 | Trator  
 MF270 | Trator MF275 | Trator MF275/4 | Trator MF285 | Trator MF290 | Trator MF292 | Trator MF295 | Trator MF295/4 | Trator MF296 | Trator MF296/4 | Trator  
 MF400 | Trator MF50X | Trator MF55X | Trator MF65R | Trator MF65X | Trator MF85X | Trator MF86 | Trator MF95 | Trator MF95i - Mercedes Benz: Ônibus O917  
 01/1988... | Ônibus OF 1113 01/1988... | Ônibus OH1113 01/1988... - Perkins: Maxion S4T GM - D20 03/1992... | Maxion 1006.6T Trator Ideal 9075 09/1994... | Maxion  
 1006.6T Trator Ideal 9090 09/1994... | Maxion S4T GM - D6000 03/1992... | Motor Industrial 4203 | Motor Industrial 4236 | Motor Industrial 63544 | Motor Industrial 6358 |  
 Motor Industrial 3152 | Motor Industrial 4203 | Motor Industrial 4236 | Motor Industrial 6358 | Perkins 248 Trator CBT 8240 01/1984... | Perkins 4236 A | Perkins 6.354/4  
 Trator CBT 8260 4x4 01/1984... | Perkins A6.358 08/1989... | Trator 296 04/1976... | Trator 400 04/1976... | Trator Ideal 9110 08/1989... | Trator Ideal 9130 08/1989... | Trator  
 Ideal 9150 08/1989... | Trator Ideal 9170 08/1989... | Trator MF 290/4 04/1976... | Trator MF 292 04/1976... | Trator MF 275 04/1976... | Trator MF 275/4 04/1976... | Trator  
 MF 283 | Trator MF 283 04/1976... | Trator MF 290 04/1976... | Trator MF 292 turbo 04/1976... | Trator MF 296/4 04/1976... - Volvo: 406 | 407 | F82 | F83S - Yanmar:  
 Motor Estacionário BT22 | Motor Estacionário BT33 | Motor Estacionário BTD22 | Motor Estacionário BTD33 | Trator 1050D | Trator 1050D 4x4

## MOTOR

Bosch: 0001359008 | 0001359064 | 0001359067 | 0001360050 | 0001365005 | 9000083035 | 9000083038 | 9000083041 | 9000083042 | 9000083051 | 9000083055 |  
 9000083058 | 9000083059 | 9000083062 | 9000453073 | 9000453086 | F000AL0700

## EQUIVALENTE / Equivalent

Bosch: 2006209394 | 2006209405 | 2006209435 | 9002453038 | 9002453074 | 9002453082 - Italcacciai: SD312 - Lester: 18122 | 18259 - Lucas: TNB439  
 Lucas Indiel: 222439

0119

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Lancia: Flavia | Fulvia - Volkswagen: Transporter 1.2

## MOTOR

Bosch: 0001207001 | 0001207002 | 0001208006 | 0001208017 | 0001310007

## EQUIVALENTE / Equivalent

Bosch: 1006209059 | 1006209060 | 1006209067 | 1006209117 | 1006209119 | 1006209320 | 1006209321 | 1006209322 | 1006209323 | 1006209324 | 1006209325 |  
 1006209329 - Italcacciai: SD456 - Lester: 16318 | 16319 | 16327 | 16329 | 16355 | 16396 - Volkswagen: 113911335A | 113911335B

0120

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Fiat: 1100TD | 124 | 124 Special | 127 0.9, 1.05, 1.3 | 128 | 131 1.3 | 141 | 238 | 241T | Panda 45 4X4 | Regata 1.1, 1.3 | Regata 70 | Ritmo 60 | Ritmo 65 | Ritmo  
 75 | Ritmo 85 | Ritmo Super | Uno 0.9, 1.1 e 1.3 | X1/9 - Lancia: Delta 1.3 | Prisma 1.3 - Seat: 1200 Sport 1430 cc | 124 | 124D | 124D Special | 127 | 127 Fura |  
 128.3P | 131 | 131L | 138 | Ritmo

## MOTOR

Femsa: MTS121 | MTS1222 | MTS1223 | MTS1229 | MTS1234 | MTS1239 | MTS1242 | MTS1247 | MTS1248 | MTS12P2 | MTS12P19 | MTS12P20 | MTS12P29 |  
 MTS12V13 | MTS12V25 - Fiat: 4142222 | 4142223 | 4143828 | 4152196 | 4181961 | 4198226 | 4198227 | 4198600 | 4198601 | 4204698 | 4204699 | 4229113 | 4229114 |  
 4474805 | 4474917 - Italcacciai: MTS1201 - Magneti Marelli: 63220700 | 63220701 | 63220702 | 63220705 | 63220706 | 63220720 | 63220721 | 63220723 | 63220724 |  
 63220731 | 63220740 | 63220741 | 63220743 | 63220744 | 63220746 | 63220800 | 63220833 | 63220834 | 63220836 | 63220900 | 63220932 | 63220940 | 63221300

## EQUIVALENTE / Equivalent

Bosch: 9001336222 - Femsa: 03550 | 170613 | 1706114 - Fiat: 4130651 | 4142235 | 4145751 | 4202988 | 4249166 | 9936036 | 9941892 - Garef: 58350001 | 58350002  
 Italcacciai: SD107 - Lester: 16465 | 16521 | 16593 | 16700 - Lucas Indiel: 227632

0125

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Agrale: Mini Pá Carregadeira | Motor Estacionário M790 | Trator T4200 | Trator T4300 - Bobcat: Mini Pá Carregadeira com motor Agrale - Clark: Mini Pá Carregadeira

## MOTOR

Bosch: 9000453013 | 9000453048 - Wapsa: MPB38

## EQUIVALENTE / Equivalent

Bosch: 9001453349 - Lucas: TWB240 - Wapsa: 224040

0126

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Ford: Galaxie | Landau | LTD | Maverick com motor 302 CID 8 cil 1976...

## MOTOR

Wapsa: MPB35

## EQUIVALENTE / Equivalent

Wapsa: 224039

0131

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Volkswagen: Sedan 1200 | Sedan 1300 | Sedan 1500 | Sedan 1600 | Transporter 1.5, 1.6

## MOTOR

Bosch: 0001160003 | 0001160013 | 0001207016 | 0001207018 | 0001207019 | 0001211012

## EQUIVALENTE / Equivalent

Bosch: 1006209061 | 1006209102 | 1006209104 | 1006209161 | 1006209339 | 2006209160 | 2006209161 | 2006209311 - Italcacciai: SD457 - Lester: 16396 | 16450

Lucas Indiel: 223317 - Volkswagen: 113911335C

0133

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Asia Motors: Compressor AX430 - Case: Pá Carregadeira W36 com motor Cummins e Scania | Pá Carregadeira W36B com motor Cummins e Scania | Trator Agrícola 2470 | Trator Agrícola 4490 - Caterpillar: Grupo Gerador 3304T | Grupo Gerador 3306T | Moto Scraper 631E | Motoniveladora 120B 3306 | Motoniveladora 140B 3306 | Pá Carregadeira 930 | Pá Carregadeira 966 | Trator de Esteiras 631E | Trator de Esteiras D4D | Trator de Esteiras D4E | Trator de Esteiras D5B | Trator de Esteiras D6C | Trator de Esteiras D6D | Trator de Esteiras D6E | Trator de Esteiras D8L - Cummins: Chassi p/ ônibus UC210 | Chassi p/ ônibus RC210 | Motor 250 Super | Motor 6C | Motor 6CT | Motor 6CTA | Motor N855 - Fiat: Caminhão 190 | Caminhão 190T | Caminhão 210 | Caminhão 180 - Fiat Allis: Trator de Esteiras AD14 com motor Scania Fiat Iveco: Caminhão - Komatsu: Trator de Esteiras D60A com motor Cummins N855 | Trator de Esteiras D60E com motor Cummins N855 | Trator de Esteiras D60F com motor Cummins N855 | Trator de Esteiras D65A com motor Cummins N855 | Trator de Esteiras D65E com motor Cummins N855 - Mafersa: Trator M série M 210 com motor Cummins 6CTA 8.3 09/1991... | Trator M série M 240 com motor Cummins 6CTA 8.3 09/1991... - Massey Ferguson: Trator MF4780 com motor Scania DN11

Mercedes Benz: Caminhão 1520 | Caminhão 2020 OM355-5 | Caminhão 2624 | Caminhão MB856 | Caminhão MB858 | Caminhão MB866 | Caminhão MB868 | Caminhão/Ônibus 2220 | Caminhão/Ônibus 1419 | Caminhão/Ônibus 1420 | Caminhão/Ônibus 1517 | Caminhão/Ônibus 1518 | Caminhão/Ônibus 1519 | Caminhão/Ônibus 1524 | Caminhão/Ônibus 1525 | Caminhão/Ônibus 1924 | Caminhão/Ônibus 1924A | Caminhão/Ônibus 1929 | Caminhão/Ônibus 1932 | Caminhão/Ônibus 1933 | Caminhão/Ônibus 1934 | Caminhão/Ônibus 2019 | Caminhão/Ônibus 2219 | Caminhão/Ônibus 2624A | Chassi p/ Ônibus 1420 | Chassi p/ Ônibus 1517 | Chassi p/ Ônibus 1518 | Chassi p/ Ônibus O364 | Chassi p/ Ônibus O370 | Chassi p/ Ônibus O371 | Chassi p/ Ônibus O371UP | Chassi p/ Ônibus OH1419 | Motor Estacionário, gerador, industrial e marítimo OM314 | Motor Estacionário, gerador, industrial e marítimo OM352 | Motor Estacionário, gerador, industrial e marítimo OM352A | Motor Estacionário, gerador, industrial e marítimo O370 OM355-5, 6, 6A, 6LA | Motor Estacionário, gerador, industrial e marítimo O371 OM355-5A, 6A, 6LA | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5 | Ônibus O355 OM355-6 | Ônibus O364 OM355-5 e 6 | Ônibus O365 OM355-5 | Ônibus O371 | Ônibus O371UP | Ônibus O370 - MWM: Motor D232 | Motor TD232 - Scania: Caminhão 145 | Caminhão BR145 | Caminhão CR145L | Caminhão CR145T | Caminhão CR145X | Caminhão DSI14 | Caminhão L D11 | Caminhão L DS11 | Caminhão LS D11 | Caminhão LS DS11 | Caminhão LT 110 D11 | Caminhão LT 110S DS11 | Chassi p/ ônibus K112 | Chassi p/ ônibus S112 | Chassi p/ ônibus BR116S | Motor DN11 industrial e marítimo | Motor DS11 industrial e marítimo | Motor DS14 industrial e marítimo | Ônibus BR115 05/1975... | Ônibus BR115S 05/1975... | Ônibus BR116 05/1975... | Ônibus BR116S 05/1975... - Volkswagen: Caminhão VW14.170 | Caminhão VW14.210 | Caminhão VW16.170 | Caminhão VW16.210 - Volvo: Caminhão 210 | Caminhão N10 | Caminhão N12 | Caminhão NL10 | Caminhão NL10-340 | Caminhão NL2-400 | Chassi p/ ônibus B10M | Chassi p/ ônibus B58E

## MOTOR

Bosch: 0001410021 | 0001410041 | 0001410063 | 0001410089 | 9000084007 | 9000084008 | 9000084009 | 9000084010 | 9000084011 | 9000084012 | 9000084013 | 9000084014 | 9000084015 | 9000084016 | 9000084017 | 9000084018 | 9000084019 | 9000084020 | 9000084021 | 9000084022 | 9000084023 - Remy: 19024013 | 19024016 | 19024038 | 19024063 | 19024064 | 19024071 | 19024076 | 19024077 | 19024079 | 19024087 | 19024135 | 19024180 | 19024801

## EQUIVALENTE / Equivalent

Bosch: 2003162001 | 2003162005 | 2003162006 | 2003162016 | 2006401527 - Fiat: 9926536 - Lucas Indiel: 223197 - Remy: 19024391 | 19024909 - TJ: 0842116 | 0842190 | 0846190

0134

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 179

## APLICAÇÃO / Application / Aplicación

Case: Trator - Ford: Bedford - Hyundai: Pony - Massey Ferguson: Massey Ferguson

## MOTOR

Lucas Indiel: 27423A | 27452A | 27475A | 26275F/K | 26280F/J | 26306E/H | 27412A/D | 27416A/D

## EQUIVALENTE / Equivalent

Lester: 17642 - Lucas: TMB125 | 54247397 | 60600078

0135

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

American: Ambassador V8 4.8L 290cid 1968...1969 | Ambassador V8 5.0L 304cid 1970...1974 | Ambassador V8 5.0L 4982cc 304cid 1970...1974 | Ambassador V8 5.0L 4983cc 304cid 1970...1974 | Ambassador V8 5.6L 343cid 1967...1969 | Ambassador V8 5.6L 5585cc 343cid 1967...1969 | Ambassador V8 5.9L 360cid 1970...1974 | Ambassador V8 5.9L 5899cc 360cid 1970...1974 | Ambassador V8 5.9L 5900cc 360cid 1970...1974 | Ambassador V8 6.4L 390cid 1968...1970 | Ambassador V8 6.4L 6391cc 390cid 1968...1970 | Ambassador V8 6.6L 401cid 1971...1974 | Ambassador V8 6.6L 6571cc 401cid 1971...1974 | Ambassador V8 6.6L 6572cc 401cid 1971...1974 | American | AMX 8 cil 5.0L 304cid 1972...1974 | AMX 8 cil 5.0L 4982cc 304cid 1972...1974 | AMX 8 cil 5.0L 4983cc 304cid 1972...1974 | AMX 8 cil 5.9L 5899cc 360cid 1971...1974 | AMX 8 cil 5.9L 5900cc 360cid 1971...1974 | AMX 8 cil 6.6L 6571cc 401cid 1971...1974 | AMX 8 cil 6.6L 6572cc 401cid 1971...1974 | AMX V8 4.8L 290cid 1968...1969 | AMX V8 5.6L 343cid 1968...1969 | AMX V8 5.6L 5585cc 343cid 1968...1969 | AMX V8 5.9L 360cid 1970 | AMX V8 5.9L 5899cc 360cid 1970 | AMX V8 5.9L 5900cc 360cid 1970 | AMX V8 6.4L 390cid 1968...1970 | AMX V8 6.4L 6391cc 390cid 1968...1970 | Gremlin L6 3.8L 232cid 1973...1976 | Gremlin L6 3.8L 3802cc 232cid 1973...1974 | Gremlin L6 4.2L 258cid 1973...1976 | Gremlin L6 4.2L 4228cc 258cid 1973...1974 | Gremlin L6 4.2L 4229cc 258cid 1973...1974 | Gremlin V8 5.0L 304cid 1972...1976 | Gremlin V8 5.0L 4982cc 304cid 1972...1974 | Gremlin V8 5.0L 4983cc 304cid 1972...1974 | Hornet L6 3.8L 232cid 1973...1976 | Hornet L6 3.8L 3802cc 232cid 1973...1974 | Hornet L6 4.2L 258cid 1973...1976  
Jeep Truck: Cherokee L6 4.2L 258cid 1974...1976 | Cherokee L6 4.2L 4228cc 258cid 1974 | Cherokee L6 4.2L 4229cc 258cid 1974 | Cherokee V8 5.9L 360cid 1974...1976

## MOTOR

Autolite Prestolite: C5AF1A | C5AF/1A - Ford: C6FF11001 | C6FF11001A | C9FF11001B | D0FF11001B | D0FF11001C

## EQUIVALENTE / Equivalent

Bosch: 1987BE0004 - Chrysler: FO1912 | LM1901 | PL1991 - Ford: C6FF11350B | C9FF11350A | D6FF11350AA | D6FF11350BA - Lester: 3207 | 3208 | 3209 | 3211 | 3212 - Remy: 1838065 | 1938065

0139

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 200 | 220 | 230 | 250 | 280

## MOTOR

Bosch: 0001313004

## EQUIVALENTE / Equivalent

Bosch: 1006209080 | 1006209439 | 9001043178 - Italacciai: SD309 - Lester: 16299 | 16543

0140

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Daihatsu: Charmant | Delta - Toyota: Carina 1.4, 1.6, 2.0 | Celica 1.4, 1.6, 2.0, 2.2, 2.3 | Corolla | Corona 1.4, 1.6, 1.8, 1.9, 2.0, 2.2, 2.3, 2.6 | Crown | Dyna | FJ 60 | Hi Ace | Hilux | Mark2 | Sprinter 1.6

## MOTOR

Nippondenso: 280002250 | 280002260 | 280002364 | 280002660 | 280002681 | 280003051 | 280003710 | 280004330 | 280006100 | 280006103 | 280006422 | 280006494 | 280006800 | 280006810 | 280006813 | 280006823 | 280007093 | 280007132 | 280007332 | 280007460 | 280007461 | 280007470 | 280007520 | 280007521 | 280007780 | 280007981 | 280009010 | 280009020 | 280009570 | 280009680 | 280009960 | 1280001610 | 1280002050 | 1280008130 - Toyota: 2810034070 | 2810040061 | 2810042021 | 2810044041 | 2810060042

## EQUIVALENTE / Equivalent

Bosch: 1987BE0023 - Lester: 16215 | 16222 | 16224 | 16230 | 16238 | 16261 | 16766 | 16832 | 16843 | 17354 - Lucas Indiel: 223199 - Nippondenso: 0283000660 | 0283000901 | 0283000911 | 0283001951 | 0283003350 - Toyota: 2801115010 | 2801141020 | 2801141021 | 2801160040 | 2801160041

0141

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Chevy Lux - Isuzu: KB20 - Nissan: 1200 | 120Y | 1300 | 140Y | 160Y | Bluebird | Cedric | Cherry | Laurel | Skyline | Violet

## MOTOR

General Motors/Chevrolet: 94021044 | 94022494 | 94024438 - Hitachi: S11423 | S11471 | S11472 | S11487 | S11488 | S11491 | S11492 | S114455 | S114100 | S114103 | S114108 | S114118 | S114121 | S114122 | S114131 | S114133 | S114134 | S114136 | S114143 | S114150 | S114156 | S114192 | S11423K | S11487L | S11487M | S11487P | S11491K | S11492K | S114192 | S114103K | S114103L | S114103M | S114103N | S114103P | S114108L | S114121N | S114122N - Isuzu: 8821001260 | 8942010201 | 9821001260 | 9821006060 | 9821006350 - Nissan: 2330008700 | 2330009500 | 2330009600 | 2330009602 | 2330010600 | 2330010601 | 2330010605 | 2330010615 | 2330015800 | 2330015805 | 2330018000 | 2330018005 | 2330018015 | 2330021000 | 2330021005 | 2330021006 | 2330021007 | 2330021008 | 2330021009 | 2330021017 | 2330026900 | 2330026901 | 2330043300 | 2330043305 | 2330043405 | 2330048300 | 2330048301 | 2330078505 | 2330079400 | 23300E3000 | 23300E3001 | 23300E3100 | 23300E3101 | 23300H0100 | 23300H0101 | 23300H3900 | 2330221008 | 4330078505 | 23300099600

## EQUIVALENTE / Equivalent

General Motors/Chevrolet: 94021427 - Hitachi: 2114N1550 | 2114N1560 | 2114N4550 - Isuzu: 8821213620 | 8921233010 | 9811233010 | 9821233010 - Lester: 16190 | 16201 | 16203 | 16205 | 16207 | 16209 | 16211 | 16246 | 16270 | 16805 - Nissan: 233120990 | 2331210600 | 2331210605 | 2331221000 | 2331221005 | 2331243601 | 23312E3000 | 23312E3300 | 23312E6000 | 23312N0900



0144

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Ford: Laser - Mazda: Capella | Familia | Luce | Pick Up 1000 1.2 | Proceed - Mitsubishi: Celeste 1.6 com motor 4G5 | Colt 1.2 com motor 4G5 | Colt Galant 1.8, 2.0 com motor 4G5 | Galant 1.6 com motor 4G5 | Lancer Galant 4G5 | Trator - Nissan: 260 | 280 | Caball | E60 | ZX 300

## MOTOR

Mazda: 22218400 | 32418400 | 022218400A | 032418400A | 042618400A | 042618400B | 489418400B | 489418400C | 489418400D - Mitsubishi: MEWR | MQJR | ME031 | ME041 | MQJ1R | MQJ2R | MQJ6R | MCA020 | ME10WR | MEA010 | MEA011 | MEA030 | MEA031 | MEA040 | MEA041 | MEA061 | MEA071 | MEA121 | MEC012 | MED030 | MED031 | MED032 | MED034 | MED041 | MED042 | MED074 | ME10AZR | ME12AZR | M2T10171 | M2T10271 | M2T15772 | M3T10071 | M3T10072 | M3T10171 | M3T10271 | M3T10272 | M3T10371 | M3T10372 | M3T10572 | M3T10672 | M3T11172 | M3T11173 | M3T11174 | M3T11272 | M3T11372 | M3T11373 | M3T11772 | M3T12372 | M3T12572 | M3T12672 | M3T13071 | M3T13072 | M3T15072 | M3T15073 | M3T15074 | M3T15075 | M3T15171 | M3T15271 | M3T15372 | M3T15675 | M3T15772 | M3T15872 | M3T15972 | M3T19171 | M3T19271 | M3T19471 | M4T14674 | M4T14372 | M4T14572 | M4T14672 | M4T14673 | M4T14674 | M4T14771 | M4T14872 | M4T14672 | MD001550 | MD001552 | MD001553 | MD003550 | MD003551 | MD011550 | MD011553 | MD021665 | MD021666 | MD021670 | MD021672 | MD021676 | MD021679 | MD021686 | MED10AZR | M3T11173Q - Nissan: 2330078511

## EQUIVALENTE / Equivalent

Facet: 10127 - Lester: 16210 | 16500 | 16519 | 16520 | 16522 | 16524 | 16571 | 16588 | 16720 | 16742 | 18097 - Lucas Indiel: 223201 - Mazda: 022224722 | 175723709  
Mitsubishi: K300 | K320 | MD02052 | MD600679 | MD602052 | MD602678 | MD602679 | MD6020599 | M191T30171 | M191T30971 | M191T30972 | M191T30973 | M191T33071 | M191T602052 | M191T602059 - Nissan: 23312E3010 - Ww: 10127

0150

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Massey Ferguson: Especial/Special - New Holland: Especial/Special | Trator - Perkins: Estacionários | Industriais | Tratores

## MOTOR

Italacciai: 26273E - Lucas Indiel: 26246M | 26290B | 26304D | 26323A | 26427A | 26273E/F | 26273H/M | 26274E/F | 26274H/N | 26294D/E | 26294F/Q | 26295D/Q | 26343A/K | 26344A/F | 26345A/J | 26351A/H | 26357A/E | 26358A/H | 26365A/F | 26366A/F | 26369A/J | 26374A/F | 26376A/L | 26378A/H | 26393A/F | 26403A/D | 26404A/D | 26408A/E | 26409A/E | 26410A/B | 26411A/B | 26414A/E | 26436A/B | 26426MM50 | 26323AM50 | 26427AM50 | 26404ADM50

## EQUIVALENTE / Equivalent

Italacciai: SD198 - Lester: 16670 | 17071 | 17072 | 17649 | 17650 | 17651 | 17652 - Lucas: TMB100 | 54244938 | 54246285 | 54246654 | 60600066 - Lucas Indiel: 223205

0153

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Yanmar: Motor AE1 09/1977... | Motor AE2 09/1977...

## MOTOR

Bosch: 0001359086 | 9000083037 | 9000083057 | 9000143114 | 9000143115

## EQUIVALENTE / Equivalent

Bosch: 2006209445

0155

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Ford: Trator 2000 | Trator 3000 | Trator 8000 73 - Perkins: Estacionários | Industriais | Tratores

## MOTOR

Lucas Indiel: 27510 | 27573 | 27574 | 26236L | 26248M | 26256H | 26260E | 26285F | 26288F | 26412A | 26413A | 26422A | 27245A | 27403A | 27407A | 27408A | 27414A | 27435A | 27439A | 27446A | 27459A | 27469A | 27513A | 27568A | 27583D | 26238M/Q | 26259L/N | 26264H/K | 26271F/J | 26279F/K | 26281F/J | 26283H/K | 26310E/F | 26321D/F | 26347A/B | 26364A/F | 26370B/E | 26375A/D | 26387A/E | 26391A/B | 27409A/D | 27411A/B | 27415A/D | 27417A/D | 27420A/B | 27424A/B | 27426A/F | 27427A/E | 27429A/B | 27432A/E | 27433A/D | 27461A/B | 27464A/B | 27468A/B | 27470A/B | 27474A/B | 27502A/D | 27503A/D | 27514A/B | 27515A/E | 27518A/E | 27519A/D | 27522A/D | 27523A/D | 27524A/B | 27525A/B | 27526A/D | 27527A/B | 27532A/D | 27536A/D | 27537A/B | 27538A/D | 27539A/F | 27540A/H | 27541A/D | 27550A/B | 27559A/E | 27565B/D | 27570A/B | 27571A/B | 27572A/B | 26287F/J

## EQUIVALENTE / Equivalent

Bosch: 1987BE0024 - Cargo: 130452 - Italacciai: SD303 - Lester: 16606 | 16660 | 16670 | 17072 | 17639 | 17640 | 17641 | 17644 | 17645 | 17649 | 17651 | 17652 | 17653 - Lucas: TMB120 | TNB108 | TNB165 | 54247034 | 54247036 | 54268141 | 54294922 | 60600024 - Lucas Indiel: 228141

0158

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Peugeot: 404 | 504 | 505

0158

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## MOTOR

Lucas Indiel: 583514243

## EQUIVALENTE / Equivalent

Bosch: 1987BE0025 - Lucas Indiel: 227327 | 58351424

0160

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Ford: F100 1977... | Fairlane 77 | Falcon - Peugeot: Peugeot com motor indenor XD4. 88

## MOTOR

Lucas Indiel: 35255556 | 35255999

## EQUIVALENTE / Equivalent

Bosch: 1987BE0026 - Lucas Indiel: 227331 | 35257331 | 4A504187

0161

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Ford: Falcon 1963...1977 - General Motors/Chevrolet: Pick Up 400 | Pick Up C10 1963...1978 - Opel: K 180

## EQUIVALENTE / Equivalent

Bosch: 1987BE0027 - Lucas Indiel: 227332 | 4A54440 | 35257332

0162

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Ford: F100 | F1000 gasolina 6 cil 1995 | F150 | F250 | F350 | F400 | F600 | Fairlane | Falcon | Ranchero

## MOTOR

Lucas Indiel: 35258000

## EQUIVALENTE / Equivalent

Bosch: 1987BE0028 - Lucas Indiel: 228131 | 35257090 | 35257340 | 35258131

0163

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Agrale: Caminhão TX1100 M790 | Motor Estacionário M70 08/1977... | Motor Estacionário M790 08/1977... | Motor Estacionário M80 08/1977... | Motor Estacionário M85 08/1977... | Motor Estacionário M90 08/1977... | Motor Estacionário M93ID 08/1977... | Trator 4100 08/1977... | Trator 416 08/1977... | Trator 420 08/1977...

## MOTOR

Bosch: 9000082028

## EQUIVALENTE / Equivalent

Bosch: 9001082401 - Lucas: TMB401

0182

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Massey Ferguson: Colheiteadeira MF | Trator MF - TCM Equipment Ag: Série 42MT 24V com motor Detroit

## MOTOR

Ford: C8TF11000B | C8TZ11002A | E0HZ11002A | E0HT11000AA | E0HT11000AB - Remy: 1113852 | 1113871 | 1113873 | 1113940 | 1113941 | 1113985 | 1113988 | 1114052 | 1114077 | 1114094 | 1114101 | 1114146 | 1114154 | 1114168

## EQUIVALENTE / Equivalent

Facet: 10583 | 480417 - Ford: C8TZ11350A | C8WF11350A - Lester: 3758 | 3798 | 3945 | 3979 | 6257 | 6381 | 6500 | 6515 | 6547 | 6681 - Lucas Indiel: 223211 - Remy: 0800069 | 0800071 | 1893562 | 1894214 | 1894216 | 1947920 | 1950586 | 1971167 - Ww: 480417

0183

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Fiat: 128 com motor 1100 e 1300 - Renault: 4, 6 e 12 com motor 1100

0183

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## MOTOR

Ducellier: 6128A | 6144A

## EQUIVALENTE / Equivalent

Bosch: 1987BE0005 - Ducellier: 079692 - Lester: 16466 - Lucas Indiel: 227326 | 1018679

0184

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 180

## APLICAÇÃO / Application / Aplicación

Daihatsu: Charmant 1.3, 1.4, 1.6 | Delta - Toyota: Carina 1.4, 1.6 | Celica 1.4, 1.6 | Copain 1.0 | Corolla 1.2, 1.3, 1.4, 1.6 | Corona 1.4, 1.6 | Lite Ace | Pick Up | Sprinter | Starlet 1.0, 1.2

## MOTOR

Ford: SAE674A | D27Z11002A | D2T211002A | D37Z11002A | D2T2110002A - Italcacciai: 28002150 - Mazda: 57818400 - Mitsubishi: MD011550 - Nippondenso: 280000430 | 280001730 | 280001940 | 280001970 | 280001971 | 280001972 | 280001973 | 280002140 | 280002141 | 280002150 | 280002151 | 280002240 | 280002241 | 280002660 | 280002661 | 280002890 | 280002930 | 280002931 | 280002932 | 280002933 | 280003000 | 280003240 | 280003241 | 280003320 | 280003330 | 280003331 | 280003332 | 280003500 | 280003800 | 280003830 | 280003841 | 280003900 | 280003901 | 280004030 | 280004031 | 280004032 | 280004040 | 280004041 | 280004042 | 280004050 | 280004090 | 280004180 | 280004500 | 280004520 | 280004530 | 280004600 | 280004601 | 280004630 | 280004650 | 280004660 | 280004680 | 280004690 | 280004691 | 280004700 | 280004710 | 280005070 | 280005071 | 280005280 | 280006220 | 280006790 | 280009690 - Suzuki: 3110063210 - Toyota: 281002470 | 2810010012 | 2810010013 | 2810012030 | 2810012040 | 2810015050 | 2810015140 | 2810021030 | 2810022010 | 2810022011 | 2810022012 | 2810022020 | 2810022021 | 2810022022 | 2810023010 | 2810023012 | 2810024012 | 2810024020 | 2810024022 | 2810024030 | 2810024031 | 2810024060 | 2810024061 | 2810024070 | 2810024080 | 2810024090 | 2810024100 | 2810024680 | 2810025010 | 2810025011 | 2810025012 | 2810026020 | 2810026021 | 2810026022 | 2810032021 | 2810040040 | 2810040050 | 2810041010 | 2810041011 | 2810060010 | 2810087104 | 28100240012 | 28100240060

## EQUIVALENTE / Equivalent

Ford: SDE198 | D27Z11350A | D37Z11350A - Italcacciai: SD152 - Lester: 16215 | 16218 | 16230 | 16242 | 16245 | 16260 | 16261 | 16633 | 16637 | 16646 - Lucas Indiel: 223464 - Mazda: 029024830 - Mitsubishi: MD604047 | MD604048 | MD604080 - Nippondenso: 0283000851 | 0283001020 | 0283001540 | 0283001542 - Suzuki: 3132063210 - Toyota: 2801122010 | 2801122020 | 2801122022 | 2801123020 | 2801124020 | 2801124060 | 2801124080 | 2801126020 | 2801133033 | 2801140041 | 2801146010 | 2801187102 - Ww: 10121 | 10501 | 10504

0186

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Hyster: Empilhadeira com motor Perkins 4203 | Empilhadeira com motor Perkins 4236 | Empilhadeira com motor Perkins GM2500 4C | Empilhadeira com motor Perkins GM4100 6 cil - Perkins: Estacionários | Industriais | Tratores

## MOTOR

Bosch: 9000453007 | 9000453008 | 9000453044 | 9000453045 - Wapsa: MPB47 | MPB48

## EQUIVALENTE / Equivalent

Bosch: 9001453344 - Lucas: TWB245 - Wapsa: 224045

0188

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

TCM Equipment Ag: Série 42MT 24V Allis Chalmers

## MOTOR

Autolite Prestolite: MES6102K | MFJ6301D | MFJ6306C | MES6103LUT | MFY6104CUT - Bosch: 0001370002 | 0001420002 | 0001420006 | 0001420007 | 0001420008 | 0001420010 | 0001420011 | 0001420026 | 0001420027 | 0001421007 | 0001421009 | 0001421010 - Leece Neville: 7082MA | 7086MA | 7086MB | 7120MA | 7186MB | M0017232MA | M0017234MA | M0017274MA - Remy: 1103809 | 1108894 | 1108895 | 1109234 | 1109237 | 1109248 | 1109762 | 1109767 | 1109823 | 1109874 | 1109891 | 1113606 | 1113612 | 1113619 | 1113730 | 1113731 | 1113736 | 1113741 | 1113747 | 1113751 | 1113772 | 1113773 | 1113781 | 1113782 | 1113785 | 1113805 | 1113809 | 1113815 | 1113885 | 1114041

## EQUIVALENTE / Equivalent

Butec: 850629 | 852760 | 852959 - Facet: 480115 | 480320 - Lester: 3053 | 3056 | 3057 | 3058 | 3060 | 3061 | 3777 | 3846 | 3976 | 4749 | 4984 | 5311 | 6209 | 18022 | 18038 - Lifan: 101BMP2991 - Lucas Indiel: 223212 - Prestolite: PD8A - Remy: 1909514 | 1918079 | 1920669 | 1932031 | 1948764 | 1964300 | 1964302 | 1985129 - Utms: DV202749 - Ww: 480115

0189

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: Especial/Special - Citroën: Especial/Special - Peugeot: Especial/Special - Renault: Especial/Special

0189

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## MOTOR

Ducellier: 6189 | 6190 | 6212 | 6216 | 6220 | 6226 | 6237 | 6238 | 6242 | 6246 | 6247 | 6222A | 6226A | 6240A | 6242A | 532005 | 532007 | 532020 | 532026 | 533000 | 533002 | 533003 | 533004 | 534003 | 534004 | 534005 | 534007 | 6190AB | 6212AB | 6220AB | 6237AB | 6238AB | 6246AB | 6247AB | 532005A | 532007A | 533000A | 533002A | 534002A | 534003A | 583008A | 618090B | 618565A | 618795A | 6216ABC | 534004AB | 534005AB | 618078AB | 618358AB | 618482AB | 618484AB | 618077DEF | 618091ABC | 6189ABCDEF - Italcacciai: 006237A - Paris Rhone: D8E83 | D8RA114

## EQUIVALENTE / Equivalent

Bendix: 299033 | 299955 | 310629 | 313910 | 324565 | 325228 - Ducellier: 605028 | 605055 | 612355 - Fiat: 9937711 - Italcacciai: SD117 - Lester: 16462 | 16484  
Lucas: TMB211 - Lucas Indiel: 223467 - Paris Rhone: 078862 | 092079 | 093297 | 096118 - Valeo: NE180 | NE319 | 612355

0191

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Volkswagen: Karmann Ghia 1968...1972 | Kombi 1.2, 1.3, 1.5 1968...1972 | Pick Up 1.2, 1.3, 1.5 1968...1972 | Sedan 1.2, 1.3, 1.5 1968...1972 | SP1 1968...1972 | SP2 1968...1972 | TC1600 1968...1972 | TL1600 1968...1972 | Variant 1968...1972

## MOTOR

Bosch: 9000082003

## EQUIVALENTE / Equivalent

Bosch: 9001082128 | 9001082422 - Lucas: TMB486 - Lucas Indiel: 221486

0192

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Volkswagen: Brasília 1968...04/1981 | Karmann Ghia 1968... | Kombi 1.2, 1.3, 1.5 1968...04/1981 | Pick Up 1.2, 1.3, 1.5 1968...04/1981 | Sedan 1.2, 1.3, 1.5 1968...04/1981 | SP1 1968... | SP2 1968... | SP2 1968...04/1981 | TC1600 1968... | TL1600 1968... | Variant 1968...

## MOTOR

Wapsa: MWV12 | MWV12F

## EQUIVALENTE / Equivalent

Bosch: 1987BE0123 | 9001451292 - Lucas: TMB487 - Lucas Indiel: 221487 - Volkswagen: 1119113354 - Wapsa: 224012

0193

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Yale: Empilhadeira 51CP Ford 6 cil | Empilhadeira 51P Ford 6 cil | Empilhadeira 83A Gm 6 cil

## MOTOR

Wapsa: MPE1 | MPB25 | MPB27

## EQUIVALENTE / Equivalent

Bosch: 9001453387 - Wapsa: 224011

0198

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Clark: Empilhadeira

0205

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Ford: Falcon | Mustang II L4 2.0L 1989cc 122cid 1974 | Mustang II L4 2.0L 1993cc 122cid 1974 | Mustang II L4 2.3L 140cid 1974...1977 | Mustang II L4 2.3L 2295cc 140cid 1974 | Mustang II L4 2.3L 2302cc 140cid 1974 | Pinto L4 1.6L 1598cc 98cid 1971...1973 | Pinto L4 1.6L 1599cc 98cid 1971...1973 | Pinto L4 2.0L 1989cc 122cid 1971...1974 | Pinto L4 2.0L 1993cc 122cid 1971...1974 | Pinto L4 2.3L 140cid 1974...1977 | Pinto L4 2.3L 2295cc 140cid 1974 | Pinto L4 2.3L 2302cc 140cid 1974 - Mercury: Bobcat L4 2.3L 140cid 1975...1977 - Versatile: 330 1970...1978

## MOTOR

Ford: C4DZ11001A | C4DZ11001B | D0DF11001A | D1FF11001A | D1FF11001AA

## EQUIVALENTE / Equivalent

Chrysler: FO1903 | FO1910 - Ford: C2DF11350C | C4DF11350A | C4DZ11350A | C4DZ11350B | C4ZZ11350B | C8DF11350B | C8DF11350G | C8OF11350A | D1RY11350B | D1RY11350C | D2RY11350B | D4RY11350A | D6PZ11350A | D6EF11350AA | D6EF11350BA | D6GF11350AA | D6GF11350BA - Lester: 3148 - Remy: F2003 | 1972286

0213

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Fiat: 124 Special 1.4 e 0.6 | 125 Special | 130 | 131 1.6 e 1.8 | 132 1.6, 1.8 e 0.2 | Abarth Rally | Brava | Campagnola 1107 A | Campagnola AD | Campagnola JD | Dino | Racing | Special 1.6 | Sport Coupe | Sport Spider | Super Brava | Super Mirafiori Biald 1.3, 1.6, 1.8 - Lada: 2104 | Lada 1200 | Lada 1500 | Laika | Niva | Niva Vaz 2121 - Lancia: Beta | HPE | Trevi - Seat: 124 1.8 | 131 1.6 | 131E | 132 | 1430 1.6, 1.8

## MOTOR

CBT: 21013708000 - Femsas: MTD129 | MTD1214 | MTD1219 | MTD12H8 | MTD12P6 | MTD12V9 - Fiat: 4156064 | 4162784 | 4206634 | 4285916 | 4294494 | 4294495 | 4474599 | 4474714 | 4474746 | 4474747 | 4474762 | 4474976 | 4474979 | 4475025 | 4475130 - Italciaai: MTD1209 - Magneti Marelli: 36222700 | 63222400 | 63222405 | 63222408 | 63222409 | 63222430 | 63222435 | 63222438 | 63222439 | 63222501 | 63222502 | 63222531 | 63222532 | 63222536 | 63222602 | 63222605 | 63222632 | 63222635 | 63222636 | 63222700 | 63222701 | 63222706 | 63222730 | 63222731 | 63222736 - Porsche: 21013708000 | CT2213708000

## EQUIVALENTE / Equivalent

Bosch: 9001133219 - CBT: 210137086200 | CT2213708600 - Femsas: 1706110 - Fiat: 4154293 | 4243124 | 4475122 - Garef: 1470824 - Italciaai: SD108 - Lada: 21013798620 | 210103708620 | CT2213708600 - Lester: 16257 - Lucas: TMB620 - Lucas Indiel: 221601 - Porsche: 21013708620 | CT2213708600

0215

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Peugeot: 504 Diesel | 505 Diesel | Pick Up 504 com motor Indenor XD-2S | Pick Up 504 com motor Indenor XD-6.90 | Pick Up 504 com motor Indenor XD-4.90

## MOTOR

Italciaai: D11E159 - Paris Rhone: D11E159 | D11E165

## EQUIVALENTE / Equivalent

Italciaai: SD400 - Lucas Indiel: 223481 - Paris Rhone: 95990

0216

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Peugeot: 504 D | 505 D | 604 TD | J7 D | J9 D - Renault Agri: R 7221 - Volvo: Motor Estacionário com motor Indenor XDP 4.90 e 6.90 | Motor Marine com motor Indenor XDP 4.90 e 6.90

## MOTOR

Italciaai: D11E156 - Paris Rhone: D11E156

## EQUIVALENTE / Equivalent

Italciaai: SD813 - Lester: 16715 - Lucas Indiel: 223482 - Paris Rhone: 95956

0217

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Peugeot: 403 Diesel | 404 Diesel | 504 Diesel - Renault: Trator R7201 | Trator R85 | Trator R87

## MOTOR

Italciaai: D11E079 - Paris Rhone: D11E79 | D11E105 | D11E109 | D11E110 | D11E115 | D11E142 | D11E143

## EQUIVALENTE / Equivalent

Bendix: 333418 - Italciaai: SD192 - Paris Rhone: 55105 | 70672 - Valeo: NE156

0220

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Ford: Capri 1.3 e 1.6 | Escort 1.1 e 1.3 | Taunus 1.3 e 1.6

## MOTOR

Bosch: 0001208049 | 0001211206 | 0001211989

## EQUIVALENTE / Equivalent

Bosch: 1006209437 | 2006209321 - Italciaai: SD447 - Lester: 16405

0221

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 220 L4 2.2L 2197cc 134cid gasolina 1968...1973 | 220 L4 2.2L 2197cc gasolina 1968...1973 | 220D L4 2.2L 2197cc 134cid gasolina 1968...1973 | 220D L4 2.2L 2197cc gasolina 1968...1973 | 230 L4 2.3L 2307cc gasolina 1974...1978 | 230 L6 2.3L 2306cc 141cid gasolina 1968...1969 | 230S L6 2.3L 2306cc 141cid gasolina 1968...1969 | 230SL L6 2.3L 2306cc 141cid gasolina 1963...1967 | 250 L6 2.5L 2496cc 152cid gasolina 1968...1970 | 250 L6 2.8L 2778cc 169cid gasolina 1971...1973 | 250 L6 2.8L 2778cc gasolina 1971...1972 | 250C L6 2.8L 2778cc 169cid gasolina 1969...1973 | 250C L6 2.8L 2778cc gasolina 1970...1972 | 250S L6 2.5L 2496cc 152cid gasolina 1966...1968 | 250SE L6 2.5L 2496cc 152cid gasolina 1966...1968 | 250SEC L6 2.5L 2496cc 152cid gasolina 1966...1968 | 250SL L6 2.5L 2496cc 152cid gasolina 1966...1968 | 280 L6 2.8L 2746cc gasolina 1973...1976 | 280C L6 2.8L 2746cc gasolina 1973...1976 | 280CE L6 2.8L 2746cc gasolina 1978...1980 | 280CE L6 2.8L 2778cc gasolina 1981 | 280E L6 2.8L 2746cc gasolina 1977...1980 | 280E L6 2.8L 2778cc gasolina 1981 | 280S L6 2.8L 2746cc gasolina 1975...1976 | 280S L6 2.8L 2778cc gasolina 1969...1971 | 280SE L6 2.8L 2746cc gasolina 1977...1980 | 280SE L6 2.8L 2778cc gasolina 1969...1972 | 280SE L6 2.8L 2778cc gasolina 1969...1971 | 280SEL L6 2.8L 2778cc gasolina 1969...1971 | 280SEL L6 2.8L 2778cc gasolina 1969...1971 | 280SEL L6 2.8L 2778cc gasolina 1972...1973 | 280SEL V8 4.5L 4520cc gasolina 1972...1973 | 280SL L6 2.8L 2778cc 169cid gasolina 1969...1971 | 280SL L6 2.8L 2778cc gasolina 1969...1971 | 300SEL L6 2.8L 2778cc gasolina 1968...1969 | 300SEL L6 3.0L 183cid gasolina 1963...1967 | 300SEL L6 3.0L 2996cc 183cid gasolina 1963 | 300SEL L6 3.0L 2996cc 183cid gasolina 1965 | 300SEL V8 3.5L 3504cc gasolina 1970...1971 | 300SEL V8 4.5L 4520cc gasolina 1972...1973 | 350SL V8 4.5L 4520cc 276cid gasolina 1972 | 350SL V8 4.5L 4520cc gasolina 1972 | 380SE V8 3.8L 3839cc gasolina 1984...1985 | 380SEC V8 3.8L 3839cc gasolina 1982...1983 | 380SEL V8 3.8L 3839cc gasolina 1981...1983 | 380SL V8 3.8L 3839cc gasolina 1981...1985 | 380SLC V8 3.8L 3839cc gasolina 1981 | 420SEL V8 4.2L 4196cc gasolina 1986...1987 | 450SE V8 4.5L 4520cc gasolina 1973/1974...1976 | 450SEL V8 4.5L 4520cc gasolina 1973/1974...1976 | 450SL V8 4.5L 4520cc gasolina 1973/1974...1976 | 450SLC V8 4.5L 4520cc gasolina 1973/1974...1976 | 500SEC V8 5.0L 4973cc gasolina 1984...1985 | 500SEL V8 5.0L 4973cc gasolina 1984...1985 | 560SEC V8 5.6L 5547cc gasolina 1986...1987 | 560SEL V8 5.6L 5547cc gasolina 1986...1987

## MOTOR

Bosch: 0001313003 | 0001313004 | 0001313005 | 0001313006 | 0001313007 | 0001314002 | 0001314005

## EQUIVALENTE / Equivalent

Bosch: 1006209402 | 2006209273 - Italtacciai: SD469 - Lester: 16299 | 16543 - Lucas: TMB404 - Mercedes Benz: 0001515813

0222

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Ford: Capri 1.3, 1.6, 2.0 | Escort 1.1, 1.3, 1.6 | Escort RS 1600 | Escort RS 2000 | Fiesta 1.1, 1.3, 1.6 | Fiesta XR2 | Granada | Taunus 1.3, 1.6, 2.0

## MOTOR

Bosch: 0001208220 | 0001208223 | 0001208232 | 0001208409 | 0001208423 | 0001211227 | 0001211228 | 0001211239 | 0001311113

## EQUIVALENTE / Equivalent

Bosch: 1006209429 - Italtacciai: SD137 - Lester: 16405 | 16530 | 16595 - Lucas Indiel: 223486

0223

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 181

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: 2600TT - BMW: 1500 | 1502 | 1600 | 1602 | 1800 | 1800TI | 1802 | 2000 | 2002 | 2002 Turbo | 2500 | 2800 | 3000 | 316 | 318 | 320 | 320i | 3300 | 518 | 520 | 520i | 525 | 528 | 528i | 728 - Ford: Transit 100 | Transit 1250 | Transit 1500 | Transit 800 - Kawasaki: 33 | 34 - KHD: D25 | D2505 | D30 | D30 S | D3005 | F2L712 | F2L812 - Mercedes Benz: L206 | L207 | L306 | L307 - Porsche: 33.1 | 616

## MOTOR

Bosch: 0001207003 | 0001207006 | 0001207012 | 0001207014 | 0001207015 | 0001208004 | 0001208006 | 0001208007 | 0001208032 | 0001209001 | 0001209006 | 0001209014 | 0001211020 | 0001214001 | 0001310005 | 0001310010 | 0001310013 | 0001311007 | 0001311016 | 0001311025 | 0001311045

## EQUIVALENTE / Equivalent

Bosch: 1006209030 | 1006209032 | 1006209039 | 1006209049 | 1006209056 | 1006209071 | 1006209105 | 1006209110 | 1006209140 | 2006208013 | 9003336212  
Italtacciai: SD306 - Lester: 16320 | 16334 | 16336 | 16344 | 16356 | 16362 | 16442 | 16687 | 17414 - Lucas Indiel: 223320

0224

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Harvester: D 430 | D 432 | D 439

## MOTOR

Bosch: 0001354026 | 0001354032

## EQUIVALENTE / Equivalent

Bosch: 2006208014 | 2006209031 | 2006209185 | 2006209901 - Italtacciai: SD015

0225

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: Alfetta 2.0 turbo diesel - KHD: F1L410 | F2L410 | F2L411 | F3L912 | FHL912 - Lamborghini: 503DT | 603DT | R503 | R603

0225

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## MOTOR

Bosch: 0001358017 | 0001358038 | 0001358046 | 0001358047

## EQUIVALENTE / Equivalent

Bosch: 2006209071 | 2006209366 | 2006209386 | 2006209916 - Fiat: 8122123 - Italcacciai: SD013 - Lester: 17074 | 17112

0226

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Atlas Copco: Especial/Special - KHD: D4005 | D4505 | D5005 | D5505 | F3L812 | F4L812 - Lamborghini: 7R | 7R DT | R355 DT

## MOTOR

Bosch: 0001354010 | 0001358018 | 0001358020 | 0001358027 | 0001358033

## EQUIVALENTE / Equivalent

Bosch: 2006209013 | 2006209072 | 2006209073 | 2006209388 | 2006209917 - Italcacciai: SD038

0227

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 220B | 220SB | 220SEB - Volvo: 100100 | 100200 | 121 | 122 | 123 | 144 | 210 | 221 | AQ90 | AQ95 | C303 | C304 | C306 | P1800S

## MOTOR

Bosch: 0001203016 | 0001305016 | 0001308006 | 0001354010 | 0001354029 | 0001354034 | 0001354036 | 0001354040 | 0001354046 | 0001354049 | 0001354065 | 0001355004

## EQUIVALENTE / Equivalent

Bosch: 2006209021 | 2006209032 | 2006209181 | 2006209902 | 9003336212 - Femsa: 150534 - Italcacciai: SD415

0228

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Audi: 100 5D turbo D 2.0 - Mercedes Benz: 180D 2.5 | 200D | 207D | 209D | 220D | 240D | 240D 3.0 | 240GD | 240TD | 300CD | 300D | 300GD | 300SD | 300TD | 307D | 309D | 407D | 409D | D206 | D306 | DG206 | DG306 | L206 | L306 | L407D | O309D | U52 60 | U600 - Volkswagen: LT28 | LT31 | LT35 | LT40 | LT45 | LT50D - Volvo: 240D5 | 240D6 | 760 turbo diesel

## MOTOR

Bosch: 0001362038 | 0001362047 | 0001362069 | 0001362070 | 0001362077 | 0001362078 | 0001362083 | 0001362600 | 0001362601 | 0001362605 | 9000143408 - Iskra: 11130300

## EQUIVALENTE / Equivalent

Bosch: 2006209471 | 2006209500 - Cargo: 130414 - Iskra: 16900920 - Italcacciai: SD060 | SD307 - Lester: 16445 | 16949 | 16957 | 16999 - Lucas: TMB471  
Lucas Indiel: 223222

0229

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Volkswagen: Kombi | Transporter 1.6, 1.9, 2.0

## MOTOR

Bosch: 0001211221 | 0001211222 | 0001211251 | 0001211252 | 0001211253 | 0001211254

## EQUIVALENTE / Equivalent

Bosch: 1006209423 | 9001042013 | 9001042032 - Italcacciai: SD453 - Lester: 16401 | 16546 | 16722 | 17066 - Lucas: TMB439

0238

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Ford: Sierra 2.3 | Taunus 2.0 e 2.3

## EQUIVALENTE / Equivalent

Bosch: 1987BE0029 - Lucas Indiel: 227339 | 35256777

0243

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Ascona | Blitz | Kadett | Manta | Omega 2.0 | Vectra 2.0 - Opel: Kadett

## MOTOR

Remy: 3471141 | 3471143 | 3471144

## EQUIVALENTE / Equivalent

Bendix: 344511 - Lester: 16443 - Lucas Indiel: 223223 - Remy: DR2000 | DR2001 | DR2003 | 3471040 | 3471490 | 3471912

0244

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Dacia: ARO - Renault: R12 | R15 | R17 | R5 | R6 | R8 - Volvo: Especial/Special

## MOTOR

Ducellier: 6206AB | 532017A | 6183CFG | 6224BCD | 6231ABC | 532000AB | 532001AB | 6203ABCD | 6227ABCD | 6178ABCEF - Italacciai: 006162E

## EQUIVALENTE / Equivalent

Bendix: 286942 | 293398 | 294698 | 295883 | 297440 | 303300 | 303710 | 305949 | 307049 | 309008 - Bosch: 1987BE0006 - Ducellier: 6162 | 6187 | 6203 | 6206 | 6224 | 018678 | 019567 | 532000 | 532001 | 532017 | 606416 | 609477 | 611736 | 6227AB | 6227CD | 681380 | 6183CFG | 6231ABD - Italacciai: SD158 - Lester: 16488

Lucas Indiel: 35255553 | 35257326 - Valeo: NE325 | 681380

0245

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Renault: R4 | R5 | R6

## MOTOR

Ducellier: 6185ABC | 6219ABC - Italacciai: 006138A

## EQUIVALENTE / Equivalent

Bendix: 289862 | 302613 - Ducellier: 60846 | 681378 - Italacciai: SD194 - Lester: 6185 - Lucas Indiel: 223505 - Valeo: NE324

0248

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Renault: R12 | R12 Canada | R18 | R4 | R5 | R5 U.S.A | R6 | Trafic

## MOTOR

Italacciai: D8E081 - Paris Rhone: D8E81 | D9E12 | D9E20 | D9E22 | D9E26 | D9E34 | D9E35 | D9E37 | D9E41 | D8E121 | D8E142 | D8E152

## EQUIVALENTE / Equivalent

Bendix: 325231 - Italacciai: SD324 - Lester: 16488 | 16597 | 16755 - Lucas Indiel: 223224 - Paris Rhone: 076980 | 093623 | 097062 - Valeo: 097062 | NE184

0285

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Renault: R5 | R6

## MOTOR

Paris Rhone: D8E130 | D8E131

## EQUIVALENTE / Equivalent

Bendix: 325232 - Italacciai: SD002 - Paris Rhone: 95464 - Renault: 7701019295 - Valeo: 095464 | NE173

0286

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Perkins: V8 540 1983...

## MOTOR

Lucas Indiel: 26234K | 26336A/R | 26337A/H | 26349A/H | 26363A/J | 26367A/D | 26382A/B | 26384A/B | 26389A/D | 26398A/H | 26416A/E | 26420A/B | 26421A/B | 26428A/B | 26429A/B | 26433A/B | 26435A/B | 26435AM50 | 26336AFM50 | 26349DHM50

## EQUIVALENTE / Equivalent

Italacciai: SD076 - Lester: 16669 | 16984 | 17644 | 17648 | 17654 | 18262 - Lucas: TMB102 | 54243781 | 54246662 | 60600050 - Lucas Indiel: 223226



0287

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Peugeot: 405 | 504 | 505 - Renault: R19 com motor valeo

## MOTOR

Paris Rhone: D9E36 | D9E38 | D9E39 | D9E46 | D9E48 | D9E49 | D9E52 | D9E54 | D9E55 | D9E56 | D9E61 | D9E62 | D9E66 | D9E68 | D9E69 | D9E70 | D9E74 | D9E76 | D9E77 | D9E78 | D9E79 | D9E81 | D9E85 | D9E86 | D9E100 | D9E101 | D9E109 | D9E110 | D9E113 | D9E114 | D9E123 | D9E124 | D9E125 | D9E127 | D9E129 | D9E771 | D9E773 - Valeo: D9E123

## EQUIVALENTE / Equivalent

Bosch: 1987BE0030 - Fiat: 9405835568 - Italacciai: SD318 - Lester: 16619 | 16756 | 16797 | 17144 | 17157 - Lucas: TMB263 - Lucas Indiel: 221263 - Paris Rhone: 013610 | 99931 - Valeo: 099931 | NE197 | 184917

0290

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Atlas Copco: PR700 - Iveco: 320-31 - KHD: 290D | 310D | 340D | BF8L513C | DP210 | F10L312 | F10L413 | F12L413 | F8L413 | F8M716 | M270D  
Magirus Deutz: 320M | M270D | M310D | M340D

## MOTOR

Bosch: 0001510001 | 0001510002 | 0001510008 | 0001510009 | 0001510017 | 0001510021 | 0001510022 | 0001510024 | 0001510030 | 0001510034 | 0001510035 | 0001510040

## EQUIVALENTE / Equivalent

Bosch: 2006382062

0291

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 182

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: 30 | 32 | 35 | 40 AR8 - Fiat: 131D 2.0 e 2.5 | 132D 2.0 e 2.5 | 241TN | 40NC | 465C | 466DT | 480DT | 500 | 500DT | 505 | 505C | 505S | 50F8 | 50NC | 540 | 540DT | 55F8 | 55NC | 565C | 566DT | 570 | 570DT | 580 | 580DT | 60F8 | 616N3 4 | 625N3P | Argenta 2.5 | BI20 25 30 C | BIM20 25 | Campagnola diesel | DI12 15 | DT450 | Marengo D 2.5 | R450 - Fiat Iveco: Ducato 10 2.5D | Ducato 13 2.5D | Furgão Daily

## MOTOR

Bosch: 0001362039 | 0001362062 | 0001362073 | 0001362102 | 0001362322 | 0001362323 | 0001363111 | 0001363122

## EQUIVALENTE / Equivalent

Bosch: 2006209470 | 2006209483 | 9001451343 | F002G20279 - Fiat: 9936730 | 9937949 | 9956676 | 9983629 | 79026090 - Italacciai: SD184 - Lucas Indiel: 223227

0292

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Blazer

## MOTOR

Chrysler: 4226833 | 4240404 | 4339472 | 4339474 | 5213045 | 5213450 | 5226441 | 5226442

## EQUIVALENTE / Equivalent

Bosch: 1006209475 | 1006209477 | 9001042100 - Chrysler: 5213384 - Lester: 16727 | 16974 - Lucas Indiel: 223321

0293

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

Ford: 100 1.5 | Belina com motor CHT | Corcel II com motor CHT | Del Rey Scala com motor CHT | Escort 1.3, 1.6 com motor CHT | FT100 | FT125 | FT130 | FT150 | FT175 | FT190 1.7 | FT75 | Pampa todos com motor CHT - Volkswagen: Gol 1.8 a gasolina, álcool | Santana 1.8 a gasolina, álcool | Saveiro 1.8 a gasolina, álcool

## MOTOR

Bosch: 9000451001 | 9000451010 | 9000451017 | 9000451024 - Wapsa: MWB23 | MWB25

## EQUIVALENTE / Equivalent

Bosch: 9001451249 | 9001451251 - Lucas: TWB251 - Lucas Indiel: 223228 - Volkswagen: BD5M11350A | ZBC911335A - Wapsa: 224051 | 224053

0294

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

Puma: Puma GT com motor VW 05/1981... - Volkswagen: Brasilia refrigerada a ar 05/1981...06/1981 | Gol refrigerado a ar 05/1981...06/1981 | Kombi refrigerada a ar 05/1981...06/1981 | Saveiro refrigerado a ar 05/1981...06/1982 | Sedan 1.3, 1.5, 1.6 refrigerado a ar 05/1981...06/1983

0294

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

EQUIVALENTE / Equivalent

Lucas: TWB2520 - Wapsa: 224052

0297

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

APLICAÇÃO / Application / Aplicación

Peugeot: Especial/Special - Renault: Especial/Special

MOTOR

Femsa: 259177

EQUIVALENTE / Equivalent

Bosch: 1987BE0031 - Femsa: 259177

0300

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

APLICAÇÃO / Application / Aplicación

BMW: 2500 | 2800 | 3000 | 3300 | 525 | 528 | 530 | 630 | 635 | 663 | 728 | 730 | 732 | 733 | 735 | 745 | M535i

MOTOR

Bosch: 0001311042 | 0001314001

EQUIVALENTE / Equivalent

Bosch: 1006209081 | 1006209444 | 9001693029 - Italcacciai: SD451 - Lester: 16362

0301

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

APLICAÇÃO / Application / Aplicación

Fiat Iveco: 30.8 | 35.8 | 40.8 | Daily 28.8 | Daily 30.8 | Daily 35.8 | Daily 40.8 | Daily N100 | Daily N110 | Daily N40 | Daily N40.35 | Daily N50 | Daily N55 | Daily N60 | Daily N65

MOTOR

Bosch: 0001358049 | 0001359012 | 0001359014 | 0001359025 | 0001359027 | 0001359043

EQUIVALENTE / Equivalent

Bosch: 2006209341 - Lester: 16560 | 17073 | 17074 | 17076 | 17106 | 17136 | 17184 | 17228 | 17230 | 18032 | 18111 | 18229 | 18237

0302

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

APLICAÇÃO / Application / Aplicación

Massey Ferguson: E7C | MF155 | MF158 | MF168 | MF186 | MF187 | MF188 | MF487 | MF507 | MF510 | MF520 | MF525 | MF87 | SC50 | SM6A | SM6B | SM6C | SM7 | SM8 | SM8TU - Perkins: Estacionários | Industriais | Tratores - Volvo: Especial/Special

MOTOR

Bosch: 0001359002 | 0001359008 | 0001359009 | 0001359011 | 0001359020 | 0001359034 | 0001360013 | 0001360020 | 90000143101

EQUIVALENTE / Equivalent

Bosch: 2006209111 | 2006209305 | 2006209345

0303

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

APLICAÇÃO / Application / Aplicación

Navistar: Especial/Special

MOTOR

Bosch: 9000083039

EQUIVALENTE / Equivalent

Bosch: 9001083471

0304

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

John Deere: 1020U | 2030OU | JD300 | JD310 | JD350 | JD400 | JD450 | MD1020 | MD1120 | MD1530 | MD1630 | MD1830 | MD2030 | MD2130 | MD290 | MD3130 | MD330 | MD820 | MD820VU | MD830 | MD925 | MD930 | MD935 | MD940 | MD942 | MD945 | MD950 | MD952 | MD955 | MD960 | MD965 | MD968 | MD969 | MD970 | MD975 | VU. 1630 - Müller: 1020OU/VU | 1630 | 2030OU | JD300 | JD310 | JD350 | JD400 | JD450 | MD1020 | MD1120 | MD1530 | MD1630 | MD1830 | MD2030 | MD2130 | MD3130 | MD820 | MD820VU | MD830 | MD920 | MD925 | MD930 | MD935 | MD940 | MD942 | MD945 | MD950 | MD952 | MD955 | MD960 | MD965 | MD968 | MD969 - Zanello: Trator com motor Cummins

## MOTOR

Bosch: 0001359016

## EQUIVALENTE / Equivalent

Bosch: 2006209200 | 2006209201 - Italcacciai: SD018 - Lucas Indiel: 223555

0307

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: Alfasud 1.2, 1.5 | Alfetta 1.6, 1.8 | Giulia Super 1.3, 1.6 | GT Junior | GT Veloce 2000 - Ford: Capri 1.3, 1.5 e 2.0 | Consul 1.7 | Granada 1.7 e 2.0 V6 | Taunus 2.0 V6 - Mercedes Benz: 220 | 230 | 280

## MOTOR

Bosch: 0001208040 | 0001208055 | 0001211025 | 0001211987 | 0001211988 | 0001211995 | 0001211996

## EQUIVALENTE / Equivalent

Bosch: 1006209403 | 2006209163 - Italcacciai: SD449 - Lester: 16299 | 16401 | 16532 | 16539 | 16688

0308

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

ABG: Alexander 126 F3L912 Deutz Diesel 1968...1976 | Alexander 126H F3L912 Deutz Diesel 1976...1982 | Alexander 128 F4L912 Deutz Diesel 1976...1982 | Alexander 128G F4L912 Deutz Diesel 1976...1982 | BV 590 F4L912 Deutz Diesel 1969...1980 | MAW 172 F4L912 Deutz Diesel 1969...1980 | MAW 172S F4L912 Deutz Diesel 1969...1980 | MAW 173 F4L912 Deutz Diesel 1969...1980 | MAW 173S F4L912 Deutz Diesel 1969...1980 | Puma 168 F3L912 Deutz Diesel 1976...1982 | Puma 168A F3L912 Deutz Diesel 1976...1982 | Puma 177 F6L912 Deutz Diesel 1976...1982 | Puma 177V F6L912 Deutz Diesel 1976...1982 | Puma 177VS F6L912 Deutz Diesel 1976...1982 | Puma 178 F6L912 Deutz Diesel 1976...1982 | Titan 300 F6L912 Deutz Diesel 1967...1971 | VAS 512 F3L912 Deutz Diesel 1969...1980 | WZ 172 F4L912 Deutz Diesel 1969...1980 | WZ 172S F4L912 Deutz Diesel 1969...1980 - Carraro: Tigrone 625 - Claas: Consul Deutz F4L912 1967...1974 | Corsar Deutz F4L912 1974...1975 | Cosmos Deutz F4L912 1967...1972 | Europa Deutz F4L912 1967...1972 | Mercator Deutz F4L912 1968...1972 | Mercator 50 Deutz F4L912 1973...1974 | Mercator 60 Deutz F6L912 1973...1981 | Mercator 70 Deutz F6L912 1973...1974 | Mercator 75R Deutz F6L912 1974...1981 | Mercur Deutz F4L912 1967...1972 | Senator Deutz F6L912 1966...1972 - Deutz: F3L911 2.5L 2460cc 1967...1970 | F4L911 3.3L 3280cc 1971...1973 | F4L912 3.8L 3770cc 1971...1972 - Fiat Allis: 1300 | 1300 DT | 850 | 850 T - Massey Ferguson: 450B | 450C | MF 33B Mercedes Benz: 302Y.M.303 - Palmieri: 1500 GN 80 | 1500 GN 95 | 1800 GN 110 | 1800 GN 90 - Poclair: FC 30 | LC 80 | LY 80 | MCL 84 - Steyr Puch: 1000 | 1200 | 586 | 590 | 690

## MOTOR

Bomag: 5710901 | 5710903 | 5710905 | 5710919 | 5710927 | 5710930 | 5719897 | 57109019 - Bosch: 0001359077 | 0001364100 | 0001364105 | 0001365004 - Case: E010372 - Deutz: 1161422 | 1172099 | 1302023 | B17R24X4 - Fiat: 42522942 - IHC Navistar: 3144932R92 - John Deere: SE501414 - KHD: 1161420 | 1161422 | 1163626 | 1163669 | 1163758 | 1172099 | 1301833 | 1302023 - Liebherr: 6200827 - Mack Truck: 8MJ4167 - Massey Ferguson: 114939701 | 114939702 Orenstein Koppel: 6209190 - Renault: 5000046311 | 5000240884 | 7700525547 - Scania: 183868 | 188486 - Steyr: 6090926 - Volvo: 240847 | 241599 | 243007 | 243043 | 243326 | 4785539 | 4785541

## EQUIVALENTE / Equivalent

Bosch: 2006209406 | 2006209422 - Lester: 16560 | 17073 | 17074 | 17076 | 17106 | 17136 | 17184 | 17228 | 17230 | 18029 | 18030 | 18032 | 18033 | 18111 | 18229 | 18237

0310

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: 30AR8 | 32AR8 | 35AR8 | 40AR8 - Fiat: 241TN | 450 | 450DT | 500 | 500DT | 540 | 540DT | 616N3 | 616N3,4 | 625N3 - Fiat Iveco: Daily

## MOTOR

Bosch: 0001362032 | 0001363101

## EQUIVALENTE / Equivalent

Bosch: 2006209240 | 2006209330 | 2006209418 | 2006209448 - Fiat: 8997796 | 9934739 | 9934977 | 9957820 | 79026236 - Italcacciai: SD123 - Lester: 17093 | 18031 Lucas Indiel: 223561

0312

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

KHD: F2L912 | F3L912 - Lamborghini: R240DT | R350DT - Valmet: 103 104SU | 1051 | 1052 | 1053 | 1054 | 1056SU | 1056SV | 112 113DAN | 395SV

## MOTOR

Bosch: 0001362012 | 0001362013 | 0001362016 | 0001362017 | 0001362021 | 0001362024 | 0001362033 | 0001363002

## EQUIVALENTE / Equivalent

Bosch: 2006209246 - Italcacciai: SD347 - Lester: 17075 | 17105

0313

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

Ford: A0406 | A0506 | FT100 | FT120 | FT130 | FT160 | FT190

## MOTOR

Bosch: 0001358201 | 0001358202

## EQUIVALENTE / Equivalent

Bosch: 2006209407 | 2006209437 - Italcacciai: SD315

0315

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

Fiat: Ônibus 140 | Ônibus 80 - Fiat Iveco: Caminhões 1000 | Caminhões 120E | Caminhões 150 | Caminhões 150T | Caminhões 160E | Caminhões 160T | Caminhões 605C | Caminhões 640 | Caminhões 680 | Caminhões 780 | Caminhões 805 - New Holland: Colheiteira TC55 11/1997... | Colheiteira TC57 11/1997... | Colheiteira TC59 11/1997... | Trator Gamalta

## MOTOR

Bosch: 0001359122 | 0001360043 | 0001360063 | 9000083043 | 9000453088 | 9000453090 | 9000453091 - Fiat: 4169095 | 4169096 | 4682999

## EQUIVALENTE / Equivalent

Bosch: 2006209447 | 9001083502 - Fiat: 9918347 | 9928303 | 9935164 | 99811565 - Lester: 16560 | 17073 | 17074 | 17076 | 17106 | 17136 | 17184 | 17228 | 17230 | 18029 | 18030 | 18032 | 18033 | 18111 | 18229 | 18237 - Lucas Indiel: 223231

0316

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 183

## APLICAÇÃO / Application / Aplicación

Kassbohrer: S100 | S80 - Steyr Puch: 650A | 760A - Volkswagen: HR 688 H | HR 688 HT

## MOTOR

Bosch: 0001359006 | 0001360002

## EQUIVALENTE / Equivalent

Bosch: 2006209342

0318

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

KHD: 411D | 411W | D2506 | D3006 | F1L410 - Lamborghini: 221 | 230 | 321 | 340 | 350 | 431 | 452 | 523 | 624 | Espada | Islero 400GTS | Miura P400

## MOTOR

Bosch: 0001354080 | 0001354082 | 0001354088 | 0001354091 | 0001354092 | 0001354093 | 0001354097 | 0001354099 | 0001354100 | 0001354103 | 0001355014 | 0001355015

## EQUIVALENTE / Equivalent

Bosch: 2006209086 | 2006209095 | 2006209215 | 2006209229 - Italcacciai: SD346

0319

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 200D | 220D | 240D | 240D 3.0 | 240TD | 300 turbo | 300CD | 300D | 300SD | 300TD | D206 | DG206 | L206 | L306D | L306DG | L406DG | L407D | O309D | U52 421 | U5260 | U60 421

## MOTOR

Bosch: 0001362001 | 0001362002 | 0001362003 | 0001362004 | 0001362027 | 0001362028 | 0001362029 | 0001362030

## EQUIVALENTE / Equivalent

Bosch: 2006209241 | 2006209331 - Italcacciai: SD012 - Lester: 16445 | 16715 - Lucas: TMB427 - Lucas Indiel: 223232

0320

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Opel: Ascona 2.0 D | Rekord 2.0 D | Rekord 2.1 D | Rekord 2.3 D

## MOTOR

Bosch: 0001362037 | 0001362071 - Italcacciai: 26208A

## EQUIVALENTE / Equivalent

Bosch: 2006209478 - Italcacciai: SD342 - Lucas Indiel: 223569

0322

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Ford: 2000 | 3000 | 4000 | 5000 | 7000

## MOTOR

Lucas Indiel: 26211 | 26338 | 26339 | 26395 | S5012 | 26208A/E | 26211A/L | 26208AEM45 | 26211ALM50

## EQUIVALENTE / Equivalent

Lester: 16608 - Lucas: TMB104 | 54246724 | 54246989 | 54256984 | 54259800

0323

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Ford: Escort Ghia | Guarujá | Verona GLX | XR3 - Gurgel: BR 800 | Tocantins L | TR 1.6 - Porsche: 914 - Tiete: Motor Estacionário RD900 09/1992... | Motor Estacionário RD900L 09/1992... | Motor Estacionário RD950 09/1992... | Motor Estacionário RD950L 09/1992... - Volkswagen: Apollo GL, GLS AP 1.8 | Golf 1.5 D | IM1200 | IM127 | IM1300 | IM1302 | IM1303 | IM1500 | IM1600 | IM181 | IM411 | IM412 | Jetta | Passat 1.6 | Rabbit diesel | Scirocco | Transporter 1.3, 1.7, 1.8

## MOTOR

Bosch: 0001208411 | 0001208412 | 0001208416 | 0001208417 | 0001208418 | 0001211223 | 0001211224 | 0001211255 | 0001211256 | 0001211257 | 0001211258 | 0001211992 | 0001211993 | 0001211998 | 0001314012 | 0001314013 | 9000082062

## EQUIVALENTE / Equivalent

Bosch: 1006209424 | 9001082669 - Italcacciai: SD450 | SD466 - Lester: 16362 | 16418 | 16547 | 16556 | 17025 | 17134 - Lucas: TMB411 - Lucas Indiel: 221411

Volkswagen: 055911335B

0325

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

BMW: R100 | R45 | R60 | R65 | R75 | R80 - Fiat: 128 1.1 e 1.3 | 131 Mirafiori 1.3 | X1/9 1.3 - Opel: Ascona 1.2 | D 1.0, 1.2 | Kadett 1.0, 1.2 | Manta A, B12 - Renault: GTL | R 6TL | R 7TL | R12 | R4 | R5 | TL | TS Turbo | TX - Seat: 1200 Sport | 124 D 1430 | 124 D especial 1.2 e 1.4 | 127 0.9 | 131 | 131 L 1430 | Ritmo 65,75 | Supermirafiori 1430 | Terra

## MOTOR

Bosch: 0001157013 | 0001157021 | 0001157023 | 0001212006 | 9000141100 | 9000141101 | 9000141103 | 9000141107 | 9000141108 | 9000141111 | 9000141112 | 9000141114 | 9000334104

## EQUIVALENTE / Equivalent

Bosch: 1006209401 | 1006209445 - Fiat: 9934752 - Italcacciai: SD055 | SD496 - Lester: 16438 - Lucas Indiel: 223573

0327

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Daihatsu: Delta 1.5, 2.0 | Rocky 1.6 | Taft 1.6 | Wildcat 1.6 - Honda: Accord 1.6 - Toyota: Carina 1.6, 2.0 | Celica 1.6, 2.0 | Corolla | Corona 1.6, 1.8, 2.0, 2.3 | Crown | Delta Hi Ace | Hilux | Mark2 | Sprinter 1.6

## MOTOR

Honda: 31200657006 | 31200657016 | 31200657025 - Italcacciai: 280002572 - Nippondenso: 28004822 | 280001010 | 280001940 | 280001941 | 280001970 | 280001971 | 280001972 | 280001973 | 280001975 | 280001976 | 280002000 | 280002001 | 280002250 | 280002260 | 280002261 | 280002263 | 280002330 | 280002570 | 280002571 | 280002572 | 280003051 | 280003052 | 280003100 | 280003710 | 280003920 | 280003921 | 280004270 | 280004440 | 280004480 | 280004580 | 280004640 | 280004810 | 280004820 | 280004822 | 280004980 | 280005430 | 280005470 | 280006100 - Toyota: 28100 | 2810026031 | 2810033011 | 2810036020 | 2810036040 | 2810040011 | 2810040012 | 2810040013 | 2810040015 | 2810040041 | 2810041013 | 2810041020 | 2810042010 | 2810042020 | 2810042021 | 2810045020 | 2810045021 | 2810045033 | 2810046040 | 2810047020 | 28100045033

## EQUIVALENTE / Equivalent

Bosch: 1987BE0032 - Daihatsu: 2801140014 | 2801141011 | 2801141012 - Honda: 31207657006 | 31207PA0006 - Isuzu: 8942391070 - Italcacciai: SD181 - Lester: 16217 | 16218 | 16220 | 16223 - Mitsubishi: MD602059 | MD602678 - Nippondenso: 028300085 | 0283000800 | 0283000800 | 0283000801 | 0283001690 - Toyota: 2801122021 | 2801125012 | 2801125020 | 2801141010 | 2801141011 | 2801141012 | 2801141020 - Ww: 10502

0328

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Volkswagen: Brasília refrigerado a ar 07/1981... | Gol refrigerado a ar 07/1981... | Kombi refrigerado a ar 07/1981... | Saveiro refrigerado a ar 07/1981... | Sedan refrigerado a ar / 1.3, 1.5, 1.6 07/1981...

## MOTOR

Bosch: 9000451004 | 9000451012 - Wapsa: MWB18 | MWB21

## EQUIVALENTE / Equivalent

Bosch: 9001451247 - Lucas: TWB247 - Volkswagen: 1119113356 - Wapsa: 224047

0329

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Volkswagen: Gol C, CL, GL refrigerado a água | Parati C, CL, GL refrigerado a água | Passat refrigerado a água / 1.5, 1.6 | Saveiro CL, GL, refrigerado a água | Voyage C, CL, GL refrigerado a água

## MOTOR

Bosch: 9000451011 - Wapsa: MWB19

## EQUIVALENTE / Equivalent

Bosch: 9001451252 - Lucas: TWB246 - Volkswagen: ZBA911335A - Wapsa: 224046

0339

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge Horizon | Omni - Kubota: Trator

## MOTOR

Chrysler: 5206270 | 5213085 | 5213190 | 5213370 | 5213395 - Nippondenso: 280005090 | 280005091 | 280005092 | 280007130 | 280007131

## EQUIVALENTE / Equivalent

Chrysler: CH1931 | 5206632 | 5213310 | 5213850 - Lester: 16417 - Nippondenso: 0283001930 | 0283003490 - Subaru: 280992420 - Ww: 10120

0340

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Datsun: 280 ZX - Ford: Laser

## EQUIVALENTE / Equivalent

Lester: 16245 - Lucas Indiel: 223235 - Mitsubishi: K309

0341

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Daihatsu: Especial/Special - Subaru: Subaru A11

## MOTOR

Mazda: 60418400 | 60518400 | 134518400 - Nippondenso: 280002040 | 280002041 | 280002042 | 280002160 | 280002161 | 280002970 | 280004721 | 280005270 | 280005420 | 280005720 | 280005750 | 280006520 - Subaru: 829914120 | 829918600 - Toyota: 2810087701 | 2810087702

## EQUIVALENTE / Equivalent

Lester: 16468 | 16696 | 17058 - Lucas Indiel: 223585 - Mazda: 060423710 | 134624709 - Mitsubishi: MD604047 - Nippondenso: 0283000830 | 0283000831 | 0283003320 | 0283003321 - Subaru: 492097002 | 892094112 | 892096102 - Toyota: 2801187704

0342

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Ford: Courier

## MOTOR

Ford: SAE715 | SAE716 | SAE715A | SAE716A | D77Z11002A | D77Z11002B | E17Z11002B | E17Z11002C - Nippondenso: 280005220 | 280005230 | 280008110 | 280008120

## EQUIVALENTE / Equivalent

Ford: SDE307 | D77Z11350A - Lester: 16254 | 16272 - Nippondenso: 0283001870

0343

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Kubota: Trator

## MOTOR

Nippondenso: 280003610 | 280003611 | 280007480

## EQUIVALENTE / Equivalent

Lester: 16221 - Nippondenso: 0283001390 | 0283003590

0345

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 184

## APLICAÇÃO / Application / Aplicación

Volkswagen: K 70

## MOTOR

Bosch: 0001208100 | 0001208101 | 0001211200 | 0001211201

## EQUIVALENTE / Equivalent

Bosch: 1006209441 | 2006209323

0348

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Kubota: Micro trator Tobatta M140N - Volkswagen: Kombi com motor Passat diesel | Saveiro Diesel | Senda Diesel

## MOTOR

Bosch: 9000452003 - Wapsa: MWB17

## EQUIVALENTE / Equivalent

Bosch: 9001452088 - Lucas Indiel: 223117 - Volkswagen: 3059112875 - Wapsa: 224048

0349

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Honda: Accord 1600, 1599cc 1976...1982 | Civic 1200 1972...1981 | Civic 1250 1973...1979 - Isuzu: I Mark L4 1.8L 1817cc gasolina Eng 1981...1985 | Pick Up L4 1.8L 1817cc 1981...1982 - Nissan: NFG101D11 - Yanmar Engine Marine: 1GM 1981...1989 | 1GM 1 cil 19.41ci, 0.318L Diesel 1980...1984 | 1GM10 1 cil, 19.41ci, 0.318L Diesel 1982...1990 | 1GM10C 1 cil, 19.41ci, 0.318L Diesel 1982...1984 | 2GM 1981...1989 | 2GM 2 cil Diesel 1980...1984 | 2GM20 2 cil, 38.81ci, 0.636L Diesel 1982...1990 | 2GMF 2 cil Diesel 1980...1984 | 3GM 1981...1989 | 3GM 3 cil Diesel 1980...1984 | 3GM30 3 cil Diesel 1982...1990 | 3GMD 3 cil Diesel 1982...1990 | 3GMF 3 cil Diesel 1982...1990 | KM2A 0000 | KM2C 0000 | KM2P 0000 | KM3A 0000 | KM3P 0000 | KM3V 0000

## MOTOR

Hitachi: S10863 | S10889 | S114140 | S114141 | S114149 | S114160 | S114162 | S114163 | S114164 | S114210 | S114211 | S114227 | S114271 | S114160A | S114160B | S114160D | S114160E | S114160F | S114162C | S114162D | S114163B | S114163E - Honda: 31200634005 | 31200634670 | 31200634671 | 31200634811 | 31200657005 | 31200657015 | 31200657025 | 31200673015 | 31200679035 | 31200679052 - Isuzu: 8942226880 - Italacciai: S114140 - Nissan: 233005002 | 233006900 | 23300B500 | 2330009601 | 23300B5000 | 23300B5002 | 23300H5001 | 23300H5002 | 23300H5003 | 23300H5004 | 23300H5300 | 23300H5400 | 23300H6900 | 23300H6901 | 23300H6902 | 23300H6903 | 23300H6904 | 23300H7300 | 23300H7301 | 23300H7302 | 23300H6901

## EQUIVALENTE / Equivalent

Bosch: 1987BE0033 - General Motors/Chevrolet: 9423227 | 94233227 - Hitachi: 211455004 | 211465001 - Honda: 31207634005 - Isuzu: 8942332270 | 8942332770  
Italacciai: SD149 - Lester: 16205 | 16207 | 16211 | 16270 | 16499 - Nissan: 23300H6000 | 23312E6700 | 23312H5000 | 23312H5001 | 23312H6700 | 23312H6900

0351

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Chevy Lux | S10 Importada - Isuzu: Datsun - New Holland: Trator

## MOTOR

General Motors/Chevrolet: 94022494 - Hitachi: S114126 | S114170 | S114171 | S114172 | S114173 | S114174 | S114177 | S114180 | S114181 | S114182 | S114197 | S114202 | S114218 | S114229 | S114240 | S114247 | S114248 | S114295 | S114298 | S114301 | S114313 | S114343 | S114381 | S114382 | S114608 | S1144301 | S114126L | S114126M | S114170B | S114170E | S114171A | S114171D | S114172A | S114172D | S114172E | S114173B | S114173E | S114173F | S114180F | S114180M | S114182G | S114202A | S114218A | S114229E | S114229F | S114247A | S114247C - Ishikawajima: 185086320 | 185086321 - Isuzu: 5811001300 | 5811001370 | 8941305600 | 8942044380 | 8942045380 | 8942134065 | 8942135381 | 8942138220 | 8942226880 | 8942243880 | 8942340650 - Italacciai: 23300N3301 - Nissan: 2330018C05 | 2330018C06 | 2330069690 | 2330069960 | 23300E6800 | 23300E6801 | 23300N0900 | 23300N3301 | 23300N3304 | 23300S0100 | 23300U0100 | 23300U0101 | 23300U0102 | 23300U0601 | 23300U0602 | 23300U6001 | 23300U6002 | 23300U6003 | 23300U6004 | 23300U6005 | 23300W0400 | 23300W0401 | 23300Y0700 | 23300Y0701

0351

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## EQUIVALENTE / Equivalent

Bosch: 1987BE0007 - General Motors/Chevrolet: 94208296 - Hitachi: 211445004 | 211445007 | 211475001 | 2114N3550 - Isuzu: 8942082960 | 8942082961  
Italacciai: SD151 - Lester: 16194 | 16203 | 16246 | 16270 | 16711 | 16773 | 16877 - Lucas Indiel: 223322 - Nissan: 23312E6800 | 23312E6801 | 23312N3300 |  
23312U6000 | 23312V6000 | 23312Y0700

0352

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge - Mazda: Especial/Special - Mitsubishi: Forklift - Nissan: Especial/Special - Suzuki: Samurai Gasolina 1991...1992

## MOTOR

Italacciai: 23300B5013 - Mazda: F601 | 77918400 | 032418400B | 077918400A | 813118400 | 821818400 | 893618400 | 893718400 | 896418400 | 896718400 |  
D50118400 | D50218400 | D50518400 | E30118400 | F60118400 | F80218400 | F80618400 | F85018400 | FE0518400 | FE5018400 | FE7918400 | H83318400 |  
HE1918400 | HE2018400 | 808818400A | 813118400A | D30618400A | D306A8400B | D50118400A | D50218400A | D50518400A | E30118400A | E35618400A |  
F60118400A | F60118400B | F80218400A | F80218400B | F85018400A | F85018400B | FE0518400B | FE0518400C | FE5018400A | FE5018400B | HE1918400A |  
HE1918400B | HE2018400A - Mitsubishi: MGA060 | M3T2581 | M3T3381 | MD21674 | M2T10282 | M2T20181 | M2T20182 | M2T20223 | M2T20281 | M2T20282 |  
M3T10172 | M3T20081 | M3T20181 | M3T20381 | M3T20681 | M3T20781 | M3T21281 | M3T21282 | M3T21381 | M3T22081 | M3T22381 | M3T22581 | M3T22582 |  
M3T22681 | M3T22781 | M3T24481 | M3T24482 | M3T24483 | M3T24485 | M3T24486 | M3T24487 | M3T24488 | M3T25081 | M3T25281 | M3T25781 | M3T25782 |  
M3T25783 | M3T25785 | M3T25882 | M3T25883 | M3T25885 | M3T25891 | M3T27686 | M3T29681 | M3T30081 | M3T30082 | M3T30088 | M3T30281 | M3T30282 |  
M3T30285 | M3T30286 | M3T30381 | M3T30382 | M3T30781 | M3T30782 | M3T32382 | M3T32581 | M3T32582 | M3T32583 | M3T32681 | M3T32781 | M3T32782 |  
M3T33381 | M3T33382 | M3T33581 | M3T33582 | M3T33583 | M3T33585 | M3T33586 | M3T33587 | M3T33588 | M3T35081 | M3T35082 | M3T35088 | M3T39182 |  
MD001333 | MD001555 | MD019891 | MD019895 | MD021674 | MD027400 | MD027401 | MD034120 | MD034121 | MD085730 | MM111514 | MM115513 | MM115514 |  
MM115517 | M2T20181A | M3T110172 | M3T20681A | M3T24482A | M3T24486A | M3T335081 | M3T335820 | M3T33582A | M3T33586A | MD0019891 - Nissan:  
233000712 | 23300B5013 | 23300D0212 | 23300H5012 | 23300H5013 | 23300P5112 | 23300P5113 | 23300R9000 | 23300T5070 | 23300U0113 | 23300U0114

## EQUIVALENTE / Equivalent

Bosch: 1987BE0008 - Italacciai: SD169 - Lester: 16500 | 16514 | 16522 | 16527 | 16579 | 16588 | 16708 | 16728 | 16742 | 16793 | 16794 | 16858 | 16859 | 16938 |  
16940 | 16941 - Lucas Indiel: 223236 - Mazda: 808824722 | H83318X45 - Mitsubishi: MD607283 | MD608273 | M191T30974 | M191T33371 | M191T34071 |  
M191T35171 - Nissan: 23312Y0511 - Suzuki: 3132072031

0353

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Honda: Ballade 1500 1986...1990 | Civic 1300 16V 1991...1995 | Civic 1300, 1343cc D13B1 1987...1992 | Civic 1300 12V, 1335cc EW2/3 1983...1987 | Civic 1400  
1987...1991 | Civic 1500 D15B2 1992...1995 | Civic 1500 D15Z 1995...2000 | Civic L4 1.3L 1342cc 82cid 1984...1987 | Civic L4 1.5L 1487cc 1984...1987 | Civic L4 1.5L 1491cc  
91cid 1987 | Civic L4 1.5L 1493cc 1986 | Civic L4 1.5L 1493cc 1988...1991 | Civic L4 1.6L 1590cc 97cid 1988...1991 | CRX L4 1.5L 1493cc 1988...1991 | Wagovan L4 1.5L  
1487cc 1984 | Wagovan L4 1.5L 1487cc 1986...1987 - Jacobsen: T422D Kubota D950 Diesel 1985...1996 - Kubota: Hauler KC5 ZH600B Dsl. Engine 1981...1999 | Mower  
Front F2100E D950 FM 21HP Dsl 1989...1995 | Mower Front F2000 D950 FM 20HP Dsl 1986...1994 | Mower Front F2100 D950 FM 21HP Dsl 1989...1995 | Tractor Compact  
B1550D D850 5B 17HP Dsl 1988...1996 | Tractor Compact B1550DT D850 5B 17HP Dsl 1988...1996 | Tractor Compact B1550DTEX D850 5B 17HP Dsl 1988...1996 | Tractor  
Compact B1550E D850 5B 17HP Dsl 1988...1996 | Tractor Compact B1550HSD D850 5B 17HP Dsl 1988...1997 | Tractor Compact B1550HSDT D850 5B 17HP Dsl 1988...1997  
| Tractor Compact B1550HSE D850 5B 17HP Dsl 1988...1996 | Tractor Compact B1750DT D950 5B 20HP Dsl 1988...1996 | Tractor Compact B1750E D950 5B 20HP Dsl  
1988...1996 | Tractor Compact B1750HSD D950 5B 20HP Dsl 1988...1996 | Tractor Compact B1750HSDT Kubota D950 5B 20HP Dsl 1988...1996 | Tractor Compact  
B1750HSE D950 5B 20HP Dsl 1988...1996 | Tractor Compact B20 D950AT 20HP Dsl 1990...1998 | Tractor Compact B20TL D950AT 20HP Dsl 1990...1998 | Tractor Compact  
B6000DT ZL600 14.5HP Dsl 1973...1977 | Tractor Compact B6000DTC ZL600 14.5HP Dsl 1975...1978 | Tractor Compact B6000E ZL600 14.5HP Dsl 1978...1984 | Tractor  
Compact B6100D D650 B 14HP Dsl 1978...1984 | Tractor Compact B6100DT D650 B 14HP Dsl 1978...1984 | Tractor Compact B6100E D650 B 14HP Dsl 1978...1984 | Tractor  
Compact B6100HSD D650 B 14HP Dsl 1981...1984 | Tractor Compact B6100HSE D650 B 14HP Dsl 1981...1984 | Tractor Compact B6100HST D650 B 14HP Dsl 1981...1984 |  
Tractor Compact B6100HSTE D650 B 14HP Dsl 1981...1984 | Tractor Compact B6100T D650 B 14HP Dsl 1981...1984 | Tractor Garden 2L600 2L600 1979...1990 | Tractor  
Garden G6200H D640 16HP Dsl 1986...1990 - Onan: Engine Medium Duty 2L600 Kubota 2L600 1979...1990 - Toyota: Carina 1.9L 1858cc 113cid 1971 | Celica L4 1.9L  
1858cc 113cid 1969...1971 | Celica L4 1.9L 1898cc 1971 | Celica L4 2.0L 1968cc 1972...1974 | Celica L4 2.0L 1968cc 120cid 1972...1974 | Celica L4 2.2L 2189cc 1975...1980 |  
Corolla 1.9L 1858cc 1969...1971 | Corona L4 | Corona L4 1.9L 1897cc 116cid 1968...1970 | Corona L4 1.9L 1898cc 1968...1970 | Corona L4 2.0L 1968cc 1972...1974 | Corona  
L4 2.0L 1968cc 120cid 1972...1974 | Corona L4 2.2L 2189cc 1975...1980 | Crown | Europe Car Celica 2000 1973...1980 | Europe Car Corona 1500 1972...1978 | Europe Car  
Corona 1600 1972...1978 | Europe Car Corona 1700 1972...1975 | Europe Car Corona 1800 1972...1975 | Europe Car Corona 1900 1972...1975 | Europe Car Corona 2000  
1972...1975 | FJ 60 | Hiace 2000 1978...1983 | Hilux 2000 1979...1984 | Pick Up L4 2.0L 1968cc 1972...1974 | Sprinter 1.3L 1290cc 1981...1982 | Starlet L4 1.5L 1452cc  
1980...1986 | Tercel 1300 1982...1985 | Tercel 1500 1982...1988 | Tercel L4 1.5L 1452cc 3AC 1987...1988 | Tercel L4 1.5L 1456cc 3E 1988 | Tercel L4 1.9L 1858cc 113cid  
1970...1971 | Truck Pick Up L4 | Truck Pick Up L4 1.9L 1858cc 1970...1971 | Truck Pick Up L4 1.9L 1897cc 116cid 1969...1970 | Truck Pick Up L4 1.9L 1898cc 1969 | Truck  
Pick Up L4 1.9L 1898cc 1969...1970 | Truck Pick Up L4 2.0L 1968cc 120cid 1972...1974 | Truck Pick Up L4 2.2L 2189cc 1975...1980 - Universal: Engine Marine 5421 Kubota  
D850 21 HP, 3 cil Dsl 1978...1981 | Engine Marine M25 Kubota D850 21 HP, 3 cil Dsl 1981...1986 | Engine Marine M25 XP Kubota D950 23HP, 3 cil Dsl 1986...1993 | Engine  
Marine M25 XPA Kubota D950 23HP, 3 cil Dsl 1994...1999

## MOTOR

Italacciai: 280002681

## EQUIVALENTE / Equivalent

Bosch: 1987BE0009 - Italacciai: SD183 | SD359 - Lester: 16215 | 16222 | 16224 | 16230 | 16238 | 16261 | 16766 | 16832 | 16843 | 17354 - Toyota: 2801141020 |  
2801160041



0361

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

BMW: 315 | 316 | 318 | 320 | 518 | 525 | 528 | 628 | 728 - Mercedes Benz: L207 | L307 - Peugeot: 404 Diesel - Toyota: Colt | Cressi DA | Galant

## MOTOR

Bosch: 0001208204 | 0001311100 | 0001311128 | 0001311146 | 0001314025 | 0001314027 | 0001314029 | 0001314033 | 0001314034 | 0001314035 | 0001314036 | 0001314038

## EQUIVALENTE / Equivalent

Bosch: 1006209406 | 1006209428 | 1006209449 | 1006209466 | 1006209472 | 9001692096 - Italtacciai: SD345 | SD489 - Lester: 16616 | 16617 - Lucas: TMB450

0362

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Ford: Capri 1.3, 1.6, 2.0, 2000GT | Consul 2.0 | Escort RS 2000 | Granada 2.0

## MOTOR

Bosch: 0001311038 | 0001311048

## EQUIVALENTE / Equivalent

Bosch: 1006209108 | 2006209324 - Italtacciai: SD037 - Lester: 16405 | 16595 - Lucas Indiel: 223602

0365

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Ford: Granada 1.9, 2.0 diesel - Peugeot: 504D | 505D Turbo | 604D Turbo

## MOTOR

Bosch: 0001362045 | 0001362061 | 0001362079 | 0001362086 | 0001363104 | 0001363126

## EQUIVALENTE / Equivalent

Bosch: 2006209473 - Italtacciai: SD356 - Lester: 16715 - Lucas Indiel: 223605

0366

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 185

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: Alfa 6 2.5 TD | Alfetta 2.0 turbo diesel - Fiat: Magirus Iveco 50NC - KHD: D2506 | D3006 | DX50V | F3L911 | F3L912 - Lamborghini: DT503-603 | R503-603 | S503-603 - Mercedes Benz: 200D - MWM: D225 | D2262 | D2263 | D3272 | D3273 - Valmet: 101 | 102 | 103 | 104SU | 1051 | 1052 | 1053 | 1054SU | 112 | 113DAN | 12.5 | 15 | 18 | 195 | 198 | 20 | 24 | 25 | 295 | 298 | 30 | 32.5 | 395SV | HR488 HT2 | T1054SU

## MOTOR

Bosch: 0001362034 | 0001362036 | 0001362040 | 0001362041 | 0001362046 | 0001362050 | 0001362053 | 0001362072 | 0001362074 | 0001362075 | 0001362076 | 0001362091 | 0001362305 | 0001362308 | 0001362311 | 0001362313 | 0001362314 | 0001363002 | 0001363107 | 0001363109 | 0001363110 | 0001363112 | 0001363113 | 0001363115 | 0001366001 | 0001366004 | 0001366009 | 0001366014 | 0001366015 | 0001366017 | 0001366020 | 0001366022 | 0001369014

## EQUIVALENTE / Equivalent

Bosch: 2006209449 | 2006209469 | 2006209476 | 2006209485 - Italtacciai: SD357 - John Deere: 19024524 - Lester: 17075 | 17105 | 17112 | 17159 | 18026 | 18121  
Lucas Indiel: 223311

0367

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 185

## APLICAÇÃO / Application / Aplicación

BMW: 520 - Fiat: 1300S | 130NC | 130NR | 130NT | 150NC | 150NR | 150NT | 159NC | 159NR | 159NT | 65NC10 | 70NC10 | 75NC10 | 850 | 880 | 880DT  
Fiat Allis: S11 | S9 | SL11 | SL9 | SR9 - Fiat Iveco: Caminhão 110.13 | Caminhão 110.16 | Caminhão 120.13 | Caminhão 13.80 | Caminhão 130.13 | Caminhão 130.16 | Caminhão 16 | Caminhão 60.9 | Caminhão 80 | Caminhão 90.13 - KHD: D10006 | D130006 | D4006 | D4506 | D5006 | D6006 | D6206 | D6806 | D7006 | D7206 | D7506 | D8006 | DX100 | DX85 | DX90 | Intrac 2002...2004 - Lamborghini: 1356 | 1566 | 653 | 654 | 684 | 754 | 854 | 955 | DT804 | DT904 | R1056DT | R1156 | R1256DT | R804 | R904 - Mercedes Benz: 1017AF | 1017F | 1113B | 1217AF | 280S | 508DG | 608DG | 613D | 911B | L408DG | LP1013 | LP1113 | LP709 | LP809 | LP813 | LP913 | O302 | O309D | O371U | Trator MB1000 | Trator MB1300 | U100 | U1013 | U1200 | U1213 | U1300 | U1413 | U1500 | U1613 | U1700 | U800 | U900 - MWM: D22546 | D22646 | D3254 | D32746 | TD2266 - Scania: 50 | 80 | 81 | 82 | 85 | 86 | 92 | 93230 | 93250 | 93280 | Caminhão P93H | Caminhão P94 | Ônibus F94 | Ônibus L94 | P, R 124/400 | P, R 124/360 | P, R 124/420 | R 164/480 | R 164/580 - Volvo: 106SU MH 11 | 114 Dan | 1154 Dans | 1154M 12.8 | 1156 Dans | 1156M 12.8 | 116 Dan | 50KVA | 70KVA | B6 série DR860-861 | F84 | F85 | F86 | F87 | FL4 série | LM1240 | LM641 | LM841 | LM845 | LM846 | SM880 | T650 | T800 | T810 | T814 | VHK118

0367

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## MOTOR

Bosch: 0001362051 | 0001362063 | 0001362096 | 0001362097 | 0001362300 | 0001362306 | 0001362309 | 0001363116 | 0001366018 | 0001366021 | 0001367001 | 0001367004 | 0001367005 | 0001367007 | 0001367010 | 0001367011 | 0001367012 | 0001367014 | 0001367019 | 0001367021 | 0001367023 | 0001367026 | 0001367027 | 0001367030 | 0001367031 | 0001367033 | 0001367034 | 0001367039 | 0001367045 | 0001367046 | 0001367049 | 0001367050 | 0001367052 | 0001367059 | 0001367068 | 0001367074 | 0001367300 | 0001367301 | 0001368001 | 0001368002 | 0001368003 | 0001368005 | 0001368007 | 0001368008 | 0001368010 | 0001368011 | 0001368012 | 0001368013 | 0001368014 | 0001368017 | 0001368018 | 0001368021 | 0001368022 | 0001368024 | 0001368028 | 0001368030 | 0001368031 | 0001368032 | 0001368033 | 0001368035 | 0001368047 | 0001368055 | 0001368062 | 0001368063 | 0001368300 | 0001368301 | 0001368302 | 0001368307 | 0001368309 - Italcacciai: 1362051

## EQUIVALENTE / Equivalent

Bosch: 2006209492 | 2006209530 | 2006209536 | 2006209930 | F000AL1897 - Cargo: 131065 - Fiat: 8122157 | 9959619 | 79034927 - Italcacciai: SD443 - Lester: 16560 | 17073 | 17074 | 17106 | 17113 | 17127 | 17136 | 17184 | 17228 | 17320 | 18032 | 18229 | 18237 | 18250 - Lucas Indiel: 223312 - Remy: 19024520 | 19025715

0376

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Isuzu: KB10 Thermo King estacionário diesel | KBD 20 Diesel | KBD 25 2.0 Diesel | KBD 30 diesel - Jeep: Renegade - Komatsu: Varios fork lift - Massey Ferguson: 210-4  
Nissan: Especial/Special - TCM Equipment Ag: Forklift SD25Z1 - Toyota: Especial/Special

## MOTOR

Hitachi: S1224 | S1227 | S1246 | S1248 | S1256 | S1258 | S1259 | S1261 | S1282 | S1288 | S1306 | S1325 | S1328 | S1331 | S1333 | S1224A | S1241A | S1306A | S1333A | S1333B - Isuzu: 5811000571 | 5811000740 | 5811000800 | 5811000820 | 5811000990 | 5811001110 | 5811001111 | 5811001112 | 9821001520 | 9821001522 | 9821001830 | 9821001832 - Thermo King: 442918 | 445443

## EQUIVALENTE / Equivalent

Allis Chalmers: 2201850102 | 2201850192 | 22018501030 - Hitachi: 21203500 | 21207500 | 21207530 | 21207550 | 212035001 - Isuzu: 5811130170 | 5811230020 | 5811230070 | 5811230160 | 9821212380 - Lester: 17087 | 17089 | 17090 | 18064 - Lucas Indiel: 223237 - Thermo King: 442910

0378

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Atlas Copco: Caminhões | Tratores - Deutz: Caminhões | Tratores - Lamborghini: C603 | DT704 | L603 | R704 - Mercedes Benz: Caminhões | Tratores - Pegaso: Camion - Same: Caminhões | Tratores - Scania: Caminhões | Tratores - Valmet: HR492AT | HR688H | HR688HT | HR692HT | Trator 985 - Volkswagen: LT28 | LT31 | LT35D

## MOTOR

Bosch: 0001362064 | 0001362301 | 0001362303 | 0001362304 | 0001363118 | 0001366008 | 0001367008 | 0001367009 | 0001367013 | 0001367015 | 0001367018 | 0001367024 | 0001367032 | 0001367043 | 0001367067 | 0001368006 | 0001368009 | 0001368015 | 0001368025 | 0001368039 | 0001368041 | 0001368046 | 0001368049 | 0001368050 | 0001368058 | 0001368071 | 0001369009

## EQUIVALENTE / Equivalent

Bosch: 2006209425 | 2006209494 - Italcacciai: SD313 - Lester: 17113 | 17229 | 18236 - Lucas Indiel: 223313 - Remy: 19024525

0381

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Remy: Delco 10MT | Delco 22MT | Delco 25MT | Delco 27MT | Delco 30MT | Delco 35MT | SD300 Series DD

## MOTOR

Remy: 1113197 | 1113647

## EQUIVALENTE / Equivalent

Lester: 3294 | 3369 | 3709 | 3853 | 3933 | 3952 | 4194 | 4215 | 4523 | 4567 | 4843 | 4888 | 6151 | 6171 | 6192 | 6542 | 6659 | 6705 - Remy: 800965 | 1877350 | 1933838 | 1947542 | 1948877 | 10499852

0382

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 185

## APLICAÇÃO / Application / Aplicación

Isuzu: Cherry | Vanette

## MOTOR

Hitachi: S114161 | S114161B | S114161E | S114161F - Nissan: 23300M1052 | 23300M1500 | 23300M1501 | 23300M1502 | 23300M1503 | 23300M1510 | 23300M5901 | 23300M5903 | 23300M15001

## EQUIVALENTE / Equivalent

Hitachi: 211465004 | 211495002 - Lester: 16579 - Nissan: 23312M1500 | 23312M1501 | 23312M15001

0389

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 185

## APLICAÇÃO / Application / Aplicación

Fiat: 130 Super | Argenta 1.6 | Brava 131 | Cromo 1.6 | Duna | Europa | Fiorino | Nuova Argenta | Pick Up | Prêmio | Regata 1.3, 1.5, 1.6 | Restyling 132 | Ritmo 105 CT | Ritmo 125 TC | Ritmo 75 | Ritmo 85 | Spazio | Tipo 1.4 1400 DGT | Uno | Uno Turbo 147 | Weekend - Lancia: Beta 1.3, 1.6 | Delta 1.5 | Prisma 1.5 | Trevi 1.6 - Seat: 124 1.8 | 131 L 1.6

## MOTOR

Fiat: 4470378 | 82374433 - Italciaai: 4469987 - Magneti Marelli: 63221308 | 63221338 | 63221400 | 63221401 | 63221430 | 63221431 | 63221508 | 63221538 | 63221637

## EQUIVALENTE / Equivalent

Bosch: 1987BE0010 - Femsas: 1706126 - Fiat: 9937207 | 9941640 - Italciaai: SD188 - Lucas Indiel: 228042

0392

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Asia Motors: 1135-1 | 1135-15 | 1135-50 | 1135-55 | 2135 | 2135-50 - Chrysler: Dodge C17 | Dodge C20 | Dodge C2662 | Dodge C2664 | Dodge T17 - Kawasaki: D10006 | D130006 | D4006 | D5006 | D6006 | D6206 | D6806 | D7006 | D7206 | D8006 | DX100 | DX85 | DX90 | Intrac 2002...2004 - Lamborghini: 904DT | C603 | DT704 | L603 | R1056DT | R704 | R804 - Renault: 210.20 | 230.20 | 230.26 | 250 | D17 | D20 - Valmet: 885 | HR688H | HR688HT | Trator 1180S com motor Valtra (importado) | Trator 1380S com motor Valtra (importado) | Trator 1680S com motor Valtra (importado) | Trator 885S com motor Valtra (importado) | Trator 985S com motor Valtra (importado) - Volkswagen: LT28 | LT31 | LT35

## MOTOR

Bosch: 0001359004 | 0001359053 | 0001359056 | 0001359060 | 0001359075 | 0001359076 | 0001359099 | 0001359106 | 0001359108 | 0001359112 | 0001359124 | 0001360029 | 0001360033 | 0001360041 | 0001360042 | 0001360054 | 0001360064 | 0001364101 | 0001364102 | 0001364103 | 0001364104 | 9000143305 | 9000453089

## EQUIVALENTE / Equivalent

Bosch: 2006209408 | 2006209423 | 2006209438 | 9002453010 | 9002453081 - Italciaai: SD441 - Lester: 16565 | 16567 | 17113 | 17229 | 17258 | 18028 - Remy: 19024518

0394

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 185

## APLICAÇÃO / Application / Aplicación

Fiat: 127 Brasile Diesel | 131 2.0 | 132 2.0 | CHT Turbo 2.0 | Cromo 2000 | Duna | Fiorino Diesel | Panda Diesel | Spazio | Spyder 124 | Uno Diesel - Lancia: Delta HF4WD | Prisma 1.6 4WD | Thema 2000IE Turbo

## MOTOR

Fiat: 5991832 - Italciaai: 5991832 - Magneti Marelli: 63221403 | 63221433 | 63221434 | 63221500 | 63221503 | 63221509 | 63221530 | 63221533 | 63221539 | 63221632 | 63221639 | 63221730 | 63221731

## EQUIVALENTE / Equivalent

Fiat: 9936050 | 9938235 | 9941642 - Italciaai: SD187 - Lucas Indiel: 223240

0395

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

BMW: 320 | 320i | 321i | 520 | 525 | 528 - Fiat: Nuova Ritmo Diesel | Regata Diesel | Ritmo Diesel - Seat: Ibiza Diesel | Ritmo Diesel | Ronda Diesel

## MOTOR

Fiat: 5933930 | 5996771 - Italciaai: 5933930 - Magneti Marelli: 63223000 | 63223203 | 63223206 | 63223207 | 63223236 | 63223237 | 63223300 | 63223330 | 63223332

## EQUIVALENTE / Equivalent

Fiat: 9938328 | 9941467 - Italciaai: SD185 - Lucas Indiel: 223241

0397

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge 1500 - Peugeot: 404

## EQUIVALENTE / Equivalent

Bosch: 1987BE0034 - Femsas: 170616 - Lucas Indiel: 221830

0398

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Bonser: D20 | D200K | D25 | D2500K - Fiat Iveco: 129.14 | 130.14 - Ford: A, D Series | Transit Diesel - Lancer: 300 Series | PD III A

0398

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## MOTOR

Lucas Indiel: 26317B/H | 26355A/J | 26356A/M | 26361A/E | 26388A/F | 26407A/F | 26317BDM50 | 26356ABM50 | 26407AEM50

## EQUIVALENTE / Equivalent

Italacciai: SD199 - Lucas: TMB116 | 54246340 | 54246739 | 54247184

0404

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Citroën: CX Athena | CX Reflex - Peugeot: 505 | 505 INJ | Estafette - Renault: Fuego | R12 | R16 | R18 | R20 | R4 | R5 | R6 | Rodeo | Trafic

## MOTOR

Ducellier: 6221A | 6231C | 532002 | 532003 | 532004 | 532008 | 532009 | 532010 | 532018 | 532000AB | 532008AB | 532009AB | 532010AB - Italacciai: 006231C

## EQUIVALENTE / Equivalent

Bendix: 310626 | 314529 - Bosch: 1987BE0035 - Ducellier: 611942 - Italacciai: SD500 - Lester: 16488 - Lucas Indiel: 223244 - Valeo: NE314

0406

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Ford: Granada 2.5 Diesel | Sierra D 2.3 - Peugeot: 404D | 504D | 505D turbo Turbo | 604D turbo Turbo - Toyota: Tagora TD

## MOTOR

Bosch: 0001317009 | 0001317010 | 0001317018

## EQUIVALENTE / Equivalent

Bosch: 1006209501 - Italacciai: SD311 - Lester: 16556

0407

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: 30AR8 | 32AR8 | 35AR8 | 40AR8 - Fiat: 131 | 132 | 238 1.8 | Argenta 2.5 | Campagnola | Nuova Argenta - Fiat Iveco: Daily 28.8 | Daily 30.8 | Daily 32.8 | Daily 35.8 | Daily 40.8 | Ducato - Renault: Trafic 4X4

## MOTOR

Fiat: 4692477 | 4699704 | 4699705 | 4701920 | 4702248 | 4706008 | 4706931 | 4710224 | 4711699 | 4713805 | 4713806 | 4713807 | 4737754 | 4737755 | 4737756 | 4741699 | 4745849 | 4745930 | 4752212 | 4752403 | 4752912 | 4759929 - Italacciai: 4699705 | 63216740MT67CA - Magneti Marelli: 63216701 | 63216703 | 63216707 | 63216725 | 63216726 | 63216727 | 63216740 | 63216808 | 63216810 | 63216825 | 63216826 | 63216827 | 63216873 | 63216898 | 63217101 | 63217104 | 63217105 | 63217118 | 63217119 | 63217120 | 63217125 | 63217147 | 63217201 | 63217225

## EQUIVALENTE / Equivalent

Fiat: 9000862 | 9927793 | 9929081 | 9935731 | 9936772 | 9957707 | 9986112 | 79023774 - Italacciai: SD125 | SD128 - Lester: 17111 | 17126 - Lucas Indiel: 221833

0408

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Agrale: Caminhão TX1600 ...12/1984 - Fiat: 127 0.9 | 127 1.05 | 127 Sport 1.3 | Fiorino TT 0.9 | Panda 30 | Panda 34 | Panda 45 | Panda 45 4X4 | Ritmo 60L141 | Uno 0.9 | Young - Seat: Fura | Panda

## MOTOR

Fiat: 5972684 - Italacciai: 4451826 - Magneti Marelli: 63220506 | 63220536 | 63220537 | 63220538

## EQUIVALENTE / Equivalent

Fiat: 9936996 | 9941751 - Italacciai: SD153

0411

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Allis Chalmers: ED 40 4 Cil 138 Diesel - Case: 1190 3 165 Diesel 1980...1983 | 1290 4 Cil 195 Diesel 1980...1983 | 1294 4 Cil 219 Diesel 1983...1984 | 1390 4 Cil 219 Diesel 1980...1983 | 1394 4 Cil 219 Diesel 1983...1988 | 1490 4 Cil 219 Diesel 1980...1983 | 1494 4 Cil 219 Diesel 1983...1988 | 380CK | 580F Construction King European | 770 3 146 Diesel 1965...1970 | 780 Diesel Engines 1980...1989 | 780 3 146 Diesel 1967...1971 | 850 3 154 Diesel 1960...1965 | 995 Farm Tractor 4 Cil 219 Diesel 1971...1976  
David Brown: 120 4 Cil 219 Diesel 1969...1971 | 1200 4 Cil 219 Diesel 1969...1971 | 1210 4 Cil 219 Diesel 1971...1980 | 1212 4 Cil 219 Diesel 1971...1976 | 12121 4 Cil 219 Diesel 1971...1976 | 770 3 146 Diesel 1965...1970 | 780 Diesel Engines 1980...1989 | 780 3 146 Diesel 1967...1971 | 781 3 146 Diesel 1967...1971 | 880 3 Cil 154 Diesel 1961...1971 | 885 3 Cil 164 Diesel 1971...1980 | 990 4 Cil 186 Diesel 1969...1980 | 991 4 Cil 186 Diesel 1972...1980 | 995 4 Cil 219 Diesel 1977...1980 | 996 4 Cil 219 Diesel 1971...1980 - Lister: PH Séries 1/2/3 Cil Diesel | SR4 Séries 4 Cil Diesel | ST1 Séries 1/2/3 Cil Diesel | ST2 Séries 1/2/3 Cil Diesel | ST3 Séries 1/2/3 Cil Diesel  
Massey Ferguson: MF 130 Perkins 4 107 Diesel 1966...1972

0411

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## MOTOR

Lucas Indiel: 26278H | 26301H | 27413A/D | 27421A/B | 27463A/D

## EQUIVALENTE / Equivalent

Italacciai: SD019 - Lester: 16664 | 16665 - Lucas: TMB124 | 54247396 | 60600077

0412

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Bedford: CA 1.6,2.0 | CF 1.6,2.0 - Daimler: Limousine | Sovereign - Ford: Capri | Consul | Granada | Transit - Jaguar: 420 E Type | XJ6 - Lotus: Eclat | Elite | Esprit - Morris: 1800 | 2200 | Ital 1.7 | Marina 1.8 - Princess: 1700 | 1800 | 2000 | 2200 - Reliant: Scimitar - Triumph: 2000 | 2500 | TR 6 - TVR: 3000 | Vixen Vauxhall: Cresta | Firenza | Magnum | Victor - Wolseley: 18/22 Séries | 18/85 Séries | Six

## MOTOR

Lucas Indiel: 25742A | 25755A | 25756A | 25619A/K | 25642A/F | 25647A/L | 25651A/B | 25662A/E | 25674A/E | 25684A/J | 25686A/H | 25689A/J | 25692A/J | 25695A/F | 25699A/J | 25704A/D | 25706A/D | 25707A/D | 25710A/D | 25714A/D | 25718A/D | 25719A/D | 25720A/D | 25722A/D | 25728A/D | 25729A/D | 25734A/D | 25739A/D | 25743A/D | 25624AF2M100 | 25743AD3M100

## EQUIVALENTE / Equivalent

Lester: 16166 | 16173 | 16284 - Lucas: TNB142 | TNB147 | TNB149 | 54243657 | 54246252 | 54249032 | 54249041 | 54249043 | 54262658

0414

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

MG Car: MGB L4 1.8L 1798cc 1968...1971 | MGB L4 1.8L 1798cc 110cid 1968...1971

## MOTOR

Lucas Indiel: 25705AD2M100 | 25732BE2M100

## EQUIVALENTE / Equivalent

Lester: 16164 - Lucas: TNB145 | 54247179 | 54249035

0417

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Bomag: BW 905 SH/SL - Deutz: Engine Marine Various Models F2L511 1.7L 1650cc 1963...1975 - KHD: Engines F2L511 1.7L 1650cc 1963...1975 - Mercedes Benz: 0302-0352 Otobus

## MOTOR

Bosch: 0001314017

## EQUIVALENTE / Equivalent

Bosch: 1006209436 - Lester: 16787

0418

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Kawasaki: F1300D | F1400D | F1500D | F1600D | F1800D | F2105DF - Volvo: F2250 | F406 | F407

## MOTOR

Bosch: 0001362302 | 0001362324 | 0001367002 | 0001367017 | 0001367020 | 0001367047 | 0001367048 | 0001367051 | 0001367057 | 0001367066 | 0001367070 | 0001367071 | 0001367302 | 0001368023 | 0001368034 | 0001368040 | 0001368044 | 0001368052 | 0001368060 | 0001368068 | 0001368070 | 0001368072 | 0001368076 | 0001368082 | 0001368085 | 0001368306 | 0001369003 | 9000143412 | 9000143415 | 9000143416 | 9000143601 - Italacciai: 1362302

## EQUIVALENTE / Equivalent

Bosch: 2006209495 | 2006209532 - Fiat: 9959813 - Italacciai: SD442 - Lester: 16558 | 18254 | 18259

0419

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## APLICAÇÃO / Application / Aplicación

Dodge: Trucks S Séries - Ford: Cargo Séries - Hanomag: 20 | 22C | 30 | 33C | 400D - Linde: H20 | H25 | H30 - Yanmar Engine Marine: F1400 DF

## MOTOR

Bosch: 0001362093 | 0001367006 | 0001367022 | 0001367035 | 0001367041 | 0001367042 | 0001367055 | 0001367056 | 0001367063 | 0001368026 | 0001368027 | 0001368036 | 0001368038 | 0001368051 | 0001369015 | 0001369023 | 0001369200 | 0001369201

0419

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

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## EQUIVALENTE / Equivalent

Bosch: 2006209462 | 2006209499 - Cargo: 138312 - Lester: 17077 | 18024

0420

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Audi: 4000 Diesel | 4000 Diesel turbo | 80D | 80D Turbo - Opel: Ascona C 1.6 D | Kadett D 1.6 D - Volkswagen: Amazon Diesel | Passat Diesel turbo | Santana Diesel turbo

## MOTOR

Bosch: 0001316004 | 0001317007 | 0001317008 | 0001317013 | 0001317022 | 0001317025

## EQUIVALENTE / Equivalent

Bosch: 1006209500 - Cargo: 131102 - Italacciai: SD310 - Lester: 16623 | 17016 - Lucas: TMB454 - Lucas Indiel: 223249

0426

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

Mazda: Especial/Special

## MOTOR

Mazda: 489318400B | 489318400D | 489318400E - Mitsubishi: M3T10473 | M3T10475 | M3T10476

## EQUIVALENTE / Equivalent

Lester: 16795 - Lucas Indiel: 223644 - Mazda: 489324722 - Mitsubishi: M191T31071 | M191T35271

0427

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 186

## APLICAÇÃO / Application / Aplicación

John Deere: Carregadeiras | Tratores - Onan: Motores

## MOTOR

Mitsubishi: MEO107 - Onan: 19911052

## EQUIVALENTE / Equivalent

Lester: 17332 - Mitsubishi: M191T32271 - Onan: 1911087

0428

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Volkswagen: Kombi | Transporter 1600 1981...1992 | Transporter 1700 1986...1992 | Vanagon L4 1.6L 1588cc 97cid Diesel 1982...1984

## MOTOR

Bosch: 0001317011 | 0001317012 | 0001317016 | 0001317017

## EQUIVALENTE / Equivalent

Bosch: 1006209502 - Lester: 16961

0429

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

TCM Equipment Lift Truck: FG35N3 0000

## MOTOR

Hitachi: S114184 - Nissan: 23300C0600

## EQUIVALENTE / Equivalent

Hitachi: 211415003 - Lester: 18110 - Nissan: 23312C0600

0433

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Buick: Century V6 3.8L 3800cc 231cid 1984...1985 | Electra V6 3.8L 3800cc 231cid 1985 | LeSabre V6 3.0L 181cid 1986 | Skylark V6 3.0L 181cid 1986 | Somerset Regal V6 3.0L 181cid 1985 | Somerset V6 3.0L 181cid 1986 - Oldsmobile: 98 V6 3.8L 3800cc 231cid 1985 | Calais V6 3.0L 181cid VIN L 1985...1986 | Cutlass Ciera V6 3.8L 3800cc 231cid 1984...1985 | Delta 88 V6 3.0L 181cid 1986 - Pontiac: Grand Am V6 3.0L 181cid 1985

0433

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## EQUIVALENTE / Equivalent

Lester: 6307 | 6308 | 6309 | 6310 | 6312 | 6313 | 6315 | 6316 | 6318 | 6319 | 6327 | 6330 | 6331 | 6426 - Remy: D2032 | 1984511

0434

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

John Deere: Trator

## MOTOR

Allis Chalmers: 1336643 - Case: 91902C1 | A162469 - Caterpillar: 4N0241 | 7N0923 | 9G6941 - John Deere: AR16277 | AR41627 | AR70611 | RE13722 | RE23900  
Nippondenso: 280003290 | 280003292 | 280003650 | 280003690 | 280003930 | 280003970 | 280003971 | 280005040 | 280005920 | 280005960 | 280006920 | 280007430  
| 280007431 | 1280000260 | 1280000771 | 1280000772 | 1280002000 | 1280003690 | 1280004340 | 1280005330

## EQUIVALENTE / Equivalent

Allis Chalmers: 02683662 | 02698850 - Case: A47788 - Caterpillar: 4N7523 - John Deere: AR54992 - Lester: 16629 | 16635 | 16643 | 16644 | 17103 | 17120 | 17349 |  
17353 | 17369 | 17386 - Nippondenso: 0283001280 | 0283001660

0438

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Deutz: Especial/Special - Fiat: Turbo - Mercedes Benz: Especial/Special

## EQUIVALENTE / Equivalent

Lucas Indiel: 228204 - Nashville: 45210100

0439

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Perkins: 4 E 6 CIL Tipo AN 115

## EQUIVALENTE / Equivalent

Bosch: 1987BE0037 - Lucas Indiel: 228205 - Nashville: 4520100

0440

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Deutz: Especial/Special - Ford: Especial/Special - Mercedes Benz: Caminhões | Especial/Special | Ônibus | Tratores

## EQUIVALENTE / Equivalent

Lucas Indiel: 222901

0441

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: L1112 OM352 | L1114 OM358 | L608 OM314 | L911 OM325

## MOTOR

Lucas Indiel: 35257385

## EQUIVALENTE / Equivalent

Bosch: 1987BE0011 - Lucas Indiel: 228099 | 35256654 | 35257820

0442

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Peugeot: 304 | 305 - Porsche: 924 | 944

## MOTOR

Bosch: 0001208213 | 0001208222 | 0001311134 | 0001311135 | 0001311138 | 0001314022

## EQUIVALENTE / Equivalent

Bosch: 1006209448

0443

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Renault: R11 | R18 | R21 | R9 - Volkswagen: Gacel GL e GS Carat

## EQUIVALENTE / Equivalent

Bosch: 1987BE0038 - Lucas Indiel: 221901 - Tria: ZAE911335

0445

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Renault: Fuego com Motor 1.4, 2.0 e 2.2 | Nevada com Motor 1.4, 2.0 e 2.2 | Renault 12 com Motor 1.4, 1.8, 2.1 | Renault 4 com Motor 1.4, 1.8, 2.1 | Renault 6 com Motor 1.4, 1.8, 2.1 | Trafic com Motor 1.4, 2.0 e 2.2

## EQUIVALENTE / Equivalent

Bosch: 1987BE0012 - Lucas: 27330 - Lucas Indiel: 227330 | 35257330

0447

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: Giulia Diesel - Lamborghini: 784DT | C352 | C362 | C453 | C503 | C533 | C653 | DT235 | DT653 | L503 | LL503 | R235 | R483 | R653 | S235 | S503 - Valmet: 20KVA | HR392A | HR488H | HR488HT | HR488HTA | HR492A | HR492HT | HT9

## MOTOR

Bosch: 0001362035 | 0001362042 | 0001362059 | 0001362092 | 0001362095 | 0001363105 | 0001363117 | 0001363125 | 0001366011 | 0001366012 | 0001366024 | 0001366027

## EQUIVALENTE / Equivalent

Bosch: 2006209475 - Italacciai: SD016 - Lester: 17114 | 18120 - Lucas Indiel: 223657

0448

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Datsun: Especial/Special Diesel - Isuzu: Especial/Special

## MOTOR

Hitachi: S1234 | S1263 | S1264 | S1268 | S1323 | S1334 | S1336 | S1338 | S1340 | S1343 | S1345 | S1346 | S1218D | S1219C | S1219K | S1234A | S1263A | S1263B | S1263C | S1268A | S1268B | S1268D | S1334A | S1340A | S13443 | S1345A | S1345B | S1346A | S25106 | S25123 | S25129 | S25132 | S25141 | S25152 | S12119C | S1219KA | S1219KB - Nissan: 233003470 | 233003705 | 23300G700 | 23300Z700 | 2330015815 | 2330031W00 | 2330031W01 | 2330031W02 | 2330031W03 | 2330031W04 | 2330031Y03 | 2330032W03 | 2330037503 | 2330037505 | 2330037506 | 2330037508 | 2330079601 | 2330090062 | 2330090217 | 23300A3210 | 23300G7000 | 23300G7001 | 23300G7002 | 23300G7003 | 23300G7004 | 23300G7005 | 23300G7006 | 23300G7007 | 23300L1800 | 23300T3400 | 23300T3470 | 23300T5600 | 23300T5601 | 23300V0600 | 23300V0601 | 23300V0602 | 23300V0603 | 23300V0605 | 23300W3101 | 23300Y1400 | 23300Y1403 | 23300Y1405 | 23300Z7000 | 23300Z7001 | 23300Z7005 | 23300375088 | 23300V06001

## EQUIVALENTE / Equivalent

Bosch: 1987BE0039 - Hitachi: 212025001 | 212045002 | 212055002 | 212075002 | 212085001 | 212085002 | 225035001 - Isuzu: 5811230090 | 5811230150 | 9821212340 - Lester: 16771 | 16818 - Lucas Indiel: 223250 - Nissan: 212025001 | 212045002 | 2331237502 | 2331237504 | 2331276201 | 23312V0601 | 233312V0601

0449

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Land Rover: 90, 110 Diesel

## EQUIVALENTE / Equivalent

Lucas: TMB150 | 54267317

0450

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Hyster: Empilhadeira com motor 60XM | Empilhadeira com motor H45 - Hyundai: Accent GLS | Excel | Pony | Sonata 2.4 e 3.0 | Stellar - Kia: Picanto FLEX 2010 | Sephia GTX 1.5 16V 1994... | Sephia SLX 1.6 8V 1994... | Sportage com motor OHC 16V a gasolina - Mazda: 323 1.3 e 1.5 | MX 5 (Miata) 1.6 e 1.8 - Mitsubishi: Celeste com motor GP 25/30 | Galant com motor GP 25/30 | Sapporo com motor GP 25/30 | Starion com motor GP 25/30 | Tredia com motor GP 25/30 - Suzuki: Samurai | Sidekick 1994 | SJ 410 | SJ 413 | Vitara 1.6 16V



0450

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## MOTOR

Ford: SAI761 | SAI772 | SAI773 | SAI780 | SAI783 | SAI788 | B65818400 | B35918400A | B63018400A | B67618400A | E9BZ11002A | E9JY11002A | F0BY11002B | F0BZ11002B | F0JY11002A | F1JY11002A | F7GZ11002A | F9JY11002A - General Motors/Chevrolet: 30001695 - Mazda: 478010400 | 478018400 | B30318400 | B35918400 | B50518400 | B59318400 | B61P18400 | B63018400 | B67618400 | D53018400 | E35618400 | E35718400 | F24018400 | F8B18400A | 478018400A | B30318400A | B31518400A | B31518400B | B61R18400A | B63018400A | B67618400A | B67618400B | B6S818400A | D50518400B | E35618400B | F24018400B | F85018400E | F8B118400A | F8B118400B | F8B118400C | FE0518400C | FE1J18400A | FE5018400E | FE5A18400A - Mitsubishi: M2T322 | M3T244 | 1368852 | MD81567 | M2T30581 | M2T30583 | M2T32281 | M2T40081 | M2T42881 | M2T44081 | M2T48081 | M2T49881 | M3M32722 | M3M32782 | M3Q38882 | M3T21281 | M3T21381 | M3T21781 | M3T21882 | M3T22581 | M3T24482 | M3T25885 | M3T27786 | M3T29482 | M3T30581 | M3T30583 | M3T30681 | M3T30881 | M3T30981 | M3T32588 | M3T32589 | M3T32591 | M3T32592 | M3T32593 | M3T33182 | M3T33281 | M3T33282 | M3T3586D | M3T38082 | M3T38181 | M3T38381 | M3T38481 | M3T38581 | M3T38682 | M3T38881 | M3T38882 | M3T38883 | M3T38884 | M3T38885 | M3T38981 | M3T38982 | M3T39385 | M3T39481 | M3T39523 | M3T39981 | M3T41081 | M3T41083 | M3T41088 | M3T41181 | M3T41185 | M3T41186 | M3T41282 | M3T41285 | M3T41681 | M3T42781 | M3T42881 | M3T43381 | M3T43481 | M3T43581 | M3T48181 | M3T49381 | M3T49581 | M3T49585 | M3T49781 | M3T70081 | M3V38881 | M3V38882 | M3Y24482 | MD016729 | MD016851 | MD016863 | MD066761 | MD081567 | MD081568 | MD100431 | MD101219 | MD107614 | MD107615 | MD161437 | MD162836 | MD162837 | MD162838 | MD164866 | MD180238 | MD180239 | MD189054 | MD192222 | MD192228 | 901286806 | M3MT30583 | M3T016851 | M3T016863 | M3T066761 | M3T14482J | M3T162838 | M3T164866 | M3T189054 | M3T21281D | M3T21381D | M3T21781D | M3T21882D | M3T24482H | M3T24482K | M3T24486H | M3T25252H | M3T25282H | M3T25285A | M3T25885A | M3T27686D | M3T29482D | M3T302589 | M3T32782D | M3T388682 | M3T38881A | M3T38881B | M3T38881C | M3T38882A | M3T38882B | M3T38882C | MD 100431 | M3T4010081 - Nissan: 233000H10 | 233000H11 | 233000H11 | 233004B70 | 233004L11 | 233004L13 | 233004L14 | 233006O510 | 23300D0214 | 23300L2912 | 23300P5113 | 23300P5114 | 23300T5070 | 23300T5072 | 23300W0413 | 23300W0417 | 23300Y0715 - Suzuki: 3110080091 | 3110083010 | 3110083021

## EQUIVALENTE / Equivalent

Bosch: 1987BE0013 - Cargo: 132005 - Ford: SDE332 | E7GZ11350A - General Motors/Chevrolet: 96063635 - Lester: 16514 | 16522 | 16708 | 16794 | 16795 | 16922 | 16938 | 16940 | 16941 | 16966 | 16971 | 17181 | 17212 | 17288 | 17662 - Lucas Indiel: 223252 - Mazda: B63018X45 | E35618X45 - Mitsubishi: MD607894 | MD611372 | M191T22071 | M191T22371 | M191T22771 | M191T22971 | M191T23071 | M191T23471 - Nissan: 2335442L10 | 2335442L11 - Suzuki: 3132079030 | 3132082130 | 3132082139

0451

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 187

## APLICAÇÃO / Application / Aplicación

Renault: R4,R5,R6,F6 - Seat: 127 0.9 - Talbot: Especial/Special

## MOTOR

Femsa: MTV124 | MTV126 | MTV128 | MTA1219 | MTA1237 | MTA1238 | MTA1239 | MTA1243 | MTA12P19 - Italcacciai: MTA01219

## EQUIVALENTE / Equivalent

Bosch: 9001336223 - Femsa: 1706115 - Italcacciai: SD427

0453

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

## APLICAÇÃO / Application / Aplicación

Fiat: 600

## MOTOR

Italcacciai: MTA1201

## EQUIVALENTE / Equivalent

Bosch: 9001336203 - Femsa: 9328 - Italcacciai: SD119 - Lucas Indiel: 223254

0454

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Silverado 1981

## EQUIVALENTE / Equivalent

Lester: 3601 | 3725 | 3741 | 3742 | 3764 | 6305 | 6343 | 6346 | 6541 - Lucas Indiel: 223659 - Remy: S5894

0455

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

## APLICAÇÃO / Application / Aplicación

Ford: Escort GL L4 1.9 gasolina 1985 | Escort GL L4 1.9 gasolina 1987 | Escort GL L4 1.9 gasolina 1988 | Escort GT L4 1.9 gasolina 1986 | Escort GT L4 1.9 gasolina 1987 | Escort GT L4 1.9 gasolina 1988 | Escort GT L4 1.9 gasolina 1989 | Escort GT L4 1.9 gasolina 1990 | Escort L L4 1.9 gasolina 1985 | Escort L L4 1.9 gasolina 1986 | Escort LX L4 1.9 gasolina 1986 | Escort LX L4 1.9 gasolina 1988 | Escort LX L4 1.9 gasolina 1989 | Escort LX L4 1.9 gasolina 1990 | Escort Pony L4 1.9 gasolina 1987 | Escort Pony L4 1.9 gasolina 1988 | Escort Pony L4 1.9 gasolina 1989 | Escort Pony L4 1.9 gasolina 1990 - Mercury: Lynx XR3 L4 1.9 gasolina 1986 | Lynx XR3 L4 1.9 gasolina 1987

## MOTOR

Ford: E3FZ11002A | E6FZ11002A | E6EF11001AA

0455

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

EQUIVALENTE / Equivalent

Bosch: 1987BE0014 - Ford: E6FZ11350A | E6EF11350AA - Lester: 3196

0458

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

APLICAÇÃO / Application / Aplicación

Citroën: C2 | C3

EQUIVALENTE / Equivalent

Lucas Indiel: 221192 - Paris Rhone: 54457

0459

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

APLICAÇÃO / Application / Aplicación

Peugeot: Pick Up 504 Diesel 1.3 Ton

MOTOR

Nippondenso: 290996200

EQUIVALENTE / Equivalent

Bosch: 1987BE0015 - Lucas Indiel: 35257707

0460

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

APLICAÇÃO / Application / Aplicación

Peugeot: 504 Diesel

MOTOR

Bosch: 0001359021 | 0001362081 | 0001362602 | 0001362603 | 0001362606 | 0001362607

EQUIVALENTE / Equivalent

Bosch: 2006209431 - Italacciai: SD350 | SD354 - Lester: 16752 - Lucas Indiel: 223256

0461

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

APLICAÇÃO / Application / Aplicación

Peugeot: 504 Diesel

MOTOR

Italacciai: D11E191 - Paris Rhone: D11E191

EQUIVALENTE / Equivalent

Italacciai: SD804 - Lucas Indiel: 221291 | 223664 | 227336 - Paris Rhone: 105325

0462

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

APLICAÇÃO / Application / Aplicación

Borgward: Especial/Special - Peugeot: Especial/Special

EQUIVALENTE / Equivalent

Lucas Indiel: 227336 | 35257336

0463

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

APLICAÇÃO / Application / Aplicación

Dodge: Dodge 1500 - Peugeot: 404 | 404/8 | 504 | J7

MOTOR

Ducellier: 6020 | 6035 | 6081 | 6020E | 6020F | 6035F | 6081E | 6081F

EQUIVALENTE / Equivalent

Bendix: 281025 | 293422 - Ducellier: 73893 - Italacciai: SD040 - Lucas Indiel: 227344 - Paris Rhone: 97584 | 103790 - Valeo: NE563 | NE584

0467

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

## APLICAÇÃO / Application / Aplicación

Ford: Escort GL | Escort Guaruja | Ghia 1.6 e 1.8 - Renault: Clio - Volkswagen: Carat | Gacel GL, GS | Gol | Santana | Senda

## MOTOR

Lucas Indiel: 35257510 | 35257790 | 35257890 | 35258060 | 35258180 | 35258290 | 35258340

## EQUIVALENTE / Equivalent

Bosch: 1987BE0040 - Lucas Indiel: 227783 | 228133 | 35257521 | 35257783 | 35258133

0468

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

## APLICAÇÃO / Application / Aplicación

Renault: 19 1.6 | 21 2000 | 21GTX | CL3 1.6 Argentino | Fuego com motor 2000 Argentino e Brasileiro | Linea 21 2.2 | R 11 | R 12 | R 18 | R 9 | R19 | RFS | Trafic 2.2

## MOTOR

Lucas Indiel: 35258380

## EQUIVALENTE / Equivalent

Bosch: 1987BE0016 - Lucas Indiel: 227785 | 228139 | 35257525 | 35258139

0469

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

## APLICAÇÃO / Application / Aplicación

Ford: Sierra Ghia 1.6 | Sierra L 1.6 - Volkswagen: Apollo Classic

## EQUIVALENTE / Equivalent

Lucas Indiel: 228134 | 35257650 | 35258393

0474

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

## APLICAÇÃO / Application / Aplicación

Audi: 4000 TD | 80 1.6 D | 80 1.6 TD - Opel: Astra 1.7 D | kadett D/E 1.7 D | Vectra - Vauxhall: Astra D | Cavalier D - Volkswagen: Passat | Quantum | Santana

## EQUIVALENTE / Equivalent

Bosch: 9001066239

0475

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

## APLICAÇÃO / Application / Aplicación

Audi: A3 1.6, 1.8 e 2.0 | A6 1.6, 1.8 e 2.0 - BMW: 316i | 318i | 320i | 325i | 518i | 520i | 523i | 525i | 528i | 728i - Ford: Laser | Meteor | Transit 1.6, 2.0 | VL com odore - Jaguar: Daimler | Sovereign 2.9 - 3.6 - Lamborghini: 9LD 625 - Land Rover: Defender 2.5 - Mazda: 323 1.3 - 1.5 626/EGi - Nissan: Skyline Australian - Toyota: Corolla

## MOTOR

Bosch: 0001107033 | 0001108042 | 0001108054 | 0001108063 | 0001108065 | 0001108100 | 0001108108 | 0001108115 | 0001108117 | 0001108129 | 0001108131 | 0001108145 | 0001109009 | 0001110011 | 0001110028 | 0001110041 | 0001110042 | 0001110111 | 0001115035

## EQUIVALENTE / Equivalent

Bosch: 1006209534 | 1006209547 | 1006209549 | 1006209554 | 1006209559 | 9001066242 | 9001066247 | 9001066248 | 9001066476 | 9001690111 - Lester: 17148 | 17149 | 17236 | 17237 - Lucas: TMB554 - Lucas Indiel: 223259

0480

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

## APLICAÇÃO / Application / Aplicación

Dodge: 950 - Ford: Cargo Série D, K - Massey Ferguson: Trator

## MOTOR

Lucas Indiel: 27511A | 27500A/J | 27504A/B | 27506A/D | 27507A/B | 27516A/D | 27528A/D | 27553A/D | 27554A/B | 27562A/B

## EQUIVALENTE / Equivalent

Lester: 16608 | 17647 | 18264 - Lucas: TMB148 | 54247393 | 54268139 | 54290585

0482

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 188

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: Alfa 164 2.0 | Alfa 164 3.0 | Alfa 33 1.3, 1.5, 1.6 | Alfa 75 2.0 | Alfa 90 2.0 - Audi: 100 | 100INJ | 200 | 80 1.6, 1.8 e 1.9 | 80D | 80INL | 80TD | 90 | 90D | Coupe 1.6 | Quattro - BMW: 325E | 325i | 525E | 90 | 900 | 900 Turbo | 900 Turbo 16 | 9000 | 900INJ - Citroën: AX 07/1993... | BX14 07/1993... | BX16 07/1993... | LNA 11 07/1993... | Visa 10 07/1993... | Visa 11 07/1993... | Visa 14 ZX 1.9i, 2.0i 07/1993... - Fiat: Marea ELX 1.9 JTD | Marea Weekend ELX 1.9 JTD | Palio EX/ ELX Turbo Diesel | Palio SX 1.7 Turbo Diesel | Palio Weekend ELX Turbo Diesel | Panda 1000 | Panda 750 | Siena EX/ ELX Turbo Diesel | Stilo 1.9 JTD | Strada 1.7 Turbo Diesel | Uno 45 - Ford: Capri 2.3 | Granada 2.0, 2.3, 2.4, 2.8, 2.9 | Scorpio 2.4, 2.8, 2.8 INJ, 2.9, 2.9 4X4 | Sierra 2.0, 2.3, 2.3 INJ, 2.8, 2.8 4X4, 2.9 - General Motors/Chevrolet: Corsa 1.0, 1.4 | Omega 3.0, 4.1 | Omega Suprema 2.2, 3.0 | Silverado 4.1 - Lancia: Thema 8.32 - Mercedes Benz: 190 | 190E | 200 | 230 - Opel: Ascona Diesel | Ascona C20 | Kadett Diesel | Omega 1.8, 2.0 - Peugeot: 205 | 305 | 309 | 405 | 505 - Renault: R11 | R18 | R18 turbo | R9 | Trafic | Twingo I 1.2 1239ccm C3G 1992...1997 - Volkswagen: Derby | Gol | Golf 1.1, 1.3 | Jetta 1.3 | Kombi | Passat 1.6, 1.8 | Polo Diesel 1.0, 1.3 | Santana | Satation Wagon Diesel (USA) 1.6 | Scirocco | Transporter 1.6 Diesel | Voyage - Volvo: 740 2.0 e 2.3

## MOTOR

Bosch: 000114004 | 0001108001 | 0001108002 | 0001108003 | 0001108007 | 0001108009 | 0001108010 | 0001108011 | 0001108012 | 0001108016 | 0001108017 | 0001108018 | 0001108019 | 0001108022 | 0001108023 | 0001108024 | 0001108026 | 0001108027 | 0001108028 | 0001108029 | 0001108030 | 0001108031 | 0001108035 | 0001108038 | 0001108043 | 0001108044 | 0001108047 | 0001108048 | 0001108051 | 0001108052 | 0001108053 | 0001108056 | 0001108061 | 0001108062 | 0001108064 | 0001108072 | 0001108073 | 0001108074 | 0001108078 | 0001108079 | 0001108080 | 0001108081 | 0001108085 | 0001108086 | 0001108088 | 0001108089 | 0001108090 | 0001108093 | 0001108098 | 0001108101 | 0001108102 | 0001108107 | 0001108112 | 0001108113 | 0001108120 | 0001108124 | 0001108125 | 0001108126 | 0001108130 | 0001108136 | 0001108143 | 0001108148 | 0001108149 | 0001108150 | 0001108153 | 0001110012 | 0001110022 | 0001110023 | 0001110027 | 0001110029 | 0001110030 | 0001110045 | 0001110046 | 0001110048 | 0001110049 | 0001110052 | 0001110100 | 0001110101 | 0001110106 | 0001110107 | 0001110122 | 0001110128 | 0001112005 | 0001112007 | 0001112008 | 0001112013 | 0001112015 | 0001112021 | 0001112025 | 0001112027 | 0001112028 | 0001112029 | 0001113001 | 0001113004 | 0001113007 | 0001113013 | 0001114003 | 0001114015 | 0001114016 | 0001208501 | 0001208507 | 0001208510 | 0001208515 | 0001208516 | 0001208517 | 0001208518 | 0001208528 | 0001208705 | 0001208707 | 0001208709 | 0001208710 | 0001208711 | 0001208713 | 0001208714 | 0001208717 | 0001211500 | 0001211501 | 0001211502 | 0001211503 | 0001211504 | 0001211505 | 0001211510 | 0001211514 | 0001211525 | 0001211536 | 9000333104 | 9000333106 | 9000333109 | 9000333114 | 9000333117

## EQUIVALENTE / Equivalent

Bosch: 1006209503 | 1006209504 | 1006209506 | 1006209509 | 1006209513 | 1006209526 | 1006209528 | 1006209530 | 1006209531 | 1006209533 | 1006209536 | 1006209548 | 1006209563 | 1006209567 | 1006209570 | 1006209572 | 1006209573 | 1006209582 | 1006209597 | 1006209598 | 1006209619 | 1006209684 | 1006209685 | 1006209693 | 1006209700 | 1006209701 | 1006209705 | 1006209709 | 1006209939 | F000AL1516 | F000AL1534 | F000AL1698 | F000AL1700 - Cargo: 131104 - Fiat: 9941314 - General Motors/Chevrolet: 90273737 - Italacciai: SD437 - Lester: 16401 | 16408 | 16619 | 16952 | 16956 | 16980 | 17011 | 17013 | 17039 | 17124 | 17135 | 17140 | 17157 | 17163 | 17164 | 17165 | 17225 | 17406 | 17407 | 17408 | 17508 | 17576 | 17664 | 17699 - Lucas: TMB455 | TMB570 - Lucas Indiel: 223261  
Volkswagen: 02A911023 | 049911335A

0485

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Valmet: Especial/Special

## MOTOR

Lucas Indiel: 26284A/E | 26342A/B | 26342D/L

## EQUIVALENTE / Equivalent

Lucas: TMB118 | 54243741 | 54246741

0486

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Austin: Morris 1100 - Bedford: Caminhão - Chrysler: Dodge Ranger DKCF, DVC, WC | Dodge Ranger KC, VC | Dodge Ranger KCF, DKC - Dodge: Caminhão

## MOTOR

Lucas Indiel: 27575 | 26335A | 270508 | 27436A | 27443A | 27556A | 26233K/M | 26286F/J | 26320D/J | 26348A/D | 27419A/D | 27449A/D | 27462A/B | 27508A/D | 27509A/B | 27533A/E | 27543A/D | 27545A/B | 27546A/B | 27551A/B | 27552A/B | 27558A/E

## EQUIVALENTE / Equivalent

Lester: 16669 | 16984 | 17648 | 17653 | 18262 - Lucas: TMB121 | TNB169 | 54247389 | 54268142 | 60600038 - Lucas Indiel: 223262

0492

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

John Deere: Trator 6300 - Mercedes Benz: 190E | 200 | 230

## MOTOR

Lucas Indiel: 35256424 | 35257655 | 35258670

## EQUIVALENTE / Equivalent

Lucas Indiel: 227816 | 35257816



0496

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Agrale: CaminhãoTX 1600D-1800D com motor MWM 229.4 10/1988... - John Deere: Trator 7000 com motor MWM TD 229.6 | Trator 7200 com motor MWM TD 229.6  
Müller: Trator RT 82 MWM 229.3 10/1981... | Trator TR 62 MWM 229.3 10/1981... - MWM: Motor D2293 08/1985... - Valmet: Trator 68 08/1985... | Trator 68 Cafeeiro  
08/1985... | Trator 68 Especial 08/1985... - Yanmar: Micro Trator TC11 e TC11 Super

## MOTOR

Bosch: 9000083069

## EQUIVALENTE / Equivalent

Bosch: 9001083618 | 9002453076 - Lucas Indiel: 223265

0497

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Case: Trator 580H/SH/SH 4x4 Cummins 433.9 04/1994... - Cummins: Especial/Special 10D - Ford: Cargo com motor Cummins | F4000 1998 - John Deere: 1020 | 1030  
| 1040 | 1065 | 1075 | 1085 | 1120 | 1130 | 1140 | 1530 | 1630 | 1640 | 1830 | 1840 | 2040 | 2140 | 2150 | 2240 | 2350 | 2550 | 2750 | 2940 | 2950 | 820  
| 830 | 840 | 920 | 968 | 969 | 970 | 975 | JD300 | JD310 | JD350 | MD330 - Komatsu: Retroescavadeira PC150 modelo 3 com motor Cummins 6BT 5.9 04/1993...  
Mercedes Benz: L1113 | L1116 | L1117 | L1316 | L1317 | L1516 | LA1113 | LA1117 | LP1219 com motor Cummins 6BT 5.9 lts | LP1419 com motor Cummins 6BT  
5.9 lts | Marcopolo | MBL1319 com motor Cummins 6BT 5.9 lts - Valmet: Trator Série 1180 com motor Cummins 6B 5.9 08/1990... - Volkswagen: 16200 motor cummins  
Zanello: Trator com motor MWM e Cummins

## MOTOR

Bosch: 0001359090 | 9000083071 | 9000083075 | 9000083076 | 9000453075 | 9000453076 | F006AL0602 | F006ALO602

## EQUIVALENTE / Equivalent

Bosch: 2006209414 | 2006209444 | 9002453077 - Lester: 16563 | 17309 - Lucas: TNB408 - Lucas Indiel: 222495

0498

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Spectrum L4 1.5L 1471cc 92cid 1985...1986 | Spectrum L4 1.5L 1471cc 92cid w/Turbo 1987...1988 | Spectrum L4 1.5L 1471cc 92cid w/Turbo 1989  
| Spectrum L4 1.5L 1471cc 92cid wo/Turbo 1987...1988 - Geo: Spectrum L4 1.5L 1471cc 92cid wo/Turbo 1989 - Isuzu: I-Mark L4 1.5L 1471cc 1985...1986 | I-Mark L4 1.5L  
1471cc w/Turbo 1987...1989 | I-Mark L4 1.5L 1471cc wo/Turbo 1987...1989 - Pontiac: Sunburst L4 1.5L 1471cc 92cid 1985...1986 | Sunburst L4 1.5L 1471cc 92cid wo/Turbo  
1987...1988 - TCM Equipment Lift Truck: Various Models 4XC1 Engine - Toyota: Corolla | Starlet

## MOTOR

Nippondenso: 1280001310 | 1280001311 | 1280002170 | 1280004670 | 1280004671

## EQUIVALENTE / Equivalent

Isuzu: 8941258890 - Lester: 16245 | 16880 | 16883 - Nippondenso: 0283003570 | 0283003571 | 0283004410

0499

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Nissan: Bluebird 1.6, 1.8, 1.8 Turbo | Laurel 2.0 | Prairiep 1.8 | Stanza 1.6, 1.8 | Urvan | Z20 | Z22

## MOTOR

Hitachi: S114319 | S114320 | S114348 | S114376 | S114389 | S114390 | S114391 | S114413 | S114426 | S114603 | S114604 | S114607 | S114320A | S114348A |  
S114389A | S114390A | S114391A | S114413A | S114607A | S114607C | S1143766B - Mando: OK24118400A - Nissan: 2330000 | 2330018C00 | 2330018C01 |  
2330018C03 | 2330057M00 | 2330057M05 | 2330080W00 | 23300D0100 | 23300D0200 | 23300D0220 | 23300D1700 | 23300V5202 | 23300W0402 | 23300W0403

## EQUIVALENTE / Equivalent

Hitachi: 211445504 - Lester: 16774 | 16805 | 16992 - Nissan: 23312D0100

0502

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Fiat: Spazio Diesel | Uno Diesel

## MOTOR

Italacciai: 4469693

## EQUIVALENTE / Equivalent

Fiat: 9937298 | 9938952 - Italacciai: SD167 - Lucas: TNB159 | 54267004 | 54267478 - Lucas Indiel: 223266

0505

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Ford: Cargo 1114 | Cargo 1117 | Cargo 1218 | Cargo 1314 | Cargo 1317 | Cargo 1418 | Cargo 1514 | Cargo 1517 | Cargo 1615 | Cargo 1618 | Cargo 1619 | Cargo 2215 | Cargo 2218 | Cargo 2218 T | Cargo 2319

## MOTOR

Bosch: 9000453024 | 9000453057 - Wapsa: MPB66

## EQUIVALENTE / Equivalent

Bosch: 9001453347 - Lucas: TWB254 - Volkswagen: TE5H11350A - Wapsa: 224054

0506

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge

## MOTOR

Lucas Indiel: 26233AJ | 26286AE | 26320AB

## EQUIVALENTE / Equivalent

Lucas: TMB103 | 54246663 | 54257675

0507

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Allis Chalmers: Tractor Farm ED40 4 Cil 138 Diesel - Bonser: 50 D 60 D 70 D 90 D 100 D - Case: Agricultural Loader 580F Construction King European Model (Std.) | Agricultural Tractor 1394 4 Cil 219 Diesel 1983...1988 | Agricultural Tractor 1494 4 Cil 219 Diesel 1983...1988 | Tractor Farm 1290 4 Cil 195 Diesel 1980...1983 | Tractor Farm 1294 4 Cil 219 Diesel 1983...1984 | Tractor Farm 1390 4 Cil 219 Diesel 1980...1983 | Tractor Farm 1490 4 Cil 219 Diesel 1980...1983 | Tractor Farm 995 4 Cil 219 Diesel 1971...1976 - David Brown: 580 770 880 990 1190 1212 | Tractor Farm 120 4 Cil 219 Diesel 1969...1971 | Tractor Farm 1200 4 Cil 219 Diesel 1969...1971 | Tractor Farm 121 4 Cil 219 Diesel 1971...1976 | Tractor Farm 1210 4 Cil 219 Diesel 1971...1980 | Tractor Farm 1212 4 Cil 219 Diesel 1971...1976 | Tractor Farm 990 4 Cil 186 Diesel 1969...1980 | Tractor Farm 991 4 Cil 186 Diesel 1972...1980 | Tractor Farm 995 4 Cil 219 Diesel 1977...1980 | Tractor Farm 996 4 Cil 219 Diesel 1971...1980

Lister Petter Tractor: PH Séries 1/ 2 / 3 Cil Diesel | SR4 Séries 4 Cil Diesel | ST1 Séries 1/ 2 / 3 Cil Diesel | ST2 Séries 1/ 2 / 3 Cil Diesel | ST3 Séries 1/ 2 / 3 Cil Diesel

## EQUIVALENTE / Equivalent

Lester: 16664 - Lucas: TMB108 | 54242044 | 54246729

0517

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Nissan: Cherry 1.0, 1.3, 1.5 | Micra | Prairie | Pulsar | Sentra | Sunny 1.3, 1.5, 1.6 | Tsuru - Subaru: Justy

## MOTOR

Hitachi: S114315 | S114316 | S114362 | S114364 | S114418 | S114419 | S114424 | S114435 | S114556 | S114568 | S114617 | S114630 | S114769 | S114-424 | S114-617 | S114-769 | S114419A | S114435A | S114435B | S114435E | S114556A | S144617A | S144-617A - Nissan: 2330070Y00 | 2330070Y01 | 2330074Y00 | 2330085A01 | 23300KA010 | 23300KA160 | 23300KA270 | 23300KA440 | 23300KA510 | 23300M8000 | 23300M8001 | 23300M8200 | 23300M8201 - Subaru: 429916400 | 429916500 | 429916700 | 429916710 | 23300KA010 | 23300KA270 | 23300KA290

## EQUIVALENTE / Equivalent

Hitachi: 211415504 - Lester: 16775 | 17057 | 17147 | 17295 - Nissan: 23312KA050 | 23312M8000 | 23312KA050 - Subaru: 492866401 | 23300KA270

0519

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Asia Motors: Towner - Nissan: 200SX L4 1.6L 1597cc 97cid 1995...1998 | Cherry | GA13, GA15, G16 | Pulsar | Sentra L4 1.6L 1597cc 97cid 1995...1999 | Sunny  
Subaru: Justy 1.2

## MOTOR

Nissan: 2330073C10 | 23300M8010 | 23300M8011 | 23300M8110 | 23300M8310 | 23300M215R - Suzuki: 3110071J00

## EQUIVALENTE / Equivalent

Lester: 16732 | 16775 | 17057 | 17147 | 17580 - Mitsubishi: M191T26171

0520

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

Ford: Capri 1.6, 2.0 | Courier com motor Zetec | Escort 1.1, 1.3, 1.6, 1.6 D | Fiesta 1.0, 1.1, 1.3, 1.4, 1.6 D | Granada 2.0 | Mondeo 1.8i e 2.0i | Orion 1.6 D | Scorpio 1.8, 2.0 e 2.0i | Sierra 1.3, 1.6, 1.8, 2.0, 2.0i, 2.3 | XR2 | XR3 com motor Zetec 1.8

0520

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## MOTOR

Bosch: 0001107014 | 0001107016 | 0001107027 | 0001107028 | 0001107029 | 0001107041 | 0001108004 | 0001108020 | 0001108033 | 0001108037 | 0001108039 |  
0001108040 | 0001108057 | 0001108071 | 0001108082 | 0001108083 | 0001108087 | 0001108106 | 0001108110 | 0001108111 | 0001108121 | 0001108122 | 0001108132 |  
0001108139 | 0001108140 | 0001108152 | 0001108155 | 0001110013 | 0001110019 | 0001110069 | 0001110070 | 0001112009 | 0001112012 | 0001112016 | 0001112020 |  
0001112033 | 0001113003 | 0001113005 | 0001113009 | 0001114008 | 0001114014 | 0001114017 | 0001114020 | 0001114021 | 0001114022 | 0001208513 | 0001208514 |  
0001208521 | 0001208706 | 0001208715 | 0001208718 | 0001211512 | 0001211513 | 0001211515

## EQUIVALENTE / Equivalent

Bosch: 1006209510 | 1006209516 | 1006209537 | 1006209545 | 1006209566 | 1006209905 | F000AL1519 | F000AL1699 - Cargo: 131433 - Italacciai: SD439 - Lester:  
16405 | 16530 - Lucas: TMB566 - Lucas Indiel: 223119

0522

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 189

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Camaro | Capice Modelo Antigo | Impala Modelo Antigo | Malibu 1976...1981 | Monte Carlo | Nova | Pick Up Modelo Antigo | Truck 350 |  
Truck Big 10 Modelo Antigo | Truck C60/C70

## EQUIVALENTE / Equivalent

Bosch: 1987BE0017 - Remy: 1865687

0528

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Ford: FT100 | FT120 | FT130 | FT160 | FT190 | FT80 | Transit

## MOTOR

Bosch: 0001362307

## EQUIVALENTE / Equivalent

Bosch: 2006209466 - Lucas Indiel: 223709

0530

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Peugeot: 504 D | 505 D TD | 605 D TD | J9 D - Talbot: Tagora D

## EQUIVALENTE / Equivalent

Lester: 16752 - Paris Rhone: 103624

0532

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge 2.2, 2.5 lts | Shadow 2.5, 3.0 V6 | Spirit 2.5, 3.0 V6 | Voyager 2.5, 3.0 V6

## MOTOR

Bosch: 0001108013 | 0001108032 | 0001108045 | 0001108046 | 0001108066

## EQUIVALENTE / Equivalent

Bosch: 1006209527 - Lester: 16963 | 16976 - Lucas Indiel: 223329

0533

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Fiat: 1100D 217D | 125 Polonês | 1300 | 1500 | 1500L | 1600S | 1800 | 1800B | 2300

## MOTOR

Fiat: 4085959 | 4085977 - Iskra: 10130150 - Italacciai: 4085959 | MTD1201 - Magneti Marelli: 63222300 | 63222301 | 63222331

## EQUIVALENTE / Equivalent

Bosch: 1987BE0041 - Femsa: 106122 - Fiat: 4141057 - Iskra: 18900179 - Italacciai: SD105 | SD106 - Lucas Indiel: 223270

0536

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Hitachi: S108 116, S108 61 A, B, C, D, E, F, G - Kawasaki: 21163 3003 F, G, YR | 21163 3710 | 21163 3711 | 21163 5031 | SX440 | SX550



0536

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## MOTOR

Hitachi: S10866 | S10861F - Kawasaki: 211633710 | 211633003F | 211633003G

## EQUIVALENTE / Equivalent

Hitachi: 210875002 | 2108F3500 - Kawasaki: 590513005 - Lester: 18305

0537

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Volvo: 244 L4 2.3L 2316cc 1985...1987 | 245 L4 2.3L 2316cc 1985...1987 | 740 L4 2.3L 2316cc 1985 | 760 L4 2.3L 2316cc 1985 | Europe Car 240 Séries 1800 1983...1993 | Europe Car 240 Séries 2000 1984...1993 | Europe Car 240 Séries 2000, Turbo 1983...1984 | Europe Car 240 Séries 2100, Turbo 1983...1986 | Europe Car 240 Séries 2300 1987...1993 | Europe Car 360 Séries 2000 1983...1990 | Europe Car 740 Séries 2000 1984...1991 | Europe Car 740 Séries 2000, Turbo 1984...1989 | Europe Car 740 Séries 2300 1984...1990 | Europe Car 740 Séries 2300, Turbo 1986...1990 | Europe Car 760 Séries 2000, Turbo 1984...1989 | Europe Car 760 Séries 2300, Turbo 1983...1990 | Europe Car 940 Séries 2000 1991...1994 | Europe Car 940 Séries 2000, Turbo 1992...1994 | Europe Car 940 Séries 2300 1990...1997 | Europe Car 940 Séries 2300, Turbo 1990...1997 | Europe Car 960 Séries 2300, Turbo 1990...1992

## MOTOR

Hitachi: 5114232

## EQUIVALENTE / Equivalent

Hitachi: 211495007 - Lester: 16954

0538

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Man: Caminhão Bussing

## MOTOR

Bosch: 0001366019 | 0001368043

## EQUIVALENTE / Equivalent

Bosch: 2006209498 | 2006209533 | 2006209539 | 2006209932

0539

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

New Holland: Trator

## MOTOR

Hitachi: S1284 | S1361A

## EQUIVALENTE / Equivalent

Hitachi: 1303ST | 21303500 - Lester: 17088 | 17294

0540

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Lada: 2108 | Niva 4x4 | Samara

## EQUIVALENTE / Equivalent

CBT: 210803708620 - Lada: 210803708620 - Lucas Indiel: 223271

0541

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Ford: Transit D

## MOTOR

Italacciai: 27501A

## EQUIVALENTE / Equivalent

Italacciai: SD486 - Lucas: TNB167 | 54268140

0545

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Ford: Courier

## MOTOR

Ford: SAE728 | 868218400 | D97Z11002A - Nippondenso: 280006090

## EQUIVALENTE / Equivalent

Ford: SDE311 | D97Z11350A - Lester: 16245 - Nippondenso: 0283002100

0549

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Toyota: Toyoace

## EQUIVALENTE / Equivalent

Nippondenso: 0283000891 - Toyota: 2801146013

0554

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Nissan: Cherry Automáticos | Micra Automáticos | Sunny Automáticos | Tsuru

## MOTOR

Hitachi: S114317 | S114318 | S114345 | S114377 | S114378 | S114317A | S114318A | S114345A | S114345B | S114378A | S114378B - Nissan: 2330015A00 | 2330015A05 | 2330015A06 | 23300M8101 | 23300M8301 | 23300M8501 | 23300M8502

## EQUIVALENTE / Equivalent

Hitachi: 211425504 | 211495505 - Lester: 16732 | 16991 - Nissan: 23312M8101

0555

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Caterpillar: Caterpillar Facet 10061 | Pipelayers 583h D342 Diesel 1969...1974 | Pipelayers 583k D342 Diesel 1974...1989 | Pipelayers 594 D353 Diesel 1974 | Pipelayers 594h D353 Diesel 1974...1985 | Track Tractors D7e | Track Tractors D8k D342 Diesel 1974...1982 | Track Tractors D9g 1969...1974 | Track Tractors D9h D353 Diesel 1974...1982 - TCM Equipment Ag: Caterpillar Facet 1006L

## MOTOR

Cummins: 3604645RX - Remy: 1109792 | 1990232 | 1990285 | 10478862

## EQUIVALENTE / Equivalent

Caterpillar: 3T8754 | 5S6372 - Facet: 10061 - Lester: 3872 - Remy: 1894221 | 1979835 - Ww: 10061

0556

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Caterpillar: Caterpillar Facet | Engine 6 Cyl D 343 - Ford: MED. HD. TRK - Kenworth: C500 | MED. HD. TRK | W900 - TCM Equipment Ag: Caterpillar Facet

## MOTOR

Remy: 1109294 | 1109299 | 1109633 | 1109635 | 1109641 | 1109644 | 1109793 | 1109794 | 1109832 | 1109835 | 1109969 | 1109989 | 1113867 | 1114713 | 1990227 | 1990232 | 1990238 | 1990241 | 10478846 | 10478853 | 10478862

## EQUIVALENTE / Equivalent

Caterpillar: 2S3344 | 3T5341 - Facet: 10060 - Lester: 3038 | 3956 | 4897 | 4918 - Remy: 1894220 | 1946174 - Volkswagen: 10060

0557

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 190

## APLICAÇÃO / Application / Aplicación

Valmet: Trator 1180 | Trator 1280 | Trator 885 | Trator 985

## MOTOR

Lucas Indiel: 27512A/D

## EQUIVALENTE / Equivalent

Lucas: TNB172 | 54268565

0561

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Fiat: Allis | Romania

## MOTOR

Fiat: 4988513 - Italacciai: 4988513

## EQUIVALENTE / Equivalent

Fiat: 4988518 - Italacciai: SD145 - Lester: 17219 - Utb: 2130004

0566

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Detroit: Caminhão GM com Motor 4.53 | Pá Carregadeira Case com Motor 4.53

## MOTOR

Remy: 1113598 | 1113639 | 1113655 | 1113695 | 1998338 | 1998455

## EQUIVALENTE / Equivalent

Remy: D2026 | D2043 | 1875802 | 1875852 | 1877333 | 1877353 | 1932308 | 1932890 | 1951180 | 1965358 | 1987756 | 10498438

0567

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Allis Chalmers: ACC 20 / 25 / 30 Continental F135 1974...1980 | ACC 20 / 25 / 30 Continental F163 1981...1986 | ACC 35 / 40 / 45 / 50 / 55 Continental F163 1975...1986 | ACC 60 / 70 / 80 / 100 / 120 Continental F245 1975...1981 | ACC 60C / 70C / 100C Continental F245 1975...1981 | ACP 110 Continental F245 1979...1981 | ACP 130 Continental F245 1979...1981 | ACP 150 Continental F245 1979...1981 | ACP 20 / 25 / 30 Continental F135 1974...1980 | ACP 20 / 25 / 30 Continental F163 1981...1985 | ACP 40 / 50 Continental F163 1975...1985 | ACP 60 / 70 / 80 Continental F245 1975...1981 | ACS 100 / 120 Continental F245 1975...1981 | ACS 70 Continental F163 1979...1985 - Clark: C20 Séries Continental Y112 Engine 1965...1966 | C25 Séries Continental Y112 Engine 1964...1965 | C30 Séries Continental F162 Engine 1965...1966 | C40 Séries Continental F162 Engine 1965...1966 | C50 Séries Continental F162 Engine 1966 | C60 Séries Continental F209 Engine 1964...1965 | CF20 Séries Continental Y112 Engine 1964...1966 | CF25 Séries Continental Y112 Engine 1964...1965 | CF30 Séries Continental F162 Engine 1966 | CF40 Séries Continental F162 Engine 1966 | CF50 Séries Continental F162 Engine 1966 | CFY60 Séries Continental F244 Engine 1963...1965 | CT20 Séries Continental F162 Engine 1966 | CT30 Séries Continental F162 Engine 1966 | CT40 Séries Continental F162 Engine 1966 | CT50 Séries Continental F162 Engine 1966 | CY20 Séries Continental F162 Engine 1965 | CY30 Séries Continental F162 Engine 1963...1965 | CY40 Séries Continental F162 Engine 1965 | CY60 Séries Continental F244 Engine 1965 - Teledyne: F163 0000 | F227 0000 | F245 0000 | F4 1969...1980 | F6 1969...1980 | TC56 1983...1985 | Y112 1981...1986

## MOTOR

Allis Chalmers: 8620794 | 8624170 | 8624171 | 8625404 | 4885883R - Baker: 101363 | 115109 - Case: A20873 | A36582 | A36583 | A38413 | A47466 | A57092 | A59671 | D32189 | G44881 | G44927 | 104192A1 | 396587R91 - Caterpillar: 88190 | 655293 | 677750 - Chrysler: 2958166 - Clark: 316595 | 335861 | 391632 | 636180 | 916303 | 999665 | 1636179 | 1636180 | 2355693 | 2355694 | 2377360 | 3001006 | 3001008 | 3001018 | 3002935 | 3004551 | 3004552 | 3004555 | 3004562 | 3042514 | 3136105  
Hyster: 282661 - IHC Navistar: 267904C91 | 446427C92 | 500164C91 | 844187C91 - John Deere: TY1434 | TY1435 | TY1456 | TY1457 | TY6629 | TY6691 | TY6694 | TY6695 | TY6704 | AP22652 | AR11160 | AR11161 | AR11300 | AR11305 | AT12283 | AT12458 | AT14860 | AT15334 | AT15335 | AT16209 | AT16311 | AT17411 | TY26007 | TY26034 | TY26038 | AP22652H | SE501437 - Towmotor: 88189 | 215861 | 215987 | 971561 - White: 207000396 - Yale: 220002397 | 220007252 | 220007343 | 220007347 | 220007359 | 220007362

## EQUIVALENTE / Equivalent

Remy: D2036 | 1892899 | 1952410 | 10499854

0568

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Caminhão D478 1969...1972

## MOTOR

Ford: C5TF11000B | C6TF11000B | C6TZ11001A | C6TZ11002C | C7TF11000A - Remy: 1107214 | 1107234 | 1107249 | 1107268 | 1107290 | 1107291 | 1107382 | 1107503 | 1107511 | 1107512 | 1107515 | 1107533 | 1107539 | 1107540 | 1107557 | 1107561 | 1107575 | 1107580 | 1107582 | 1107591 | 1107592 | 1107593 | 1107696 | 1107857 | 1107859 | 1107867 | 1107872 | 1108240 | 1108280 | 1108322 | 1108379 | 1108396 | 1108397 | 1108415 | 1108431 | 1108443 | 1108447 | 1108449 | 1108476 | 1108493 | 1108632 | 1108634 | 1108644 | 1108648 | 1108649 | 1108667 | 1108696 | 1109023 | 1109194

## EQUIVALENTE / Equivalent

Chrysler: 2525287 - Ford: C6TZ11350A - Remy: D2024 | D2025 | D2042 | 1852716 | 1876857 | 1877355 | 1933471 | 1941119 | 1941157 | 1942950 | 1950058 | 1964127 | 1966931 | 1968355 | 1971707 | 1975046 | 4019393 | 10498623

0570

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Peugeot: 205

0570

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## MOTOR

Paris Rhone: D10E85 | D10E92 | D10E922

## EQUIVALENTE / Equivalent

Italacciai: SD044 - Lucas: TMB266 - Lucas Indiel: 223745 - Paris Rhone: 103611 - Remy: 96051972

0571

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Renault: R18 Diesel

## MOTOR

Italacciai: D11E172 - Paris Rhone: D11E172

## EQUIVALENTE / Equivalent

Italacciai: SD335 - Lester: 17005 - Lucas Indiel: 223315 - Paris Rhone: 99738

0572

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 190D 2.2, 2.5 | 200D DT | 208D | 210D | 250D DT | 300D DT | 308D | 310D | 408D - Ssangyong: Musso 2.3, 2.5

## MOTOR

Bosch: 0001218006 | 0001218016 | 0001218021 | 0001218029 | 0001218108 | 0001218109 | 0001218110 | 0001219001 | 0001219007 | 0001219009

## EQUIVALENTE / Equivalent

Bosch: 1006209523 | 9003336291 - Lester: 17040 - Lucas Indiel: 223746

0573

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

BMW: 324D | 324TD | 524TD | 750i - Chrysler: Dodge | Dodge Dakota 2.5 Diesel | Jeep Cherokee Sport - Jeep: Cherokee | Grand Cherokee - Opel: Omega 2.3 D, 2.3 TD | Rekord 2.3 D, 2.3 TD | Senator 2.3 TD - Peugeot: Boxer

## MOTOR

Bosch: 0001218009 | 0001218011 | 0001218026 | 0001218027 | 0001218028 | 0001218135 | 0001218136 | 0001218177

## EQUIVALENTE / Equivalent

Bosch: 1006209524 | 6033AD0044 | 6033ADO044 | 9003336280 - Lester: 17016 | 17183 - Lucas Indiel: 223747

0574

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Citroën: Especial/Special - Peugeot: Especial/Special - Renault: Especial/Special

## MOTOR

Ducellier: 534031 | 534032 | 534039 | 534043 | 534044 | 534047 | 534054 | 534055 | 534057 | 534023A | 534029A | 534042AB | 534043AB - Italacciai: 534029A

## EQUIVALENTE / Equivalent

Bendix: 327585 | 331025 | 331032 - Ducellier: 583277 | 583289 | 583336 | 583347 | 683145 - Italacciai: SD047 | SD499 - Lester: 16756 | 16797 - Lucas: TMB265

Paris Rhone: 106140 | 183917 - Valeo: NE307 | NE308 | NE603 | 583289 | 583336

0575

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Chrysler: Daytona 3.0 1988...1994 | Saragata 3.0 1991...1993 | Voyager V6 3.0 1986...1993 - Fiat: Duna | Uno Diesel - Renault: R11 Diesel | R9 Diesel

## MOTOR

Bosch: 0001110024

## EQUIVALENTE / Equivalent

Bosch: 1006209546 - Lester: 17047 - Lucas Indiel: 223120

0576

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Suzuki: Baleno | Swift 1.3

0576

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## MOTOR

Nippondenso: 280009900 | 280009901 - Remy: 96051950 | 96062498 - Suzuki: 3110082010 | 3110082011

## EQUIVALENTE / Equivalent

Bosch: 1987BE0042 - Lester: 16971 - Nippondenso: 0283004390 | 0283005850 - Remy: 96051972 - Suzuki: 3132082010

0579

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Seat: Cordoba 1.9 Diesel | Cordoba 1.9 Diesel Turbo | Cordoba SXE 1996 - Volkswagen: Cabrio, GTD, GTI | Cabriolet Carat L4 1.8 1991 | Cabriolet Carat L4 1.8 gasolina 1992 | Cabriolet Classic L4 1.8 gasolina 1993 | Cabriolet Etienne Aigner L4 1.8 gasolina 1991 | Corrado SLC V6 2.8 gasolina 1992 | Corrado SLC V6 2.8 gasolina 1993 | Corrado SLC V6 2.8 gasolina 1994 | Corrado V6 V6 2.8 gasolina 1993 | Corrado V6 V6 2.8 gasolina 1994 | Eurovan Camper L5 2.5 gasolina 1995 | Eurovan CL L5 2.5 gasolina 1993 | Eurovan CV L5 2.5 gasolina 1993 | Eurovan GL L5 2.5 gasolina 1993 | Eurovan GLS L5 2.5 gasolina 1994 | Eurovan GLS L5 2.5 gasolina 1995 | Eurovan MV 1994 | Eurovan MV L5 2.5 gasolina 1993 | Gol GTI | Golf 1.6, 1.8, Diesel | Jetta 1.8, Diesel, INJ, TD | Sincro

## MOTOR

Bosch: 0001108094 | 0001108095 | 0001108127 | 0001110001 | 0001110002 | 0001110014 | 0001110076 | 0001110077 | 0001110098 | 0001112003 | 0001112038 | 0001114005

## EQUIVALENTE / Equivalent

Bosch: 1006209543 | 1006209544 | 1006209576 | 1006209596 | 1006209703 | 1006209710 | 1006209918 | 1006209919 | 1006209921 | 1007010045 - Cargo: 132216  
Fiat: 9944373 - Lester: 17030 | 17134 | 17222 - Lucas Indiel: 223274

0580

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Nissan: Patrol

## MOTOR

Hitachi: 525131A | 525155D

## EQUIVALENTE / Equivalent

Lucas Indiel: 223751 - Nissan: 23312J2003

0584

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Kia: Pride - Kubota: Trator

## MOTOR

Kubota: 1585263011 | 1585263012 - Mitsubishi: M2T30481 | M2T42381

## EQUIVALENTE / Equivalent

Lester: 16791 | 18162 - Lucas Indiel: 223755 - Mitsubishi: M191T22271 | M191T22871 | M191T23171

0591

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Cummins: 4 BT/ 6BT vehicles

## EQUIVALENTE / Equivalent

Lucas: TNB173 | 54290474

0594

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 191

## APLICAÇÃO / Application / Aplicación

Fiat: Trator

## MOTOR

Lucas Indiel: 26390A | 26372A/B | 26385A/B | 26390B/E | 27430A/B

## EQUIVALENTE / Equivalent

Fiat: 9956595 - Lucas: TMB130 | 54248606 - Lucas Indiel: 223763

0595

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Tracker - Hyster: Empilhadeira - Hyundai: Elantra | i30 | Pony | Santa Fé 2008 | Sonata 2.4, 3.0 | Stellar | Tucson - Jeep: Eagle 1.6, 1.8, 2.0 T - Mitsubishi: 4G63 | 4G93 | Eclipse 2.0T | Expo | Galant 2.0, 2.4, 3.0 | Mirage | Montero | Pajero | Sigma | Tredia 2.0 - Nissan: GA 15 | GA 16 - Suzuki: Sidekick 1994 | Vitara

## MOTOR

General Motors/Chevrolet: 30001696 - Mazda: AM1518400 - Mitsubishi: 79581 | MT36100 | MOT70281 | MOT70381 | MOT70481 | MOT70681 | MOT70781 | MOT70981 | MOT71181 | MOT71381 | MOT71581 | MOT71681 | MOT72581 | MOT73281 | MOT73381 | MOT77681 | M1M70685 | M1M72086 | M1T70481 | M1T70482 | M1T70483 | M1T70485 | M1T70681 | M1T70685 | M1T70686 | M1T70687 | M1T71381 | M1T71382 | M1T71581 | M1T71681 | M1T72081 | M1T72085 | M1T72086 | M1T72088 | M1T72581 | M1T72583 | M1T73281 | M1T73283 | M1T73381 | M1T73383 | M1T74881 | M2T53083 | MD099667 | MD112625 | MD136933 | MD162839 | MD162840 | MD162842 | MD162843 | MD163188 | MD170049 | MD172860 | MD172861 | MD172863 | MD172864 | MD174482 | MD174483 | MD180937 | MD182488 | MD188720 | MD188721 | M1T70685A | M1T72086A | M1T723281 | M000T92581 - Nissan: 2330008U10 | 2330020P10 | 2330020P11 | 2330022P70 | 2330022P71 | 2330041B76 | 2330042L70 | 2330050Y10 | 2330050Y11 | 2330050Y12 | 2330057M70 | 2330057M75 | 2330057M90 | 2330065Y10 | 2330077A11 | 2330084A17

## EQUIVALENTE / Equivalent

Bosch: 1987BE0043 - General Motors/Chevrolet: 96063636 - Lester: 16874 | 16939 | 17131 | 17146 | 17185 | 17214 | 17217 | 17221 | 17266 | 17478 | 17592  
Lucas Indiel: 223764 - Mazda: AM1518X25 - Mitsubishi: 12071 | 12471 | MD611211 | M001T73283 | M191T12070 | M191T12071 | M191T12471 - Nissan: 233542L70 | 2331242670 | 2335442L70 | 2335704E10 - Suzuki: 3132086030

0596

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Clark: Empilhadeira Clark CGP25 - Nissan: Titan 5.6

## MOTOR

Ford: SAE770 | SAE781 | FE1H18400 | E22E18400A | E92Z11002A | F02Z11002B | F12Z11002A | F22518400A - Mazda: E22E18400 | F21418400 | F2D418400 | FE1H18400 | F21418400A | F21418400B | F21418400C | F2D418400A - Mitsubishi: M1M70981 | M1M71281 | M1M71481 | M1M72181 | M1M72182 | M1Q71281 | M1T70981 | M1T70985 | M1T71081 | M1T71281 | M1T71481 | M1T71881 | M1T72181 | M1T72182 | MD318086 | M1T70981A | M1T71281A | M1T71281B | M1T71481A | M1T72181A | M1T72182A | MD 318086 - Nissan: 2330001Y10 | 2330020R11 | 2330020R91 | 2330030F10 | 2330030F11 | 2330044R10 | 2330044R11 | 23300D0511 | 23300D0513

## EQUIVALENTE / Equivalent

Ford: SDE335 | SDE336 | SDE342 | E92Z11350A | E92Z11350B - Lester: 16900 | 16933 | 16998 | 17132 | 17176 | 17469 - Mazda: F21418X25 - Mitsubishi: M191T12171 | M191T13271 - Nissan: 2335420R10

0597

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Jeep: Grand Cherokee 1995 | Jeep Cherokee 01/1994... | Jeep Cherokee 4.0 01/1987...01/1992 | Jeep Wrangler 4.0, 4.2 01/1988... 01/1993

## MOTOR

Mitsubishi: M1T74281 | M1T74481 | M1T74482 | 56041012AB | M001T84381ZC

## EQUIVALENTE / Equivalent

Lester: 16514 | 17006 | 17046 | 17564 - Lucas Indiel: 223766 - Mitsubishi: M191T12271 | M191T12272

0600

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Subaru: Coupe XT

## MOTOR

Mitsubishi: M1T70381 - Subaru: 23300AA040

## EQUIVALENTE / Equivalent

Lester: 16888 - Mitsubishi: 16171 | M191T16171 - Nissan: 23312AA000 - Subaru: 23312AA000

0601

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: 30AR8 | 32AR8 | 35AR8 | 40AR8 - Fiat: 131 2.0, 2.5 diesel | 132 2.0, 2.5 diesel | Argenta 2.5 diesel | Nuova Argenta Diesel - Fiat Allis: 4 Aripista FE14, FE16, FL4C | 4 Aripista FL4D, FR20, FR7, FR9 | 4 Aripista, 645, FE12, FE2R - Fiat Iveco: Caminhão 70.12 | Caminhão 80.13 | Caminhão 90.13 | Caminhão 100 | Caminhão 100.13 | Caminhão 110 | Caminhão 150.17 | Caminhão 150.20 | Caminhão 159.17 | Caminhão 159.20 | Caminhão 314.3 | Caminhão 315.23 | Caminhão 315.8 | Caminhão 50.10 | Caminhão 50.8 | Caminhão 50.9 | Caminhão 55.8 | Caminhão 55.9 | Caminhão 60.10 | Caminhão 60.8 | Caminhão 65.10 | Caminhão 70.10 | Caminhão 75.10 | Caminhão 79.10 | Caminhão 79.13 | Caminhão 80 | Caminhão 90 | Daily 28.8 | Daily 30.8 | Daily 32.8 | Daily 35.8 | Daily 40.8 | Ducato 2.0 e 2.5 Diesel - Seat: 131 2.5 Diesel

0601

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## MOTOR

Magneti Marelli: 63216731 | 63216741 | 63216831 | 63216896 | 63217126 | 63217148 | 63217154 | 63217188 | 63217226 | 63217410

## EQUIVALENTE / Equivalent

Fiat: 7984505 | 9961781 | 79081045 - Italacciai: SD077 - Lester: 18092 | 18093

0603

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Deutz: F4L913 | F5L913 | F6913 - Fiat: F150 | F160 - Mercedes Benz: OM 314 3.8 4cil Diesel 1990... | OM 352 1990... | OM 355 1990...

## EQUIVALENTE / Equivalent

Lucas Indiel: 223277

0605

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Volkswagen: Furgão | Kombi | Pick Up

## EQUIVALENTE / Equivalent

Lucas Indiel: 221911 - Tria: 3143 | ZAA911335

0607

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Agco: L3 670 Diesel 1986...1987 | M3 670 Diesel 1986...1987 | N5 670 Diesel 1986 | N6 670 Diesel 1986 | R5 670 Diesel 1986...1987 | R6 670 Diesel 1986...1987

Allis Chalmers: 7030 6 426 Diesel 1974 | 7040 6 426 Diesel 1975...1977 | 7045 6 426 Diesel 1978...1981 | 7050 6 426 Diesel 1974 | 7060 6 426 Diesel 1975...1981 | 7080 6 426 Diesel 1975...1981 | 7580 6 426 Diesel 1977...1981 | 8030 6 426 Diesel 1982...1985 | 8050 6 426 Diesel 1982...1985 | 8070 6 426 Diesel 1982...1985 | L2 6 426 Diesel 1979...1982 | L3 6 426 Diesel 1983...1985 | M2 6 426 Diesel 1979...1985 | M3 6 426 Diesel 1983...1985 | N5 6 426 Diesel 1978...1986 | N6 6 426 Diesel 1978...1986 - Deutz: L3 670 Diesel 1986...1989 | M3 670 Diesel 1986...1989 | R5 1986...1993 | R6 1986...1993

## MOTOR

Nippondenso: 280004930

## EQUIVALENTE / Equivalent

Allis Chalmers: 268757 - Lester: 16627 - Nippondenso: 0283001780

0608

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Fiat Allis: 350 | 350 DT | 355 | 450 | 455 C | 480 | AD4 | FL4

## MOTOR

Fiat: 4169912 | 4172004 | 4172113 | 4187587 | 4187590 | 4231018 | 4232191 | 4234741 | 4269114 - Italacciai: 4187587 - Magneti Marelli: 63224170 | 63224500 | 63224580 | 63224600 | 63224602

## EQUIVALENTE / Equivalent

Fiat: 4169960 | 4226442 | 4474695 | 4475032 - Italacciai: SD112 - Nissan: 4169960 | 4226442 | 4474695 | 4475032

0609

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Dodge: 1500

## EQUIVALENTE / Equivalent

Lucas Indiel: 221904 - Tria: 116

0610

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Blazer V6 USA 1988... | GMC | Motor para Empilhadeira Hyster - Hyster: Empilhadeira Hyster

## EQUIVALENTE / Equivalent

Bosch: 1987BE0044 - Lester: 6407 - Lucas Indiel: 223278 - Remy: D2047 | 1989214

0611

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: GMC | Motor

## MOTOR

Remy: 9000773

## EQUIVALENTE / Equivalent

Lester: 6300 | 6407 | 6409 | 6431 | 6443 - Remy: D2048 | 10469173 | 10498527

0612

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: GMC Sonoma 2.2 lts | Motor para Empilhadeira Hyster XM50 | Pick Up S10 Importada 2.2 modelo LS /com motor 4cil 1994 | Pick Up Sonoma 2.2 lts. Importada - Hyster: Empilhadeira Hyster XM50

## MOTOR

Remy: 10455053

## EQUIVALENTE / Equivalent

Bosch: 1987BE0045 - Cargo: 135063 - Lester: 6415 | 6416 | 6418 | 6424 - Lucas Indiel: 223279 - Remy: D2050 | 10468675 | 10473700

0613

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Volkswagen: Transporter TD

## MOTOR

Bosch: 0001110009 | 0001110010

## EQUIVALENTE / Equivalent

Bosch: 1006209532 - Lester: 17068

0615

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Land Rover: Land Rover 2.25 D

## MOTOR

Lucas Indiel: M45G | 27410A | 27418A | 26270A/J | 26300A/J

## EQUIVALENTE / Equivalent

Lucas: TMB106 | 54246727

0617

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 192

## APLICAÇÃO / Application / Aplicación

Suzuki: Vitara

## MOTOR

General Motors/Chevrolet: 96058456 | 96058457 | 96064782 | 96064783 - Mitsubishi: M1T72481 | M1T74581 - Suzuki: 3110050A10 | 3110060A11 | 3110060A20 | 3110060A21 | 3110060AC1

## EQUIVALENTE / Equivalent

General Motors/Chevrolet: 96058480 - Lester: 17166 | 17194 | 17206 - Mitsubishi: M191T12871 - Suzuki: 3132060A10

0619

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Volkswagen: Golf Turbo diesel | Jetta Turbo diesel

## MOTOR

Bosch: 0001110001

## EQUIVALENTE / Equivalent

Bosch: 1006209522 | F000AL1520 | F000AL1708 - Lester: 17030 - Lucas Indiel: 223782



0622

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE

STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Cummins: Motor Série C - Komatsu: Motoniveladora GD523 com motor Cummins série C | Motoniveladora GD623 com motor Cummins série C | Pá Carregadeira com motor Cummins série C - Mercedes Benz: L1625 | L2325 | L2635 | LB2325 | LG1825 | LK2325 | LS1625 | LS1630 | LS1935 | LS1941

## MOTOR

Bosch: 9000453064 | 9000453065 | 9000453067 | 9000453068

## EQUIVALENTE / Equivalent

Bosch: 9001453601 - Facet: 10627 - Wapsa: 224057

0624

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE

STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Case: Especial/Special - Ford: F9000 | LN9000 - General Motors/Chevrolet: Especial/Special - John Deere: Especial/Special - Mercedes Benz: 1625 | 1630 | 1825 | 1935 | 1941 | 2325 | O355 (OM355-6) | O364 (OM355-5 e 6) | O365 (OM355-5) | O370 | O370 (OM355-5, 6, 6A, 6LA) | O371 | O371 (OM355-5A, 6A, 6LA) | O371UP | O371UP (OM355-5) | O400R | O400RS | O400RSD | O400RSL (OM 449A) | OM 3555, 3556, 3556A, 3356LA, 3555 Série BR400 - TCM Equipment Ag: Série 37MT 12/24V (MB, VW, Ford) - Volkswagen: Caminhão P100501, P100502 Cummins série C - 12/24V 12D

## MOTOR

Remy: 323841 | 323842 | 323843 | 323844 | 323847 | 323850 | 323852 | 1990310 | 1990313 | 1990315 | 1990316 | 1990317 | 1990319 | 1990320 | 1990321 | 1990327 | 1990330 | 1990331 | 1990332 | 1990336 | 1990498 | 1990707 | 1993669 | 1993709 | 1993713 | 1993719 | 1993728 | 1993729 | 1993732 | 1993742 | 1993745 | 1993746 | 1993755 | 1993763 | 1993764 | 1993768 | 1993770 | 1993778 | 1993791 | 1993794 | 1993831 | 1993832 | 1993851 | 1993853 | 1993861 | 1993865 | 1993869 | 1993871 | 1993873 | 1993874 | 1993878 | 1993881 | 1993883 | 1993885 | 1993887 | 1993891 | 1993898 | 1993901 | 1993902 | 1993909 | 1993910 | 1993911 | 1993918 | 1993920 | 1993926 | 1993928 | 1993931 | 1993953 | 1993958 | 1993964 | 1993965 | 1993966 | 1993974 | 1993992 | 1993997 | 10461007 | 10461008 | 10461010 | 10461013 | 10461016 | 10461018 | 10478805 | 10478811 | 10478825 | 10478826 | 10478927 | 10478949 | 10478960 | 10479014 | 10479034 | 10479196 | 10479302

## EQUIVALENTE / Equivalent

Bosch: 1987BE0019 - Facet: 10624 | 10640 - Lucas Indiel: 220400 - Remy: 1985262 - Ww: 10640

0625

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE

STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Ford: Cargo 7.8 lts | F800 - General Motors/Chevrolet: Caminhão 14190 | Truck - TCM Equipment Ag: Série 37MT 12/24V - Volkswagen: Caminhão 13.210 Cummins 6 cil Turbo | Caminhão 14.210 Cummins 6 cil Turbo | Caminhão 22.210 Cummins 6 cil Turbo - ZEN: Equivalente OEM - ZEN 0755

## MOTOR

John Deere: E48134 - Remy: 323818 | 323834 | 323835 | 323836 | 323837 | 323839 | 323840 | 323849 | 323868 | 323869 | 323879 | 323880 | 1990308 | 1990309 | 1990311 | 1990312 | 1990315 | 1990318 | 1990326 | 1990347 | 1990499 | 1993701 | 1993702 | 1993705 | 1993712 | 1993723 | 1993726 | 1993738 | 1993741 | 1993744 | 1993754 | 1993756 | 1993759 | 1993761 | 1993762 | 1993767 | 1993769 | 1993789 | 1993790 | 1993792 | 1993793 | 1993799 | 1993800 | 1993817 | 1993818 | 1993819 | 1993829 | 1993832 | 1993837 | 1993850 | 1993854 | 1993855 | 1993862 | 1993866 | 1993879 | 1993880 | 1993881 | 1993886 | 1993893 | 1993894 | 1993903 | 1993905 | 1993914 | 1993917 | 1993921 | 1993947 | 1993950 | 1993951 | 1993954 | 1993955 | 1993956 | 1993957 | 1993963 | 1993970 | 1993971 | 1993981 | 1993986 | 1993988 | 1993994 | 10461001 | 10461002 | 10461003 | 10461005 | 10461006 | 10461015 | 10461039 | 10461044 | 10461069 | 10478806 | 10478814 | 10478819 | 10478831 | 10478890 | 10478921 | 10478928 | 10478929 | 10478930 | 10478953 | 10478957 | 10478976 | 10479015 | 10479016 | 10479020 | 10479035 | 10479036 | 10479054 | 10479068 | 10479069

## EQUIVALENTE / Equivalent

Bosch: 1987BE0046 - Facet: 10621 | 10639 - Ford: E6HZ11350A - Lester: 6204 | 6348 | 6387 | 6391 | 6410 | 6467 - Remy: 1986244 - Ww: 10639

0626

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE

STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Caterpillar: 3508 | 3512 | 3516 - General Motors/Chevrolet: Caminhões de linha pesada 6V - Waukesha: Especial/Special

## MOTOR

Remy: 1109220 | 1109221 | 1109297 | 1109648 | 1109962 | 1113856 | 1113857 | 1113874 | 1113875 | 1113889 | 1113907 | 1113917 | 1113953 | 1113984 | 1113996 | 1114047 | 1114059 | 1114062 | 1114063 | 1114075 | 1114080 | 1114093 | 1114100 | 1114104 | 1114106 | 1114183 | 1114702 | 1114718 | 1114736 | 1114739 | 1114778 | 1114792 | 1114807 | 1114808 | 1114809 | 1114840 | 1114902 | 1114922 | 1114925 | 1114930 | 1114952 | 1114959 | 1114960 | 1990213 | 1990215 | 1990216 | 1990217 | 1990236 | 1990242 | 1990245 | 1990265 | 1990340 | 1990380 | 1990381 | 1990389 | 1990395 | 1990430 | 1990436 | 1990439 | 1990447 | 1990494 | 1993827 | 1993849 | 1993996 | 1993999 | 10478981

## EQUIVALENTE / Equivalent

Cargo: 132731 - Caterpillar: 93090 | 5L6429 - Facet: 480135 | 480322 - Lester: 3039 | 3040 | 3288 | 3289 | 3290 | 3297 | 3701 | 3702 | 3747 | 3899 | 4851 | 6261 | 6263 | 6272 | 6273 | 6621 | 6622 | 6623 | 6629 - Remy: 830621 | 1894212 | 1945879 | 1970527 | 1977004 | 8000067 - Volkswagen: 480322

0627

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

CBT: Javali

## EQUIVALENTE / Equivalent

CBT: 58000043

0629

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Ford: F12000 | F14000 1999 | F700 Diesel

## MOTOR

Remy: 10479621 | 10479634

## EQUIVALENTE / Equivalent

Lester: 6468 | 6469 | 6570 | 6573 | 6585 | 6589 | 6590 | 6595 - Lucas Indiel: 223787 - Remy: 10456455 | 10457056 | 10457579

0630

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Fiat: Duna 1.7 D | Selecta TD | Tipo 1.7 D | Uno - Fiat Iveco: Especial/Special - Mercedes Benz: E 420 | E 420 T-Modell | E 500 | E 500 Coupe | E 500 SEC / S500 | E 500 SEC Coupe | E 560 SEL | S 420 | S 500 | SL 500 - Renault: Express | R11 Diesel | R5 Diesel | R9 Diesel

## MOTOR

Bosch: 0001110003 | 0001110005 | 0001110016 | 0001110025 | 0001110026 | 0001110039 | 0001110053 | 0001110054 | 0001110055 | 0001110075 | 0001110078 | 0001110079 | 0001110082 | 0001110089 | 0001110091 | 0001110092 | 0001110095 | 0001110102 | 0001110113 | 0001110115 | 0001110124 | 0001110125 - Fiat: 7580192

## EQUIVALENTE / Equivalent

Bosch: 1006209538 | 1006209539 | 1006209691 - Cargo: 132205 - Fiat: 9940740 - Italcacciai: SD062 - Lester: 17038 | 17150 | 17227 | 17281 | 17410 | 17698  
Lucas Indiel: 222525

0631

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Audi: 100D | 100TD - Fiat: Ducato | Marengo | Regata TD | Ritmo TD | Tipo TD - Lancia: Dedra TD | Delta TD | Prisma TD - Volkswagen: LT28 | LT31 | LT35 | LT40 | LT45 | LT50 D Turbo - Volvo: 240 2.4 D | 740 2.4 D | 760 2.4 TD

## MOTOR

Bosch: 0001218001 | 0001218004 | 0001218005 | 0001218008 | 0001218010 | 0001218012 | 0001218013 | 0001218017 | 0001218018 | 0001218025 | 0001218107 | 0001218115 | 0001218120 | 0001219004 | 0001219008 - Fiat: 5984563 | 5985182

## EQUIVALENTE / Equivalent

Bosch: 9001140317 | 9003336293 - Fiat: 9939194 - Italcacciai: SD440 - Lester: 17009 - Lucas Indiel: 223285

0632

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Ford: Granada 2.5 D | Scorpio 2.5 D | Sierra 2.3 D - Renault: R18 Diesel

## MOTOR

Bosch: 0001218002 | 0001218015 | 0001218022 | 0001218106 | 0001218129

## EQUIVALENTE / Equivalent

Bosch: 9002336207 | 9003336201 | 9003336284 - Lucas Indiel: 223788

0633

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Ford: Escort 1.6 D | Fiesta 1.6 D | Orion 1.6 D

## MOTOR

Bosch: 0001317023

## EQUIVALENTE / Equivalent

Bosch: 1006209519 - Lucas Indiel: 223789

0634

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Nissan: Pick Up

## MOTOR

Hitachi: S114505 | S114509 | S114526 | S114527 | S114526A | S114527A - Nissan: 2330001N00 | 2330020P00 | 2330057N60 | 23300G8400

## EQUIVALENTE / Equivalent

Hitachi: 211445012 - Lester: 17454 - Lucas Indiel: 223790 - Nissan: 2331242L60

0635

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

John Deere: JD310 | JD350 | JD400 | JD410 | JD450 | MD1040 | MD1065 | MD1075 | MD1085 | MD1140 | MD1640 | MD1840 | MD20401 | MD2140 | MD3040  
| MD3140 | MD840 | MD932 | MD940 | MD941 | MD952 | MD955 | MD958 | MD965

## MOTOR

Bosch: 0001362312 | 0001362316 | 0001362319 | 0001362321 | 0001367037 | 0001368059 | 0001369001 | 0001369005

## EQUIVALENTE / Equivalent

Bosch: 2006209427 | 2006209457 | 2006209459 - Lester: 16563 | 17095 - Lucas Indiel: 223791

0636

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Ford: Festiva - Kia: Pride

## MOTOR

Ford: SAE763 | SAE782 | SAE761A | B8GY11002A | E8BZ11002A | F0BZ11002A - Mazda: B30118400 | B30118400C | B35918400A - Mitsubishi: M3T33081 |  
MC108027

## EQUIVALENTE / Equivalent

Ford: SDE334 | E8BZ11350A - Lester: 17010 - Lucas Indiel: 223792 - Mazda: B30118400 | B30118X45 - Mitsubishi: M191T26771

0638

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Bomag: BW 90 - Deutz: F1L210 (.7L - 673cc) 1963...1975 - Farymann: D 40 - E 40 - Hatz: E 80 FG - E 80 G - E 85 FG - E 89 - KHD: Engines F1L210 (.7L - 673cc)  
1963...1975 - Miller Electric Welder: All Models Deutz F1L210 Diesel 1963...1976 - Palmieri: PDA 625-750-1250

## MOTOR

Bosch: 0001311050 | 0001311051 | 0001314010

## EQUIVALENTE / Equivalent

Bosch: 1006209418 - Lester: 18233

0639

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 193

## APLICAÇÃO / Application / Aplicación

Ford: Escort XR3 - Seat: Especial/Special - Volkswagen: Eurovan | Pointer | Polo

## MOTOR

Bosch: 0001110031 | 0001110032 | 0001110061 | 0001110062 | 0001110084 | 0001110085

## EQUIVALENTE / Equivalent

Bosch: 1006209552 | 1006209912 - Cargo: 134371 - Lester: 17231 - Lucas: TMB474 - Lucas Indiel: 223795

0641

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Chrysler: Grand Caravan 3.0 i LE | Spirit | Voyager 2.5 e 3.0.

## MOTOR

Bosch: 0001108068 | 0001108069 | 0001108070 | 0001108103 | 0001108104 | 0001108105 | 0001108123 | 0001108134 | 0001108135 | 0001108160

## EQUIVALENTE / Equivalent

Bosch: 1006209561 - Lester: 16963 | 17210 - Lucas Indiel: 223332

0644

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Bobcat: Especial/Special - Nissan: Fork Lifts - Yanmar: Especial/Special

## MOTOR

Hitachi: 5114219 | 5114230 | 5114235

## EQUIVALENTE / Equivalent

Hitachi: 211455003 - Lester: 18206 | 18207 | 18218

0645

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Agco: Trator 9630 6-374 Deutz diesel 1993...1995 | Trator 9650 6-374 Deutz diesel 1993...1996 - Lincoln: Especial/Special - Teledyne: Especial/Special

## MOTOR

Remy: 10479619

## EQUIVALENTE / Equivalent

Remy: 10457178

0646

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Citroën: Citroen BX 19 Diesel - Peugeot: 205 Diesel

## MOTOR

Italacciai: D9R084

## EQUIVALENTE / Equivalent

Italacciai: SD509 - Lucas Indiel: 223801 - Paris Rhone: 105540

0647

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Citroën: Especial/Special 1983...1990 - Peugeot: Especial/Special 1987...1994

## MOTOR

Valeo: D9R90 | D9R99

## EQUIVALENTE / Equivalent

Lucas: TMB275 - Paris Rhone: 180826 - Valeo: NE211 | 182177

0648

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Fiat: Caminhão 640 | Caminhão 1180 | Caminhão 1280 | Caminhão 1380 | Caminhão 1580 | Caminhão 1880 | Caminhão 570 | Caminhão 580 | Caminhão 605 | Caminhão 666 | Caminhão 670 | Caminhão 680 | Caminhão 680 | Caminhão 765 | Caminhão 766 | Caminhão 780 | Caminhão 855 | Caminhão 880.15 | Caminhão 955 | Caminhão 980 - Fiat Allis: Caminhão 545B | Caminhão 645B - New Holland: Trator 8830 04/1994... | Trator DT8630 04/1994... | Trator FNH 8430 04/1994...

## MOTOR

Bosch: 0001367028 | 0001367029 | 0001368019 | 0001368020

## EQUIVALENTE / Equivalent

Bosch: 2006209426 | F000AL1899 - Fiat: 9817920 | 9959572 | 79033659 - Italacciai: SD314 - Lester: 17092 | 17184 | 18030 | 18033 - Remy: 19024527

0649

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Bobcat: 2400 Perkins 4-236 Dsl 1989...1991 | 2410 Perkins 4-236 Dsl 1989...1993 | 3023 Kubota V1702 Dsl 1989...1992 | 641 Deutz F2L511 Dsl 1989...1990 | 741 Deutz F2L511D Dsl 1989...1990 | 843B Isuzu 4JB1PK-01 Dsl 1990...1992 | 843HC Isuzu 4JB1PK-01 Dsl 1989...1992 | 853 Isuzu 4JB1PK-03 Dsl 1990...1994 | 853H Isuzu 4JB1PK-03 Dsl 1991...1994 | 943 Perkins 4-236 Dsl 1990...1994 | 974 Perkins 4-236 Dsl 1989...1990 - Clark: 2000 Perkins 2.5L 1989 | 641 Deutz F2L511 1989...1990 | 741 Deutz F2L511 1989...1990 | 843 Perkins 2.5L 1989...1990 | 843B Isuzu Engines 1990...1992 | 853 / 853H Isuzu Engines 1991...1995 | 943 Perkins 4-236 1990...1994 | 974 Perkins 4-236 1989...1990 - Hyster: H-150-275H Perkins 6-354 1985...1986 | H350A Perkins 6-354 1985...1988 - Lincoln: Various Perkins - Lister Petter Tractor: TX2 / TX3 - Macdon: Macdon 7000 Perkins Diesel 1993...1997 - Mack: CS Séries (Midliner) Mack Engines 1990...1999 | CS Séries (Midliner) Renault 5.8L 1986...1991 | CS Séries (Midliner) Renault 6.2L 1990...2001 | CS Séries (Midliner) Renault 8.8L 1986...1990 | MS Séries (Midliner) Mack E3 1990...1999 | MS Séries (Midliner) Mack E5 / EC5 1986...1990 | MS Séries (Midliner) Renault 5.8L 1986...1991 | MS Séries (Midliner) Renault 6.2L 1990...1999 - Massey Ferguson: MF-60E Perkins Diesel Engines 1989...1992 Miller Electric Welder: 27 Séries 2.0L Teledyne Eng 1989...1993 | 27 Séries Teledyne 2.0L, 2.7L 1989...1993 | Big 40 Cont. Eng 1992 - New Holland: 1426 Caterpillar Engines 1986...1989 | 1426 Perkins Engines 1982...1985 | 1495 Perkins Engines 1982...1985 | L783 Perkins 4-203 Diesel 1989...1995 | L785 Perkins 4-203 Diesel 1989...1994 Perkins: 4-236 4 cil Diesel 1989...2004 | Various Models Diesel - Prairie Sprayer: 4800 Sprayer Perkins Diesel 1993...1997 | 4900 Sprayer Perkins Diesel 1993...1997 Westerbeke: 108B Six 6 cil Diesel 1991...1994 | 108C Six 6 cil, 247ci 4.1L Diesel 1994...2007 | 16.0 BED 4 cil Diesel 1990...1995 | 64A Four 4 cil, 182ci 3.0L Diesel 2003...2007 | 71C Four 4 cil, 154ci 2.5L Diesel 1994...2007 | 82B Four 4 cil, 182ci 3.0L Diesel 1991...2007 | 90A Four 4 cil, 211ci 3.5L Diesel 1999...2007 | GCX40 Perkins Diesel Engines 1990...1997 | GCX50 Perkins Diesel Engines 1990...1997 | GPX35D Perkins Diesel Engines 1990...1995 | GPX40D Perkins Diesel Engines 1990...1995 | GPX50D Perkins Diesel Engines 1990...1995 - Westward: 7000 Perkins Diesel 1993...1997

## MOTOR

Remy: 1113274 | 1113275 | 1113278 | 1113281 | 1113282 | 1113284 | 1113285 | 1113288 | 1113289 | 1113290 | 1113297 | 10479607

## EQUIVALENTE / Equivalent

Lester: 6572 | 6576 | 6578 | 6581 | 6584 | 6587 | 6588 | 6593 | 6600 | 6602 - Remy: 10457057

0650

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Bobcat: 1600 Kubota V1702 Diesel 1989...1993 | 643 Kubota D1402BA Diesel 1989...1993 | 743 Kubota V1702BA Diesel 1989...1990 | 743B Kubota V1702BA Diesel 1991...1994 | 753 Kubota V2203B Diesel 1990...1994 | 7753 Kubota V2203B Diesel 1991...1994 - New Holland: L555 Perkins 4-108 Diesel 1989...1993

## MOTOR

Remy: 1113273 | 1113279 | 1113280 | 10479606 | 10479613

## EQUIVALENTE / Equivalent

Remy: 10457058

0651

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Deutz: Allis - Mercedes Benz: Caminhão 1620 | Caminhão 712 Eletronic

## MOTOR

Remy: 1113286 | 10479620

## EQUIVALENTE / Equivalent

Lester: 6579 | 6599 - Remy: 10457059

0653

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Ford: Cougar | Fairmont - General Motors/Chevrolet: Celebrity 1982...1988 | Chevrolet V6 Citation

## EQUIVALENTE / Equivalent

Bosch: 9001041103 | 9001043103

0656

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Renault: Espace | Fuego | Master | R18 | R20 | R21 | R25 | R30 Turbo diesel | Trafic Diesel

## MOTOR

Italacciai: D9R073 - Valeo: D9R73 | D9R134

## EQUIVALENTE / Equivalent

Bosch: 1987BE0047 - Italacciai: SD508 - Lester: 17085 - Lucas Indiel: 221292 - Paris Rhone: 105538 | 185182 - Valeo: NE209 | NE883 | 182047 | 185182 | 594245

0657

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Ford: F1000 Maxion HSD - General Motors/Chevrolet: S10 2.5 Diesel Maxion - Land Rover: Discovery OMO14A - Mercedes Benz: Sprinter 310 Diesel

## MOTOR

Italacciai: D9R091 - Valeo: D9R91

## EQUIVALENTE / Equivalent

Italacciai: SD483 - Lucas: TMB276 - Lucas Indiel: 223808 - Paris Rhone: 181068 - Valeo: 182178 | NE 212

0661

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge Série S - Ford: D0707 | D0810 | D0910 | D1010 | D1111 | D1211 | D1314 | N0708 | N0710 | N0808 | N0810 | N0812 | N0814 | N0910 | N0914 | N1114 | N1414 | NA1814 | NA2214 - Massey Ferguson: MF155 | MF158 | MF168 | MF186 | MF187 | MF188 | MF487 | MF507 | MF510 | MF520 | MF525 | MF87 - Perkins: Tratores, Industriais, Estacionários.

## MOTOR

Bosch: 0001359067 | 0001359069 | 0001359081 | 0001359082 | 0001359104 | 0001359109 | 0001359110 | 0001360055

## EQUIVALENTE / Equivalent

Bosch: 2006209413 | 2006209443

0663

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Isuzu: Especial/Special

## EQUIVALENTE / Equivalent

Fiat: 70449580 - Hitachi: 22505550 | 212095001 - Isuzu: 5811230040

0668

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Massey Ferguson: MF235 | MF235 1986... | MF265 1986... - Perkins: Trator MF 235 -265 A3.152 | Trator MF 265 AD4.203 abr/76 | Tratores, Industriais, Estacionários.  
Yanmar: 1050D | 1050D 4x4

## MOTOR

Bosch: 9000083072 | 9000453072 | 9000453080

## EQUIVALENTE / Equivalent

Bosch: 9001083629

0669

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 194

## APLICAÇÃO / Application / Aplicación

Ford: Trator - New Holland: Trator

## MOTOR

Ford: SA739B | E8TZ11002A | E8TF11000AA - Mitsubishi: M3T90072

## EQUIVALENTE / Equivalent

Ford: SDE339 | E8PZ11350A - Lester: 17037 - Mitsubishi: M191T66271

0670

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

## APLICAÇÃO / Application / Aplicación

Ford: Truck Diesel - New Holland: Trator

## MOTOR

Ford: SA739A | E5TZ11002B | E8TZ11002A | E5TF11000AA | E8TF11000AA | F3TU11000AA - Mitsubishi: M3T90011 | M3T90071 | M3T90072

## EQUIVALENTE / Equivalent

Ford: SDE330 | E5PZ11350A | E5PF11350AA - Lester: 17037 - Mitsubishi: M191T65571

0671

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Magnetit Marelli: Viejo - Mazda: 626

EQUIVALENTE / Equivalent

Bosch: 1987BE0020

0672

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Ford: Topaz

EQUIVALENTE / Equivalent

Bosch: 9001043259

0673

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Nissan: Pick Up | Sentra | Vanette

EQUIVALENTE / Equivalent

Bosch: 9001042060

0674

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Ford: Especial/Special - Willys: Especial/Special

EQUIVALENTE / Equivalent

Bosch: 9001043179

0675

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Chrysler: Dodge 6cil e 8cil - Motor B 1979...1981

EQUIVALENTE / Equivalent

Bosch: 9001043152

0676

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Chevrolet 8 cilindros

EQUIVALENTE / Equivalent

Bosch: 9001043180

0677

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Ford: 3600 Tractor - Inter: Especial/Special

MOTOR

Bosch: 0001362048 | 0001362049 | 0001362084 | 0001362100

EQUIVALENTE / Equivalent

Bosch: 2006209463 | 2006209474 | F002G20278

0679

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Nissan: 240SX L4 2.4L 2389cc 1989...1990/1991...1998 | Axxess L4 2.4L 2389cc 1990...1995 | KA24E | Stanza L4 2.4L 2389cc 1990...1992

MOTOR

Mitsubishi: M1M72281 | M1T72281 | M1T72281A - Nissan: 2330030R12 | 2330030R13

0679

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

EQUIVALENTE / Equivalent

Lester: 17161 - Mitsubishi: M191T12671 - Nissan: 2335430R10

0681

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Ford: Escort L4 2.0L 1989cc 122cid Diesel 1984...1987 | Tempo L4 2.0L 1989cc 122cid Diesel 1984...1986 - Lincoln: Continental L6 2.4L 146cid Diesel 1984...1985 | Mark VII L6 2.4L 146cid Diesel 1984...1985 - Mercury: Lynx L4 2.0L 1989cc 122cid Diesel 1984...1987 | Topaz L4 2.0L 1989cc 122cid Diesel 1984...1986

EQUIVALENTE / Equivalent

Ford: SD323 | SD324 | E4FZ11350A | E4LY11350A | E4EF11350AA | E4LF11350AA - Lester: 3193 | 3194

0684

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Ford: 1000 2-77 Shibauro Diesel 1973...1978 | 1500 2cyl Shibauro Diesel 1979...1982 | 1600 2-77 Shibauro Diesel 1976...1979 | 1700 2-78 Shibauro Diesel 1979...1982  
Isuzu: C190M 1976...1991 | Misc. Industrial Equipment 2AB1 | Misc. Industrial Equipment 3AB1 | Misc. Industrial Equipment C-190 - New Holland: 1000 2-77 Shibauro Diesel 1973...1978 | 1500 2cyl Shibauro Diesel 1979...1982 | 1600 2-77 Shibauro Diesel 1976...1979 | 1700 2-78 Shibauro Diesel 1979...1982

MOTOR

Ishikawajima: 185086050 | 185086051 | 185086052 | 185086140 | 185086141 | 185086350 - Isuzu: 5811000571 | 5811000740 - New Holland: SBA185086050 | SBA185086051 | SBA185086052 | SBA185086141 | SBA185086350 - Nissan: 2330079601

EQUIVALENTE / Equivalent

Hitachi: 21309500 | 212015501 - Lester: 17087 | 17090 | 17299 | 17331 | 18064 | 18298

0686

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Bedford: MIDI | Rascal - Mitsubishi: Especial/Special

MOTOR

Nippondenso: 280008040 | 280009430 | 1280001290 | 1280001291 | 1280001761 | 1280001860 | 1280003640

EQUIVALENTE / Equivalent

Bedford: 91118533 - Nippondenso: 0283003880 - Suzuki: 3132078310

0687

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Nissan: Pathfinder 3.0 V6 gasolina | Terrano

MOTOR

Hitachi: S114516 | S114528 | S114503A | S114516A | S114528A

EQUIVALENTE / Equivalent

Hitachi: 211435551 - Lester: 16817 | 17196

0691

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Yanmar: Engine Marine 1GM10L 1 cil, 19.41ci, 0.318L Diesel | Engine Marine 1GM10VE 1 cil, 19.41ci, 0.318L Diesel | Engine Marine 1GMY 1 cil, 19.41ci, 0.318L Diesel | Engine Marine 2GMFL 2 cil Diesel | Engine Marine 2GMFY(E)-E 2 cil Diesel | Engine Marine 2GML 2 cil Diesel | Engine Marine 2GMYE-EC 2 cil Diesel | Engine Marine 3GMFY 3 cil Diesel | Engine Marine 3GML 3 cil Diesel | Tractor Engine YM1700 2TR17 1975...1990 | Tractor Engine YM2000 2TR20 1975...1990

MOTOR

Hitachi: 5114146 | 5114244 | 5114417

EQUIVALENTE / Equivalent

Hitachi: 211445002 - Lester: 16710 | 18216

0701

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Nissan: Sentra | Sunny | Tsuru



**0701**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

EQUIVALENTE / Equivalent

Bosch: 9001042189

**0702**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 195

APLICAÇÃO / Application / Aplicación

Volkswagen: Golf A2 1987...1992 | Jetta A2 Standard 1987...1992

EQUIVALENTE / Equivalent

Bosch: 9001042299

**0703**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

APLICAÇÃO / Application / Aplicación

Volkswagen: Combi Enfriada por Água 1987...2002

EQUIVALENTE / Equivalent

Bosch: 9001042263

**0706**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

APLICAÇÃO / Application / Aplicación

Alfa Romeo: Alfa 164TD | Alfa 33TD | Alfa 75TD | Alfa 90TD | Alfetta TD. | Giulietta TD. - Chrysler: Voyager 2.5 TD - Peugeot: 307 XND, XRD, XRDT | 405D 1.9 Diesel

MOTOR

Bosch: 0001218007 | 0001218023 | 0001218125 | 0001218126

EQUIVALENTE / Equivalent

Bosch: 9003336206 - Lucas Indiel: 223854

**0708**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

APLICAÇÃO / Application / Aplicación

Honda: Motor de Popa - Johnson Evinrude: Motor de Popa

EQUIVALENTE / Equivalent

Cargo: CG231767 - Honda: 312062F5L31 - Johnson Electric: 5712820DV30SM - Utms: 5712820

**0709**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

APLICAÇÃO / Application / Aplicación

Mercedes Benz: 170 SD y 180 SD Arr. Bosch Caz. Grande - Yanmar Engine Marine: Rastrojero com Motor D4M

EQUIVALENTE / Equivalent

Lucas Indiel: 221491

**0711**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

APLICAÇÃO / Application / Aplicación

Nissan: 100NX 2.0GTI | Almera 2.0 Gti | Primera 2.0 | Sunny 2.0 - Subaru: Especial/Special

MOTOR

Mitsubishi: M1T72981 | M1T72985 | M1T74781 | M1T74785 | M1T78881

EQUIVALENTE / Equivalent

Hitachi: 2335453J11 - Lester: 17180 | 17246 - Mitsubishi: M191T12571 - Nissan: 2335453J11

**0712**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

APLICAÇÃO / Application / Aplicación

Ford: Maverick 2400 1993...1996 - Infiniti: QX4 V6 3.3L 3275cc 1997...2000 - Nissan: Frontier L4 2.4L 2389cc 1998...2001 | Frontier L4 2.4L 2389cc 146cid 2001 | Pathfinder V6 3.3L 3275cc 1996...2000 | Pick Up D21 2400 1992...1998 | Pick Up L4 2.4L 2389cc 1996...1997 | Terrano II 2.4L 1993...1996 | XTerra L4 2.4L 2389cc 2000...2001

0712

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

## MOTOR

Mitsubishi: M1T60281 | M000T60181 - Nissan: 233000W010 | 233000W011 | 233001S770 | 233001S771 | 233001S772 | 233004S100 | 233004S102 | 2330080G10 | 2330086G10 | 2330086G11 | 233001S772R | 233004S102R | 23300F4U010

## EQUIVALENTE / Equivalent

Lester: 17425 | 17683 | 17685 - Mitsubishi: M191T13471

0713

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

## APLICAÇÃO / Application / Aplicación

Fiat: 1100T | 125 | 1300 | 1500 | 1800 | 2300 | Coupe | Familiar | Multicarga - Seat: 1500

## MOTOR

Femsa: MTD121 | MTD12H5 - Fiat: 4064058

## EQUIVALENTE / Equivalent

Bosch: 9001336205 - Femsa: 1066122 - Fiat: 4063663 - Lucas Indiel: 221832

0714

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

## APLICAÇÃO / Application / Aplicación

Dodge: Dodge 1500 1.8 | Pick Up Durango 4x4 - Volkswagen: 1500 1.8

## EQUIVALENTE / Equivalent

Bosch: 1987BE0048 - Garef: 6624100 - Lucas Indiel: 221905

0720

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

## APLICAÇÃO / Application / Aplicación

Rastrojero: IME reforma AN 115

## EQUIVALENTE / Equivalent

Lucas Indiel: 223290

0721

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

## APLICAÇÃO / Application / Aplicación

Bobcat: Trator 853 série 12816390 1994 - Clark: Especial/Special - Detroit: Estacionários - Fiat Allis: Grader PG140 e PG160 Ford 7.5L GMA

## MOTOR

Remy: 10479605 | 10479608 | 10479612

## EQUIVALENTE / Equivalent

Lester: 6594 | 6597 - Remy: 10457122

0722

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

## APLICAÇÃO / Application / Aplicación

Case: Grader 845 e 845.2 | Grader FG 140.2 | Pá Carregadeira W20 - Cummins: Especial/Special - Fiat Allis: Com embreagem banhada a óleo Cummins 6BT5.9 | FD 170 - cremalheira a banho de óleo - Komatsu: Escavadeira PC200 Cummins 4B3.9 | Escavadeira PC200 Cummins 4BT3.9 | Escavadeira PC200 Cummins 6B5.9 | Escavadeira PC200 Cummins 6BT5.9 | Escavadeira PC200 Cummins 6BTAA Mack - TCM Equipment Ag: Série 28MT 12/12V - Timberjack: 608, 608 Harvester - Ciber Vibrador

## MOTOR

Remy: 1113272 | 1113277 | 1113291 | 10479611 | 10479616 | 10479623 | 10479629 | 10479655

## EQUIVALENTE / Equivalent

Lester: 6574 | 6582 | 6592 | 6596 | 6598 - Remy: 10457121

0723

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

## APLICAÇÃO / Application / Aplicación

Lister: Petter

## MOTOR

Remy: 10479600

0723

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

EQUIVALENTE / Equivalent

Lester: 6591 - Remy: 10457141

0729

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

APLICAÇÃO / Application / Aplicación

Ford: Escort 1.6 e 2.0 | Escort Hobby | Escort XR3 | Verona - Volkswagen: Beetle 2.0 | Golf G3 2.0 Syncro | Golf G4 1.8 | Logus 1993... | Passat Alemão | Polo Classic

MOTOR

Bosch: 0001107003 | 0001107004 | 0001107022 | 0001107023 | 9000081001 | 9000081002

EQUIVALENTE / Equivalent

Bosch: 1006209579 | 1006209917 | 9001081010 | F000AL1704 - Cargo: 135086 - Lester: 17223 | 17416 - Lucas: TNB010 - Lucas Indiel: 223121

0731

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

APLICAÇÃO / Application / Aplicación

Renault: R12 | R4 | R6

EQUIVALENTE / Equivalent

Lucas Indiel: 221902 - Tria: 3902

0732

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

APLICAÇÃO / Application / Aplicación

Renault: Trafic

EQUIVALENTE / Equivalent

Lucas Indiel: 223291 - Tria: 4424

0737

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 196

APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Chevy Diesel - Isuzu: Especial/Special Diesel - Massey Ferguson: Especial/Special - Nissan: Frontier 4x4 2000 | Terrano - ZEN: Utiliza Pinhão ZEN 9488

MOTOR

Hitachi: S1362 | S1363 | S1370 | S1382 | S1383 | S13100 | S13115 | S13121 | S1362A | S1362B | S1362C | S1370A | S1382A | S114253 | S114254 | S114255 | S114258 | S114264 | S114265 | S114268 | S114290 | S114296 | S114344 | S114374 | S114429 | S114446 | S114449 | S114453 | S114454 | S114457 | S114458 | S114480 | S114253A | S114253B | S114254A | S114254C | S114254D | S114255A | S114258A | S114258B | S114258C | S114264A | S114268A | S1142900 | S114290A | S114290B | S114296A | S114374B | S114401B | S114403B | S114429A | S114481A | S114374B | S1142584C - Isuzu: 891171630 | 891364001 | 891364480 | 892363470 | 8941155650 | 8941155670 | 8941156670 | 8941171630 | 8941333380 | 8941364480 | 8942168781 | 8942168783 | 8942363470 | 8942363471 | 8942387580 | 8942387581  
Nissan: 233005301 | 2330006W61 | 2330017C60 | 2330018C60 | 2330021P00 | 2330022P00 | 23300H5902 | 23300H9100 | 23300H9101 | 23300N5900 | 23300N5902 | 23300N5903 | 23300R2000 | 23300U7500 | 23300U7501 | 23300U7502 | 23300V5300 | 23300V5301 | 23300V5302 | 23300W1000 | 23300W1002 | 23300W7000 | 23300W7001 | 23300Y7000 | 23300Y7001

EQUIVALENTE / Equivalent

Hitachi: 211435006 | 211455506 | 211475008 | 211485008 | 211495008 - Isuzu: 8941155680 | 8942363471 - Lester: 16584 | 16611 | 16811 | 16986 | 16997 | 18312  
Nissan: 23312H9100 | 23312M4901 | 23312N5900 | 23312N5903 | 23312V5301 | 23312V5302

0740

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

APLICAÇÃO / Application / Aplicación

Fiat: Duna SD | Regatta 2000 | Spazio D | Uno D

EQUIVALENTE / Equivalent

Lucas Indiel: 227796 | 228135 | 35257798 | 35258135

0741

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

APLICAÇÃO / Application / Aplicación

Ford: Escort - Peugeot: 504 e 505 Motor 2000

EQUIVALENTE / Equivalent

Bosch: 1987BE0049 - Lucas Indiel: 227951 | 228137 | 35257952 | 35258137

0742

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Ford: Sierra 1.6 - Volkswagen: Gol Argentino

## EQUIVALENTE / Equivalent

Lucas Indiel: 227799 | 228136 | 35257802 | 35258136

0743

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Fiat: 128 Super Europa | 147 | 147 Brio, SPR, SPT | Duna 1.3 e 1.5. | Fiorino 1.4 e 1.6. | Regatta 85SC | Spazio | Tipo 1.4 e 1.6 | Uno 1.4 e 1.6 | Vivace

## EQUIVALENTE / Equivalent

Lucas Indiel: 227965 | 228138 | 35257963 | 35258138

0744

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Fiat: 600

## MOTOR

Fiat: 870374

## EQUIVALENTE / Equivalent

Bosch: 1987BE0050 - Fiat: 4044451 - Lucas Indiel: 221831

0745

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Audi: A4 1.6i, 1.8i - General Motors/Chevrolet: Astra 1.8i | Astra 2.0i 16v | Astra 2.0 MPFI | Astra Sedan 1.8i | Astra Sedan 2.0i | Astra Sedan 2.0i 16v | Blazer 2.2 EFI | Ipanema 2.0 MPFI | Kadett 2.0 MPFI | Omega 2.0i | Omega 2.2i | Omega 3.0i | S10 2.2 Gasolina | Suprema 2.0, 2.0i, 3.0i. | Vectra 2.0 16v | Vectra GLS 2.0 | Vectra GSI 2.0i 16v | Zafira 2.0 MPFI | Zafira 2.0 SFI 16v - Peugeot: 306 1.8i, 1.8i 16V 09/1995... | 405 1.8i 09/1995... - Renault: Espace 2.0 16V 10/1998... | Megane 2.0 16V 03/1999... | Scenic RX4 2.0 06/1999... - Seat: Cordoba 1.0 | Cordoba 1.4 | Cordoba 1.4 16V | Cordoba 1.6 | Ibiza 16V - Volkswagen: Gol GTI 16V

## MOTOR

Bosch: 0001106012 | 0001106017 | 0001106022 | 0001106023 | 0001106024 | 0001107009 | 0001107012 | 0001107013 | 0001107015 | 0001107017 | 0001107018 | 0001107019 | 0001107025 | 0001107026 | 0001107034 | 0001107044 | 0001107045 | 0001107056 | 0001107070 | 9000081004 | F000AL0103 | F005M00024

## EQUIVALENTE / Equivalent

Bosch: 900118103 | 1006209584 | 1006209600 | 1006209686 | 1006209993 | 9001081033 | 9001084038 | F000AL1691 | F000AL1878 - General Motors/Chevrolet: 90421771 - Lucas: TMB584 - Lucas Indiel: 223122

0747

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Corsa 1.0 e 1.4 - Renault: Clio 1.2 e 1.4 | Laguna 1.8 e 2.0 | Megane | R19

## MOTOR

Valeo: D6RA6 | D6RA32 | D6RA33 | D6RA39 | D6RA48 | D6RA59 | D6RA61

## EQUIVALENTE / Equivalent

Lucas: TDB441 - Lucas Indiel: 221294 - Paris Rhone: 186020 - Valeo: NE830 | 185441 | 594108

0748

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Agrale: Caminhão 7000DX-TDX- 8000MA série 7.5T - Case: Trator W20 Cummins 6BT590 - Ford: Cargo 1618 | F12000 MWM | F14000 MWM | F4000 MWM - MWM: Motor 410T, 610T - Puma: 7000 série 79000 MWM 4.10T 03/1996... - Volkswagen: Caminhão MWM X10 | Ônibus | Volks Bus MWM

## MOTOR

Bosch: 9000083077

## EQUIVALENTE / Equivalent

Bosch: 9001083674 | 9002453078 | 9002453079 - Lucas: TNB674 - Lucas Indiel: 223293

0749

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

BRP: Sea Doo 947 - Kawasaki: 1100 - STX, ZXI E Ultra 150 | 650 - SC, X2 | 750 - SS, ST, STS, STX, SX, SXI, TS, XI, ZXI | 900 - STX, ZXI - Polaris: 1050 - SLTH, SLTX | 650 - SL, STD | 700 - Hurricane, SL, SLH, SLT, SLTX | 780 - SL, SLT, SLX | 900 - SL - Yamaha: 1100 - Wave Raider, Venture | 1200 / 1200R - GP, XL Wave Runner | 650 - I, II, LX, Super Jet, VXR, VXRPRO, XR | 700/701 Wave Blaster, FX1 Raider, Runner, Super Jet, Venture, VXR | 760 - Wave Blaster II, GP, Raider, Runner

## EQUIVALENTE / Equivalent

Kawasaki: 131013701 | 131013703 | 131013705 | 131013706 - Lester: 18330 | 18648 - Polaris: 3240120 | 4060119 - Yamaha: 6M68183E0000

0750

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Chrysler: Daytona 3.0 | Saragata 3.0 3.0 | Voyager 3.3 V6 1990...1993 - ZEN: Utiliza Pinhão ZEN 9307

## MOTOR

Nippondenso: 1280007500 | 1280009380

## EQUIVALENTE / Equivalent

Cargo: 137950 - Isuzu: 8943677720 - Lester: 17020 | 17197 | 17216 - Nippondenso: 283006860

0751

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Kawasaki: ATV 300 4x4 | Magnum 2x4 1994... | Magnum 4x4 1994... | Sportsman 4x4 - Polaris: 400L 2x4 | 400L Big Boss 6x6 | ATV 300 4x4 | Jet Ski | Magnum 4x4 1994... | Sportman 4x4 | Trail Boss 250, Xplorer 4x4 Todos exceto 325cc | Xplorer 4x4

## EQUIVALENTE / Equivalent

Mitsuba: SM13 - Polaris: 3084981

0752

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Daewoo: Lanos 1.3 - 1.5 | Le Mans 1.5 - 1.6 | Nexia 1.5 - 1.6 | Racer - General Motors/Chevrolet: Saturno 91 - Opel: Astra 1.6 | Corsa 1.6 | Vectra 1.6

## MOTOR

Remy: 9000751 | 9000756 | 9000758 | 21020892 | 21020893 | 21021366 | 21021648

## EQUIVALENTE / Equivalent

Bosch: 1987BE0051 - Cargo: 136342 | 233950 - Lester: 6401 | 6432 | 6433 - Lucas Indiel: 223333 - Remy: 10472809 | 10497257

0753

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Ford: Escort Audi - Volkswagen: Apollo | Logus

## EQUIVALENTE / Equivalent

Lucas Indiel: 228229 | 35258229

0754

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Yamaha: LX500

## MOTOR

Yamaha: 6k8818071000

0756

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: 159 2.2 JTS | Brera 2.2 JTS | Spider 2.2 JTS - Cadillac: Escalade 5.7 - Fiat: Croma 2.2 16V - General Motors/Chevrolet: Blazer 4.3 V6 1996 | Cavalier 2.4 | Malibu 2.4 | S10 4.3 V6 | Safari XT 4.3 V6 | Silverado 6.0 - 8.1 | Suburban 5.7 - 7.4 - 8.1 - Hyster: H80 XM - Opel: Astra G 2.2 16V | Signum 2.0 Turbo - 2.2 | Speedster 2.2 | Vectra 2.2 16V | Vectra C 2.2 16V - 2.2 16V GTS | Zafira A 2.2 16V | Zafira A 2.2 16V - Pontiac: Grand AM 2.4 | Grand AM 2.4 | Sunfire 2.4 | Sunfire 2.4 Audi - Saab: 42803 1.8 - 2.0 Turbo | 9-3 1.8 Turbo - 2.0 Turbo

## MOTOR

Fiat: 55350543 | 55352105 - Remy: 8000321 | 9000786 | 9000796 | 9000798 | 9000804 | 9000806 | 9000819 | 9000820 | 9000821 | 9000822 | 9000834 | 9000835 | 9000850 | 9000851 | 9000853 | 9000860 | 9000965 | 10465167 | 10465293 | 10465309 | 10465386 | 10465554

0756

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

EQUIVALENTE / Equivalent

Bosch: 1987BE0052 - Cargo: 138216 - Lester: 6449 | 6470 | 6472 | 6480 | 6482 | 6560 | 6561 | 6562 | 6563 - Remy: 10465293 | 10475616

0758

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 197

APLICAÇÃO / Application / Aplicación

Nissan: Empilhadeira | Forklift

MOTOR

Mitsubishi: M1T60381 - Nissan: 23300k9160

EQUIVALENTE / Equivalent

Lester: 17437 - Mitsubishi: M191T13571

0760

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

APLICAÇÃO / Application / Aplicación

Kawasaki: F2100 | F2103 | F2105 | F2300 | F2303 | F2305 | SB2500DH

MOTOR

Bosch: 0001364203 | 0001364206

EQUIVALENTE / Equivalent

Bosch: 2006209537

0762

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

APLICAÇÃO / Application / Aplicación

Ford: Escort Audi 827 c/ MQ | Verona

EQUIVALENTE / Equivalent

Lucas Indiel: 228368 | 228384 | 35258384

0764

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

APLICAÇÃO / Application / Aplicación

KHD: 715 F2 L 1011 | 716 F3 L 1011 | 717 F4 L 1011 | 721 BF4 L 1011

MOTOR

Bosch: 0001362700 | 0001362701 | 0001362702

EQUIVALENTE / Equivalent

Bosch: 2006209465 | F000AL1879 - Lester: 17318

0765

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

APLICAÇÃO / Application / Aplicación

Bedford: MIDI - Innocenti: MINI 3 Cil

EQUIVALENTE / Equivalent

Lester: 17152 | 17565 - Nippondenso: 283004320

0767

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

APLICAÇÃO / Application / Aplicación

Hummer: H1

EQUIVALENTE / Equivalent

Lester: 6609 - Prestolite: DRA3002D

0768

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

APLICAÇÃO / Application / Aplicación

Fiat: 500DT | 500F | 500L | 500R

0768

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## MOTOR

Fiat: 4117351 | 4117464 - Magneti Marelli: 63220107 | 63220108 | 63220137

## EQUIVALENTE / Equivalent

Fiat: 4120550

0769

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## APLICAÇÃO / Application / Aplicación

Fiat: 133 | 133L | 600

## MOTOR

Fiat: 7533231

## EQUIVALENTE / Equivalent

Fiat: 9939837 - Lucas Indiel: 222501

0770

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## APLICAÇÃO / Application / Aplicación

Daewoo: Cielo | Espero GM 2000 | Espero CD 2000 | Racer - General Motors/Chevrolet: Astra 1.8 | Blazer V6 | Lanos | Nubira | S10 | Vectra CD | Zafira - Opel: Vectra CD 2000

## MOTOR

Remy: 9000794 | 9000846

## EQUIVALENTE / Equivalent

Bosch: 1987BE0021 - Lester: 6445 | 6481 - Lucas: TDB974 - Lucas Indiel: 223294 - Remy: 10451980 | 10475974

0771

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## APLICAÇÃO / Application / Aplicación

Peugeot: 504 XD2 Diesel 1995... - Renault: Pick Up Rodeo 4 cil 2.1 Diesel | R18 4 cil 2.1 Diesel | Trafic 352 4 cil 2.1 Diesel | Trafic T312 4 cil 2.1 Diesel | Trafic TA12 4 cil 2.1 Diesel | Trafic TA52 4 cil 2.1 Diesel

## MOTOR

Lucas Indiel: 35257880

## EQUIVALENTE / Equivalent

Lucas Indiel: 227911 | 35257911

0772

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## APLICAÇÃO / Application / Aplicación

Ford: Pick Up F100 MWM | Pick Up F1000 MWM | Pick Up F150 MWM | Pick Up F4000 MWM - MWM: Motor 4 cil

## MOTOR

Lucas Indiel: 35258240

## EQUIVALENTE / Equivalent

Lucas Indiel: 228266 | 35258266

0773

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## APLICAÇÃO / Application / Aplicación

Sea Doo: 110 1995 | 580 1995 | 650 1995 | 720 1995 | GSX Bombardier | GTI Bombardier | GTS Bombardier | GTX Bombardier | HX Bombardier | SP Bombardier | SP1 | Todos os modelos exceto 951 | XP

## MOTOR

Nippondenso: 1280004860 | 1280004861 | 1280004880 - ZEN: 12716

## EQUIVALENTE / Equivalent

Lester: 17605 | 18416 - Nippondenso: 0283006000 | 0283007710 | 0283007711 - Sea Doo: 295500089

0774

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## APLICAÇÃO / Application / Aplicación

Cadillac: DeVille V8 4.6L 281cid Gasolina 1995...2000 | Eldorado V8 4.6L 281cid Gasolina 1995...2000 | Seville V8 4.6L 281cid 1995...2000 | Seville V8 4.6L 281cid Gasolina 1995...2000 - General Motors/Chevrolet: 6500 Kodiak GM 7.0L(427) V8 Gasolina 1996 | B7 V8 7.0L 7011cc 427cid 1995...1998 | C4500 Kodiak V8 8.1L 496cid 2003...2006 | C5500 Kodiak V8 8.1L 496cid 2003...2006 | C5500 Kodiak GM 6.0L(366) V8 Gasolina 1996...1998 | C5500 Kodiak GM 7.0L(427) V8 Gasolina 1996...1998 | C5500 Kodiak GM 7.4L(454) V8 Gasolina 1999...2000 | C5500 Kodiak GM 8.1L(496) V8 Gasolina 2001...2002 | C60 GM 6.0L(366) V8 Gasolina 1996...1998 | C60 GM 7.0L(427) V8 Gasolina 1996...1998 | C60 GM 7.4L(454) V8 Gasolina 1999...2000 | C60 GM 8.1L(496) V8 Gasolina 2001...2002 | C60 Kodiak V8 6.0L 366cid 1996 | C60 Kodiak V8 7.0L 7011cc 427cid 1996 | C6500 Kodiak V8 6.0L 366cid 1997...1998 | C6500 Kodiak V8 7.0L 7011cc 427cid 1997...1998 | C6500 Kodiak V8 7.4L 454cid 1999...2000 | C6500 Kodiak V8 8.1L 496cid 2001...2006 | C70 GM 6.0L(366) V8 Gasolina 1996...1998 | C70 GM 7.0L(427) V8 Gasolina 1996...1998 | C70 GM 7.4L(454) V8 Gasolina 1999...2000 | C70 GM 8.1L(496) V8 Gasolina 2001...2002 | C70 Kodiak V8 6.0L 366cid 1996 | C70 Kodiak V8 7.0L 7011cc 427cid 1996 | C7500 Kodiak 8 Cil 7.0L 7011cc 427cid 1996 | C7500 Kodiak V8 6.0L 366cid GM 6.0L(366) V8 Gasolina 1997...1998 | C7500 Kodiak V8 7.0L 7011cc 427cid 1997...1998 | C7500 Kodiak V8 7.4L 454cid 1999...2000 | C7500 Kodiak V8 8.1L 496cid 2001...2006 | C7500 Kodiak GM 6.0L(366) V8 Gasolina 1996 | C7C7500 Kodiak V8 6.0L 366cid 1997...1998 | C80 GM 6.0L(366) V8 Gasolina 1996...1998 | C80 GM 7.0L(427) V8 Gasolina 1996...1998 | C80 GM 7.4L(454) V8 Gasolina 1999...2000 | C80 GM 8.1L(496) V8 Gasolina 2001...2002 | Kodiak C8500 GM 6.0L(366) V8 Gasolina 1996...1998 | Kodiak C8500 GM 7.0L(427) V8 Gasolina 1996...1998 | Kodiak C8500 GM 7.4L(454) V8 Gasolina 1999...2000 | Kodiak C8500 GM 8.1L(496) V8 Gasolina 2001...2006 | T5500 GM 6.0L(366) V8 Gasolina 1996...1998 | T6500 V8 6.0L 366cid 1997...1998 | T7500 V8 6.0L 366cid 1997...1998 - GMC: B7 V8 6.0L 366cid 1995...1998 | B7 V8 7.0L 7011cc 427cid 1995...1998 | C4500 Topkick V8 8.1L 496cid 2003...2006 | C5500 Topkick 8 Cil 8.1L 496cid GM 8.1L(496) V8 Gasolina 2002 | C5500 Topkick V8 8.1L 496cid 2003...2006 | C5500 Topkick GM 7.0L(427) V8 Gasolina 1996...1998 | C5500 Topkick GM 7.4L(454) V8 Gasolina 1999...2000 | C5500 Topkick GM 8.1L(496) V8 Gasolina 2001 | C5C5500 Topkick GM 6.0L(366) V8 Gasolina 1996...1998 | C6000 GM 6.0L(366) V8 Gasolina 1996...1998 | C6000 GM 7.0L(427) V8 Gasolina 1996...1998 | C6000 GM 7.4L(454) V8 Gasolina 1999...2000 | C6000 GM 8.1L(496) V8 Gasolina 2001...2002 | C6000 Topkick V8 7.0L 7011cc 427cid 1996 | C6500 Topkick V8 7.0L 7011cc 427cid 1997...1998 | C6500 Topkick V8 8.1L 496cid 2001...2006 | C6500 Topkick GM 7.0L(427) V8 Gasolina 1996 | C7000 GM 7.0L(427) V8 Gasolina 1996...1998 | C7000 GM 8.1L(496) V8 Gasolina 2001...2002 | C7000 Topkick V8 7.0L 7011cc 427cid 1996 | C7500 Topkick V8 6.0L 366cid 1997...1998 | C7500 Topkick V8 7.0L 7011cc 427cid 1997...1998 | C7500 Topkick V8 7.4L 454cid 1999...2000 | C7500 Topkick V8 8.1L 496cid 2001...2006 | C7500 Topkick GM 6.0L(366) V8 Gasolina 1996 | C80 GM 6.0L(366) V8 Gasolina 1996...1998 | C80 GM 7.0L(427) V8 Gasolina 1996...1998 | C80 GM 7.4L(454) V8 Gasolina 1999...2000 | C80 GM 8.1L(496) V8 Gasolina 2001...2002 | T5500 GM 6.0L(366) V8 Gasolina 1996...1998 | T6500 V8 6.0L 366cid 1997...1998 | T7500 V8 6.0L 366cid 1997...1998 | Topkick C8500 GM 6.0L(366) V8 Gasolina 1996...1998 | Topkick C8500 GM 7.0L(427) V8 Gasolina 1996...1998 | Topkick C8500 GM 7.4L(454) V8 Gasolina 1999...2000 | Topkick C8500 GM 8.1L(496) V8 Gasolina 2001...2006 - Oldsmobile: Aurora V8 4.0L 244cid 1995...1999

## MOTOR

Remy: 323489 | CM9805 | 9000805 | 9000812 | 10465294

## EQUIVALENTE / Equivalent

Lester: 6452 | 6471 - Remy: 10476642

0775

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## APLICAÇÃO / Application / Aplicación

Citroën: Ax | AX 1.4 diesel | AX Sport | BX14 | BX16 | MOT | XM 2.0i | XU10 - Peugeot: 205 | 205GTI | 305 | 307 | 405 | 605 | Rallye - Renault: Ônibus

## MOTOR

Valeo: D6RA5 | D6RA6 | D6RA12 | D6RA16 | D6RA18 | D6RA20 | D6RA23 | D6RA26 | D6RA37 | D6RA38 | D6RA41 | D6RA45 | D6RA51 | D6RA57 | D6RA66 | D6RA72

## EQUIVALENTE / Equivalent

Citroën: 96017849 - Lucas: TMB281 - Lucas Indiel: 223900 - Paris Rhone: 182412 | 184448 | 594029 | 594031 - Valeo: NE778 | NE784 | 184448 | 594029 | 594031

0776

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## APLICAÇÃO / Application / Aplicación

Caterpillar: Carregadeira 916 1986...1992 | Carregadeira 926 1984...1987 | Carregadeira 926E 1987...1993 | Duty 3204 Motor Médio 1985...1993 | Escavadeira 943 3204 1985...1992 | Escavadeira 215B 1985...1992 | Escavadeira 953 3204 1985...1992 | Transportador de Ferramentas IT18B 3204 1986...1992 | Transportador de Ferramentas IT28B 3204 1986...1993 | Trator Esteira D4H 3204 1985...1996

## MOTOR

Bosch: 2006202000 | 2006209000 - Cargo: 131766 | 232632

## EQUIVALENTE / Equivalent

Lester: 3048 | 3055 | 3064 | 3809 | 3884 | 3885 | 3894 | 3895 | 3931 | 18020 | 18021 | 18928 | 30011 | 30019 | 32949

0778

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## APLICAÇÃO / Application / Aplicación

Fiat: Escavadeira FH400 8215 Hitachi 13.8L Diesel - Fiat Allis: Carregadeira FL-14D 8205 Diesel Diesel 1985...1986 | Carregadeira FL-20 8215 Diesel Diesel 1979...1995 | Carregadeira FR-20 8215 Diesel Diesel 1987...1991 | Carregadeira FR-20B 8215 Diesel Diesel 1986...1995 | Escavadora FH-400 8215 Diesel Diesel 1990...1993 | Escavadora FE-45 8215 Diesel Diesel 1988...1993 | Trator 14CL 8205 Diesel 1986...1989 | Trator 14C 8205 Diesel 1986...1989 | Trator FA-200 8215 Diesel Diesel 1984...1990 | Trator FD-14 8205 Diesel 1984...1989 | Trator FD-20 8215 Diesel 1981...1995



0779

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 198

## APLICAÇÃO / Application / Aplicación

Fiat: Fiorino | Palio 1.0 | Palio Weekend 1.5 | Siena | Strada | Tipo 1.6 | Uno

## MOTOR

Fiat: 7772459 | 7772462 | 7785949 | 7796598 | 46417006 | 46429594 | 46465475 - Magneti Marelli: 7733966 | 7772459 | 7772462 | 7785949 | 46414994 | 46415504 | 46417006 | 46429594 | 46465475 | 63101000 | 63101002 | 63102003 | 63102004 | 63102007 | 63102008 | 63103002 | 63103003 | 63201008 | 63222889 | 63222900 | 63222901 | 63222905 | 63222908 | 63222909 | 63222936 | 63223035 | 63223085 | 63223101 | 63223108 | 63223109 | 63223200 | 63223303 | 631101002

## EQUIVALENTE / Equivalent

Bosch: 1987BE0124 - Fiat: 9945556 - Lucas: TMB009 - Lucas Indiel: 223307

0781

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Farymann: Marine 36A 0.6L Diesel | Marine 36E 0.6L Diesel | Marine 41A 0.7L Diesel | Marine 41E 0.7L Diesel

## MOTOR

Bosch: 0001317024

## EQUIVALENTE / Equivalent

Bosch: 1006209555 - Lester: 18255

0783

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Buick: Century 4 cil 2.2L | Regal V6 3.1 - General Motors/Chevrolet: Cavalier 4 cil 1996 | Lumina V6 3.1 lts e 4.0 lts | Minivan 3.4 lts | Monte Carlo V6 3.1 lts | MPV V6 3.4 lts - Hyster: Empilhadeira H55XM GM 2.2 - Jeep: Cherokee

## MOTOR

Remy: 2058 | 1358859 | 10455069 | 10455081

## EQUIVALENTE / Equivalent

Lester: 6473 | 6474 | 6483 - Remy: 10487536

0784

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Case: Colheitadeira

## MOTOR

Bosch: 0001367061

## EQUIVALENTE / Equivalent

Bosch: 2006209434 - Lester: 17308 - Lucas Indiel: 223908

0785

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Isuzu: Engines Industrial Misc. Equipment 3AE1 - Yanmar: Engine Marine 3HM 3 cil Diesel 1980...1984 | Engine Marine 3HM35 3 cil Diesel 1982...1992 | Engine Marine 3HMF 3 cil Diesel 1980...1984 | Engine Marine 4JH 4 cil Diesel 1982...1990 | Engine Marine 4JH-DTE 4 cil Diesel 1982...1990 | Engine Marine 4JH-HT 4 cil Diesel 1982...1990 | Engine Marine 4JH-HT-Z 4 cil Diesel 1982...1990 | Engine Marine 4JH-T 4 cil Diesel 1982...1990 | Engine Marine 4JH-TE 4 cil Diesel 1982...1990 | Engine Marine 4JH-TZ 4 cil Diesel 1982...1990 | Engine Marine 4JHE 4 cil Diesel 1982...1990 | Engine Marine 4JHZ 4 cil Diesel 1982...1990 | Engine Marine KBW-20 0000 | Engine Marine KBW-21 0000 | Engines Industrial 3D84-1C 1983...2004 | Engines Industrial 3T90L 1976...1982 | Tractor YM2210 2T90 Engine 1982...1990 | Tractor YM2610 3T80D Engine 1982...1990 | Tractor YM3000 3T84 Engine 1982...1990

## MOTOR

Hitachi: 51279 | 51337 | 51341 | 51277A | 51341A

## EQUIVALENTE / Equivalent

Hitachi: 213065002 - Lester: 18204 | 18208 | 18295

0786

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Fiat: 500 (Cinquecento) 704, 903 | Palio 1.5 | Panda Fire 750 1.0 | Strada | Tempra | Tipo 1.1, 1.4, 1.6, 2.0 | Uno Fire 45 - Kia: Besta 1000cc - Lancia: Dedra I.E 1.6

Renault: R12 | Trafic Gasolina 1995 - Seat: Ibiza | Malaga | Ronda

0786

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## MOTOR

Magnetit Marelli: 63221800 | 63221830 | 63221832 | 63221834 | 63221890 | 63221892 | 63222831 | 63222832 | 63222833 | 63222836 | 63222837 | 63222838 | 63222897 | 63223001 | 63223031 | 63223032 | 63223033 | 63223034

## EQUIVALENTE / Equivalent

Bosch: 1987BE0053 - Fiat: 9939915 | 9940577 | 9941300 | 9941306 - Lucas: TMM901 - Lucas Indiel: 223124

0787

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Citroën: Saxo 1.0 / 1.4 | Xantia 1.6 / 1.8i / 2.0i 16V | XM 2.0i | Xsara 1.8 / 2.0 16V | ZX 1.0 / 1.4 / 1.6 / 1.8 / 2.0 16V - JPY: Jeep XUD9A - Peugeot: 106 1.0 | 205 | 206 | 306 1.6 / 1.8 / 2.0 / 2.0 16V | 405 1.6 / 1.8 / 1.9 / 2.0 | 406 1.6 / 1.8 / 2.0 16V - Renault: Espace | Laguna 16V | Master | Safrane V6 | Trafic Gasolina - Volvo: S40

## MOTOR

Valeo: D6RA53 | D6RA63 | D6RA141 | D6RA511 | D6RA571 | D6RA572 | D6RA661 | D6RA721

## EQUIVALENTE / Equivalent

Lester: 17667 - Lucas Indiel: 221293 - Valeo: NE875 | 186867 | 186938 | 187960 | 188887 | 594214

0790

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Nissan: CD 17 | CD 20 | Cherry | Forklift | Patrol 3.3 D | Stanza | Sunny 1.7 D | Vanette D - ZEN: Utiliza Pinhão ZEN 9527

## MOTOR

Hitachi: S1347 | S1350 | S1356 | S1365 | S1369 | S1381 | S13102 | S13104 | S1347A | S1350A | S1356A | S1366A | S114357 | S13105A | S13666A | S114357A | S114357B | S114357C | S114395A | S114935A | S1143557A - Nissan: 23300 | 233000 | 2330000 | 233000500 | 233000703 | 23300V700 | 2330006W61 | 2330010G02 | 2330011M00 | 2330011M02 | 2330011M00 | 2330011N00 | 2330038W00 | 2330054A01 | 2330083W00 | 23300V0700 | 23300V0702 | 23300V0703 | 23300V0705 | 23300V0706 | 23300V7260 | 23300V0703 | 23300W2500 | 23300W2804 | 23300054A01 | 23300100G02 | 23300V07702 - Porsche: S1350 | S1369 | S1347A | 2330000 | 23300W2804

## EQUIVALENTE / Equivalent

Cargo: 135091 - Hitachi: 21301502 | 211415507 | 211485501 | 213065001 | 213075004 - Lester: 16733 | 16809 | 18053 | 18054 | 18061 - Nissan: 2354V0700 | 2331210G00 | 2331211M00 | 23354V0700 - Porsche: 21301502 | 213065001 | 213075004 | 2331211M00 | 23354V0700

0791

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Nissan: 200SX L4 | 310 | Stanza - ZEN: Utiliza Pinhão ZEN 9528

## MOTOR

Hitachi: S114252 | S114322 | S114393 | S114252A | S114252C | S114252E | S114252F | S114322A | S114403B - Nissan: 2330000 | 23300000 | 2330005P01 | 23300D0300 | 23300D0301 | 23300M4900 | 23300M4901 | 23300M4903 | 23300M4904

## EQUIVALENTE / Equivalent

Hitachi: 211435507 - Lester: 16694 | 16803 | 16982 - Nissan: 23312M4902

0792

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Carrier: Isuzu C201 - Thermo King: CG-II M12 Isuzu 2.0L (TK C201) Diesel 1990...2004 | CG-II M20 Isuzu 2.0L (TK C201) Diesel 1990...2004 | CG-II M22 Isuzu 2.0L (TK C201) Diesel 1990...2004 | CG-II M30 Isuzu 2.0L (TK C201) Diesel 1990...2004 | NWD | SB-II Isuzu 2.0L (TK C201) Diesel | SB-II 30 di / TC | SB-II 30 MAX | SB-III | SB-III Isuzu 2.0L (TK C201) Diesel 1980...1989 | SB-III MAX | SB-III SR | Sentry Isuzu 2.0L (TK C201) Diesel | Sentry SD1200 Isuzu C201 | Sentry 30 di / TC | SNWD | Super II Isuzu 2.0L (TK C201) Diesel | Super II 30 / MAX Isuzu 2.0L (TK C201) Diesel | Super NWD - ZEN: Utiliza pinhão ZEN 9526

## MOTOR

Carrier Transicold: 20451285 | 20451993 - Cummins: 3675148RX | 3675149RX - Isuzu: 5811001980 | 5811001981 | 5811001982 | 8941475492 | 8941492490 | 8944299770 | 8944299780 | 8971185420 | 8971463383 | 8972105050 - Thermo King: 451229 | 451263 | 451285 | 451671 | 451993 | 8451263 | 8451285 | 10451285 | 10451671 | 10451993 | 41044000

## EQUIVALENTE / Equivalent

Cargo: 133605 - Hitachi: 213035009 | 213075002 | 213075003 | 213085003 - Lester: 17088 | 18067 - Thermo King: 446676 | 446681

0793

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Nissan: E16 | NX 1600 | NX 2000 | Pulsar 1.6 | Sentra 1.6

## MOTOR

Hitachi: 51389 | 51384B | 5114440 | 5114486 | 5114475A - Nissan: 2330036A00

## EQUIVALENTE / Equivalent

Lester: 16816 | 17178 - Nissan: 2331236A00

0794

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Ford: F1000 4.9l. Gasolina

## MOTOR

Bosch: 0001110033

## EQUIVALENTE / Equivalent

Bosch: 1006209551

0796

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 180D Furgão / Pick Up | Sprinter

## MOTOR

Bosch: 9000331419

## EQUIVALENTE / Equivalent

Bosch: 9002336208 | 9003336208 - Lucas: TMB208 - Lucas Indiel: 223295

0797

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Seat: Especial/Special - Volkswagen: Polo

## MOTOR

Bosch: 0001109001 | 0001109002 | 0001109006

## EQUIVALENTE / Equivalent

Bosch: 1006209580 - Lucas Indiel: 223918

0798

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Ford: Escort Audi - Porsche: 924 | 944

## MOTOR

Bosch: 0001108021 | 0001108147

## EQUIVALENTE / Equivalent

Bosch: 1006209535 - Cargo: 136723 - Lester: 17023 - Lucas Indiel: 223919

0799

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Fiat: Tipo 1.8 i.e. | Tipo 2.0 i.e. | Tipo 2.0 i.e. 16V - Seat: Cordoba 1.6 | Cordoba 1.8 | Cordoba 1.8 16V | Cordoba 2.0 - Volkswagen: Golf 1.8 | Golf G2 1.8 | Golf G3 1.8 | Golf GTI 2.0 | Passat Alemão

## MOTOR

Bosch: 0001107007 | 0001107008 | 0001107020 | 0001107021 | 0001107052

## EQUIVALENTE / Equivalent

Bosch: 1006209585 | 1006209679 | 1006209916 | F000AL2012 - Lester: 17222 | 17415 - Lucas: TMB585 - Lucas Indiel: 223125

0800

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 199

## APLICAÇÃO / Application / Aplicación

Citroën: BX17 Diesel | BX19 Diesel | Visa 17 Diesel - Peugeot: 205 | 305 1.9D 09/1997... | 306 1.9D 09/1997... | 309 1.9D 09/1997... | 405 Diesel

## MOTOR

Bosch: 0001110017 | 0001110999 | F010AL0101

## EQUIVALENTE / Equivalent

Bosch: 1006209541 - Lucas Indiel: 223920

0801

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

## APLICAÇÃO / Application / Aplicación

Chrysler: Jeep Cherokee

## MOTOR

Chrysler: 56004934 - Mitsubishi: M1T76081

## EQUIVALENTE / Equivalent

Lester: 17467 - Lucas Indiel: 220401 - Mitsubishi: M191T14271 | M191T76081

0803

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

## APLICAÇÃO / Application / Aplicación

Saab: 1108075 | 42803 L4 2.0L 1985cc 1999 | 42803 L4 2.3L 2290cc 140cid 1999 | 900 L4 2.1L 2119cc 1991...1994 | 900 L4 2.3L 2290cc 140cid 1994...1998 | 900 L4 2.0L 1985cc 1985...1993/1994...1998 | 9000 L4 2.0L 1985cc 1986...1990 | 9000 L4 2.3L 2290cc 1991...1993/1994...1998 | 9000 L4 2.3L 2290cc 140cid 1990...1993 | 9000 L4 2.3L 2290cc 140cid 1990...1993/1994

## MOTOR

Bosch: 0001108075 | 0001108091 | 0001108092 | 0001108151 | 0001108154

## EQUIVALENTE / Equivalent

Bosch: 1006209564 - Lester: 17013 | 17276 | 17670

0805

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

## APLICAÇÃO / Application / Aplicación

Lada: Samara

## MOTOR

Bosch: 0001108099

## EQUIVALENTE / Equivalent

Bosch: 1006209578 | 1006209923 - Lucas Indiel: 223296

0806

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

## APLICAÇÃO / Application / Aplicación

Buick: Enclave V6 3.6L 217cid 2008...2011 | Enclave V6 3.6L 3564cc 217cid 2011 | LaCrosse V6 3.0L 182cid 2010 | LaCrosse V6 3.6L 217cid 2010...2011 | LaCrosse V6 3.6L 3564cc 217cid 2010...2011 - Cadillac: SRX V6 3.0L 182cid 2010...2011 | STS V6 3.6L 217cid 2007 - Citroën: C4 Pallas - Fiat: 500 - General Motors/Chevrolet: Acadia V6 3.6L 217cid 2007...2011 | Acadia V6 3.6L 3564cc 217cid 2011 | Captiva 3.6 | Equinox V6 3.0L 182cid 2010...2011 | Equinox V6 3.6L 217cid 2008...2009 | Malibu V6 3.6L 217cid 2008...2011 | Malibu V6 3.6L 3564cc 217cid 2011 | Terrain V6 3.0L 182cid 2010...2011 | Traverse V6 3.6L 217cid 2009...2011 - JPX: Jeep - Peugeot: 405D - Pontiac: G6 V6 3.6L 217cid 2007...2009 | Torrent V6 3.6L 217cid 2008...2009 - Saturn: Saturn CarAura V6 3.6L 217cid 2007...2009 | Saturn TruckOutlook V6 3.6L 217cid 2007...2010 | Vue V6 3.6L 217cid 2008...2010 - Suzuki: XL7 V6 3.6L 3564cc 2007...2009 - Willys: Pick Up 1994...

## MOTOR

Fiat: 53100008 | 68073160AA - Mitsubishi: M0T36571 | M0T82081 | M0T86181 | M0T93391 | M1T80081 | M1T85781 | M1T90281 | M08T87881 | M000T36571 | M000T33871ZC | M000i33871ZT

## EQUIVALENTE / Equivalent

Lucas Indiel: 223297 - Mitsubishi: M191T13671 | M191T14671 | M191T18271

0808

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

## APLICAÇÃO / Application / Aplicación

Daihatsu: Terios - Suzuki: Jimmy | Swift 1.3

0808

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

EQUIVALENTE / Equivalent

Lester: 17142 - Lucas Indiel: 223926 - Nippondenso: 283006680

0809

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

Daihatsu: Charmant 1300 - Honda: Civic - Toyota: 4A - 5A - 4E - 5E | Carina II 1.6 | Celica 1.6 GT 16V | Corolla 1.3 | Corolla 1.6 | Corolla 1.6 Gti 16V | Coupe 1.6 GT16V | Etios 2011... | Lite-Ace 1.5 | MR-2 1.6 GT | Paseo | Starlet 1.0 / 1.2 / 1.3 | Tercel | Twin Cam 1.6 GT16V

MOTOR

Denso: 4380000590 - Honda: 31200PLRA52 - Lucas Indiel: LRS2163 - Nippondenso: 1280005210 | 1280005211 | 1280005680 | 1280006340 | 1280006720 | 1280008530 | 1280008531 | 1280008890 | 1280008891 | 1280009290 | 1280009291 | 2280009652 | 4280000320 | 4280000321 | 4280001590 - Toyota: 281000Y070

EQUIVALENTE / Equivalent

Lester: 17203 | 17252 | 17253 - Lucas Indiel: 223927 - Nippondenso: 0283006070 | 0283006960 - Toyota: 6070 | 2801170020

0813

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

John Deere: 570B 6059D John Deere Dsl | 6059 Diesel | 6068 Diesel 1985...1995 | 6329D Diesel | 6414D / T Diesel 1985...1987 | 655 Utility Tractor Various Dsl 1981...1985 | 655B 6068T John Deere Dsl 1982...1995 | 670B 6068H John Deere Dsl 1982...2001 | 672A Various Dsl 1978...1981 | 672B 6068T John Deere Dsl 1988...2001 | 690CR Diesel 1984...1991 | 690D 6414T John Deere Dsl 1988...1992 | 693C 6414T John Deere Dsl 1987...1989 | 693D 6068 Diesel 1988...1995 | 750 Various Dsl 1975...1986 | 750B 6068 Diesel 1982...1995 | 755 6068T John Deere Dsl 1986...1995 | 755 Utility Tractor Various Dsl 1976...1982 | 755A Various Dsl 1982...1984 | 755B Various Dsl 1985...1990 | 770B Various Dsl 1982...2001 | 772B Various Dsl 1982...2001 | 790 Utility Tractor 6466A John Deere Dsl 1984...1987 | 792 6466A John Deere Dsl 1984...1988 | 793D 6466A John Deere Dsl 1988...1995 | 850B 619 Diesel 1982...1990 | 850B 6466A John Deere Dsl 1985...1995 | JD670 Diesel 1975...1978 | JD670 6466A John Deere Dsl 1985...1995 | JD762A 619 John Deere Dsl 1980...1981 | JD762A 6466A John Deere Dsl 1980...1981 | JD762B 1982...2001

MOTOR

John Deere: TY6654 | TY6687 | TY6714 | TY6718 | AR84333 | RE15663 | RE15718 | RE43422 | TY25964 | TY25965 | SE501418 | SE501419

EQUIVALENTE / Equivalent

Lester: 16655 | 17371 - Nippondenso: 0283001860

0814

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

Case: Trator MX 135

MOTOR

Bosch: 0001367054

EQUIVALENTE / Equivalent

Bosch: 2006209432 - Lester: 18035

0815

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

Honda: Accord 1.8 - 2.0 | Aerodeck | Prelude 2.0

EQUIVALENTE / Equivalent

Cargo: 134284 - Lester: 16845 | 16901 | 16902 | 16914 | 16960 | 16975 | 17160 | 17201 | 17205 | 17474 | 17491 | 17527 - Mitsuba: 31204PD1003

0816

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

Dodge: B150 V6 3.9L 3906cc 239cid 1991...1994 | B150 V8 5.2L 5211cc 318cid 1991...1994 | B150 V6 3.9L 3906cc 239cid 1995 | B150 V8 5.2L 5211cc 318cid 1995 | B250 V6 3.9L 3906cc 239cid 1991...1994 | B250 V8 5.2L 5211cc 318cid 1991...1994 | B250 V8 5.9L 360cid 1991...1994 | B250 V6 3.9L 3906cc 239cid 1995 | B250 V8 5.2L 5211cc 318cid 1995 | B2500 V8 5.9L 360cid 1995 | B350 V8 5.2L 5211cc 318cid 1991...1994 | B350 V8 5.9L 360cid 1991...1994 | B3500 V8 5.2L 5211cc 318cid 1995 | B3500 V8 5.9L 360cid 1995 | D150 V6 3.9L 3906cc 239cid 1991...1993 | D150 V8 5.2L 5211cc 318cid 1991...1993 | D150 V8 5.9L 360cid 1991...1993 | D250 V6 3.9L 3906cc 239cid 1991...1993 | D250 V8 5.2L 5211cc 318cid 1991...1993 | D250 V8 5.9L 360cid 1991...1993 | D350 V8 5.9L 360cid 1991...1993 | Dakota V6 3.9L 3906cc 239cid 1991...1995 | Dakota V8 5.2L 5211cc 318cid 1991...1995 | Ram 1500 V6 3.9L 3906cc 239cid 1994...1995 | Ram 1500 V8 5.2L 5211cc 318cid 1994...1995 | Ram 1500 V8 5.9L 360cid 1994...1995 | Ram 2500 V8 5.2L 5211cc 318cid 1994...1995 | Ram 2500 V8 5.9L 360cid 1994...1995 | Ram 3500 V8 5.9L 360cid 1994...1995 | Ram 4000 8 cil. 5.9L 360cid 1995 | Ramcharger V8 5.2L 5211cc 318cid 1991...1993 | Ramcharger V8 5.9L 360cid 1991...1993 | W150 V6 3.9L 3906cc 239cid 1991...1993 | W150 V8 5.2L 5211cc 318cid 1991...1993 | W150 V8 5.9L 360cid 1991 | W150 V8 5.9L 360cid 1993 | W250 V8 5.2L 5211cc 318cid 1991...1993 | W250 V8 5.9L 360cid 1991...1993 | W350 V8 5.9L 360cid 1991...1993 - Lexus: LX450 L6 4.5L 4477cc 1996...1997 - Toyota: Land Cruiser L6 4.5L 4477cc 1993...1997 - ZEN: Utiliza Pinhão ZEN 9349

0816

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

EQUIVALENTE / Equivalent

Lester: 17466 | 17485 - Nippondenso: 283007270

0817

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

Chrysler: Caravan 1992...1997 | Concorde 1993...1997 | Dodge Eagle Vision Intrepid 1993...1997 | Dodge Fifth Avenue 1993 | Dynanty 1990...1993 | Imperial | New Yorker | Town 1992...1997 - ZEN: Utiliza Pinhão ZEN 9492

EQUIVALENTE / Equivalent

Lester: 17460 | 17465 - Nippondenso: 283007720

0818

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

Especial/Special: Motocicletas - Honda: Accord | Civic - Toyota: Corolla | Tacoma - Yale: Empilhadeira - ZEN: Utiliza Pinhão ZEN 9186

MOTOR

Nippondenso: 1280008210 | 1280009190 | 1280009191 | 1280009300 | 1280009310 | 1280009380 | 1280009520 | 1280009700 | 2280000340 | 2280001160 | 2280007390 | 2280007391 | 2280007392 - Toyota: 2810016270 | 2810046100 | 2810046120 | 2810046140 | 2810049090 | 2810075050 | 2810076060 | 2810076070

EQUIVALENTE / Equivalent

Cargo: 137753 - Nippondenso: 0283006990 | 0283007170 | 0283007990 - Toyota: 2801176070

0820

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

Ford: Escort Diesel

MOTOR

Lucas Indiel: 26921 | 26925 | 26903A | 26913A | 26935B | 26929A/B | 26931A/B

EQUIVALENTE / Equivalent

Lucas: TMB182 | 54291735

0821

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

Ford: Mondeo - Rover: 216

MOTOR

Lucas Indiel: 26708 | 26816 | 26823 | 26824 | 26716B | 26809A | 26810A | 26707A/L | 26713A/D | 26804A/E

EQUIVALENTE / Equivalent

Lucas: TMB171 | 54290840

0822

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

Austin: Maestro 2.0 - Rover: 111, 114, 214, 820 | Maestro 1.3, 1.6, 2.0, 2.0 Turbo | Metro 1.0, 1.1, 1.3 | Mini Cooper 1.3 | Montego 2.0 Turbo | TNB176

MOTOR

Lucas Indiel: M79 | 26702 | 26717A | 26811A | 26702E/K | 26812A/D

EQUIVALENTE / Equivalent

Lucas: TMB174 | 54292929

0823

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

APLICAÇÃO / Application / Aplicación

Ford: Mondeo 95 CLX 16 V

MOTOR

Lucas Indiel: M79 | 26628 | 26689 | 26695 | 26605A | 26620A | 26628A | 26678B | 26679B | 26680B | 26681B | 26600E/F | 26601E/F | 26609F/J | 26613E/H | 26616A/B | 26619A/D | 26621A/B | 26624A/D | 26626A/B | 26654B/D - Magneti Marelli: 63227004 | 63227005 | 63227006 | 63227007 | 63227008 | 63227009 | 63227010 | 63227014 | 63227016 | 63227017 | 63227028 | 63227038

0823

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 200

EQUIVALENTE / Equivalent

Lucas: TMB167 | 54291911 - Lucas Indiel: 221167

0825

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

APLICAÇÃO / Application / Aplicación

Chrysler: Jeep Cherokee

MOTOR

Chrysler: 56041014 - Mitsubishi: M001T79482 | M001T74287ZC

EQUIVALENTE / Equivalent

Lester: 17461 | 17559 | 17561 - Lucas Indiel: 220402 - Mitsubishi: M191T14371 | M191T15271 | M001T74281ZC

0826

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: D20 Maxion - Perkins: Maxion

MOTOR

Lucas Indiel: 35258440

EQUIVALENTE / Equivalent

Lucas Indiel: 220206 | 35260206

0828

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

APLICAÇÃO / Application / Aplicación

Nissan: NX 4 cil. 2.0L 1998cc 1991...1993 | Sentra 4 cil. 2.0L 1998cc 1991...1994

EQUIVALENTE / Equivalent

Cargo: 137413 - Hitachi: 211475014 - Lester: 17246

0830

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

APLICAÇÃO / Application / Aplicación

Daihatsu: Feroza 4x4

EQUIVALENTE / Equivalent

Lester: 16879 - Nippondenso: 283005820

0831

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

APLICAÇÃO / Application / Aplicación

Datsun: Especial/Special - Nissan: Especial/Special - Skoda: Especial/Special

EQUIVALENTE / Equivalent

Pal: 443937150171 - Skoda: 115904030

0832

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

APLICAÇÃO / Application / Aplicación

Honda: Civic 1300 L4 1.3 Gas. 1987 | Civic 1300 STD L4 1.3 Gas. 1984...1986 | Civic DX L4 1.3 Gas. 1984 | Civic DX L4 1.3 Gas. 1985 | Civic DX L4 1.3 Gas. 1986 | Civic DX L4 1.3 Gas. 1987 | CRX 1300 L4 1.3 Gas. 1984 | CRX 1500 HF L4 1.5 Gas. 1985...1989 | CRX 1500 L4 1.5 Gas. 1984...1987 | CRX 1500 SI L4 1.5 Gas. 1985...1987 | CRX DX L4 1.5 Gas. 1988...1990 | CRX HF L4 1.5 Gas. 1991 - Rover: 213

MOTOR

Hitachi: S114385 | S114387 | S114396 | S114412 | S114396D | 5811001921 | 5811002150 - Honda: 31200PE0015 - Isuzu: 5811001920 | 5811002150

EQUIVALENTE / Equivalent

Hitachi: 211415508 - Honda: 31207PE0005 - Isuzu: 5811230360 - Lester: 16843 | 18056 | 18322

0836

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

APLICAÇÃO / Application / Aplicación

Peugeot: 106 | 206 - Renault: Clio

0836

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

## MOTOR

Mitsubishi: M2T48381 | M3T32985

## EQUIVALENTE / Equivalent

Lucas Indiel: 229988 - Mitsubishi: M191T22471

0837

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

## APLICAÇÃO / Application / Aplicación

Fiat: Doblo | Palio 1.0 8V e 16V | Palio 1.3 MPI 16V | Palio Fire | Palio Weekend 1.0 8V e 16V | Palio Weekend 1.3 MPI 16V | Siena 1.0 MPI 16V | Siena 1.3 MPI 16V | Strada 1.0 8V | Strada 1.3 16V | Uno Mille Fire - General Motors/Chevrolet: Celta 1.0i | Corsa 1.0, 1.4, 1.6 EFI. - Renault: Clio 1.6i 07/1996... | R19 1.6i 07/1996...

## MOTOR

Bosch: 9000081003 | F000AL0304 | F000AL0309 | F000AL0310 | F000AL0314

## EQUIVALENTE / Equivalent

Bosch: 9001081022 | F000AL1040 | F000AL1238 | F000AL1679 | F000AL1680 | F000AL1692 - Lucas: TMB022 - Lucas Indiel: 223126

0838

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

## APLICAÇÃO / Application / Aplicación

Fiat Iveco: Ducato Argentino 1997 - MWM: Diter D302 | Diter D325 | Diter D889 | Diter D890 | Diter D900 | Diter D989

## MOTOR

Bosch: 9000331418

## EQUIVALENTE / Equivalent

Bosch: 9003336282 - Lucas Indiel: 223302

0841

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

## APLICAÇÃO / Application / Aplicación

Toyota: 4K - 5K | Corolla 1.3 | Hiace | Liteace 1.5

## MOTOR

Nippondenso: 185086440 | 1280007740

## EQUIVALENTE / Equivalent

Nippondenso: 0283005400 | 2801113060

0843

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Celta 1.0 | Corsa - Renault: Clio | Clio 1.6 | Kangoo 1.6 | Laguna 1.8 e 2.0 | Laguna Nevada 1.6 | Megane 1.6 | R11 1.6 | R12 1.6 | R19 1.6 | R9 1.6 e 1.7 | Scenic 1.6

## MOTOR

Valeo: D7E4 | D7E6 | D7E8 | BD7R1 | D7E15 | D7E17 | D7E18 | BD7E17 | 93264950

## EQUIVALENTE / Equivalent

Valeo: NE971 | 180205 | 182848 | 187788 | 190205 | 230205 | 300305 | 494829 | 594345

0844

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

## APLICAÇÃO / Application / Aplicación

Volkswagen: LT TD - Volvo: 240 D | 740 TD | 940 TD - ZEN: Utiliza Pinhão ZEN 9566

## MOTOR

Hitachi: S1391

## EQUIVALENTE / Equivalent

Cargo: 133437 - Hitachi: 213035004 - Lester: 17138



0846

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

## APLICAÇÃO / Application / Aplicación

Citroën: Berlingo | Congo | Xantia - Fiat: Palio 1.0 MPI 8V | Palio Argentino 1.6 | Palio Weekend 1.0 | Palio Weekend 1.5 | Siena 1.0 | Siena 1.5 | Stilo JTD 1.9 | Strada 1.5 | Uno Mille Eletronic | Uno SX 1996 - Peugeot: 205 | 306 | 405 | 406

## MOTOR

Bosch: 9000081009 | F000AL0300 | F000AL0305 | F010AL0301

## EQUIVALENTE / Equivalent

Bosch: 9001081066 | F000AL1023 - Lucas: TMB066 - Lucas Indiel: 223127

0850

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

## APLICAÇÃO / Application / Aplicación

Hitachi: Escavadeira EX100M-2 Isuzu 4BD1 1988...1996 | Escavadeira EX100-2 Isuzu 4BD1 1988...1994

## MOTOR

Remy: 10479626

## EQUIVALENTE / Equivalent

Lester: 18193 - Remy: 0215002001

0851

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

## APLICAÇÃO / Application / Aplicación

Volkswagen: TL 2.4 diesel

## MOTOR

Bosch: 0001218116

## EQUIVALENTE / Equivalent

Bosch: 9002336204 - Cargo: 135116 - Lucas: TMB475

0852

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 201

## APLICAÇÃO / Application / Aplicación

Chrysler: Neon | Stratus

## MOTOR

Bosch: 0001107049

## EQUIVALENTE / Equivalent

Bosch: 1006209613 - Lester: 17560 | 17563 - Lucas Indiel: 223960

0853

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

## APLICAÇÃO / Application / Aplicación

Nissan: 310 L4 1.4L 1393cc 85cid 1979...1980 | 310 L4 1.5L 1488cc 1981 | A12, A15 | F10 L4 1.4L 1393cc 85cid 1976...1978 | Fork Lifts

## MOTOR

Mitsubishi: M2T20181 | M2T20181D - Nissan: 23300H5014

## EQUIVALENTE / Equivalent

Lester: 16579 - Mitsubishi: M191T22571 - Nissan: 23354T5000

0854

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

## APLICAÇÃO / Application / Aplicación

Asia Motors: Towner Daewoo - Renault: Twingo

## MOTOR

Remy: 10455505

## EQUIVALENTE / Equivalent

Lucas: TMB008 - Remy: 10475958

0855

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

## APLICAÇÃO / Application / Aplicación

Fiat: Palio 1.6 16 V | Palio Weekend 1.6 16V | Siena | Tempra 2.0 8V | Tempra 2.0 MPI 16V | Tempra 2.0 SPI 8V | Tempra 2.0 Turbo MPI 8V | Uno - ZEN: Planetária ZEN 12689

## MOTOR

Bosch: 9000081005 | 9000081008 | 9000084005 | F000AL0100

## EQUIVALENTE / Equivalent

Bosch: 9001081042 | F000AL1693 - Lucas: TMB042 - Lucas Indiel: 223305

0857

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

## APLICAÇÃO / Application / Aplicación

Fiat: Regata 1.7 diesel | Ritmo Diesel - Mercedes Benz: 190 | 190E | 200 | 230 | 250 | 280 | L410 | O309 - Peugeot: 305 Diesel - Volkswagen: LT28 | LT31 | LT35 | LT40 | LT45 | LT50

## MOTOR

Bosch: 0001211146 | 0001314026 | 0001314027 | 0001314028 | 0001314029 | 0001314030 | 0001314033 | 0001314034 | 0001314035 | 0001314036 | 0001314037 | 0001314038 | 0001316004 - Fiat: 4392461 | 5997307 | 5997309

## EQUIVALENTE / Equivalent

Bosch: 1006209469 | 1006209470 | 1006209473 - Fiat: 9936671 - Lester: 16543 | 16954 | 17043

0860

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

## APLICAÇÃO / Application / Aplicación

Volkswagen: Parati | Pointer Audi 827 - 1.8 e 2.0 | Polo Classic 2.0

## MOTOR

Lucas Indiel: 35258270 | 35258640 | 35259060

## EQUIVALENTE / Equivalent

Lucas Indiel: 228396 | 35258396

0861

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

## APLICAÇÃO / Application / Aplicación

Ford: F100 | F1000 Maxion TN1 HSD Diesel 1997 | F150 | Ranger | Transit - General Motors/Chevrolet: Blazer 2.5 Diesel | S10 Diesel - Land Rover: Land Rover Defender 2.5 Diesel Gemini TCI D.I. 23L | Land Rover Defender 2.5 Turbo 1990...2001 | Land Rover Diesel Maxion H54TCC 1998... | Land Rover Discovery 2.5 TDi 12L, 21L 1989...1994 | Land Rover Discovery 2.5 Tdi 16L 1993...1998 | Range Rover I 2.5 TDi Classic 14L 1992...1994 | Range Rover I 2.5 TDi Classic 300 Tdi 1994...1996  
Mercedes Benz: Sprinter - Perkins: Maxion - HSD (Maxion High Speed)

## MOTOR

Bosch: 0001218168 | 9000331432 | 9000331433

## EQUIVALENTE / Equivalent

Bosch: 9002336226 | 9003336227 | F000AL1872 - Lucas Indiel: 223965

0863

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

## APLICAÇÃO / Application / Aplicación

Nissan: Primera 1.6

## MOTOR

Lucas Indiel: 26667 | 27022 | 27047 - Magneti Marelli: 63227022 | 63227043 | 63227046 | 63227047 | 63227051 | 63227577 - Nissan: 2330070J00

## EQUIVALENTE / Equivalent

Lucas: TMB196 | 54292464 - Nissan: 2331290J00

0866

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

## APLICAÇÃO / Application / Aplicación

Volkswagen: Gol 1.6 D | Gol G2 1.8 Mi | Gol G2 2.0 Mi | Gol G2 2.0i | Gol G3 | Parati | Quantum Mi 1.8, 2.0 | Santana Mi 1996 | Saveiro | Senda - ZEN: Utiliza Planetária 12681

## MOTOR

Bosch: 9000081006 | 9000081007 | F010AL0103

0866

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

EQUIVALENTE / Equivalent

Bosch: 9001081052 | F000AL1705 - Lucas: TMB052 - Lucas Indiel: 223128

0868

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

APLICAÇÃO / Application / Aplicación

Peugeot: 504 XT2 Diesel | 505 XT2 Diesel

MOTOR

Lucas Indiel: 35257700

EQUIVALENTE / Equivalent

Bosch: 1987BE0054 - Lucas Indiel: 35257824

0871

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

APLICAÇÃO / Application / Aplicación

Mazda: 323 1.3 e 1.5 8T - Suzuki: Vitara 1.6 - Toyota: 1300

MOTOR

Bosch: 0001112032 | 9000333121

EQUIVALENTE / Equivalent

Bosch: 9001336240 | 9001690057 | 9001690067 | F000AL1440 | F000AL1697 - Cargo: 135985

0874

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

APLICAÇÃO / Application / Aplicación

Mazda: 323 | B1600 | B2200 - Toyota: Corolla 1.3 e 1.6 8T

EQUIVALENTE / Equivalent

Bosch: 9001692097

0875

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

APLICAÇÃO / Application / Aplicación

Alfa Romeo: Alfa Romeo 14AR 6 Turbo - Fiat: Argenta 2.5 | Croma 2.5 Turbo - Fiat Iveco: Daily Turbo 09.09 Diesel | Daily Turbo 35.10 Diesel | Daily Turbo 49.10 Diesel | Ducato 14 | Ducato 14 4X4 | Ducato 18 | Ducato 18 Maxi - Lancia: Thema Turbo Diesel - Land Rover: Defender 2.5D - TD | Discovery 2.5 TDI | Range Rover 2.5 TDI  
Renault: Master, P35, T35 Diesel | Trafic diesel

MOTOR

Bosch: 0001217174 | 0001218014 | 0001218019 | 0001218024 | 0001218101 | 0001218102 | 0001218103 | 0001218152 | 0001218159 | 0001218174 | 0001218774  
Iveco: 99451753

EQUIVALENTE / Equivalent

Bosch: 9002336218 | 9002336283 | 9003336283 | 9009996289 | F000AL1881 - Cargo: 137171 - Fiat: 9939710 - Iveco: 42531397 - Lucas Indiel: 223976

0878

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

APLICAÇÃO / Application / Aplicación

Fiat: Tempra SW | Tipo 2.0

MOTOR

Magnetit Marelli: 63223430 | 63223431 | 63223432 | 63223436 | 63223530 | 63223531 | 63223532

EQUIVALENTE / Equivalent

Fiat: 9941846

0879

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

APLICAÇÃO / Application / Aplicación

TCM Equipment Ag: Série 40MT | Série 42MT 12/24V | Série 50MT 12/24V

MOTOR

Leece Neville: 7282M | 8282M | 7408MA - Prestolite: MES6403JUT - Remy: 1113350 | 1113369 | 1113374 | 1113801 | 1113804 | 1113811 | 1113817

0879

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

EQUIVALENTE / Equivalent

Lester: 3052 | 3054 | 3065 | 3789 | 3796 | 6219 | 6220 - Lucas Indiel: 223979 - Prestolite: 59225 | PD13A - Remy: 1932603 | 1985131

0887

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

APLICAÇÃO / Application / Aplicación

Caterpillar: 320B Mitsubishi 24V - Ford: Pick Up 7.3 D Turbo | Van 7.3 D Turbo - Mitsubishi: Canter

MOTOR

Mitsubishi: M2T80772 | M3T57575 | M8T50071 | M8T50171 | M8T50271 | M8T50471 | M8T55171 | M8T55471 | M8T60073 | M8T60371 | M8T60372 | M8T60373 | M8T60374 | M8T60389 | M8T60471 | M8T60489 | M8T60571 | M8T60771 | M8T60773 | M8T60871 | M8T70371 | M8T70971 | M8T71571 | M8T75171 | M8T77071 | M8T77072 | M8T77074 | M8T77075 | M8T80071 | M8T80171 | M8T80371 | M8T80372 | M8T80373 | M8T80374 | M8T80772 | M8T80789 | M8T85071 | M8T85171 | M8T85271 | M8T85471 | M8T85571 | M8T87071 | M8T87171 | ME012994 | ME012995 | ME013008 | ME014418 | M8T80071A | M8T80071B | M8T85071A | M8T85071B | M8T85171A | M8T85271B

EQUIVALENTE / Equivalent

Mitsubishi: ME701487 | ME701648 | ME701651 | M191X67571 | M191X67585 | M191X67685 | M191X67771 | M191X67871 | M191X67885 | M191X68271 | M191X68671 | M191X93571

0888

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 202

APLICAÇÃO / Application / Aplicación

Agco: Trator 9170 6-584 Deutz Diesel 1991...1993 | Trator 9190 6-584 Deutz Diesel 1991...1993 | Trator 9670 6-584 Deutz Diesel 1994...1996 | Trator 9690 6-584 Deutz Diesel 1994...1995 - Deutz: Trator 9170 6-584 Diesel 1989...1992 | Trator 9190 6-584 Diesel 1989...1992

EQUIVALENTE / Equivalent

Lester: 6288 | 6388 - Remy: 10497496

0890

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

APLICAÇÃO / Application / Aplicación

Ford: Courier | Fiesta | Ka

EQUIVALENTE / Equivalent

Facet: 10671 - Ford: F8BU11350AA - Lucas: TMM990 - Lucas Indiel: 222514 - Ww: 10671

0892

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

APLICAÇÃO / Application / Aplicación

Lada: 2110 - Skoda: Felicia

EQUIVALENTE / Equivalent

Magnetron: 443937150860 - Skoda: 1722

0893

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

APLICAÇÃO / Application / Aplicación

Clark: Empilhadeira CG P 25 Com Arranque Adaptado

0894

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

APLICAÇÃO / Application / Aplicación

TCM Equipment Lift Truck: FD100Z 6BD1 Motor 0000 | FD35Z 6BB1 Motor 0000 | FD35Z5 Isuzu D500 0000 | FD38Z 6BB1 Motor 0000 | FD38Z Isuzu D500 0000 | FD40Z 6BB1 Motor 0000 | FD40Z2 Isuzu D500 0000 | FD45Z 6BB1 Motor 0000 | FD50Z 6BB1 Motor 0000 | FD50Z6 Isuzu D500 0000 | FD60Z 6BB1 Motor 0000 | FD60Z5 Isuzu D500 0000 | FD70Z 6BB1 Motor 0000 | FD70Z2 Isuzu D500 0000 | FD80Z7 6BD1 Motor 0000

MOTOR

Isuzu: 181001890 | 1811001890 | 1811001891 | 1811001900 | 1811001910 | 1811001920 | 1811001970 | 1811001971 | 1811002061 | 1811002530 | 1811002531 | 1811002590 | 1811002890 | 5811001742 - Mitsui Deutz: 4413040 | 4413390

EQUIVALENTE / Equivalent

Lester: 18100 | 18191 - Nikko: 0230001030 | 0230001031 | 0230001050 | 0230001070 | 0230001071 | 0230001080 | 1235000010

0895

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

## APLICAÇÃO / Application / Aplicación

Komatsu: PC75U Motor 4D95 1991...1994 | PC80 Motor 4D95 1988...1997 | PC90 Motor 4D95 1991...1994

## MOTOR

Isuzu: 8942554392 | 8943634280 | 8944467700 - Komatsu: 6008133111 | 6008133121 | 6008133122 | 6008133130 | 6008133170 | 6008133171 | 6008134000 | 6008134190 | 6008134380 | 6008134410 | 6008134411 | 6008314411 - Nikko: 230000031 | 230000032 | 230000042 | 230000060 | 230000063 | 230000240 | 230000332 | 230000450

## EQUIVALENTE / Equivalent

Nikko: 0235000350 | 0235000353

0898

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

## APLICAÇÃO / Application / Aplicación

Harley Davidson: Disc Glide - FXDG 1983 | Disc Glide - FXRDG 1994 | Electra Glide - FLH 1965...1985 | Electra Glide - FLH 1200 1979...1980 | Electra Glide - FLH-80 1979...1980 | Electra Glide - FLHS 1977...1981 | Electra Glide - FLHT 1983...1987 | Electra Glide Classic - FLHC 1979...1991 | Electra Glide Classic - FLHTC 1983...1988 | Electra Glide Special - FLHX 1984...1985 | Electra Glide Sport - FLHS 1982...1984 | Electra Glide Sport - FLHS 1987...1988 | Electra Glide Super Sport - FLHFB 1965 | Fat Bob - FXEF 1980...1981 | Fat Bob - FXEF 1200 1979 | Fat Bob - FXEF-80 1979 | Glide Heritage - FLH 1981 | Harley Davidson FL 1965...1981 | Harley Davidson FLH 1965 | Harley Davidson FS 1965...1983 | Heritage Softail - FLST 1986...1988 | Heritage Softail Classic - FLSTC 1987...1988 | Low Glide - FXRS 1984...1985 | Low Glide - FXRS 1985 | Low Glide Custom - FXRC 1985

## MOTOR

Harley Davidson: 3145564 | 3145564A

## EQUIVALENTE / Equivalent

Facet: 10036 | 480105 | 480183

0900

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

## APLICAÇÃO / Application / Aplicación

Ford: Galaxy 2.8 - Volkswagen: Corrado 2.9 | Golf 1.8 | Golf III 2.9 Syncro | Passat 1.6, 2.0 | Passat 2.9 Syncro | Sharan 2.8 | Variant 2.9 Syncro | Vento 2.8

## MOTOR

Bosch: 0001107005 | 0001107006 | 0001108059 | 0001108060 | 0001108076 | 0001108077 | 0001108096 | 0001108097 | 0001110069 | 0001110070 | 0001110086 | 0001110087 | 0001110118 | 0001110119 | 0001112010 | 0001112011 | 0001114009 | 0001114010

## EQUIVALENTE / Equivalent

Bosch: 1006209295 | 1006209553 | 1006209558 | 1006209565 | 1006209583 | 1006209591 | 1006209594 | 1006209910 | 1006209911 | 1006209922 | 2006209594  
Lester: 17223 | 17417 - Lucas Indiel: 224000 - Volkswagen: 0219113355

0901

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

## APLICAÇÃO / Application / Aplicación

Nissan: Cabstar 3.3 Diesel | Forklift Diesel

## MOTOR

Hitachi: S25156 | S25160 | S25162 | S25110G | S25110L | S25125A | S25125B | S25158A | S25158B - Nissan: 2330006J02 | 2330006J04 | 23300C8601 | 23300Z5505 | 23300Z5509 | 23300Z5512

## EQUIVALENTE / Equivalent

Bosch: 1987BE0055 - Hitachi: 22708500 | 225025003 | 225025004 | 225045004 | 225085005 - Nissan: 23312T9000 | 23312T9003 | 23314Z9002

0902

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

## APLICAÇÃO / Application / Aplicación

Valmet: Zetor

## MOTOR

Pal: 2928 | 976117

## EQUIVALENTE / Equivalent

Pal: 932208

0905

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

## APLICAÇÃO / Application / Aplicación

Jeep: Cherokee

**0905**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

EQUIVALENTE / Equivalent

Bosch: 1987BE0022

**0906**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

APLICAÇÃO / Application / Aplicación

Clark: Empilhadeira - Daewoo: Empilhadeira

EQUIVALENTE / Equivalent

Lucas Indiel: 224006

**0907**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

APLICAÇÃO / Application / Aplicación

Ford: Transit

MOTOR

Ford: 98VB11000 | 97VB11000AB | 98VB11000B3A

EQUIVALENTE / Equivalent

Ford: 106688 | F7RUK614 | 10670F7RU

**0908**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

APLICAÇÃO / Application / Aplicación

Ford: Courier - Mazda: 323 | 626SL | SLX

EQUIVALENTE / Equivalent

Lucas: 66241583

**0910**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

APLICAÇÃO / Application / Aplicación

Renault: Master

MOTOR

Magnetit Marelli: MT68Q | MT68QA | 63216815 | 63216851 | 63217403

**0914**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

APLICAÇÃO / Application / Aplicación

TCM Equipment Ag: Série 42MT 12/24V | Série 50MT 12/24V

MOTOR

Remy: 1113477 | 1114155 | 1114177 | 1114716 | 1114948 | 1990486 | 1993774 | 1993784 | 1993801 | 1993826

EQUIVALENTE / Equivalent

Facet: 480414 - Lester: 3050 | 3364 | 3370 | 3932 | 6234 | 6247 | 6248 | 6255 | 6258 | 6518 | 6528 | 6529 | 6550 | 6626 | 6627 | 6650 - Remy: 1893561 | 1953151

**0915**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 203

APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Grand Blazer 4.1 | Silverado 6 cil a gasolina 12V - Peugeot: 205 XU7 4 cil 1.6 | 205 XUD9 4 cil 1.9 Diesel | 306 XU7 4 cil 1.6 | 306 XUD9 4 cil 1.9 Diesel | 405 XU7 4 cil 1.6 | 405 XUD9 4 cil 1.9 Diesel | 405 FRI | Boxer XUD9 4 cil 1.9 Diesel | Partner XU7 4 cil 1.6

MOTOR

Lucas Indiel: 35258370 | 35258430 | 35258730

EQUIVALENTE / Equivalent

Lucas Indiel: 220198 | 35260198 | 35260202

**0916**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

APLICAÇÃO / Application / Aplicación

Ford: F1000 Maxion HSD 1997 | Ranger International 3.0 Diesel | Ranger International Maxion HS 4 cil. 2.5 e 2.8 Diesel - General Motors/Chevrolet: Blazer | S10 Maxion HSD - Mercedes Benz: Sprinter Maxion HS - Perkins: Especial/Special Maxion HSD

0916

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## MOTOR

Lucas Indiel: 35259170 - Prestolite: 35261860

## EQUIVALENTE / Equivalent

Bosch: F000AL1684 - Lucas Indiel: 35260280 | 35262227

0917

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Isuzu: Especial/Special - Nissan: Especial/Special

## EQUIVALENTE / Equivalent

Lucas: 66241474

0918

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Toyota: Conquest | Corolla

## EQUIVALENTE / Equivalent

Lucas: 66241709

0919

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Omega Australiano 3.8 V6

## MOTOR

Bosch: F005M00012 | F005M00014

## EQUIVALENTE / Equivalent

Bosch: 9000061009 | 9001066255

0920

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 1831 | 1831 AK | 1831L | 1835 | 1835 AK | 1835L | 1840 | 1840 AK | 1840L | 1843 | 1843 AK | 1843L | 1848 | 1848 AK | 1848L | 1853 | 1853L | 1857L | 1922 | 1928 | 1928L | 1933 | 1933L | 1936 | 1938 | 2031 | 2031A | 2033LS | 2035A | 2036LS | 2040 | 2040A | 2053 | 2531 | 2531L | 2535L | 2536A | 2540 | 2540L | 2543 | 2543L | 2548 | 2548L | 2553 | 2553L | 2557L | 2631 | 2631L | 2635 | 2635L | 2636A | 2638S | 2640 | 2640L | 2643 | 2643L | 2648 | 2648L | 2653 | 2653L | 2657 | 2657L | 3231 | 3235 | 3240 | 3243 | 3331 | 3331A | 3335 | 3340 | 3340A | 3343 | 3343A | 3348 | 3348A | 3353 | 3357 | 4140 | 4140A | 4143 | 4143A | 4148 | Actros 1831 | Actros 1835 | Actros 1840 | Actros 1843 | Actros 1848 | Actros 2031 | Actros 2035 | Actros 2040 | Actros 2043 | Actros 2048 | Actros 2531 | Actros 2535 | Actros 2540 | Actros 2543 | Actros 2548 | Actros 2631 | Actros 2635 | Actros 2640 | Actros 2643 | Actros 2648 | OM447 | OM449A - Scania: P - R 114/340 | P - R 124/360 | P - R 124/400 | P - R 124/420 | R - T 144/360 | R - T 144/530 | R 164/580 | Série 11.79M, 14.68M, 14.69M, 14.72A, 14.73M 1997... | Série 114 | Série 14.74M, 14.75M, 14.77A 14.78M 1997... | Série 144 - R144/460 DSC 14.15 | Série 164 - R164/480 DC 16.02 2000... | Série DSC - 11.56A, 11.57A, 11.58A, 14.57A, 14.61A, 14.62A, 14.63A | Série DSI - 11.71A, 11.72A, 11.74M, 11.75M, 11.76M, 11.77M, 11.78M | Série K124/ P124 | Série R 144/530 DSC 14.13 1996...2001 | Série R 164/580 DC 16.01 2000... | Série T 144/460 DSC 14.15 1997...2001 | Série T144/530 DSC 14.13 1997...2001

## MOTOR

Bosch: 0001370003 | 0001371004 | 0001371005 | 0001371006 | 0001371007 | 0001371008 | 0001371009 | 0001371010 | 0001371013 | 0001371015 | 0001372001 | 0001372002 | 0001372003 | 0001372004 | 0001372005 | 0001372006 | 0001372007 | 0001372008

## EQUIVALENTE / Equivalent

Bosch: 2006202010 | 2006202011 | 2008109203 | F000AL1898 - Cargo: 138308 - Remy: 19070179

0921

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Toyota: Hilux 2.8 Diesel | L -2L | Land Cruiser 2.8 Diesel

## MOTOR

Nippondenso: 280007370 | 280007373 | 280008760 | 280008761 | 280008762 | 1280000360 | 1280000362 | 1280001880 | 1280007353 | 1280008140 | 1280008142 | 1280008150 | 1280008152 | 1280009591 | 1280009592 | 2280000400 | 2280000640 | 2280001300 - Toyota: 2810054100 | 2810054170

## EQUIVALENTE / Equivalent

Cargo: 137293 - Nippondenso: 0280992700 | 2810054310 - Toyota: 2801154070

0925

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Audi: A4 | A6 - Fiat: Palio | Siena Diesel | Strada 1.7 TDS - Mahindra: Pick Up - Mercedes Benz: E 190 2.3 - Renault: Especial/Special - Volkswagen: Gol G2 2.0 Mi | Gol G3 1.6 Mi | Gol G3 1.8 Mi | Gol G3 2.0 Mi | Gol GTI 16V | Passat Alemão

## MOTOR

Bosch: 0001107037 | 0001107048 | 0001107054 | 0001107067 | 0001107068 | 0001107069 | 0001107070 | 0001107072 | 0001107073 | 0001107074 | 0001107076 | 0001108162 | 0001108166 | 0001108167 | 0001108172 | 0001108173 | 0001108174 | 0001108175 | 0001109018 | 0001115002 | 0001115007 | F002G20524

## EQUIVALENTE / Equivalent

Bosch: 1006209618 | 1006209638 | 1006209672 | 1006209677 | 1006209690 | F002G20644 - Fiat: 9947831 - Lucas Indiel: 222503

0926

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Citroën: BX16 - Peugeot: 205 1.6 | 305 1.6 | 306 | 405 1.4 - 1.6 - 1.9l - Renault: R 4F6 | R 5 Alpine e Turbo | R 5 TL, GTL, LS | R11 | R9 | Trafic 1.4 b

## MOTOR

Iskra: AZF3509 | AZF3513 | AZF3515 | AZF3517 | AZF3524 | AZF3528 | AZF3531 | AZF3545 | AZF3547 | AZF3549 | AZF3559 | 11130193 | 11130224 | 11130244 | 11130291 | 11130338 | 11130346 | 11130378 | 11130392 | 11130395 | 11130418

## EQUIVALENTE / Equivalent

Iskra: 922H6 | 16900392 | 16900408 | 16900541 | 16900902 | 16901392 | 16901408

0929

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

KHD: BF4L 1011 | F2L 1011 | F3L 1011 | F4L 1011 - Magirus Deutz: Trator

## MOTOR

Bosch: 0001218172 | 0001218772

## EQUIVALENTE / Equivalent

Bosch: 9002336230 - Lester: 18230

0930

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

TCM Equipment Ag: Série 42 MT 12/24V | Série 50MT 12/24V

## MOTOR

Caterpillar: 4N4405 - Ingersoll Rand: 462361 - Leece Neville: M0017137 | M0017157 | M0017191 - Prestolite: 462361 | MFJ6501 - Remy: 4N4405 | 1113344 - Utms: MFJ6501

## EQUIVALENTE / Equivalent

Facet: 480412 - Lifan: 101BMP2992 - Remy: 1933404 | 1985132 - Utms: DV202750

0931

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Hatz: 1D60 | 1D80

## MOTOR

Bosch: 0001314047 | 0001316012 | 0001316013

## EQUIVALENTE / Equivalent

Bosch: 1006209482 | 1006209914 - Cargo: 137279

0932

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Audi: A3 1.6i, 1.6T - Seat: Cordoba - Volkswagen: Caddy | Golf 2001 | New Beetle | Polo

## MOTOR

Bosch: 0001124003 | 0001124013 | 0001125005 | 0001125006

## EQUIVALENTE / Equivalent

Bosch: 1006209628 | 1006209649 | 1006209758 - Cargo: 137480 - Lucas Indiel: 229979



0933

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Volkswagen: Gol 1000 Mi AP/AT | Gol G2 1.0 MI | Gol G2 1.0 MI 16V | Gol G3 1.0 MI | Gol G3 1.0 MI 16V | Golf | Parati 1997

## MOTOR

Bosch: 9000081010

## EQUIVALENTE / Equivalent

Bosch: 9001081074

0935

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

JPX: Jeep - Peugeot: 306 1.9 Diesel | Boxer | Partner 1.9 Diesel - Renault: Clio Express Diesel | R19

## EQUIVALENTE / Equivalent

Lucas Indiel: 224035

0936

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Peugeot: 405 Diesel | 504 Diesel | 505 Diesel | 604 Diesel

## MOTOR

Paris Rhone: D9R84 | D9R121

## EQUIVALENTE / Equivalent

Lucas Indiel: 224036 - Valeo: NE210 | 182052

0937

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 204

## APLICAÇÃO / Application / Aplicación

Audi: A3 1.9 TDI - Ford: Galaxy 2.0 - Seat: Alhambra 1.9 TDI | Ibiza 1.9 D/TD | Vento Tdi 1.9 - Skoda: Octavia 1.9 TDI - Volkswagen: Beetle 1.9 TDI | Bora 1.9 TDI | Bus/Eurovan 1.9 L | Caravelle 1.9 | Eurovan | Golf 2.0 2001 | Golf G3 1.9 TDI | Multivan | Passat | Polo 1.9 TDI | Sharan 1.9 TDI | Vento TDI 1.9

## MOTOR

Bosch: 0001124001 | 0001124005 | 0001124006 | 0001125001 | 0001125002 | 0001125007 | 0001125008 | 0001125011 | 0001125012 | 0001125013 | 0001125031  
Volkswagen: 02A911023L

## EQUIVALENTE / Equivalent

Bosch: 1006209621 | 1006209648 | 1006209699 | 1006209880 - Cargo: 136854 - Lucas Indiel: 224037

0938

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

## APLICAÇÃO / Application / Aplicación

Ford: Courier 1.4i 16v | Courier Zetec (nacional) 1.6 16V | Fiesta Zetec (nacional) 1.4 16V

## MOTOR

Bosch: 0001107043 | 0001107087 | 0001113010 | 0001113017 - Ford: 96FB11000 | 96FB11000KB | 96FB11000KC | 96FB11000LB | 96FB11000LC

## EQUIVALENTE / Equivalent

Bosch: 1006209629 | 1006209929 - Lucas Indiel: 224038

0940

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

## APLICAÇÃO / Application / Aplicación

Asia Motors: Towner Com Motor Mando

0942

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

## APLICAÇÃO / Application / Aplicación

Volkswagen: Gol AP 1.6 Mi, 1.8 Mi e 2.0 Mi - 8V e 16V 1999 | Gol G2 1.6 Mi | Parati AP 1.6 Mi, 1.8 Mi e 2.0 Mi - 8V e 16V 1999 | Saveiro AP 1.6 Mi, 1.8 Mi e 2.0 Mi - 8V e 16V 1999

## MOTOR

Bosch: F000AL0301

0942

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

EQUIVALENTE / Equivalent

Bosch: F000AL1032 | F000AL1037 | F000AL1882 - Lucas Indiel: 229985

0943

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

APLICAÇÃO / Application / Aplicación

John Deere: 316 Motor B43E 1984...1992 | 318 Motor B43E 1983...1992 | 420 2 Cil. 0.78L 771cc 47cid - B48G 1983...1990 - Onan: Motor B43E 1979...1990 | Motor B43G 1979...1990 | Motor B48G 1979...1990

MOTOR

Onan: 191168202 | 191168203 | 191168205 | 191176002 | 191180803 | 191180805 | 191180806 | 191194903 | 191194905 | 191194906 | 191194909 - Toro: NN10268

EQUIVALENTE / Equivalent

Lester: 17333 - Onan: 1911953

0945

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Corsa - Renault: Clio 1.6 | R11 1.4 | R19 1.6 | R9 1.4

MOTOR

Lucas Indiel: 35258600 | 35258790 - Renault: 7702227059

EQUIVALENTE / Equivalent

Lucas Indiel: 35260290 - Prestollite: 35261035

0946

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

APLICAÇÃO / Application / Aplicación

Isuzu: KBD 27, 41, 47 | Trooper Diesel 2.2 - Jeep: Renegade - Kia: Sportage

MOTOR

Isuzu: 451229 | 455657 | 455674 | TY6615 | 2912559140 | 5811000860 | 5811001660 | 5811001830 | 8941233870 | 8941337583 | 8941492490 | 8941702050 | 8944489590  
Nippondenso: 280000960 | 280004390 | 280005060 | 280006440 | 280007000 | 280007001 | 280007351 | 280007790 | 280007791 | 280009300 | 1280000020 |  
1280000830 | 1280000831 | 1280000832 | 1280000960 | 1280001100 | 1280001110 | 1280002880 | 1280002881 | 1280004660 | 1280004661 | 1280008700 | 2280001890  
Remy: 94123387

EQUIVALENTE / Equivalent

Cargo: 132863 - Isuzu: 5811240030 - Lester: 16739 | 17303 | 17381 - Nippondenso: 0283001840 | 0283001841 | 0283001842

0947

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

APLICAÇÃO / Application / Aplicación

Daihatsu: Rocky F80 - Especial/Special: Motocicletas - JCB: Escavadeira - Mazda: B2200 - Toyota: 2S | 2Y | 2Y 2.2 | 3Y | Camry | Carina | Celica | Corolla |  
Dyna | Hilux | JR 7 | MR 2 | Tercel - ZEN: Utiliza Pinhão ZEN 9186

MOTOR

Daihatsu: 2810072010 - Ishikawjima: 185086240 | 185086340 - Kubota: 1550463011 | 1574163011 - Nippondenso: 280004343 | 280004450 | 280005900 |  
280005912 | 280006001 | 280006120 | 280006332 | 280006362 | 280006450 | 280006930 | 280007321 | 280007392 | 280007560 | 280007620 | 280008050 | 280008060 |  
280008220 | 280008261 | 280008290 | 280008320 | 280008850 | 280009070 | 280009260 | 280009380 | 280009711 | 280009720 | 280009860 | 1280000101 | 1280000220 |  
1280000230 | 1280000500 | 1280000510 | 1280001370 | 1280001440 | 1280001441 | 1280001520 | 1280001630 | 1280002060 | 1280003340 | 1280003350 | 1280003590 |  
1280003670 | 1280003990 | 1280004420 | 1280005261 | 1280005410 | 1280005700 | 1280005780 | 1280005781 | 1280005840 | 1280005850 | 1280007090 | 1280007100 |  
1280007330 | 1280007680 | 1280007690 | 1280007912 | 1280008070 | 1280008080 | 1280008240 | 1280008560 | 2280000311 | 2280000580 | 2280000960 | 2280001100 |  
2280001110 | 2280001710 | 2280002020 | 2280002121 | 2280002300 | 2280002610 | 2280002620 | 2280002682 | 2280002691 | 2280002701 | 2280002760 | 2280002770 |  
2280002851 | 2280002880 | 2280003200 | 2280003290 | 2280004320 | 2280004330 - Toyota: 2810010040 | 2810010060 | 2810013010 | 2810015020 | 2810015040 |  
2810015070 | 2810015130 | 2810015180 | 2810016020 | 2810016080 | 2810016110 | 2810027010 | 2810027030 | 2810027050 | 2810027060 | 2810031010 | 2810034060 |  
2810034080 | 2810034100 | 2810041060 | 2810042040 | 2810042050 | 2810044030 | 2810044050 | 2810045033 | 2810045050 | 2810051031 | 2810060070 | 2810063020 |  
2810063050 | 2810072010 | 2810072020 | 2810072030 | 2810072040 | 2810072050 | 2810072060 | 2810072070 | 2810072090 | 2810072100 | 2810072110 | 2810073010

EQUIVALENTE / Equivalent

Cargo: 132004 - Honda: 31204657617 - Ishikawjima: 185866150 - Isuzu: 8941291870 - Kubota: 1550463041 - Lester: 16248 | 16251 | 16578 | 16586 | 16600 |  
16612 | 16674 | 16735 | 16736 | 16737 | 16759 | 16760 | 16761 | 16786 | 16790 | 16802 | 16821 | 16823 | 16825 | 16826 | 16827 | 16828 | 16829 | 16831 | 16833 | 16834 |  
16837 | 16878 | 16892 | 16895 | 16906 | 16911 | 16913 | 17002 | 17003 | 17027 | 17125 | 17143 | 17171 | 17240 | 17251 | 17256 | 17345 | 17420 | 17422 | 17481 | 17487 |  
17521 | 17530 | 17537 | 18181 | 18182 - Nippondenso: 0283001600 | 0283001601 | 0283001602 | 0283001603 | 0283001790 | 0283001791 | 0283001800 | 0283002000 |  
0283002110 | 0283002111 | 0283002270 | 0283003630 | 0283003631 | 0283004160 | 0283006940 - Toyota: 2801120540 | 2801126041 | 2801126042 | 2801135030 |  
2810110710

0948

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

APLICAÇÃO / Application / Aplicación

Case: EHC - John Deere: Especial/Special

MOTOR

Nippondenso: 128000533 | 128000597 | 128000723 | 228000136 | 228000138 | 228000139 | 228000140

EQUIVALENTE / Equivalent

Lester: 17353 | 17618 | 17624 | 17625 | 17633 | 18272 - Nippondenso: 0283007530

0950

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

APLICAÇÃO / Application / Aplicación

John Deere: Cefeiro Front F911 Kawasaki 22HP | Kawasaki motores pequenos FD620Dv - Vários Modelos | Tratores Cub Cadet Compact 3205 Kawasaki 20HP Gas 1998...1999 | Tratores de Grama 445 Kawasaki 22HP Gas | Turf Vehicle Kawasaki 18HP | Utility Vehicle (UTV) 1800 Golf Kawasaki 18HP | Utility Vehicle (UTV) Gator HPX Kawasaki 20HP

MOTOR

Nippondenso: 1280003540 | 1280009360

EQUIVALENTE / Equivalent

Nippondenso: 0283005720

0951

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

APLICAÇÃO / Application / Aplicación

Suzuki: Corry | Maruti

EQUIVALENTE / Equivalent

Nippondenso: 0283005800 - Suzuki: 3132051A10

0953

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

APLICAÇÃO / Application / Aplicación

Fiat: 1100TN | 217N | 332 | 352 | 615N e 615N1 | 616 | Campagnolo Diesel

MOTOR

Fiat: 852962 | 4104783 - Magneti Marelli: 63223897 | E1154/24

EQUIVALENTE / Equivalent

Fiat: 879898

0954

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

APLICAÇÃO / Application / Aplicación

Toyota: Hilux 2.8

MOTOR

Nippondenso: 2280002120 | 2810054380

EQUIVALENTE / Equivalent

Toyota: 2801154380

0957

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

APLICAÇÃO / Application / Aplicación

Mazda: Especial/Special - Mitsubishi: Canter - Nissan: Especial/Special - Yale: Especial/Special - ZEN: Utiliza Pinhão ZEN 12658 | Utiliza Pinhão ZEN 12659

MOTOR

Mazda: S21118400 | V10118400B - Mitsubishi: M2T54372 | M2T54571 | M2T54572 | M2T56071 | M2T57871 | M2T57881 | M2T60072 | M2T61771 | M2T64372 | M2T64373 | M2T66371 | M2T66872 | M2T66873 | M2T67871 | M2T67872 | M2T67873 | M2T67881 | M2T67882 | M2T67883 | M2T78271 | M3T56471 | M3T57371 | M3T66071 | M3T66072 | M3T66073 | M3T66074 | ME007517 | ME008815 | ME017034 | ME017035 | ME017056 | ME017061 | MG120413

EQUIVALENTE / Equivalent

Mazda: 859924740 - Mitsubishi: ME700121 | 23314T9000 | M357T73171 | M357T76171 | M357T77371 | M605X31971

0958

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Blazer 4.3 V6 - Hyster: Empilhadeira H50xm

## MOTOR

Remy: 9000836 | 9000841 | 9000854 | 9000857 | 9000858 | 9000871 | 9000872 | 9000873 | 9000879 | 9000880 | 9000882 | 9000884 | 9000885 | 24506694

## EQUIVALENTE / Equivalent

Remy: 10492409

0959

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

## APLICAÇÃO / Application / Aplicación

Ford: Expedition 4.6, 5.4 V8 1999 | Lincoln Navigator 5.4 V8 1999 | Pick Up série F 4.2 (V6), 4.6 e 5.4 (V8), 6.8 (V10) 1999

## MOTOR

Ford: F81U11000AC

## EQUIVALENTE / Equivalent

Visteon: STRC019

0960

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 205

## APLICAÇÃO / Application / Aplicación

Lotus: Elise - Rover: 216 | 620 | 820 | 850

## MOTOR

Lucas Indiel: 26692 | 26696 | 26607EJ

## EQUIVALENTE / Equivalent

Cargo: 133295 | 133979 - Lucas: TNB176 | 54292179

0961

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Citroën: BX | Xantia | XM | ZX - Ford: Granada | Sierra | Spornio - Mercedes Benz: E 200 | E 300 - Peugeot: 404 | 405 | 504 2.1, 2.3 diesel | 505 1.6, 1.8, 2.0, 2.3, 2.5 Diesel | 604 | J9

## MOTOR

Paris Rhone: D9R89 | D9R99 | D9R112 | D9R118 | D9R122 | D9R135 - Valeo: D9R89 | D9R99 | D9R112 | D9R118 | D9R119 | D9R135 | D9R149

## EQUIVALENTE / Equivalent

Paris Rhone: 180827 | 184530 - Valeo: NE776 | NE832 | 182176 | 185675 | 186456 | 594042

0962

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Ford: Courier 1.8 diesel | Escort 1.6 diesel | Fiesta 1.6 diesel | Mondeo 1.8 Turbo Diesel | Orion 1.6 diesel

## MOTOR

Bosch: 0001110013 | 0001110019 | 0001110043 | 0001110044 | 0001110051 | 0001110064 | 0001110065 | 0001110088 | 0001110104 | 0001110105

## EQUIVALENTE / Equivalent

Bosch: 1006209560 | 1006209569 | 1006209908 - Lucas Indiel: 224062

0965

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Citroën: C3 - Fiat: 147 1.1 e 1.3 1973...1986 | Duna 60, 70 e Weekend 1986...1990 | Elba 1.0, 1.3, 1.5 SOHC 1985 | Fiorino 1.0, 1.3, 1.5 1985 | Oggi 1.1, 1.3 1973...1986 | Palio 1.0 8V e 16V, 1.3 16V, 1.5 EL Mpi e ELX Mpi, 1.8 - Ford: Courier 1.0L / 1.6L Zetec Rocam | EcoSport 1.0L / 1.6L Zetec Rocam | EcoSport 1.0L Supercharger | Escort 1.6L Zetec Rocam | Fiesta 1.0L / 1.6L / Zetec Rocam 1999 | Ka 1.0L / 1.6L Zetec Rocam | Novo Fiesta 1.0L / 1.6L Zetec Rocam | Novo Fiesta 1.0L Supercharger - Nissan: March 1.0 16V - Peugeot: 106 | 206 1.0 16V / 1.4 / 1.6 / 1.6 16V | 207 - Renault: Clio | Clio 1.0 / 1.0 16V / 1.6 16V | Kangoo 1.0 / 1.0 16V / 1.2 / 1.6 16V | Logan 1.0 16V | Twingo 1.0 / 1.2

## MOTOR

Ford: 3S6511000AA | 3S6511000CA - Valeo: D7E1 | D7E5 | D7E16 | D7E23 | D7E24 | D7E35 | D7E37 | D7E39 | D7E52

0965

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## EQUIVALENTE / Equivalent

Lucas Indiel: 229989 - Valeo: 060527 | 080327 | NE949 | 100327 | 187336 | 187863 | 187996 | 188251 | 220527 | 250527 | 260412 | 290212 | 290327 | 492828 | 494828 | 494832 | 594287

0969

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

BMW: 318i | 324D | 524D

## MOTOR

Magnetit Marelli: 63111000 | 63223435 | 63223639

0970

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Case: Cefeiras 6000 e 6500 W Motor NCE 4-390 | Escavadeira 1088 | Retroescavadeira Cummins | Trator 5100 1987...1992 - Cummins: Motores

## MOTOR

Bosch: 0001367072 | 0001368069 | 0001368083 | 0001369007 | 0001369019 | 0001369025 - Case: A181642 | A187597 | 114799A1 | P941519Q - Cummins: 3283312 | 3283812

## EQUIVALENTE / Equivalent

Bosch: 2006209458 | 2006209543

0972

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Seat: Especial/Special - Volkswagen: Golf | Passat 1.9 Diesel | Polo

## MOTOR

Bosch: 0001124011 | 0001125003 | 0001125039

## EQUIVALENTE / Equivalent

Bosch: 1006209643 | 1006209759 - Lucas Indiel: 224072

0975

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Ford: Escort 1.8 EFI ...08/1995 | Fiesta 0.9 e 1.0 1996

## MOTOR

Ford: 95FB11000BC | 95FB11000BD | 95FB11000BG - Magnetit Marelli: 63223538 | 63293538

## EQUIVALENTE / Equivalent

Ford: F5BU11350AA - Lucas: 54294813 - Lucas Indiel: 224075

0976

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Citroën: Ax | Berlingo | C3 1.1i, 1.4i, 1.6 16V | Saxo 1.0, 1.4 | Xsara 1.4i 07/1997...08/2000 | Xsara Picasso 2.0 16V. | ZX 1.0, 1.4 - Fiat: Doblo 1.6 16V | Palio Fire 2001 | Palio Weekend 1.6 16V Fire 2001 | Palio Weekend Adventur 1.6 16V Fire 2001 | Siena 1.6 MPI 16V | Strada 2003 - Mercedes Benz: C 240 | C 280 | C 280 T - Modell | CLK 320 Coupe - Peugeot: 106 | 205 | 206 | 306 | 405 1.6 | Boxer | Partner Furgonato 1.1, 1.4 | Partner Van, Limousine - Renault: Megane 2.0 16V

## MOTOR

Bosch: 0001106011 | 0001106014 | 0001106015 | 0001107047 | 0001107063 | 0001107077 | 0001107091 | 0001107098 | 0001108171 | 0001108176 | 0001108184 | 0001112007 | 0001112019 | 0001112041 | 0001112044 | 0001115006 | 0001116003

## EQUIVALENTE / Equivalent

Bosch: 1006209624 | 1006209633 | 1006209692 | 1006209696 | 1006209706 | 1006209715 | 1006209944 | 9008045049 | F000AL1324 | F000AL1683 - Lucas Indiel: 224076

0977

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Mercury Marine: Mercury Cruiser Marine

0977

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## MOTOR

Remy: 1109359 | 1109360

## EQUIVALENTE / Equivalent

Lester: 3277 | 3366 | 4235 | 4236 | 4270 | 4271 | 6736 | 6738 - Remy: 1937554 | 1974655

0978

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: D20 03/1992... | D6000 03/1992... | GMC 6100 Maxion 4 Cil. 2001 | Silverado Maxion S4 Diesel - Massey Ferguson: 265 04/1976... - Perkins: Maxion

## MOTOR

Lucas Indiel: 35258540 | 35258710

## EQUIVALENTE / Equivalent

Lucas Indiel: 220310 | 224078 | 229027 | 35259027 | 35260310 | 35260810

0981

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

BRP: GTX

## MOTOR

Johnson Electric: 420890632

## EQUIVALENTE / Equivalent

Johnson Electric: 420888994 | 10328720DV30SM

0983

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Peugeot: 504 | 505 diesel XD2

## MOTOR

Lucas Indiel: 35258690

## EQUIVALENTE / Equivalent

Lucas Indiel: 35259037 | 35260590

0985

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Fiat Allis: Pá Carregadeira FR128 | Trator de Esteira 7D - Mercedes Benz: 915 c Accelo | Axor 1933 | Caminhão 1418L, 1718, 1725, 2423, 2428 | Caminhão 712C, 715, 714C, ,1418 EL | Caminhão 915C,1215,1218EL,1218L | Caminhão e Ônibus Eletrônicos C/ Motor OM904, OM906, OM924, OM926 | Especial/Special | Família Atego 1315,1418,1518,1718,1725,2425 24V OM 904,OM 906,OM 924 e OM 926 | Família Atego L1318,2423B,2423K,L1620 Chassi de ônibus 24V OM 904,OM 906,OM 924 e OM 926 | Família Atego LO 914,0500M,0500U,0500R,OF 1417,OF1418,OF 1518,OF 1721,OF 1722 24V OM 904,OM 906,OM 924 e OM 926 - TCM Equipment Ag: Série 28MT 12/24V C/ Motor OM904, OM906, OM924, OM926

## MOTOR

Mercedes Benz: A0051512201 | A0051517601 - Remy: 10479626 | 10479650 | 10479654

## EQUIVALENTE / Equivalent

Remy: 10457362 | 10457368 | 10503933

0989

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Volkswagen: Kombi Refrigerada a água

## MOTOR

Bosch: F000AL0306

## EQUIVALENTE / Equivalent

Bosch: F000AL1152 | F000AL1707

0990

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Fiat: Duna - Ford: Escort L Zetec | Focus | Mondeo 1.8 e 2.0

## MOTOR

Lucas Indiel: 35258760 | 35258850 | 35261250

## EQUIVALENTE / Equivalent

Lucas Indiel: 220625 | 224090 | 35260625

0991

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 206

## APLICAÇÃO / Application / Aplicación

Agrale: Micro Ônibus Volare (Marcopolo) MWM 407 TCA 10/1998... - Ford: F250 MWM - General Motors/Chevrolet: Silverado MWM Diesel - MWM: Motor 06CL Sprint (GM Silverado)

## MOTOR

Lucas Indiel: 35258580 | 35258910 | 35261305 - Prestolite: 35259890

## EQUIVALENTE / Equivalent

Lucas Indiel: 224091 | 229033 | 35259033 | 35260500

0996

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

## APLICAÇÃO / Application / Aplicación

Yale: Empilhadeira

0997

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

## APLICAÇÃO / Application / Aplicación

BMW: 316, 318, 325 série E36 | 728 série E38 | BMW série 5 e série E34 - E36 Todos os tipos exceto diesel

## MOTOR

Bosch: 0001107062 | 0001108157 | 0001108169

## EQUIVALENTE / Equivalent

Bosch: 1006209634 | 1006209660 | 1006209779 | 1006209792 - Lucas Indiel: 224097

0998

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

## APLICAÇÃO / Application / Aplicación

Fiat: Brava 1.8 HGT | Marea 1.8 MPI 16V | Marea 2.0 20v | Marea 2.0 MPI 20v Turbo | Marea 2.4 20v | Marea Turbo | Marea Weekend 1.8 MPI 16V | Marea Weekend 2.0 MPI 20V Turbo - Toyota: Corolla 2000 | Fielder 2010... | Hilux 2.7 2010...

## MOTOR

Bosch: 0001107030 | 0001107066 | 0001107078 | 0001107079 | 0001108181 | F000AL0102 | F000AL0110 | F00MAL0110 - Fiat: 46468696 - Toyota: 281000C060

## EQUIVALENTE / Equivalent

Bosch: 1006209607 | 1006209675 | F000AL1200 | F000AL1250 | F000AL1695 - Fiat: 9947838 - Lucas Indiel: 224098

0999

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

## APLICAÇÃO / Application / Aplicación

Fiat: Palio 1.6 | Palio Weekend | Siena 16V 1.6 | Strada

## MOTOR

Magnetit Marelli: 63103007 | 63103008

## EQUIVALENTE / Equivalent

Lucas Indiel: 224099

1001

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

## APLICAÇÃO / Application / Aplicación

BMW: D35 1.4 11/1979...07/1987 | D50 2.1 11/1979...07/1987

## MOTOR

Bosch: 0001366026

**1001**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

EQUIVALENTE / Equivalent

Bosch: 2006209486

**1002**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

KHD: BF4L 1011 2.7 jun/89 | F2L 1011 1.4 jun/89 | F3L 1011 2.0 jun/89 | F4L 1011 2.7 jun/89

MOTOR

Bosch: 0001368077

EQUIVALENTE / Equivalent

Bosch: 2006209461

**1003**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

Saab: Marine 2G 1.6L 1977...1983 | Marine 2GRG 1.6L 1977...1983 | Marine 2J 1.9L 1977...1988 | Marine 2JRG 1.9L 1977...1985 | Marine G 0.8L 1977...1979 | Marine GA 0.8L 1961...1979 | Marine GAG 0.9L 1961...1979

MOTOR

Bosch: 0001362085 | 0001362094 | 0001362099

EQUIVALENTE / Equivalent

Bosch: 2006209433 - Lucas Indiel: 220406

**1004**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

Lamborghini: Diablo 5.7

MOTOR

Bosch: 0001362104

EQUIVALENTE / Equivalent

Bosch: 2006209429 | 2006209490

**1005**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

Agría: 4900 - Carraro: Super Tigre 625

MOTOR

Bosch: 0001362094 | 0001366005 | 0001366006 | 0001366013 | 9000143204

EQUIVALENTE / Equivalent

Bosch: 2006209488

**1011**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

Nissan: Micra

EQUIVALENTE / Equivalent

Bosch: 1006209932

**1013**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

TCM Equipment Ag: 37 MT Séries DD Starters

**1016**IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

Hitachi: Maxima | Tsuru Altima



1016

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

EQUIVALENTE / Equivalent

Hitachi: 211445016 - Nissan: 2331231U00

1017

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

Audi: A3 2002 - Infiniti: I30 3.0 - Nissan: Maxima II 2.0 - 3.0 V6 24V | Maxima III QX 2.0 - 3.0 - Volkswagen: Bora 1.8 T | Bora 2.3 V5 4 Motion | Golf IV 1.8 GTI Turbo | Golf IV 2.8 V6 | Sharan 1.8 T 20V

MOTOR

Hitachi: S114875 | S114801B | S114801C - Nissan: 2330031U02

EQUIVALENTE / Equivalent

Hitachi: 211445100 - Nissan: 2331231U01

1018

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

Nissan: Almera e Sunny - Subaru: Forester 2.0 | Impreza 1.6, 1.8, 2.0 2WD e 4WD | Justy 1.0 | Legacy 2.0, 2.2 e 2.5

MOTOR

Mitsubishi: MOT80285 | M1T77181

EQUIVALENTE / Equivalent

Mitsubishi: M191T16771 | M191T16971 | M191X16771 | M191X16971 - Nissan: 23312AA050

1019

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

Mercury: Van Villager 6 cil. 3.0L 182cid 1993...1998 - Nissan: Van Quest 6 cil. 3.0L 2960cc 181cid 1993...1998

EQUIVALENTE / Equivalent

Ford: F4XY11350B - Motorcraft: SDE354 - Nissan: 233540B710

1020

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 207

APLICAÇÃO / Application / Aplicación

Nissan: 200 SX | Sentra

MOTOR

Hitachi: S114750 | S114800 | S114816 | S114766A | S114775A

EQUIVALENTE / Equivalent

Hitachi: 211415016 - Nissan: 2331250Y01

1021

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

APLICAÇÃO / Application / Aplicación

Nissan: Altima L4 2.4L 2389cc 1993...1997

MOTOR

Hitachi: S114754 | S114754A - Nissan: 233001E400 | 233001E400R

EQUIVALENTE / Equivalent

Nissan: 233121E400

1022

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

APLICAÇÃO / Application / Aplicación

Agrale: Micro Ônibus Volare (Marcopolo) MWM 407 TCA 10/1998... - Fiat: Ducato - Ford: F250 MWM | F350 - General Motors/Chevrolet: Silverado MWM - MWM: F250 Motor 6.07TCA 03/1999... - Peugeot: Boxer 2.8 HDI

MOTOR

Bosch: 0001223010 | 0001223013

EQUIVALENTE / Equivalent

Bosch: 6033AD0270 | 6033AD0414

1023

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Citroën: Berlingo 1.8 D, 1.9 D e 2.0 HDi - Fiat: Scudo TD - JPX: Jeep - Mercedes Benz: Sprinter - Peugeot: 405 Diesel | Partner - Renault: Clio D | Express D | Megane D | R 19 D | R 21 D - Volvo: Volvo 400 TD | Volvo 460 TD

## MOTOR

Mercedes Benz: 0051511301 - Valeo: D7R5 | D7R8 | D7R9 | D7R12 | D7R13 | D7R16 | D7R18 | D7R20 | D7R25 | D7R26 | D7R27 | D7R40 | D7R43 | D7R46 | D7R49 | D8R27 | D8R49 | D7RE46

## EQUIVALENTE / Equivalent

Lucas Indiel: 220407 - Valeo: NE834 | 185915 | 584135 | 584185 | 594185

1024

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Citroën: XM 2.5 TD - Fiat: 127 | Panda 30 - 45 | Ritmo 60 | Uno 45 - Ford: Ranger 2.5 TD - Hyundai: HR - Mazda: B2500D - Mitsubishi: 4D56 | L200 2.5 D 4WD | L300 2.5 D e TD 4X4 | Pajero 2.5 td | Space Gear 2.5 d

## MOTOR

Mitsubishi: M2T80582 | M2T84071 | M2T84171 | M2T84571 | M2T87071 | M2T87171 | M2T87271 | M2T87471 | M2T87871 | MD315548 | M002T87071

## EQUIVALENTE / Equivalent

Cargo: 139541 - Lucas Indiel: 220408 - Mitsubishi: MD312858 | MD618963 | M191T15071 | M191T68071 | M191X68071

1025

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Fiat Iveco: Ducato 719 2.8 | Ducato 720 2.8 | Ducato 721 2.8 | Ducato 722 2.8 | Ducato 723 2.8 | Ducato 724 2.8 | Ducato 725 2.8 | Ducato 726 2.8 | Ducato 729 2.8  
Peugeot: Boxer

## MOTOR

Fiat: 131955508 - Magneti Marelli: 63114014

## EQUIVALENTE / Equivalent

Fiat: 9948135

1026

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Ford: F350 Cummins - Mitsubishi: Especial/Special

## MOTOR

Bosch: 0001223500

## EQUIVALENTE / Equivalent

Bosch: 6033AD0091 | 6033ADO091 - Lucas Indiel: 229983

1027

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Ford: F250 Cummins | F4000 Cummins

## MOTOR

Bosch: 0001223505 | 0001223555

## EQUIVALENTE / Equivalent

Bosch: 6033AD0284 | 6033ADO284 | 9033ADO284 - Lucas Indiel: 229984

1030

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Citroën: XM 2.1 diesel | XM 2.1 turbo diesel - Suzuki: Vitara - Yanmar: Micro trator

## MOTOR

Bosch: 0001109026

## EQUIVALENTE / Equivalent

Bosch: 1006209646

1031

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Citroën: Berlingo 1.8, 1.8 d | Evasion 1.8, 2.0, 2.0 turbo | Jumper 2.0 | Picasso 1.8 16V | Xantia 1.6, 1.8 8V/16V, 2.0 8V/16V, 2.0 CT turbo, 2.0 HDI | XM 2.0 CT Turbo, 2.0,i | Xsara 1.8, 1.8 16V, 2.0 16V, 2.0 16V VTS | ZX 1.6, 1.8 16V, 1.9, 2.0i - Fiat: Ulysse 1.8/2.0 - Lancia: Z (Zeta) 2.0 16V, 2.0ie, Turbo - Mercedes Benz: 280E | 320E | C280 | Classe A 160 CDI e 170 CDI | E 250D Turbo (210) BG, GR, H, I, IS, HR, P, SLO, TR | E 250DT (210) i | E 259D Turbo (210) | E280 | E300 | E320 | S280 | S321 | Sprinter 208D | Sprinter 210D | Sprinter 212D | Sprinter 308 D | Sprinter 312 D | Sprinter 408D | Sprinter 410 D | Sprinter 412D | Vario 812 D | Vito 108 D | Vito 110 D  
Peugeot: 306 1.8/2.0 | 405 1.6 GL, 1.8i, 1.9 GR,SRI, 2.0i | 406 1.6/1.8 16V/2.0 16V/2.0 Turbo | 605 2.0 | 806 2.0 | 806 2.0 turbo | Boxer 2.0 | Expert 1.8 | Partner 1.8  
Renault: Clio 1.9 Diesel | Megane 1.9 d | R 19 1.9 d | Safrane 2.2i

## MOTOR

Bosch: 0001108183 | 0001108217 | 0001108218 | 0001109014 | 0001109036 | 0001109250 | 0001110112 | 0001115001 | 0001115008

## EQUIVALENTE / Equivalent

Bosch: 1006209631 | 1006209635 | 1006209678 - Lucas Indiel: 220409

1033

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: Alfa 145 1998... | Alfa 146 1.9 JTD 1998... | Alfa 147 1.9 JTD 2000... | Alfa 156 1.9 JTD 1997...2000 - BMW: 324 1996... | 325 1996... | 525 1996... | 725 TDS 12V 1996... - Fiat: Brava 1.9 JTD 1997...1998 | Doblo 1.9 2000... | Marea 1.9 1996... | Multipla | Punto 2001... | Stilo 2001... - Lancia: Lybra - Opel: Frontera 2.5 1996... | Omega 2.5 TD, 2.5 XTD

## MOTOR

Bosch: 0001109025 | 0001109030 | 0001109033 | 0001109035 - Fiat: 46473784

## EQUIVALENTE / Equivalent

Bosch: 1006209645

1036

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Tigershark: Jet Ski Mod. 770 Twin, 900, 1000 e 1100

## MOTOR

Tigershark: 3008093 | 3008327 | 3008536

1037

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Citroën: Berlingo 1.8, 1.8 d | Evasion 1.8, 2.0, 2.0 turbo | Jumper 2.0 | Picasso 1.8 16V, ZX 1.6, 1.8 16V, 1.9, 2.0i | Xantia 1.6, 1.8 8V/16V, 2.0 8V/16V, 2.0 CT turbo, 2.0 HDI | XM 2.0 CT Turbo, 2.0,i | Xsara 1.8, 1.8 16V, 2.0 16V, 2.0 16V VTS - Mercedes Benz: 406 1.6/1.8 16V/2.0 16V/2.0 Turbo | Classe A 160 CDI e 170 CDI | E 250D Turbo (210) BG, GR, H, I, IS, HR, P, SLO, TR | E 250DT (210) i | E 259D Turbo (210) | Sprinter 208D | Sprinter 210D | Sprinter 212D | Sprinter 308 D | Sprinter 312 D | Sprinter 408D | Sprinter 410 D | Sprinter 412D - Peugeot: 306 1.8/2.0 | 405 1.6 GL, 1.8i, 1.9 GR,SRI, 2.0i | 605 2.0 | 806 2.0, 2.0 turbo | Boxer 2.0 | Expert 1.8 | Partner 1.8 - Renault: Clio 1.9 Diesel | Megane 1.9 d | R 19 1.9 d | Safrane 2.2i - Ssangyong: Especial/Special

## MOTOR

Bosch: 0001108183 | 0001108217 | 0001108218 | 0001109014 | 0001109036 | 0001110112 | 0001115001 | 0001115008

## EQUIVALENTE / Equivalent

Bosch: F005M10053

1038

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 1215 C | 712 C | 817-1517 1996... | 914 2000 | 915 | Atego 1998... | Axor 1998... | Citaro 1998... | Econic 1998... | L1218 | L1418 | L1618 M | L1622 | L2423 - New Holland: Trator

## MOTOR

Bosch: 0001230001 | 0001230006 | 0001230012 | 0001230013 | 0001231002 | 0001231003 | 0001231005 | 0001231018 | 0001231033

## EQUIVALENTE / Equivalent

Bosch: 6033AD0442 | 6033AD0462 | 6033AD3006 | 6033AD3108 | 6033AD3244 | 6033AD3850 | 6033AD4034 | 6033AD4118 | 6033AD4148 | 6033ADO462 | 9002336236  
Cargo: 139056 - KHD: 01319755 | 01319806 - Mercedes Benz: 0011511813 | 0011513213

1042

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Marine Electric: Especial/Special

1043

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Fiat Iveco: Engines BF4L1011 2.7L - 2732cc 1995...2003 | Engines F2L1011 1.4L - 1366cc 1996...2004 | Engines F3L1011 2.0L - 2049cc 1996...2002 | Engines F3L1011 2.0L - 2049cc 2003...2004 | Engines F4L1011 2.7L - 2732cc 1996...2004 - ZEN: Utiliza Pinhão ZEN 9495

## MOTOR

Mitsubishi: M1T50471 | M2T50181 | M2T50481 | M2T50485 | M2T52181 | M2T52681 | M2T52881 | M2T52882 | M2T53083 | M2T53181 | M2T53781 | M2T53785 | M2T54085 | M2T58581 | MD099673 | MM115518 - Nissan: 2330018C70 | 23300H9112 | 23300N5911 | 23300W1011 | 23300W7011

## EQUIVALENTE / Equivalent

Citroën: 95562677 - Mitsubishi: MD607540 | MM502531 | M357T70171 | M357T70771 | M357T707971 - Nissan: 23354N5912

1046

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 208

## APLICAÇÃO / Application / Aplicación

Mitsubishi: E2500 Diesel XA | E3000 | Fuso Canter 20, 30, 35, 4d31T 1987 | Fuso Canter 3600, 33, 4D30, 31, 32 1998 | Fuso Canter 4DRS 1984 ...1988 | Light Bus HÁ | Wheel Loader S4E - Nissan: Fork Lifts - ZEN: Utiliza pinhão ZEN 12812

## MOTOR

Mitsubishi: 232415 | M2T55271 | M2T56471 | M2T56472 | M2T57881 | M2T61771 | M2T65271 | M2T65272 | M2T67881 | M2T67882 | M2T67883 | M2T69081 | M2T72871 | M2T74371 | M2T78381 | M2T78481 | M2T78482

## EQUIVALENTE / Equivalent

Mitsubishi: ME700972 | M357T72671 | M357T72672 | M357X72672 | M357X85273

1047

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Mitsubishi: L200 1997 | Pajero 2.3TD e 2.5 TD - ZEN: Utiliza pinhão ZEN 12812

## MOTOR

Mitsubishi: M2T56181 | M2T56182 | M2T56185 | M2T56271 | M2T57771 | M2T74171 | MD069166 | MD070934 | MD084414 | MD164975 | MD164976

## EQUIVALENTE / Equivalent

Mitsubishi: 75571 | MD607791 | M357T75571

1048

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Daewoo: Tico - General Motors/Chevrolet: Spark - Kia: Rio fev/05 | Spectra 1.6

## MOTOR

Daewoo: 31100A78B00

## EQUIVALENTE / Equivalent

Daewoo: 93740994 | 3120A78B00 - Kia: 361392X000

1054

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Kia: Pride

## MOTOR

Mitsubishi: MB30118X45

1056

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Autobianchi: Especial/Special - Citroën: Especial/Special - Fiat: Especial/Special - Lancia: Especial/Special - Opel: Especial/Special - Peugeot: Especial/Special - Renault: Especial/Special - Seat: Especial/Special - Talbot: Especial/Special - Vauxhall: Especial/Special - Volvo: Especial/Special - Zastava: Especial/Special

1056

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## MOTOR

Iskra: 11130029 | 11130102 | 11130162 | 11130166 | 11130217 | 11130218 | 11130219 | 11130234 | 11130266

## EQUIVALENTE / Equivalent

Iskra: 16900089

1057

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: C 200 2.0, 55KW - Diesel 03/1993...08/1995 | C 200 2.0, 65KW - Diesel 09/1996... | C 200 T 2.2, 70KW - Diesel 05/1996... | C 220 2.2, 70KW - Diesel 08/1993... | C 250 turbo 2.5, 110KW - Diesel 09/1995... | E 200 2.0, 65KW - Diesel 03/1997... | E 220 2.2, 70KW - Diesel 06/1995... | E 250 2.5, 83KW - Diesel 06/1995... | E 250 T 2.5, 83KW - Diesel 05/1996... | E 290 turbo T 2.9, 95KW - Diesel 05/1996... | E 290 turbo 2.9, 95KW - Diesel 01/1996... | Sprinter 208 2.3, 58/60KW - Diesel 02/1995... | Sprinter 210 2.9, 75KW - Diesel 01/1997... | Sprinter 212 2.9, 90KW - Diesel 02/1995... | Sprinter 308 2.3, 58KW - Diesel 02/1995... | Sprinter 310 2.9, 75KW - Diesel 01/1997... | Sprinter 312 2.9, 90KW - Diesel 02/1995... | Sprinter 408 2.3, 58KW - Diesel 02/1995... | Sprinter 410 2.9, 75KW - Diesel 01/1997... | Sprinter 412 2.9, 90KW - Diesel 02/1995... | V 230 TD 2.3, 72KW - Diesel 04/1996... | Vario 512 2.9, 90KW - Diesel 09/1996... | Vario 612 2.9, 90KW - Diesel 09/1996... | Vario O 812 2.9, 90KW - Diesel 09/1996...

## MOTOR

Bosch: 0001109014

## EQUIVALENTE / Equivalent

Bosch: 1006209642

1058

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Renault: Clio 1.0 8v | Clio 1.6i | Clio II 1.9 Diesel | Kangoo 1.9 Diesel - 48KW 10/1997... | Megane 1.9 Diesel | R19 1.9 Diesel | Trafic 1.9 Diesel - 47/48KW 11/1997...

## MOTOR

Bosch: 0001108180 | 0001108182 | 0001108186

## EQUIVALENTE / Equivalent

Bosch: 1006209671

1059

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Aifo: 8361 05.500 160PS 8,1L 1980...1983 | 8361 25.500 175PS 8,1L 1980...1983 - Astra: BM 201 OM-8360.05.200 8.0L 1980... | BM 201 OM-8360.05.300 8.0L 1979... | BM 44D12R OM-8360.05.200 8.1L 1991... - Benfra: 10 CH Motor Aifo-8361/000 8.1L 1982...1983 | 10 CH Motor Aifo-8361/01 8.1L 1984...1985 | 9.11 Motor Aifo-8361S/000 8.1L 1985...1987 | 9.11 Motor Aifo-8361S/10.00 5.9L 1988...1991 | 9.12 Motor Aifo-8361S/10.00 5.9L 1990... | 9.32 Motor Aifo-8361S/10.00 5.9L 1990... - Fiat: 110 NC OM-8360.04.200 6.9L 1978...1981 | 129.16 8360.05.B 8.1L 1979...1982 | 130 CP3 7.4L 1979...1982 | 130 NC OM-8360.04.300 6.9L 1978...1984 | 130 NC,NR,NT20 8220.02 9.6L 1979...1980 | 130 NC14, NT14 OM-8360.04.200 6.9L 1978...1984 | 150 NC,NT20 8220.02 9.6L 1976...1980 | 150 NC17 OM-8360.03 8.1L 1976...1979 | 159 17 OM-8360.05.254 8.1L 1977...1982 | 160 26 8210.02.020 13,8L 1980...1982 | 50 F10 OM-8340.04.250 4,6L 1978...1982 | 540 DT 8035.02.302 2,6L 1972...1978 | 55 F9 8340.04. 4,6L 1977...1979 | 60 F10 OM-8340.04.250 4,6L 1979...1982 | 65 F10 OM-8340.04.200 4,6L 1978...1980 | 70 F10 8340.04.250 4,6L 1978...1980 | 75 F10 8340.04 4,6L 1978...1980 | 79 F10 OM-8340.04.200, 250 4,6L 1979...1982 - Fiat Allis: 645 B 8361.05.500 8.1L 1980...1982 - Valmet: Trator

## MOTOR

Iskra: 11130124 | 11130322

1060

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Valmet: Valtra

## MOTOR

Iskra: 11130076 | 11130200 | 11130373

## EQUIVALENTE / Equivalent

Cargo: 2665 - Iskra: 16900151

1062

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Nissan: Primera Berlina 2.0 P10

1062

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## MOTOR

Lucas Indiel: 26813 | 26834 | 26841 - Magneti Marelli: 63226834 | 63226845 | 63226846 - Nissan: 2330070J10 | 2330070J11 | 2330070J12

## EQUIVALENTE / Equivalent

Nissan: 2331293J00

1063

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Agrale: Micro Onibus Volare - General Motors/Chevrolet: S10 MWM Diesel - Renault: Master - Troller: T4 MWM 2000...

## MOTOR

Mitsubishi: M002T87671 | M002T87771 | M002T88771ZA

## EQUIVALENTE / Equivalent

Mitsubishi: 68971 | 93971 | M191T93971

1064

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Dacia: Logan 1.4 - 1.6 - 16V - General Motors/Chevrolet: Celta 1.0 | Novo Corsa - Renault: Clio 1.6 16v | Megane 1.4i - 1.6i - 16V | Scenic 2.0 16V 2003

## MOTOR

General Motors/Chevrolet: 93260358 - Valeo: D7E10 | D7E11 | D7E19 | D7E22 | D7E27 | D7E47 | D7E48 | BD7E10

## EQUIVALENTE / Equivalent

General Motors/Chevrolet: 93297293 - Valeo: 090800 | 188440 | 494830 | SS260300

1065

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Agrale: Especial/Special - Goldoni: Transcar 23 - Lombardini: 10 LD 400.2 - Mosa: Especial/Special - Rugggerini: RD 210-211-218 - VM: DM 188

## MOTOR

Bosch: 0001107058 | 0001108050 | 0001109028 | 0001110018 | 0001312108 | 0001312109

## EQUIVALENTE / Equivalent

Bosch: 1006209542 | 1006209550 - Cargo: 232481

1067

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Audi: 80 D 1.6L | 80 TD 1.9 | 90 1.9 D | A4 - Avant - Quattro 1.9TDI | A6 - Avant 1.9 TDI - Volkswagen: Passat 1.9 TDI | Variant 1.9 TDI

## MOTOR

Bosch: 0001110066 | 0001110067

## EQUIVALENTE / Equivalent

Bosch: 1006209581 - Cargo: 135715 - Volkswagen: 068911335F

1068

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Lada: Especial/Special

1069

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Audi: A3 1.6, 1.8 e 1.8 Turbo - Seat: Alhambra 2.0 | Cordoba 1.6 | Ibiza Cupra / Sport 1.8 20V turbo | Vario 1.6 - Volkswagen: Beetle 2.0 | Fox 2003 | Golf 1.8 | Golf 2.0 | Golf 4 Motion 1.8 | Golf G4 GTI Turbo 1.8 | Golf G4 Variant 2.0 | Polo 1.0 16V | Polo 1.6 | Polo 2.0

## MOTOR

Bosch: 0001121008 | 0001121009 | 0001121016 | 0001121018 - Volkswagen: 02T911023E

## EQUIVALENTE / Equivalent

Bosch: 1006209680 | F000AL1100 - Lucas Indiel: 220414

1070

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 209

## APLICAÇÃO / Application / Aplicación

Fiat: Ducato - Ford: Maverick 2.7 D 1993...1998 - Nissan: Especial/Special

## MOTOR

Bosch: 9000331201 | 9000331203

## EQUIVALENTE / Equivalent

Bosch: 9002336219 - Lucas Indiel: 220415

1071

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 124 - Still: Especial/Special - Styer Puch: Especial/Special

## MOTOR

Bosch: 0001218162 | 0001218165

## EQUIVALENTE / Equivalent

Bosch: 9002336223

1072

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Citroën: Jumper 2.5 D-TD - Fiat: Ducato 2.5 TD - Peugeot: 605TD | Boxer 2.5 - TD

## MOTOR

Bosch: 0001218157 | 9000331414

## EQUIVALENTE / Equivalent

Bosch: 9002336224 | 9002336287 - Lucas Indiel: 220416

1073

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Agrale: 5000D | 6150 | 7000D | 7500 TD | BX100 | BX130 | BX4.100 | BX4.110 | BX4.130 | BX4.150 | BX4.90 - Case: 80 CR / 80 P - CBT: 8440 - Claas: Consul 3.8 | Dominator 5.7 | Mercator 5.7 - Fiat Allis: FB 80 - Lamborghini: Especial/Special - Mercedes Benz: 10 T 1013 | 1000 | 1013A | 1013S | 1017 | 11 T L1113B | 1100 | 12 T 1213 | 1217 | 1250 | 1300 Turbo | 1350 | 13T 1313 | 14 T 1413 | 1400 Turbo | 1417 | 1450 | 1500 | 1550 | 15T 1513 | 16 T 1613 | 1600 Turbo | 1617 | 1650 | 1700 | 1750 | 18 T 1819 | 2100 | 2150 | 54403 | 6 T 608 | 66403 | 7 T 709 | 72403 | 8 T 808 | 80406 | 809 | 813 | 9 T 911 | 90416 | 913 | 95424 | L508D | L608D | LKO1113B | LP1013 | LP1113 | LPK1113 | LPS1113B | O 309 | OF1113 - Puma: 914 4.0 - Same: Especial/Special - SLC: 7700 Turbo

Valmet: 110 225-6 5.7 | 118 D229-6 5.9 | 118 PID A 229-6 TV Alc. 5.9 | 128 4X4 D 229-6 VS | 128 4X4 PID A 229-6 Alcool | 128 D229-6 VS 5.9 | Valtra 785

Volkswagen: 11130 | 13130 | 6.90 | 7.90 | 7110

## MOTOR

Iskra: AZJ3118 | AZJ3548 | 11130229 | 11130254 | 11130407 | 11130409 | 11130412 | 11130484 | 11130491 | 11130823 | 11130824

## EQUIVALENTE / Equivalent

Iskra: 16901658

1074

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Citroën: Xsara Zx D - Peugeot: 106D - Rover: Especial/Special

## MOTOR

Valeo: D7R1 | D7R2 | D7R3 | D7R4 | D7R11 | D7R15 | D7R24 | D7R33

## EQUIVALENTE / Equivalent

Valeo: NE831 | 185290 | 188256 | 594136

1076

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Agrale: 2229-4 Mueller Vibro RT 62 , 83 Com Motor MWM 229-4 | MWM D 229-3, D 229-4, D 229-6, TBD 229-EC-6, TD 229-6 | Série 1800-D / TX 1600 Com Motor MWM 229-3 - Bautz: Especial/Special - Carraro: Especial/Special - Eicher: Especial/Special - Fendt: Especial/Special - Lamborghini: Especial/Special - Lombardini: Especial/Special - Mercedes Benz: Especial/Special - SLC: D 229-3, D 229-4, D 229-6, TBD 229-EC-6, TD 229-6 - Valmet: 110ID Com Motor MWM D 225-3, 4, 6 | 62ID Com Motor MWM D 225-3, 4, 6 | 65ID Com Motor MWM D 225-3, 4, 6 | 685 Com Motor MWM D 225-3, 4, 6 | 85ID Com Motor MWM D 225-3, 4, 6

1076

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## MOTOR

Bosch: 0001354006 | 0001354012 | 0001354021 | 0001354025 | 0001354041 | 0001354048 | 0001354055 | 0001354068 | 0001354085 | 0001354087 | 0001355009 | 9000083015

## EQUIVALENTE / Equivalent

Bosch: 2006208011 | 2006209022 | 2006209030 | 2006209183 | 2006209900 | 9001083444

1081

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Ford: Heavy Duty F250 / F350 Series | LT Trucks E-Series Vans 7.3 L - Diesel | LT Trucks Excursion 7.3 L - Diesel

## MOTOR

Visteon: 1C3U11000AA | 1C3U11000AB | 1C3U11000AC | 1C3U11000AD | 1C3U11000AE | 1C3Z11002AA | 2C2411000AA

## EQUIVALENTE / Equivalent

Visteon: 1C3U11350AB

1082

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Ford: F350 Heavy Duty 1998... | F450 Heavy Duty 1998...

## EQUIVALENTE / Equivalent

Remy: 10452929

1088

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Lada: Samara 1.1-1.3 e 1.5

## EQUIVALENTE / Equivalent

Iskra: 16900035

1090

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Ford: F250 Cummins ISBe4 | F350 Cummins B Aftercooler 3.9 | F4000 Cummins B Aftercooler 3.9 - John Deere: 5600 - Volkswagen: 17210 | Caminhão 13180 MWM

## MOTOR

Lucas Indiel: 35259580 | 35259620 | 35259630 | 35259640 | 35259660 | 35259870 | 35262634

## EQUIVALENTE / Equivalent

Lucas Indiel: 229873 | 35259873

1091

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Scania: Especial/Special - Volkswagen: Caminhão 13190 MWM | Caminhão 15190 MWM | Caminhão e ônibus 17210 MWM

## MOTOR

Lucas Indiel: 35259430 | 35259760 | 35261360 - Volkswagen: 2TO911335

## EQUIVALENTE / Equivalent

Lucas Indiel: 229773 | 35261302

1092

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Volkswagen: Caminhão MWM | Ônibus 16210 MWM | Ônibus 17210 MWM | Ônibus 17220 MWM - Volvo: VM 17 MWM | VM 23 MWM

## MOTOR

Prestolite: 35259440 | 35259770

## EQUIVALENTE / Equivalent

Lucas: 2WO911335 - Lucas Indiel: 35260932 | 35261303 - Prestolite: 35261303



1097

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Toyota: Camry 2.0 D TURBO | Corolla 1.8 D, 2.0 D | Hilux SW 4 3.0 | Landcruiser 3.0 TD - D-4D | Lite- Ace 2.0 D

## MOTOR

Nippondenso: 280008451 | 1280000930 | 1280005350 | 1280008980 | 1280009550 | 2280000200 | 2280000460 | 2280000880 | 2280001850 | 2280003640 | 2280003680 | 2280004980 | 2280005020 | 2280005021 | 2280005022 | 2280005023 | 2810067050

## EQUIVALENTE / Equivalent

Nippondenso: 0283004011 | 0283004081 | 0283004082 - Thermo King: 2801167030 - Toyota: 2801164010 | 2801164030 | 2801167030

1098

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Hino: Caminhões FB/FF basculante

1104

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Fiat: Croma D e TD - Lancia: Thema D e TD

## MOTOR

Magnetit Marelli: 63222001 | 63222031 | 63222039 | 63222136

1107

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Toyota: Avensis 2.0 TD

## MOTOR

Bosch: 0001109034 - Toyota: 281000B020

## EQUIVALENTE / Equivalent

Bosch: 1006209669

1108

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 210

## APLICAÇÃO / Application / Aplicación

Audi: A3 1.6 - 1.8 T | TT - Seat: Alhambra 1.8T - 2.0 | Córdoba 1.6, 1.8, 2.0 | Ibiza 1.6 | Leon 1.4, 1.6, 1.8, 1.8T | Toledo 1.4, 1.6, 1.8 - Skoda: Octavia 1.6, 1.8, 1.8T, 2.0  
Volkswagen: Bora 1.6, 2.0 | Golf G4 1.4, 1.6, 1.8, 2.0 | Golf G4 1.4, 1.6, 1.8, 2.0 Variant | Golf G4 1.8 GTI | Golf G4 1.8 GTI Turbo | New Beetle 1.8, 2.0 | Polo 1.6, 1.8 | Sharan 1.8T, 2.0 | Transporter 2.0

## MOTOR

Bosch: 0001121006 | 0001121007 | 0001121010 | 0001121011

## EQUIVALENTE / Equivalent

Bosch: 1006209657 | 1006209757 | 1007010105 | F000AL1086

1109

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Opel: Astra | Astra G 2.0 DI - DTI - 16V - 2.2 DTI | Frontera | Frontera B 2.0 - 2.2 DTI | Omega B 2.0 - 2.2 DTI - DTH | Saab 9.3 | Signum 2.0 - 2.2 DTI | Sintra 2.2 DTI | Vauxhall | Vectra | Vectra 2.0 - 2.2 DI - DTI - DTH 16V - DTL 16V | Zafira 2.0 - 2.2 DI - DTI - Saab: 9 3 2.2 16V TD - Vauxhall: Omega 2.0 - 2.2 DTH | Vectra 2.0 - 2.2 DTH - DTL | Zafira 2.0 - 2.2 DI - DTI 1.6

## MOTOR

Bosch: 0001109015 | 0001109052 | 0001109062 | 0001109068

## EQUIVALENTE / Equivalent

Bosch: 1006209637 - Lucas Indiel: 220418

1112

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 1418 R Com motores OM 364 e OM 366 em 12V | 1720 Com motores OM 364 e OM 366 em 12V | 1720 K Com motores OM 364 e OM 366 em 12V | 710 Com motores OM 364 e OM 366 em 12V | L 1620 Com motores OM 364 e OM 366 em 12V | LO 0814 Com motores OM 364 e OM 366 em 12V | OF 1721 Com motores OM 364 e OM 366 em 12V | OH 1420 Com motores OM 364 e OM 366 em 12V | OH 1621L Com motores OM 364 e OM 366 em 12V | OH 1623 Com motores OM 364 e OM 366 em 12V - TCM Equipment Ag: Motores 28MT 12/24V

## MOTOR

Mercedes Benz: A0051518301 - Remy: 10479645 | 10479651 | 10479652

## EQUIVALENTE / Equivalent

Remy: 10484659 | 10524228

1113

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Fiat: Marea 2.4 20v | Stilo

## MOTOR

Magnetit Marelli: 63111007 | 63111010

1117

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: Especial/Special - Fiat: Ducato D - Lancia: Especial/Special

## MOTOR

Magnetit Marelli: 63222000 | 63222004 | 63222030 | 63222034 | 63222038 | 63222130 | 63222134 | 63222135 | 63222138

## EQUIVALENTE / Equivalent

Fiat: 9941371 - Lucas Indiel: 220419

1133

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Volkswagen: Caddy Diesel | Gol | Senda Saveiro

## MOTOR

Lucas Indiel: 35258740

## EQUIVALENTE / Equivalent

Lucas Indiel: 220270

1134

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Fiat: Duna | Fiorino 1.7 Diesel | Palio 1.7 Turbo Diesel | Uno 1.7 Diesel - Ford: Pick Up (USA) 4.9 / 5.8 | Tiger Tug (USA) - Cummins - Renault: 19 1.7, 1.8 | Clio 1.4 | Clio F8Q 1.9 Diesel | Express F8Q 1.9 Diesel | Megane 2.0 | R19 F8Q 1.9 Diesel

## MOTOR

Lucas Indiel: 35258400 | 35258420 | 35258460 | 35258560 | 35258720 | 35258840

## EQUIVALENTE / Equivalent

Lucas Indiel: 220210

1152

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Citroën: Ax | BX - Peugeot: 106 | 205 | 309 | 405 - Renault: Clio II

## MOTOR

Valeo: D7E2

## EQUIVALENTE / Equivalent

Valeo: 187428

1153

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Renault: Clío I e II | Kangoo | Twingo 1.2L

## MOTOR

Bosch: 0001116001

## EQUIVALENTE / Equivalent

Bosch: 1006209704 - Lucas Indiel: 220421

1155

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Toyota: Corolla 2.0 Diesel

## MOTOR

Bosch: 0001109031 | F000AL0108

## EQUIVALENTE / Equivalent

Bosch: 1006209656

1156

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Ford: Ka 1.3 | Ka II 1.3 | Ka III 1.3

## MOTOR

Bosch: 0001107059 | 0001107082 - Ford: 97KB11000AA | 97KB11000AB | 97KB11000AC

## EQUIVALENTE / Equivalent

Bosch: 1006209652

1157

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Fiat Iveco: Eurocargo - New Holland: Trator TL 75E

## MOTOR

Bosch: 0001230007 | 0001230009 | 0001230010 | 0001231010 | 0001231011

## EQUIVALENTE / Equivalent

Bosch: 6033AD0148 | 6033AD3120

1158

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Fiat Iveco: Daily II - Renault: V.I. Mascott

## MOTOR

Bosch: 0001223003 | 0001223007 | 0001223024

## EQUIVALENTE / Equivalent

Bosch: 6033AD0077 | 6033AD1002 | 6033ADO077

1159

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Berliet: 400 | 450 | 480 | 500 | 530 | 550 | 560 - Fiat: Ducato - Man: 11.136 H - HK - HAK - HS - U | 13.136 U - Renault: 210 Midlum dCI 6AE Euro 3 | 75 - 130 - 85.150 - 95.130 - 110.50 - 110.170 | C 230 - CBM - CCH 300 - CLR 230 - G 170 - G 200 - GB 131 - JE 13 | JN 60 - 75 - 80 - 85 - 90 - 95 | JP 11 - 13 - 14 | JR 19 - 21 | JX 21 | M 140 - 150 - 160 - 180 - 200 - 210 - 230 - 250 | ME 160 - 180 | Midlum 135 - 150 - 180 - 210 - 250 | Premium 210 - 250 | S 100 - 130 - 140 - 150 - 160 - 170 - 180 - 210 | SM 8 | Trucks SEE: 120-6057, A, B 360, 368 Series Versions 1983...2002 | V.I. Midliner - Saviem: E7C | JN 75 - 85 - 90 | JP 11 - 13 | SC50 | SM 6 - 7 - 8

## MOTOR

Bosch: 0001230004 | 0001230008 | 0001231001 | 0001231009 | 0001231012 | 0001231016 | 0001231026 | 0001231027 | 0001231039

## EQUIVALENTE / Equivalent

Bosch: 6033AD0184 | 6033AD0200 | 6033AD3334 | 6033ADO184 | 6033ADO200 | 9002336237 - Cargo: 231756 - Daf: 1382550

1160

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Volvo: FM 1998

## MOTOR

Bosch: 0001231004

## EQUIVALENTE / Equivalent

Bosch: 6033AD0129 | 6033ADO129

1161

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Peugeot: Karsan J9D

1162

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 211

## APLICAÇÃO / Application / Aplicación

Renault: Laguna D, RN, RT, RXE

## MOTOR

Valeo: ND161 | D9R142

## EQUIVALENTE / Equivalent

Valeo: NE885 | 186321 | 594251

1168

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Blazer Diesel - Nissan: Frontier MWM

## MOTOR

Bosch: F000AL0105 | F000AL0107 | F000AL0112

## EQUIVALENTE / Equivalent

Bosch: 1006209778 | F000AL1709 - Lucas Indiel: 220423

1169

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: 145 1.4 16V | 146 1.4 16V - Fiat: Brava 1.6 | Bravo 1.6 | Marea 1.6 | Multipla | Palio | Siena | Strada - Lancia: Nuova Delta

## MOTOR

Fiat: 46451529 | 46740241 - Magneti Marelli: 63111008 | 63111009 | 63111027 | 63112003 | 63113003

## EQUIVALENTE / Equivalent

Cargo: 139901 - Fiat: 9947754 - Lucas Indiel: 220424

1170

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## APLICAÇÃO / Application / Aplicación

Toyota: Camry 1991...1996 | Carina 1992...1996 | Corolla Diesel 1993...1995 | Corona

## MOTOR

Bosch: 0001218166

## EQUIVALENTE / Equivalent

Bosch: 9002336225 - Lucas Indiel: 220425

1171

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## APLICAÇÃO / Application / Aplicación

Ford: Escort SEE: 120-330 1.8L Diesel 1989...1996 | Fiesta SEE: 120-330 1.8L Diesel 1989...1996 | Orion SEE: 120-330 1.8L Diesel 1989...1996

## MOTOR

Bosch: 0001218105 | 0001218128

1171

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

EQUIVALENTE / Equivalent

Bosch: 9002336200 | 9002336205

1172

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

APLICAÇÃO / Application / Aplicación

Renault: Express 1.6L Diesel 1986...1997 | Extra 1.6L Diesel 1986...1997 | Rapid 1.6L Diesel 1986...1997

MOTOR

Bosch: 9000331411

EQUIVALENTE / Equivalent

Bosch: 9003336286

1173

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

APLICAÇÃO / Application / Aplicación

Nissan: Trade 2.0L Diesel 1984...1998 | Vanette 2.0L Diesel 1984...1998

MOTOR

Bosch: 9000331421 | 9000331424 | 9000331428

EQUIVALENTE / Equivalent

Bosch: 9003336290

1174

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

APLICAÇÃO / Application / Aplicación

Nissan: Ebro | Nissan Trucks 1985...2000 | Van

MOTOR

Bosch: 9000331406

EQUIVALENTE / Equivalent

Bosch: 9003331430 | 9003336274

1177

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

APLICAÇÃO / Application / Aplicación

Volkswagen: Gol G3 1.6 | Parati G3 1.6 | Saveiro G3 1.6

MOTOR

Bosch: F000AL0400

EQUIVALENTE / Equivalent

Bosch: F000AL1306 | F000AL1694

1178

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

APLICAÇÃO / Application / Aplicación

Man: Europe Bus | Lions City D0836 6.9L Dsl 2004...2006 | Lions Classic D0836 6.9L Dsl 2003...2006

MOTOR

Bosch: 0001231008 - Man: 51262017158

EQUIVALENTE / Equivalent

Bosch: 6033AD0306 | 6033ADO306

1179

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

APLICAÇÃO / Application / Aplicación

Volvo: FL 180 | FL 220 | FL 250

MOTOR

Bosch: 0001231014

1179

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## EQUIVALENTE / Equivalent

Bosch: 6033AD0304 | 6033AD0467 | 6033ADO304 | 6033ADO467

1180

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: Still Fork Lifts | Unimong S 404 | Unimong U650

## MOTOR

Bosch: 0001363106 | 0001363119 | 0001363120

## EQUIVALENTE / Equivalent

Bosch: 2006209478 | 2006209501 - Mercedes Benz: 0001517913 | 0001519701 | 0001519713

1184

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: 400 - Willys: Jeep 1969...1971

## EQUIVALENTE / Equivalent

Remy: 1954842

1187

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## APLICAÇÃO / Application / Aplicación

Citroën: BX 16 | C25 | CX 2.0 - Peugeot: 309 | 405 | 504 | 505 | J5 | J7 - Renault: Fuego | Master | R 11 | R 18 | R 20 | R 21 | R 25 | R 4 | R 5 | R 9 |  
Traffic - Volvo: 345

## EQUIVALENTE / Equivalent

Paris Rhone: 99931

1188

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## APLICAÇÃO / Application / Aplicación

Bedford: CF 1.8 e 2.3 - Vauxhall: Magnum 1800 | Magnum 2300 | Victor FD 2000 | Victor FE 1800 | VX 1800-2300 M35

## MOTOR

Lucas Indiel: 25329AM35 | 25165ADM35 | 25274ADM35 | 25348A5M90 | 25264AF5M90

## EQUIVALENTE / Equivalent

Lester: 16109 | 16283 - Lucas: TNB137 | 54244686 | 54245201 | 54245341 | 54246005 | 54247077 | 54247181

1189

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: C10 V8 5.0L 305cid 1984...1985 | C10 Suburban V8 5.0L 305cid 1984...1985 | C20 V8 5.0L 305cid 1984...1985 | C20 Suburban V8 5.0L 305cid 1984...1985 | C2500 V6 4.3L 262cid 1988...1989 | Camaro V6 2.8L 173cid 1984...1989 | Camaro V6 3.1L 189cid 1990 | K10 V8 5.0L 305cid 1984...1985 | K10 Suburban V8 5.0L 305cid 1984...1985 | K1500 V6 4.3L 262cid 1988...1989 | K20 V8 5.0L 305cid 1985 | K20 Suburban V8 5.0L 305cid 1985 | K2500 V6 4.3L 262cid 1988...1989 | K5 Blazer V8 5.0L 305cid 1984...1985 | S10 Blazer V6 2.8L 173cid 1984...1989 | S10 Blazer V6 4.3L 262cid 1988...1990 | S10 Pick Up V6 2.8L 173cid 1984...1993 - GMC: C1500 V6 4.3L 262cid 1988...1989 | C1500 V8 5.0L 305cid 1984...1985 | C1500 Suburban V8 5.0L 305cid 1984...1985 | C2500 V6 4.3L 262cid 1988...1989 | C2500 V8 5.0L 305cid 1984...1985 | C2500 Suburban V8 5.0L 305cid 1984...1985 | Jimmy V8 5.0L 305cid 1984...1985 | K1500 V6 4.3L 262cid 1988...1989 | K1500 V8 5.0L 305cid 1984...1985 | K1500 Suburban V8 5.0L 305cid 1984...1985 | K2500 V6 4.3L 262cid 1988...1989 | S15 Jimmy V6 2.8L 173cid 1984...1989 | S15 Jimmy V6 4.3L 262cid 1988...1990 | S15 Pick Up 6 Cil 2.8L 173cid 1984...1990 | S15 Pick Up 6 Cil 4.3L 262cid 1988...1990 | Sonoma V6 2.8L 173cid 1991...1993 - Isuzu: Rodeo V6 3.1L 3137cc 1991...1992 - Jeep: Cherokee V6 2.8L 173cid 1984...1986 | Comanche V6 2.8L 173cid 1986 | Wagoneer V6 2.8L 173cid 1984...1986 - Pontiac: Firebird V6 2.8L 173cid 1984...1989 | Firebird V6 3.1L 189cid 1990

## MOTOR

American: 89530020124 - Isuzu: 8104550190 - Jeep: 8982775013

## EQUIVALENTE / Equivalent

Bosch: 1987BE0036 - Lester: 6317 | 6339 | 6413 - Remy: D2032 | 1984511

1190

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 212

## APLICAÇÃO / Application / Aplicación

Cummins: Motor Serie C - Ford: Caminhão 1519 Ford 7.8 lts | Caminhão 1521 Ford 7.8 lts | Caminhão 1621 Ford 7.8 lts | Caminhão 2318 Ford 7.8 lts | Caminhão 2321 Ford 7.8 lts | Caminhão 3021 Ford 7.8 lts | Caminhão 3323 Ford 7.8 lts | Caminhão Cargo CF 7000. - Müller: Compactador Cummins série C - New Holland: HTA7 | HTA8 | TC7 | TC8 | TCP7 | TCP8 - Volkswagen: Caminhão 13.210 Cummins 6 cil Turbo | Caminhão 14.210 Cummins 6 cil Turbo | Caminhão 14170 CUM-6 CT 8,3lts (Eq. primario) | Caminhão 14210 CUM-6 CT 8,3lts (Eq. primario) | Caminhão 16170 CUM-6 CT 8,3lts (Eq. primario) | Caminhão 16210H turbo Charger CUM-6 CT 8,3lts (Eq. primario) | Caminhão 16220H turbo Charger CUM-6 CT 8,3lts (Eq. primario) | Caminhão 22.210 Cummins 6cil. Turbo | Caminhão 24220 CUM-6 CT 8,3lts (Eq. primario)

## MOTOR

Bosch: 0001370001 | 9000453029 | 9000453066

## EQUIVALENTE / Equivalent

Bosch: 9001453670 - Facet: 480217 | 480324 - Lester: 4899 - Remy: 830622 | 1846089 - Wapsa: 224056

1191

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Kawasaki: 440 | 550 CC Jet Ski - Subaru: Especial/Special - Yamaha: Especial/Special

## MOTOR

Hitachi: S10828H - Kawasaki: 211633710

## EQUIVALENTE / Equivalent

Era: ZN0536 | ZN9488 - Hitachi: 210875002 | 2108F3500 - Kawasaki: 590513005 - Lester: 18305

1192

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Ford: Bronco 4.9 lts 1992 | Bronco 5.0 lts 1992...1996 | Bronco 5.8 lts 1992...1996 | Escape 6 cil 2001...2009 | F Séries Pick Up 5.0 lts 1992...1998 | F Séries Pick Up 5.8 lts 1992...1996 | F1000 4.9L 6 cil a gasolina | F150 | F250 V6 a gasolina | Ranger

## MOTOR

Ford: SA769 | SA771 | SA774 | SA775 | SA776 | SA777 | SA784 | SA790 | SA800 | SA807 | SA769A | SA771A | F0011002A | E90Y11002A | E90Y11002B | E9SZ11002A | E9SZ11002B | F02Z11002A | F00Y11002A | F0TZ11002A | F13Z11002A | F23Z11002A | F23Z11002B | F2DZ11002A | F2TZ11002A | F3DZ11002A | FOFZ11002A | FOTZ11002A | FOTZ11002B | E90F11000BA | E9SF11000AA | E9SF11000BA | F02U11000AA | F00U11000AA | F13U11000AA | F23U11000AA | F23U11000BC | F2DU11000AA | F2DU11000BA | F2TU11000AA | F3DU11000AA | F02F11000AA | F07U11000AA | F07U11000BA | FOCF11000BA | FOCU11000BA - Mazda: ZZL118400 | ZZLO18400 - Porsche: E90V11002A | E9SF11002A | E90SZ11000AA

## EQUIVALENTE / Equivalent

Bosch: 1987BE0018 - Ford: SD337 | E90Z11350A | F0TZ11002A | F5DZ11350A | F07U11000AA | F2TU11000AA - Lucas: TMB350

1193

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Ford: Escort 1.8 1991...1996 - Mercury: Tracer 1.8 1991...1996

## MOTOR

Ford: SA779 | FOCF11000AA | FOCU11000AA | FOCF-11000AA | FOCU-11000AA

## EQUIVALENTE / Equivalent

Ford: SD340 | FOFZ11350A - Lester: 3214

1194

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Bobcat: Especial/Special - Cummins: Especial/Special - Ford: F12000 | F14000 1999 | F700 | Ford Truck Cummins - General Motors/Chevrolet: Pick Up Silverado Sierra Importado DIE - John Deere: John Deere

## MOTOR

Remy: 1113269 | 1113270 | 1113292 | 1113295 | 1113296 | 10465151 | 10465314 | 10479604 | 10479614 | 10479615 | 10479617 | 10479618 | 10479625 | 10479634 | 10479638 | 10479641

## EQUIVALENTE / Equivalent

Lester: 6583 - Lucas Indiel: 220427 - Remy: 10456455 | 10457056 | 10457579

1195

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Bobcat: Especial/Special - Clark: Especial/Special - Deutz: Allis 12/24V - Hyster: Empilhadeira - Massey Ferguson: Maxion 9110 | Maxion 9130 | Maxion 9150 | Maxion 9170 | MF265 | MF270 | MF275 | MF285 | MF290 | MF292 | MF295 | MF296 | MF400 | MF50X | MF55X | MF65R | MF65X | MF85X | MF86 | MF95 | MF95I - Müller: Especial/Special - New Holland: Especial/Special - Perkins: Estacionários, Industrias | Tratores

## MOTOR

Remy: 1113274 | 1113275 | 1113278 | 1113281 | 1113282 | 1113284 | 1113285 | 1113288 | 1113289 | 1113290 | 1113297 | 10479607

## EQUIVALENTE / Equivalent

Lester: 6572 | 6576 | 6578 | 6581 | 6584 | 6587 | 6588 | 6593 | 6600 | 6602 - Remy: D2054 | 10457057

1196

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Bobcat: Melroe - Clark: Especial/Special - Hyster: Empilhadeira - New Holland: Especial/Special - Perkins: Estacionários, Industrias | Tratores

## MOTOR

Remy: 1113273 | 1113279 | 1113280 | 10479606 | 10479613

## EQUIVALENTE / Equivalent

Lester: 6571 | 6575 | 6586 - Remy: 10457058 | 10457168

1197

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: Caminhão 712 Eletronic

## MOTOR

Remy: 1113286 | 10479620

## EQUIVALENTE / Equivalent

Lester: 6579 | 6599 - Remy: 10457059

1198

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: C Séries C1500 6.5 | C Séries C1500 6.5 Turbo | C Séries C1500 6.5 Turbo Suburban | C Séries C2500 6.2 | C Séries C2500 6.5 | C Séries C2500 6.5 Turbo | C Séries C2500 6.5 Turbo Suburban | C Séries C3500 6.5 Turbo

## EQUIVALENTE / Equivalent

Remy: 10457060

1199

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Ford: Crown Victoria LX V8 4.6 Gas. 1992...1995 | Crown Victoria Police Interceptor V8 4.6 Gas. 1993...1995 | Crown Victoria Touring Sedan V8 4.6 Gas. 1992 | Crown Victoria S V8 4.6 Gas. 1992...1995 | Mustang | Mustang Cobra V8 4.6 Gas. 1996...1997 | Mustang GT V8 4.6 Gas. 1996...1997 | Thunderbird LX V8 4.6 Gas. 1994...1996  
Lincoln: Mark VIII LSC V8 4.6 Gas. 1995...1996 | Town Car Cartier V8 4.6 Gas. 1992...1995 | Town Car Executive V8 4.6 Gas. 1992...1995 | Town Car Jack Nicklaus V8 4.6 Gas. 1993 | Town Car Signature V8 4.6 Gas. 1992...1995 | Town Car Spinmaker Edition V8 4.6 Gas. 1995 | Town Car Tournament Edition V8 4.6 Gas. 1994 - Mercury: Cougar XR-7 V8 4.6 Gas. 1994...1996

## MOTOR

Ford: SA789 | SA822 | F2VY11002A | F3LY11002A | F3LU11000AA

## EQUIVALENTE / Equivalent

Ford: SD341 | F2VY11350A - Lester: 3221 | 3267

1200

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Isuzu: Especial/Special - ZEN: Utilizado no Impulsor ZEN 0737 | Utilizado no Impulsor ZEN 0790 | Utilizado no Impulsor ZEN 0791 | Utilizado no Impulsor ZEN 0792 | Utilizado no Impulsor ZEN 0844 | Utilizado no Impulsor ZEN 1780

## EQUIVALENTE / Equivalent

Hitachi: 211425505 | 211475008 - Isuzu: 8941155690 - Nissan: 2335411M00



1201

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Crysler: Daytona 3.0 | Fifty Avenue Lebaron | Saragata 3.0 | Voyager 3.0 V6 1990...1993 - Harley Davidson: MY91 - 06 BT except MY06 Dyna - ZEN: Utilizado no Impulsor ZEN 0750 | Utilizado no impulsor ZEN 0816 | Utilizado no impulsor ZEN 0817 | Utilizado no impulsor ZEN 0818 | Utilizado no Impulsor ZEN 0954

## MOTOR

Nippondenso: 1280007500 | 1280009380

## EQUIVALENTE / Equivalent

Nippondenso: 283000010

1204

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Fiat: Hitachi Excavator FH400 8215 13.8L Diesel - Fiat Allis: Crawlers 14C 8205 Diesel 1986...1989 | Crawlers 14CL 8205 Diesel 1986...1989 | Crawlers FD-14 8205 Diesel 1984...1989 | Crawlers FD-20 8215 Diesel 1981...1995 | Excavator FE-45 8215 Diesel 1988...1993 | Excavator FH-400 8215 Diesel 1990...1993 | Loader FL-14D 8205 Diesel 1985...1986 | Tractor - Agricultural FA-200 8215 Diesel 1984...1990 | Wheel Loader FR-20 8215 Diesel 1987...1991 | Wheel Loader FR-20B 8215 Diesel 1986...1995 | Wheel Loader FL-20 8215 Diesel 1979...1995

## EQUIVALENTE / Equivalent

Bosch: 0001420011 - Lester: 18038

1205

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Agco: AGCO Trator MF 2360 Cummins - Caterpillar: Colheitadeira MT 875. | Motoniveladora 120H - Hyster: Empilhadeira Cummins 1997 - Mercedes Benz: 1632L | 1632LS | 1634LS | 1938L | 1938LS | 1938S | 1944L | 2638 | 2638LK | 2638LS | Demais aplicações com Turbo Brake, exceto Plataforma O 400 mecânico ...07/2004 | O 500R, RSD e RSE | OF 1722 | OH 1628L | Plataformas O 400RSD e SRE 06/2002...07/2004

## MOTOR

Remy: 10461417 | 10478818 | 10478961 | 10479109 | 10479292 | 10479310

## EQUIVALENTE / Equivalent

Facet: 10641 - Lester: 6630 | 6633 | 6634 | 6662 | 6664 | 6666 - Remy: 10472565

1206

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Fiat: Tipo 1.4 e 1.6 - Lancia: Dedra 1.6 i.e

## MOTOR

Magnetit Marelli: 63222831 | 63222832 | 63222833 | 63222836 | 63222837 | 63222838 | 63222897 | 63223001 | 63223031 | 63223032 | 63223033 | 63223034

## EQUIVALENTE / Equivalent

Fiat: 9941306

1207

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Nissan: NX 1600 | NX 2000 | Pulsar 1.6 | Sentra 1.6 - ZEN: Utilizado no Impulsor ZEN 0793

## MOTOR

Hitachi: 51389 | 51384B | 5114440 | 5114486 | 5114475A - Nissan: 2330036A00

## EQUIVALENTE / Equivalent

Hitachi: 211425509 - Nissan: 2335416E01

1208

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 213

## APLICAÇÃO / Application / Aplicación

Ford: Contour | Courier 1.6 2001 | Escape 4 cil 2001...2004 | Escort | Fiesta | Ka | Mercury Mystique 2.0 L 4 cil 1995...1996 | Mondeo CLX 1997

## MOTOR

Ford: F3RZ11002A | F3RZ11002B | 93BB11000HB | 93BB11000JB | 96BB11000AA | 97BB11000BB | 97BB11000BC

## EQUIVALENTE / Equivalent

Ford: SD353 | 53R211350A | F3RZ11350A | F5RU11350RA | XS6411350AA | XS6U11350AA - Lucas Indiel: 223299

1209

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Astra 1.8 / 2.0 / 2.0 16V | Calibra 2.0 / 2.0i / 2.0i 16V | Corsa | Suprema 2.0 / 2.2 / 3.0 | Vectra 2.0 GSi MPFi / 2.0 GLS MPFi - Renault: Clio 1.2, 1.4, 1.6, 1.8 | Laguna 1.8, 2.0 | Megane 2.0 | R19 1.8 | R21 | Scenic 2.0 - Volvo: 440 | 460 | 480 | S40 | V40

## MOTOR

Valeo: D6RA56 | D6RA62 | D6RA82 | D6RA83 | D6RA107 | D6RA133 | D6RA162 | D6RA183

## EQUIVALENTE / Equivalent

Valeo: NE877 | 186798 | 187961 | 187981 | 594177 | 594252

1210

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

TCM Equipment Ag: Série 42 MT 12/24V | Série 50 MT 12/24V

## MOTOR

Remy: 10478898

## EQUIVALENTE / Equivalent

Lester: 6631 | 6635 - Remy: 10476528

1211

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Toyota: Avensis 2.0 | Camry 1.8 / 2.0 / 2.2i / 3.0 V6 | Carina II 2.0i | Celica 2.0 GT / 2.0 GTi / 2.0 Turbo | MR-2 2.0 | Picnic 2.0 | RAV-4 2.0

## MOTOR

Nippondenso: 1280007390 | 1280008400 | 1280009710 | 1280009720 | 2280000820 | 2280000830 | 2280001910 | 2280002500

## EQUIVALENTE / Equivalent

Lester: 17170 | 17263 | 17534 | 17687 | 17715 | 17716 | 17774 | 17777 - Nippondenso: 0280906580 | 0280996580 | 0283010020 | 2801174070

1212

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Acura: Integra L4 1.7L 1678cc 1992...1993 | Integra L4 1.8L 1834cc 1992...1993 - Dodge: Ram 2500 V10 8.0L 7990cc 488cid 1994...1998 | Ram 3500 V10 8.0L 7990cc 488cid 1994...1998

## MOTOR

Nippondenso: 228000022 | 228000180

## EQUIVALENTE / Equivalent

Lester: 17273 | 17549 | 17574 - Nippondenso: 0283010060

1213

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Subaru: 1800 4X4 | Especial/Special 1.8 GTI Turbo 4X4 | Impreza 1.8 | Legacy 1.8 2WD | Legacy 2.2

## MOTOR

Nippondenso: 128000832 | 1280008321

## EQUIVALENTE / Equivalent

Lester: 17242 - Nippondenso: 0283007160 | 0283007910 - Subaru: 23312AA030

1215

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Toyota: Hilux 2.8 D | Land Cruiser - Volkswagen: Taro - ZEN: Utilizado no Impulsor ZEN 0921 | Utilizado no Impulsor ZEN 0946 | Utilizado no Impulsor ZEN 0947 | Utilizado no Impulsor ZEN 1097 | Utilizado no Impulsor ZEN 1601

## MOTOR

Nippondenso: 280007373 | 280008760 | 280008762 | 1280000362 | 1280007353 | 1280008142 | 1280008152 | 1280009592 | 2280000400 | 2280000640 | 2280001300  
Toyota: 2810054100 | 2810054170

## EQUIVALENTE / Equivalent

Nippondenso: 2801154070

1217

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Ford: F1000 Diesel | Ranger Diesel

## MOTOR

Ford: F87U11000DD

## EQUIVALENTE / Equivalent

Facet: 10682 - Ford: F87U11350 | F87U11350AC

1218

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Sea Doo: GSX, GTI, GTS, GTX, HX, SP, SP1, SPX, XP | Sea Doo - série 800 (modelos novos) | Toda Linha 110 HP

## MOTOR

Nippondenso: 2280006240 - ZEN: 12723

## EQUIVALENTE / Equivalent

BRP: 278001497 | 278001936 - Sea Doo: 278001106

1221

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Toyota: Bandeirante - ZEN: Utilizado no Impulsor ZEN 0750 | Utilizado no Impulsor ZEN 0954

1222

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Volkswagen: Gol G2 1.0 MI | Gol G3 1.0 16V Turbo | Gol G3 1.0 MI | Gol G3 1.0 MI 16V | Parati G3 1.0 MI 16V | Parati G3 1.0 MI 16V Turbo

## MOTOR

Bosch: F000AL0401

## EQUIVALENTE / Equivalent

Bosch: F000AL1446 | F000AL1682

1223

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Volkswagen: Gol 1.8 2005 | Parati III 1.8 MI e 2.0 MI | Quantum 1.8 MI e 2.0 MI | Santana 1.8 MI e 2.0 MI | Saveiro III 1.8 MI e 2.0 MI

## MOTOR

Bosch: F000AL0502

## EQUIVALENTE / Equivalent

Bosch: 1006209762 | F000AL1186 | F000AL1681

1224

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Ford: Bronco 4.9 lts 1992 | Bronco 5.0 lts 1992...1996 | Bronco 5.8 lts 1992...1996 | F Séries Pick Up 5.0 lts 1992...1998 | F Séries Pick Up 5.8 lts 1992...1996 | F1000 4.9L 6 cil a gasolina | F150 | Ranger - Valmet: Trator

## MOTOR

Ford: SA769 | SA771 | SA774 | SA775 | SA776 | SA777 | SA784 | SA790 | SA800 | SA807 | SA769A | SA771A | F0011002A | E90Y11002A | E90Y11002B | E9SZ11002A | E9SZ11002B | F02Z11002A | F00Y11002A | F0TZ11002A | F13Z11002A | F23Z11002A | F23Z11002B | F2DZ11002A | F2TZ11002A | F3DZ11002A | FOFZ11002A | FOTZ11002A | FOTZ11002B | E90F11000BA | E9SF11000AA | E9SF11000BA | F02U11000AA | F00U11000AA | F13U11000AA | F23U11000AA | F23U11000BC | F2DU11000AA | F2DU11000BA | F2TU11000AA | F3DU11000AA | FO2F11000AA | FO7U11000AA | FO7U11000BA | FOCF11000BA | FOCU11000BA

## EQUIVALENTE / Equivalent

Ford: E90Z11350A | F0TZ11002A | F5DZ11350A | F07U11000AA | F2TU11000AA - Lester: 3204 | 3205 | 3213 | 3217 | 3224 | 3232 | 3238 | 3239 | 3240 | 3241 | 3246 | 3247 | 3264 | 3266 | 3268 | 3269 | 3270 | 3271 | 3272 | 3273 | 3274

1225

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Ford: Escort | Mercury | PMGR Starters 1991...1996

## MOTOR

Ford: SA779 | FOCF11000AA | FOCU11000AA

## EQUIVALENTE / Equivalent

Cargo: 231961 - Ford: SD340 | FOFZ11350A

1226

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Ford: Crown Victoria LX V8 4.6 Gas. 1992...1995 | Crown Victoria Police Interceptor V8 4.6 Gas. 1993...1995 | Crown Victoria S V8 4.6 Gas. 1992...1995 | Crown Victoria Touring Sedan V8 4.6 Gas. 1992 | Mustang GT V8 4.6 Gas. 1996...1997 | Mustang Cobra V8 4.6 Gas. 1996...1997 | Thunderbird LX V8 4.6 Gas. 1994...1996 - Lincoln: Mark VIII LSC V8 4.6 Gas. 1995...1996 | Town Car Cartier V8 4.6 Gas. 1992...1995 | Town Car Executive V8 4.6 Gas. 1992...1995 | Town Car Jack Nicklaus V8 4.6 Gas. 1993 | Town Car Signature V8 4.6 Gas. 1992...1995 | Town Car Spinmaker Edition V8 4.6 Gas. 1995 | Town Car Tournament Edition V8 4.6 Gas. 1994 - Mercury: Cougar XR-7 V8 4.6 Gas. 1994...1996

## MOTOR

Ford: SA789 | SA822 | F2VY11002A | F3LY11002A | F3LU11000AA

## EQUIVALENTE / Equivalent

Ford: SD341 | F2VY11350A

1227

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Fiat: Panda 750 | Tipo 1.1 Fire | Uno 45 Fire

## MOTOR

Magneti Marelli: 63101003 | 63221800 | 63221890 | 63221892

## EQUIVALENTE / Equivalent

Fiat: 9941300

1228

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 214

## APLICAÇÃO / Application / Aplicación

Ford: Escape 4 cil 2001...2004

## MOTOR

Ford: F3RZ11002B | XS6U11000AC

## EQUIVALENTE / Equivalent

Ford: F3RZ11350A | F5RU11350RA - Lester: 3261 | 3262 | 3263

1351

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

ZEN: Especial/Special

1359

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Case: Pá Carregadeira W7 Perkins 6 cil | Retroescavadeira 580 Perkins 4 cil | Retroescavadeira 580CK Perkins 4 cil | Retroescavadeira 580E Perkins 4 cil | Retroescavadeira 580H - CBT: 1000 Perkins 4, 6 cil | 1090 Perkins 4, 6 cil | 1100 Perkins 4, 6 cil | 8240 Perkins 4236 álcool - Chrysler: 135 | 155 | 50 | 60 | C-300 | C-500 Y110 | Dodge D400 Perkins 4 cil | HY 40 - Clark: Motor PK4236 Pick Up | Pá Carregadeira Michigan 75A | Pá Carregadeira Michigan 75II | Pá Carregadeira Michigan 75III - Ford: 4600 | 5600 | 6600 4 cil | F11000 Perkins 6 cil | F12000 Perkins 6 cil | F13000 Perkins 6 cil | F2000 Ford 4 cil | F4000 Ford 4 cil  
General Motors/Chevrolet: Caminhão Perkins 6 cil | Pick Up Perkins 4 cil Diesel - Massey Ferguson: MF220 | MF235 | MF250 | MF275 | MF285 | MF290 | MF290  
RA Perkins 4236 diesel | MF296 | MF3366 | MF400 | MF50X | MF55X | MF65R | MF65X | MF85X | MF95I | MF95X - Perkins: Motor 4 e 6 cil - Volkswagen: Caminhão 6.80 Perkins

1359

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## MOTOR

Bosch: 9000453001 | 9000453004 | 9000453005 | 9000453006 | 9000453009 | 9000453011 | 9000453014 | 9000453015 | 9000453016 | 9000453017 | 9000453019 | 9000453028 | 9000453032 | 9000453034 | 9000453038 | 9000453041 | 9000453042 | 9000453043 | 9000453046 | 9000453047 | 9000453049 | 9000453050 | 9000453051 | 9000453052 | 9000453054 | 9000453059 | 9000453061 - Wapsa: MPB1 | MPB2 | MPF8 | MPN2 | MALP2 | MPB11 | MPB17 | MPB18 | MPB23 | MPB31 | MPB33 | MPB49 | MPB50 | MPB59 | MPB60 | MPB63 | MPB70 | MPC69 | MPMF3 | MALMF2 | MALT1 | MALT2 | MPJ1074

## EQUIVALENTE / Equivalent

Bosch: 9001453333 | 9001453334 | 9001453338 - General Motors/Chevrolet: 07328970 - Volkswagen: 04128642 | BC4N11350A - Wapsa: 2244 | 224004 | 224038 | 224043 | 2244036

1364

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Agrale: 1600D | 1800D | TX1600D - Case: Escavadeira Hidráulica 80CP, 80CR. | Pá Carregadeira W18 | Pá Carregadeira W20 | Pá Carregadeira W20B | W18 | W20 (MBB-OM 352) | W20B (MBB-OM 352A) - CBT: 1065 10/1976... | 1065 (MBB-OM 314) | 1105 (MBB-OM 352) | 2080 (MBB-OM 314) | 2105 (MBB-OM 352) | 2600 10/1976... | 8060 4x4 (MBB-OM 352) | 8440 10/1976... | 950 10/1976... | Oliver 1020 10/1976... - Chrysler: Dodge D950 MWM | Dodge P700 MWM | Dodge P900 MWM  
Clark: Pá Carregadeira Michigan 45C | Pá Carregadeira Michigan 55A | Pá Carregadeira Michigan 55C | Pá Carregadeira Michigan 65R | Pá Carregadeira Michigan 75III  
Fiat Allis: Escavadeira Hidráulica FE105 | FG70 | FG85 - Ford: Cargo C 1215 | Cargo C 1216 | Cargo C 1217 | Cargo C 1415 | Cargo C 1416 | Cargo C 1417 | Cargo C 1421 | Cargo C 1617 | Cargo C 1621 | Cargo C 814 | Cargo C 815 | F4000 - Komatsu: 364 - Mercedes Benz: Caminhão/Ônibus 2016, 2213, 2216, L608D, L709D, L1319, LP1219, LP1419 | Caminhão/Ônibus 1214, 1218, 1414, 1418, 1614, , 1513, 1516, 2013, | Caminhão/Ônibus 1618, 1621, 2215, 2216, L610 (OM 352), 1113, 1313, 1316 | Chassi para Ônibus 1313, 1315, 1316, O364, O371U Com motor M366G | Chassi para Ônibus OF/OH 1113, 1115, Com motor M366G | LO812 | O364 | O365 | O366 | O371U - MWM: D225-6 08/1977... | D229-4 08/1977... | D229-6 08/1977... | TD229-6 08/1977... - New Holland: FNH 8040 (MBB-OM352) | FNH 8055 (MBB-OM352A). - Toyota: Bandeirante (MBB-OM 314) 10/1976... - Valmet: 110ID 08/1977... | 118 08/1977... | 128 08/1977... | 138 08/1977... | 138/4 Turbo 08/1977... | 148 08/1977... | 78 08/1977... | 85ID 08/1977... | 88 08/1977... | 880 08/1977... | 980 08/1977... - Volkswagen: Chassi VW7.90S, VW7.90CE, VW7.90CO | VW11.130 | VW13.130 | VW6.90 | VW7.110S | VW7.90S

## MOTOR

Bosch: 0001354084 | 0001359031 | 0001359055 | 0001359057 | 0001359062 | 0001359071 | 0001359072 | 0001359073 | 0001359074 | 0001359083 | 0001359084 | 0001359087 | 0001359089 | 0001359091 | 0001359097 | 0001359100 | 0001359101 | 0001359111 | 0001359113 | 0001359118 | 0001359119 | 0001360004 | 0001360025 | 0001360027 | 0001360030 | 0001360031 | 0001360032 | 0001360034 | 0001360035 | 0001360036 | 0001360037 | 0001360038 | 0001360039 | 0001360040 | 0001360046 | 0001360047 | 0001360049 | 0001360056 | 0001360057 | 0001360059 | 0001360061 | 0001360065 | 0001364108 | 0001365007 | 0001365008 | 9000083027 | 9000083028 | 9000083031 | 9000083036 | 9000083045 | 9000083046 | 9000083050 | 9000083052 | 9000083053 | 9000083054 | 9000083056 | 9000083060 | 9000083061 | 9000083063 | 9000083064 | 9000083065 | 9000083066 | 9000083067 | 9000083068 | 9000083074 | 9000453074

## EQUIVALENTE / Equivalent

Bosch: 2006209421 | 2006209436 | 2006209446 | 9001083406 | 9001083436 | 9002453073 - Fiat: 8122129 | 9008243 | 9926112 | 9957919 | 79028900 | 79028909  
Italacciai: SD124 - Mercedes Benz: 0001517013 - Volkswagen: 04053926

1372

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Ford: Cargo 1618 | F1000 MWM 1998... | F4000 MWM 1998... - MWM: Motor 4.10T, 6.10T - Volkswagen: Motor MWM X10 | Ônibus Bus

## MOTOR

Bosch: 9000083077

## EQUIVALENTE / Equivalent

Bosch: 9002453078 | 9002453079

1451

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Hatz: Motor - Lombardini: Motor - Ruggerini: RD180 | RD181 | RD200 | RF120 | RF121 | RF130 | RF140 | RF148 | RF80 | RF81 | RF88 | RF90 | RF91 | RF96 | RF99

## MOTOR

Bosch: 0001109029

## EQUIVALENTE / Equivalent

Bosch: 1006209650

1453

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Mercury Marine: 25 HP Engines | 30 - 60 HP 4 Stroke | 9.9 - 15HP 4 Stroke 99

1453

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## MOTOR

United Technologies: 6743040 | 6767540 | 6873740 | 7005840 | 10153340 | 10153440

## EQUIVALENTE / Equivalent

Johnson Electric: 5970420DV30SN

1454

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Mercury Marine: 50 HP 4-Stroke

## MOTOR

Mercury Marine: 50834749 | 50859171T - United Technologies: 6743240 | 10153540

1455

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Marine Electric: Jet Ski

## EQUIVALENTE / Equivalent

Johnson Electric: 10394020

1458

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: Class C, E, M, S, V, CLK | Sprinter | Vito Engine D/TD

## MOTOR

Valeo: D7R19 | D7R28

## EQUIVALENTE / Equivalent

Valeo: 059427 | 059527 | 187528 | 594279

1467

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Nissan: Sentra 1994 | Tsuru

## MOTOR

Bosch: 6004AA0017

## EQUIVALENTE / Equivalent

Bosch: 1006209614 | F000AL2000

1468

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Volkswagen: Fox | Gol G5 | Golf | Polo

## MOTOR

Bosch: F000AL0402 | F000AL0415

## EQUIVALENTE / Equivalent

Bosch: F000AL1901

1469

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: Classe A190 06/1999... | Classe A 06/1999...

## MOTOR

Bosch: F000AL0101 | F000AL0104

## EQUIVALENTE / Equivalent

Bosch: F000AL1209 | F000AL1688

1470

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge RAM

## MOTOR

Bosch: 6004AA3009

## EQUIVALENTE / Equivalent

Bosch: 9008047011 | F000AL1024

1471

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: Classe A - A100 05/1999... | Classe A - A160

## MOTOR

Bosch: F000AL0302

## EQUIVALENTE / Equivalent

Bosch: F000AL1067 | F000AL1096 | F000AL1696

1472

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

KHD: Motors engines BF4L1011 2.7 L - 2732cc 2003 | Motors engines F2L1011 1.4 - 1366cc 2004

## MOTOR

Bosch: 0001223002

## EQUIVALENTE / Equivalent

Bosch: 6033AD0061 | 6033ADO061

1473

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 215

## APLICAÇÃO / Application / Aplicación

Hyster: Lift TK 4.3L | XL 80 - ZEN: Utiliza Pinhão 10048 | Utilizado no Impulsor 1846

## MOTOR

Nippondenso: 015861N | 1383240 | 112309T26

1474

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

## APLICAÇÃO / Application / Aplicación

Land Rover: Defender 110 3.9L - 3947cc 1993 | Defender 90 3.9L - 3947cc 1994...1995 | Discovery 3.9L - 3947cc 1994...1995 | Range Rover 4.0L - 3950cc 1995 | Range Rover 4.2L - 4275cc 1993...1995

## MOTOR

Bosch: 0001108137 | 0001108144 | 0001108156 | 0001109040 | 0001110090 | 0001110120

## EQUIVALENTE / Equivalent

Bosch: 1006209605 | 1006209606 | 1006209928

1475

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

## APLICAÇÃO / Application / Aplicación

Land Rover: Defender 110 3.9L - 3947cc 1993 | Defender 90 3.9L - 3947cc 1994...1995 | Range Rover 3.5L 3532cc 1987...1988 | Range Rover 3.9L 3947cc 1989...1995

## MOTOR

Lucas Indiel: 2680B | 2680D - Magneti Marelli: 63226801

## EQUIVALENTE / Equivalent

Lucas: TMB173 - Lucas Indiel: 54291022

1477

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

## APLICAÇÃO / Application / Aplicación

BMW: 325 2.5 TD | 525 2.5 TD | 725 2.5 TD - Lancia: K 2.4 TD - Opel: Omega 2.3 TD

1477

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

## MOTOR

Lucas Indiel: 63222035010 | 63222204010 - Magneti Marelli: 63222035 | 63222040 | 63222204 | 63229035 | 63292035

## EQUIVALENTE / Equivalent

Cargo: 135117 - Fiat: 9946913 - Lucas: 85540681010

1478

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

## APLICAÇÃO / Application / Aplicación

Chrysler: Breeze 2.0L (122) L4 1996...1997 | Neon 2.0L (122) L4 1996...1997 | Neon 2.0L (122) L4 2000...2002 | Neon 2.0L (122) L4 Plymouth 2000...2002 | Stratus 2.0L (122) L4 Plymouth 1996...1997

## EQUIVALENTE / Equivalent

Bosch: 6004AH5018 - Lucas Indiel: 220434

1480

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

## APLICAÇÃO / Application / Aplicación

Volkswagen: VW LT 28 SDI, LT 35 SDI, LT 46 SDI

## MOTOR

Bosch: 0001125501 | 0001125502 | 0001125503 | 0001125504 | 0001125511 - Volkswagen: 069911023E

## EQUIVALENTE / Equivalent

Volkswagen: 1006209655 | 1006209760

1482

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

## APLICAÇÃO / Application / Aplicación

Ford: EcoSport 2.0l - 16V | Focus 2.0l - 16V

## MOTOR

Ford: 5N1511000AA | 5N1511000AB - Remy: 8000071

## EQUIVALENTE / Equivalent

Remy: 10500475

1483

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

## APLICAÇÃO / Application / Aplicación

Fiat Iveco: Iveco BF4L1011 2.7L - 2732cc 1996...2001 | Iveco BF4L1011 2.7L - 2732cc 1995 | Iveco BF4L1011 2.7L - 2732cc 2000 | Iveco BF4L1011 2.7L - 2732cc 2001 | Iveco F2L1011 1.4L - 1366cc 1996...2002 | Iveco F3L1011 2.0L - 2049cc 1996...2002 | Iveco F4L1011 2.7L - 2732cc 1996...1999

## MOTOR

Bosch: 0001223016 | 0001223021

## EQUIVALENTE / Equivalent

Bosch: 6033AD1062 - KHD: 1340070

1484

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

## APLICAÇÃO / Application / Aplicación

Seat: Arosa 1.0, 1.4L | Cordoba 1.0, 1.4L | Ibiza II 1.0, 1.4L - Volkswagen: Lupo 1.0, 1.4L | Polo 1.0, 1.4L

## MOTOR

Magneti Marelli: 63223039 | 63293029 | 63293039

1485

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

## APLICAÇÃO / Application / Aplicación

Chrysler: Crosfire 3.2L - 3199cc 2004...2005 - Mercedes Benz: C 240 2.6L - 2597cc 2001...2004 | C32 3.2L - 3199cc 2002...2004 | C320 3.2L - 3199cc 2001...2004 | CLK320 3.2L - 3199cc 2001...2004 | E320 3.2L - 3199cc 2001...2004 | ML320 3.2L - 3199cc 2001...2003 | ML350 3.7L - 3724cc 2003...2004 | SLK32 3.2L - 3199cc 2002...2004 | SLK320 3.2L - 3199cc 2001...2003

## MOTOR

Bosch: 0001108197 | 0001108222 | 0001108223 | 0001115005 | 0001115009 | 0001115049 | 0001115050



1485

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

EQUIVALENTE / Equivalent

Bosch: 1006209661 - Mercedes Benz: 0011512113

1486

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

APLICAÇÃO / Application / Aplicación

BMW: Séries 5 | Séries 7 | Séries 8 | Séries X5

MOTOR

Bosch: 0001107085 | 0001110071 | 0001110072

EQUIVALENTE / Equivalent

Bosch: 1006209592 | 1006209941 | D001965593

1487

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

APLICAÇÃO / Application / Aplicación

BMW: 318 TDS

MOTOR

Bosch: 0001110110

EQUIVALENTE / Equivalent

Bosch: 1006209622

1496

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

APLICAÇÃO / Application / Aplicación

Land Rover: 100 | 200 | 25 | 400 | 45 | Cabriolet | Coupe

MOTOR

Magneti Marelli: 63220104 | 63223103

1502

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

APLICAÇÃO / Application / Aplicación

Escort Tractor: Especial/Special

EQUIVALENTE / Equivalent

Lucas: 26253081

1504

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

APLICAÇÃO / Application / Aplicación

Tata: Indica Diesel

EQUIVALENTE / Equivalent

Lucas: 26256545

1509

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

APLICAÇÃO / Application / Aplicación

Alto: VXI - Esttem: MPF - Hyundai: I10 1.1 - Isuzu: Especial/Special - Lancer: Especial/Special - Maruti: Gypsy - Peugeot: Especial/Special - Santro: Especial/Special

Suzuki: Wagon R - Vagan: Especial/Special

EQUIVALENTE / Equivalent

Lucas: 26256287

1516

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 216

APLICAÇÃO / Application / Aplicación

Tata: LP 1210US | Tata Cummins

EQUIVALENTE / Equivalent

Lucas: 26256097

1518

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Especial/Special: Estate | Safari | T 206 - Tata: Pick Up | Tatamobile Sumo

## MOTOR

Lucas Indiel: 2692512A

## EQUIVALENTE / Equivalent

Lucas: 26253621

1521

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Remy: 41MT

## EQUIVALENTE / Equivalent

Remy: 10500277 | 10500283

1523

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Ford: Cargo 1217 | Cargo 1417 | Cargo 1421 Cummins - Volkswagen: Caminhão | Titan

## MOTOR

Prestolite: 35259460

## EQUIVALENTE / Equivalent

Lucas Indiel: 35260875

1526

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Mazda: Swaraj Mazda T3500

## EQUIVALENTE / Equivalent

Lucas: 26253237

1532

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Nissan: Tsuru

1533

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Ford: Courier 1.0L Zetec Rocam jul/99 | Courier 1.6L Zetec Rocam jul/99 | Ecosport 1.0L Supercharger fev/03 | Ecosport 1.0L Zetec Rocam fev/03 | Ecosport 1.6L Zetec Rocam fev/03 | Escort 1.6L Zetec Rocam jul/99 | Fiesta 1.0L Zetec Rocam jul/99 | Fiesta 1.6L Zetec Rocam jul/99 | Focus 1.0L Zetec Rocam | Ka 1.0L Zetec Rocam jul/99 | Ka 1.6L Zetec Rocam jul/99 | Novo Fiesta 1.0L Supercharger jun/02 | Novo Fiesta 1.0L Zetec Rocam jun/02 | Novo Fiesta 1.6L Zetec Rocam jun/02

## MOTOR

Ford: 3S6511000BA | 5S6511000AA | 6S6519000AA - Valeo: D7E33 | D7E34 | D7E43 | D7E45

## EQUIVALENTE / Equivalent

Valeo: 110427 | 494833

1534

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Volkswagen: Fox | G4 | G5 | Gol | Golf 1.6 | Lupo | Parati | Polo | Saveiro | Voyage

## MOTOR

Valeo: D7E56 | D7E56 - Volkswagen: 02T911023Q

## EQUIVALENTE / Equivalent

Valeo: 161039 | 170539 | 236896 | 494831 | 1201665

1538

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Chrysler: Liberty 2.4L 2001... | Liberty 3.7L 2001... - Jeep: Cherokee 2.4 L4 | Cherokee 3.7 V6 - Mitsubishi: M0T92081

## MOTOR

Mitsubishi: M0T21271 | M0T91981 | M0T92081 | M1T86781 | M1T86782 | M1T86882 | M1T86883 | M0T21271ZC | M0T91981ZC | M0T92081ZC | M1T86781ZC | M1T86782ZC | M1T86883ZC | M1T86884ZC

## EQUIVALENTE / Equivalent

Mitsubishi: M191T19071

1539

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Ford: Mondeo 2.4 | Transit 2.4

## EQUIVALENTE / Equivalent

Ford: YC1U11000AB

1545

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Chrysler: Dodge Neon | Neon II 1.6 - 2.0 16V - Citroën: C1 1.0 - Peugeot: 107 1.0 - Toyota: Aygo 1.0

## MOTOR

Bosch: 0001107415 | 0001107431 | 0001107432 | 0001107438 | 0001107439 | 6004AA0003 | 6004AA0008 | 6004AA0027

## EQUIVALENTE / Equivalent

Bosch: 1006209794 | 1006209810 | 1006209820 - Cargo: 235290 - Toyota: 280110Q020

1547

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Toyota: Avensis 1.6 - 1.8 VV T - I | Corolla 1.4 - 1.6 VV T - I | Corolla 1.8i 16v 02/1999... | Fielder 1.8 16V

## MOTOR

Bosch: 0001107088 | F000AL0106 | F000AL0118 - Toyota: 248100D100 | 281000D030 | 281000D100

## EQUIVALENTE / Equivalent

Bosch: 1006209695 | F000AL1432 | F000AL1690 - Toyota: 280110D030

1548

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Acura: EL 1.7L 2001...2005 - Honda: Civic 1.7L 2001...2005

## MOTOR

AES New: 17847N | 17847NOE - AIM: SH0093R - Amsco: VS17847 - Arrowhead: SMU0404 - Beck Arnley: 1870804 - Bosch Reman: SR1319X - Boston Auto: 3191181 - Cargo: 113617 - Dixie: S80011 - Honda: 31200PLMA51 - Mitsuba: SM4423236 - Nastra: S17847 - NSA: STR3622 - Romaine: 4117847 - WAI: 22332MT  
Whatcom: 22958 - Worldwide: 17754

## EQUIVALENTE / Equivalent

Honda: 31200PLM

1550

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

## APLICAÇÃO / Application / Aplicación

Agrale: Volare - Troller: T4

## MOTOR

Bosch: 6033ad0j00 | 6033ad1j00

## EQUIVALENTE / Equivalent

Bosch: 6033AD0070

1552

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

APLICAÇÃO / Application / Aplicación

Ford: F150 | F250 | Ranger

1553

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

APLICAÇÃO / Application / Aplicación

Ford: Ranger V6

1555

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 217

APLICAÇÃO / Application / Aplicación

Lexus: ES250 6 cil 2.5L 2508cc 1990...1991 - Toyota: Camry 4 cil 2.0L 1998cc 1989...1991 | Camry 4 cil 2.0L 1998cc 122cid 1987...1991 | Camry 6 cil 2.5L 2508cc 1988...1991 | Celica 4 cil 2.0L 1998cc 1987...1989 | Celica 4 cil 2.0L 1998cc 122cid 1987...1993 | Celica 4 cil 2.2L 2164cc 1990...1993 | Hilux | Ipsum - ZEN: Utiliza Pinhão ZEN 9506

MOTOR

Nippon: 1280007390 | 1280008400 | 1280009710 | 1280009720 | 2280000820 | 2280000822 | 2280000823 | 2280000830 | 2280000831 | 2280000832 | 2280001910 | 2280002500 | 2280003220 | 2280005490 | 2280005670 | 2280005680 | 2280006170 | 2280006172 | 2280006173 | 2280006270 | 2280006271 | 2280006272 | 2280006273 | 2280006280 | 2280006281 | 2280006283 | 2280009600

EQUIVALENTE / Equivalent

Nippon: 0280906580 | 0280996580 - Toyota: 2801174070

1556

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

APLICAÇÃO / Application / Aplicación

Case: CX27B V8 3TNV82 2005... | CX31B V8 3TNV88 2005... | CX36B V8 3TNV88 2005... - Opel: Astra F 1.7 td 01/1995...01/1998 | Corsa | Vectra A 1.7L T DSL 1994...1995 | Vectra B 1.7L T DSL 1995...1997 - Vauxhall: Astra F Estate 1.7L T DSL 1996...1998 | Vectra B 1.7L T DSL 1995...1996 - Yanmar: 2YM15 2 cil Diesel 2004... | 3JH3 3 cil Diesel 1999...2003 | 3JH3E 3 cil Diesel | 3JH3E-YEU 3 cil Diesel | 3JH4E 3 cil Diesel 2003... | 3TNE88 1997... | 3YM20 3 cil Diesel 2004... | 3YM30 1.1L/68Cl 3 cil Diesel 2004... | 4JH3E 4 cil Diesel 1994...2003 | 4TNE88 1997... | Diesel 4JH-3

MOTOR

Hitachi: S114808 | S114815 | S114883 | S114884 | S114814A | S114817A - Lester: 18219 | 18328

EQUIVALENTE / Equivalent

Hitachi: 211425554

1557

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Corsa - Opel: Astra G 1.7L TD 1988

EQUIVALENTE / Equivalent

Hitachi: S114829

1561

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

APLICAÇÃO / Application / Aplicación

Fiat: Brava 1.6 16V | Marea | Palio 1.6 16v | Palio Weekend 1.6 16V | Siena 1.6 16V | Strada 1.6 16V

MOTOR

Magnetit Marelli: 63111016

EQUIVALENTE / Equivalent

Lucas Indiel: 220441

1562

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

APLICAÇÃO / Application / Aplicación

Toyota: Hilux 2.5 / 2.8 2006

MOTOR

Bosch: 00010DB98E | F000AL0111 | F004A94008

EQUIVALENTE / Equivalent

Bosch: 1006209821 | F000AL1281 | F000AL2281 | F000AL2814

1563

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: A170 CDI 07/1998...01/2001 - Mitsubishi: L200 | Nativa | Pajero | Pajero 2.8 1997

## MOTOR

Mitsubishi: M8T70071 | M8T75073 | M8T78611 | ME202424 | ME202970 | ME204425 | M8T75073A | M008T75073

## EQUIVALENTE / Equivalent

Mitsuba: M191X68785 - Mitsubishi: M191T68771 | M191X68171

1566

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Harley Davidson: Moto | MY91 - 06 BT except MY06 Dyna - ZEN: Utiliza Pinhão ZEN 9492

1567

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Mitsubishi: L200 2.5 4WD | L300 | Pajero 2.5 td | Space Gear 2.5

## MOTOR

Mitsubishi: M2T87371 | M2T87971 | M2T88071 | M2T88271 | M002T87371 | M002T87971 | M002T88071 | M002T88271

## EQUIVALENTE / Equivalent

Mitsubishi: MD619204 | M191X68471

1570

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Especial/Special: Especial/Special

1573

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Remy: 42 MT

## EQUIVALENTE / Equivalent

Remy: 10500277

1574

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Especial/Special: Especial

1575

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

ZEN: Especial/Special

1576

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Citroën: Berlingo 1.9 D | Berlingo 2.0 HDi | Jumper 1.9 D | Jumper 2.0 HDi - Peugeot: 206 1.9 D | 206 2.0 HDi | 307 2.0 HDi | Partner 1.9 D | Partner 2.0 HDi | Ranch 1.9 D | Ranch 2.0 HDi

## MOTOR

Bosch: 0001108400

## EQUIVALENTE / Equivalent

Bosch: 1006209812 - Lucas Indiel: 220443

1577

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Hyundai: H 100 | Migthy Truck 2.5 ton. - ZEN: Utiliza o Pinhão ZEN 12656

1577

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## MOTOR

Ford: E57Z11002A | E5TZ11002A | E57A11000AA - Hyundai: 3610042010 | 3610042011 | 3610047650 - Mitsubishi: MD050205 | M002T56971 | M002T61071 | M002T61171

## EQUIVALENTE / Equivalent

Cargo: 231269 - Hyundai: 3613942000

1585

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Ford: Ecosport 2.0 2004 | Escape 2.3L (140) L4 2005...2006 | Escape 4 cil 2005...2009 | Focus 2.3L (140) L4 2003...2006 | Ranger 2.3L (140) L4 2001...2006 - Jaguar: S-Type 3.0L 2000...2004 - Lincoln: LS 3.0L (182) V6 2000...2004 - Mazda: B Séries Pick Up 2.3L 2001...2006 | Tribute 2.3L 2005...2006 - Mercury: Mariner 2.3L (140) L4 2005...2006

## MOTOR

Ford: 3S4T11000AB | 3S4T11000AC | 3S4Z11002AB - Motorcraft: 6S4Z11002AA

## EQUIVALENTE / Equivalent

Ford: 1L5T11000AA

1588

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Renault: R4 | R5 | R6

## MOTOR

Iskra: AZE0303 | AZE3504 | AZE3519 | 11130034 | 11130155 | 11130292

## EQUIVALENTE / Equivalent

Iskra: 16900068

1592

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 218

## APLICAÇÃO / Application / Aplicación

Mitsubishi: Empilhadeira SG 25 - Nissan: Lift Trucks H30 Vários Modelos | Lift Trucks AEH Z24 | Lift Trucks AH A15 | Lift Trucks AH H20 | Lift Trucks APH A15 | Lift Trucks ASH A15 | Lift Trucks CEGH Z24 | Lift Trucks CEH Z24 | Lift Trucks CPH A15 | Lift Trucks CPH H20 | Lift Trucks CPH Z24 | Lift Trucks CRGH H20 | Lift Trucks CRGH Z24 | Lift Trucks EGH H20 | Lift Trucks EH A15 | Lift Trucks EH H20 | Lift Trucks H01 A15 Gas. | Lift Trucks H01 H20 Gas. | Lift Trucks H02 H20 Gas. | Lift Trucks H02 Z24 LPG | Lift Trucks KAH A15 | Lift Trucks KAH H20 | Lift Trucks KAP H20 | Lift Trucks KAP H25 | Lift Trucks KCEH H20 | Lift Trucks KCEH H25 | Lift Trucks KCH02 H20 Gas. | Lift Trucks KCH02 H25 Gas. | Lift Trucks KCPH A15 | Lift Trucks KCPH H20 | Lift Trucks KCUGH H20 | Lift Trucks KCUGH H25 | Lift Trucks KEGH H20 | Lift Trucks KEGH H25 | Lift Trucks KEH H20 | Lift Trucks KEH H25 | Lift Trucks KH01 A15 Gas. | Lift Trucks KH01 H20 Gas. | Lift Trucks KH02 H20 Gas. | Lift Trucks KH02 H25 Gas. | Lift Trucks KPH A15 | Lift Trucks KPH H20 | Lift Trucks KUGH H20 | Lift Trucks KUGH H25 | Lift Trucks PH01 A15 | Lift Trucks PH02 A15 | Lift Trucks RGH02 A15 | Lift Trucks UF03 H30 | Lift Trucks UGF03 H30 | Lift Trucks YF03 H30 | Lift Trucks YGF03 H30 | Lift Trucks Z24 Vários Modelos  
TCM Equipment Ag: Lift Trucks FHG20N H25 | Lift Trucks FHG20N Z24 | Lift Trucks FHG25N H25 | Lift Trucks FHG25N Z24 | Lift Trucks FHG30N H25 | Lift Trucks FHG30N Z24

## MOTOR

Mitsubishi: M0T65381 | M0T65581 | M1T60081 | M1T60181 | M1T60581 | M000T65381 | M000T65581 - Nissan: 23300F4U10 | 23300FU410 | 23300GS20A

## EQUIVALENTE / Equivalent

Mitsubishi: M191T12971

1594

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Yanmar Engine Marine: 2005 | 2100 | 2103 | 2105 | 2200 | 2205 | 2300 | 2305 | 2500 | 2505 | 2525 | 2535 | 270 AT I | 300 AT I | 75 240 AT I | F 2000 | FSB 2005 DH

## MOTOR

Bosch: 0001364400 | 0001364402 | 0001368313 | 0001368318

## EQUIVALENTE / Equivalent

André Niermann: 01364402 - Bosch: 2006209540 | 2006209542 - Boston Auto: 31206194 | 31206059D | 31206194A - Cargo: 111636 | 137231 | 139506 - Case: 112055 - Daf: 126246 | 289183 | 1276165 | 1287890 - Delco Reman: DRS1170 | DRS3293 | DRS7090 - HC Parts: CS387 | CS1129

1595

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Caterpillar: Blue Bird USA Cat 3126 7.2 - International: Navistar DT 444E V8 7.3 - John Deere: 1550/608 1H 6 Cil | 7820/608 1H 6 Cil | Trator 4045 4 cil 4.5 Gradall

## MOTOR

Lucas Indiel: 35259260 | 35259520 | 35259830 | 35259840 | 35260830 | 35260840

## EQUIVALENTE / Equivalent

Lucas Indiel: 35260832

1596

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Agrale: 5075 BX 150 | 5085.4 BX 150 - Ford: F100 MWM SÉRIE X - 10 E 229 | F1000 MWM SÉRIE X - 10 E 229 | F14000 MWM SÉRIE X - 10 E 229 | F150 MWM SÉRIE X - 10 E 229 | F250 MWM SÉRIE X - 10 E 229 | F3500 MWM SÉRIE X - 10 E 229 | F4000 MWM Série X - 10 E 229 | F7000 MWM SÉRIE X - 10 E 229 - New Holland: Línea TL Exitus: TL65 / 75 / 85 / 95E MWM

## MOTOR

Lucas Indiel: 35259680 | 35259750 | 35261355 | 35261425

## EQUIVALENTE / Equivalent

Lucas Indiel: 229938 | 35259938 | 35261299

1597

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Ford: Fiesta 1.2, 1.4, 1.6 16V | Focus 1.4, 1.6 16V

## MOTOR

Bosch: 0001107407 | 0001107410 | 0001107417 | 0001107418

## EQUIVALENTE / Equivalent

Bosch: 1006209804 - Ford: 256U11000CA - Lucas Indiel: 220445

1600

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Case: CS 110 Sisu 4 cil Turbo 4.4 | CS 130 Sisu 6 cil Turbo 6.6 | CS 68 Sisu 3 cil Turbo 3.3 | CS 75 Sisu 3 cil Turbo 3.3 | CS 78 Sisu 4 cil Turbo 4.4 - Landini: Atlas 75 Perkins 1004 4 - Massey Ferguson: AA 550 Perkins / MWM 6 cil | AA 660 Perkins / MWM 6 cil | MF 200 Perkins / MWM 4, 6 cil | MF 2600 Perkins / MWM 4, 6 cil | MF 3060 Perkins A4.248 | MF 3065 Perkins AT4.236 | MF 34 yl Perkins / MWM 6c | MF 38 Perkins/MWM 6 cil | MF 383 Perkins - A4.236 | MF 400 Perkins / MWM 4, 6 cil | MF 400X Perkins / MWM 4, 6 cil | MF 4200 Perkins / MWM 4, 6 cil | MF 500 Perkins / MWM 4, 6 cil | MF 5200 Perkins / MWM 4, 6 cil | MF 5300 Perkins / MWM 4, 6 cil | MF 8140 620DE | MF 8150 620DS | MF 8160 634DS | MF 8250 634DWE 7.4 | MF 8280 645.142DSBIE 8.4 - Sampo Rosenlew: SR 2035 4 cil | SR 2045 4 cil Turbo | SR 2055 6 cil | SR 2065 6 cil Turbo | SR 2075 TS 6 cil Turbo | SR 2085 TS 6 cil Turbo | SR 3045 620DSEL 6.6 | SR 3065 620DSBAEL 6.6 - Ursus: C-330M/335 S312C | C-360 S4003 - Valtra: 255 320D | 355 320D | 365S 320DS Turbo | 455 320DS Turbo | 465 320DS Turbo | 504 310B 2.7 | 565 320DS Turbo | 604 311C/CS 3.3 | 6100 320DS Turbo | 620DSBIE 7.4 | 6300 420 4.4 | 6400 420DS/DW | 6600 320DS Turbo/420DS | 665S 420D | 6750 420DWRIE 4.4 | 6800 420DWI | 6850 420DWRIE 4.4 | 800 | 8000 620D | 805 | 805-4 TD44DS8(411DS8) 4.4 | 8050 | 8050 620 DS 6.6 | 8100 | 8150 | 8200 | 8350 620DSI | 8400 | 8400 620DS Turbo | 8450 620 DWRE 6.6 | 8450 620DS Turbo | 8550 634DSRE 7.4 | 8550,875 634DS Turbo | 865 420DS Turbo | 8950 634DSBIE | 900 420DSRE 4.4 | All Models | C100 420DS Turbo | C15,C20 420DS | C200 420DS | Mega 8050 620D | Mega 8150 620D | Mega 8550 620DS | Mega 8750 634 DA, DS | S260 645DSBAE 8.4 | X120 420DWRIE 4.4

## MOTOR

Iskra: AZJ320 | AZJ3234 | AZJ3247 | AZJ3319 | AZJ3405 | 11130692 | 11130710 | 11130897 | 11131249

## EQUIVALENTE / Equivalent

Iskra: 16902733 | 16904847

1601

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Kia: Besta 2.5 - 2.7

## MOTOR

Mando: K71F18400

1602

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Agco: Agco/M.F./Perkins M93R12V - Massey Ferguson: Colheiteira 3640 | Colheiteira 5650 - Perkins: 3152 | 4203 | 4236 | 6305 | 6354 - ZEN: Utiliza Planetária 12675

## MOTOR

Lucas Indiel: 35259310 | 35261175

## EQUIVALENTE / Equivalent

Lucas Indiel: 229916 | 35259916

1603

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Cummins: C 6ct 83 | C 6cta 83 - Volkswagen: Titan Cummins C | Worker Cummins - Zanello: 500 | 540 | 580 | 690

## MOTOR

Lucas Indiel: 35261135 | 35261395 | 35261740 | 35261780 | 35262190

## EQUIVALENTE / Equivalent

Lucas Indiel: 35261134 | 35261527

1604

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: Motor Cummins 6B Eletrônico 5.9 - Volkswagen: Caminhão Constellation 24.250 | Ônibus Cummins 6B Eletrônico 5.9 - Zanello: 160 - PTRAC | 180 - PTRAC

## MOTOR

Lucas Indiel: 35259240 | 35261770 | 35262020 | 35262460 - Volkswagen: 2W0911023C

## EQUIVALENTE / Equivalent

Lucas Indiel: 35260958

1605

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Kia: Pop Pride

## EQUIVALENTE / Equivalent

Remy: ESP281

1607

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

Hyundai: H-1 2.5 TD - 2.5 TD 4WD | H100 | HR | Porter 2.5 TD - Kia: Bongo 2008 | K2500 2.5D | Pregio 2.5 TCID - Mitsubishi: Katana | L200 Diesel | Pajero Classic 2.5 TD | Pajero II 2.5 TD - 2.5 TDI | Pajero III 2.5 TDI | Pajero Pinin 2.0 GDI | Pajero Sport 2.5 TD - Nissan: Interstar 90 DCI - 100 DCI - 120 DCI | Primastar 150 DCI  
Opel: Movano 2.2 DTI - 2.5 DTI | Vivaro 2.5 DTI - Renault: Avantime 2.2 DCI | Espace IV 2.2 DCI | Laguna II 2.2 DCI | Laguna II Grandtour 2.2 DCI | Master 2010... | Master II 2.2 DCI 90 - 2.5 DCI 120 | Master III 2.5 DCI - 2.5 DCI 100 | Trafic II 2.5 DCI 135 | Velsatis 2.2 DCI

## MOTOR

Valeo: D8R1 | D7R34 | D7R53 | D7R56 | D7R57 | 438158 | 438162 | 438186 | 455899 | 455954 | 458172 | 458178 | DSL42350 | 3610042350 | TM000A36101 | 36100DSL42350

## EQUIVALENTE / Equivalent

Cargo: 231932 - Hyundai: 3616042300 - Valeo: 188993 | 594410 | 0809042

1608

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Kodiak | Sierra 6.6L Diesel | Silverado 2001...2006 | Topkick Trucks 6.6L Diesel - Hitachi: Osgr 2.2KW 12v - ZEN: Utiliza Pinhão ZEN 13224

## MOTOR

Hitachi: OSGR 2.2KW 12v

## EQUIVALENTE / Equivalent

Cargo: 235510 - General Motors/Chevrolet: 97209548 | 97720446 | 97729079 - Hitachi: S14100D | S14100E | S14101A | S14101B - Isuzu: 2902769300 | 8972095483 | 8973291631 | 8973828350 - Lester: 17801



1612

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

APLICAÇÃO / Application / Aplicación

Ford: Ranger 1.8

EQUIVALENTE / Equivalent

Ford: 32051112

1613

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

APLICAÇÃO / Application / Aplicación

Ford: Ranger 1.6

EQUIVALENTE / Equivalent

Lucas: 11123205

1614

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

APLICAÇÃO / Application / Aplicación

Ford: Pick Up Lobo V6

MOTOR

Remy: 9000869

EQUIVALENTE / Equivalent

Remy: 10452918

1615

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 219

APLICAÇÃO / Application / Aplicación

Especial/Special: Jeep (Company MM) MDI 3000

EQUIVALENTE / Equivalent

Lucas: 26257341 - Mahindra: 4001115632A

1616

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

APLICAÇÃO / Application / Aplicación

Bedford: TL 1000 330 | TL 1260 330 | TL 1630 330 Turbo (107 bhp) | TL 860 330 - Case: 1820 | ACCO1820 | TX36 - JCB: 420 / 430 | 4CX Turbocharged/Intercooled | 807C | 811 | 812 | 814 | 817 | 818 | 820 | Fastrac (635) 125 | Fastrac (635) 145 | JCB Fastrac (636) 125 | JCB Fastrac (636) 135 | JCB Fastrac (636) 155 | JCB Fastrac (636) 187 - Landini: 10000S A6.354.4 | 12500 A6.354.4 | 13000 A6.354.4 | 14500 AT6.354.4 | 65 A4.236 | 6560 F/LV A4.236 | 6860 A4.236 | 6880 A4.236 | 75 A4.236 | 7560 F/L A4.236 | 7860 A4.236 | 7880 A4.236 | 85 A4.248 | 8560 F/L A4.248 | 8860 A4.248 | 8880 A4.248 | 9080 T4.236 | 95 T4.236 | 9880 T4.236 | C 75 A4.236 | C 85 A4.248 | C 95 T4.236 | CF 6830 A4.236 | CF 75 A4.236 | CF 85 A4.248 - Mahindra: Especial/Special - Massey Ferguson: MF 102 Perkins-A6.372 | MF 102 Perkins-AT6.354 | MF 105 | MF 1080 Perkins A4.318 | MF 1080 S-4RM Perkins A4.318 | MF 1085 A4.318 | MF 11 | MF 1100 Perkins A6.354 | MF 1104 | MF 1114 Perkins A6.354 | MF 1250 Séries Perkins A6.354.4 | MF 178 Perkins A4.248 | MF 186 | MF 201 | MF 205 | MF 206 | MF 207 | MF 30 D | MF 3060 / 3065 | MF 307 | MF 3070 Perkins AT4.236 | MF 374 S,V,F Perkins A4.236 | MF 394 S,F Perkins A4.248 | MF 487 | MF 50 10TD Perkins A4.236/A4.318 | MF 50 10TD/9TD Perkins A4.236/A4.212 | MF 50 9TD / EX Perkins A4.236 | MF 506 | MF 510 | MF 520 / 525 Perkins A6.354 | MF 592 / 595 Perkins A4.318 | MF 6150 1004-4THR | MF 6160 1006-6 | MF 620 / 625 Perkins A6.372 | MF 675 9TD/10TD Perkins A4.236 | MF 685 | MF 690 9TD/10TD Perkins A4.248 | MF 9500 Séries Perkins A6.354 | TX 45

New Holland: 158 | 175 | 2000 | 201 | 2514 E 256 C.I | 256 | 2600 | 2610 | 2810 | 2910 | 3000 | 3230 BSD332 | 3310 01.91 ...01/1991 | 3310X4 01.91 ...01/1991 | 3430 | 3600 | 3610 | 3900 | 3910 ...01/1991 | 3910 H | 3930 H | 4000 | 401C.I | 401C.I ...01/1991 | 4100 | 4130 H 4.4 | 444 01.91 ...01/1991 | 4600 | 4610 ...01/1991 | 4630 | 5000 | 550 | 555 | 5600 | 5610 ...01/1991 | 5640 Powerstar | 5700 | 5900 | 620 Combine ...01/1991 | 622 Combine ...01/1991 | 654 County | 655 A | 6600 | 6610 ...01/1991 | 6700 | 6710 ...01/1991 | 6810 | 7000 | 7410 | 754 County | 7600 | 7610 | 764 County | 7700 | 7710 ...01/1991 | 774 County | 7810 | 7910 | 8000 | 8200 ...01/1991 | 8260 Powerstar 7.5 | 8530 | 8600 | 8630 | 8700 | 8830 | 9000 | 910 Speed Power ...01/1991 | 912 Speed Power ...01/1991 | 944 County | 9600 | 964 County | 9700 | 974 County | BSD442 | M Série 7,5 ...09/1995 | NH 95 M8Y ...01/1996 | P357 e 358 ...01/1991 | Séries 10,L/Cab - Renault Agri: 70-12 SP Perkins 4.236 | 70-14 SP Perkins 4.236 | 70-32 PA/PE/PS/PX Perkins 4.236 | 70-34 PA/PE/PS/PX Perkins 4.236 | 70-4F Perkins 4.236 | 80-12 SP Perkins 4.248 | 80-14 SP Perkins 4.248 | 80-32 PA/PE/PS/PX Perkins 4.248 | 80-34 PA/PE/PS/PX Perkins 4.248 | Ceres 75 2X4/4X4 Perkins 4.236 | Ceres 75X 2X4/4X4 Perkins 4.236

MOTOR

Iskra: AZJ3144 | AZJ3148 | AZJ3151 | AZJ3182 | AZJ3198 | AZJ3201 | AZJ3203 | AZJ3205 | AZJ3206 | AZJ3212 | AZJ3248 | AZJ3287 | AZJ3305 | AZJ3306 | AZJ3315 | AZJ3352 | AZJ3357 | AZJ3447 | 11130509 | 11130520 | 11130526 | 11130579 | 11130624 | 11130627 | 11130629 | 11130631 | 11130632 | 11130659 | 11130711 | 11130785 | 11130835 | 11130872 | 11130875 | 11130890 | 11130998 | 11131018 | 11131635

EQUIVALENTE / Equivalent

Iskra: 16901694

1617

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Ford: Focus I4 Automático/Manual | Ranger Duratec HE 2.3

## MOTOR

Lucas Indiel: 35261260 | 35261295 | 35261640

## EQUIVALENTE / Equivalent

Lucas Indiel: 35261112 | 35262929

1618

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Renault: Master Eletrónico DCi120 2005

## MOTOR

Valeo: D7G11 | 8200225336

## EQUIVALENTE / Equivalent

Valeo: 191363

1619

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Daewoo: Musso 2.3 - Mercedes Benz: 190 1.8 | 190 2.0 | 190 2.0 E | 190 2.3 E | 190 2.5 16V | C 180 - 200 - Kompressor - 220 - 230 | C 230 Kompressor | CLK 200 - Kompressor | CLK 230 - Kompressor | E200 Kompressor - V200 - V230 | Sprinter 214 | Sprinter 314 | Sprinter 414 2.3 | Vito 2.0 113 - 114 - Opel: Astra 1.2 16V | Astra 1.4 16V | Astra 1.6 16V | Astra 1.6i | Corsa 1.0 12V | Corsa 1.2 16V | Corsa 1.4 16V | Corsa 1.6i | Corsa 1.8 16V | Meriva | Tigra | Vectra 1.4 16V | Vectra 1.6 16V  
Vauxhall: Corsa 1.0 12V | Corsa 1.2 16V | Corsa 1.4 16V | Corsa 1.6i | Corsa 1.8 16V - Volkswagen: Passat Alemão

## MOTOR

Bosch: 0001107401 | 0001107402 | 0001107403 | 0001107404 | 0001107405 | 0001107406 | 0001107408 | 0001107409 | 0001107421 | 0001107427 | 0001107428 | 0001107435 | 0001107436 | 0001107446 | 0001107447

## EQUIVALENTE / Equivalent

Bosch: 1006209793 | 1006209801 | 1006209807 - Cargo: 234247

1620

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Daewoo: Damas

## EQUIVALENTE / Equivalent

Remy: 10475540

1621

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Agrale: Trator 4230 CAT 3126 M790 | Trator 4230.4 CAT 3126 M790

## MOTOR

Lucas Indiel: 35260890 - Prestolite: 35260890

## EQUIVALENTE / Equivalent

Lucas Indiel: 35260975 - Prestolite: 35260975

1622

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Agco: Agco/M.F. M93R12V - International: Jacto Perkins 1006/ T | Maxion S4 | Perkins 1006/ T | Retroescavadeira Maxion S 4 - Massey Ferguson: Maxion 3000 Perkins 4000 4.1 | MF 265 Perkins A4.236 3.9 | MF 275 Perkins P4000 4.1 | MF 283 Perkins P4000 4.1 | MF 290 Perkins P4000 4.1 | MF 292 Perkins P4000 4.1 | MF 5275 Perkins Série 4.41 4.1 | MF 5285 Perkins Série 4.41 4.1 | MF 52902 Perkins Série 4.41 4.1 | MF 5300 Perkins 1004 4T 4.0 | MF 5310 Perkins 1004 4T 4.0 | MF 86HS Perkins 4.236 4.0 | MF 96 Perkins 4000 4.1

## MOTOR

Lucas Indiel: 35259300 | 35260940 | 35260950 | 35261070 - Prestolite: 35260940 | 35260950 | 35261070

## EQUIVALENTE / Equivalent

Lucas: 229278 | 35259278 - Lucas Indiel: 229278 | 35259278 - Prestolite: 229278 | 35259278

1623

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Ford: Cargo Cummins ISBe 6 cil | F12000 Cummins B Aftercooler 5.9 | F14000 Cummins B Aftercooler 5.9 | F16000 Cummins B Aftercooler 5.9 - Volkswagen: Caminhão Cummins B Eletrônico

## MOTOR

Lucas Indiel: 35259880 | 35261120 | 35261155 | 35262580 - Prestolite: 35259880 | 35261120 | 35261155

## EQUIVALENTE / Equivalent

Lucas Indiel: 226660 | 35260999 - Prestolite: 226660 | 35260999

1624

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Fiat: 440 | 450 | 455 | 50 | 60 | 65 | 70 | 80 | 85 - Ford: 3010S 1992...1996 | 3830 1992...1996 | 4010S 1992...1996 | 4030 1992...1996 | 5010S 1996... | TN55 | TN55D | TN55S | TN65 | TN65 Turf | TN65D | TN65S | TN65V | TN70 | TN70D | TN70S | TN75 | TN75D | TN75S | TN75V - New Holland: Especial/Special | Trator

## MOTOR

Bosch: 0001223503 | 0001223504 | 0001362105 - Iveco: 500338953 - Lucas Indiel: LRS1976 | LRS01976 - Magneti Marelli: MSN2036

## EQUIVALENTE / Equivalent

Bosch: 6033AD0331

1629

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: E 270 CDI | E 320 CDI | ML 270 CDI | S 320 CDI | Sprinter 2.3 2000...2003 | Sprinter 216 | Sprinter 316 | Sprinter 416 CDI

## MOTOR

Bosch: 0001223005 | 0001223006 - Mercedes Benz: 51512501

## EQUIVALENTE / Equivalent

Bosch: 6033AD0218

1630

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: Alfa Romeo 156 | Alfa Romeo 166 2.4 TD - BMW: BMW 325 | BMW 525 | BMW 725 - Fiat: Brava 1.9 TD | Bravo 1.9 TD | Marea 1.9 | Marea 2.4 TD  
Lancia: K 2.4 TD - Opel: Omega 2.5 TD

## MOTOR

Fiat: 46454895 | 46463250 - Magneti Marelli: 63114008 | 63114010 | 63222005

## EQUIVALENTE / Equivalent

Fiat: 9947748

1631

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Audi: A4 2.5 TDI | A6 2.5 TDI | A8 2.5 TDI | Quattro - Skoda: Super B 2.5 TDI - Volkswagen: Passat 2.5 TDI | Syncro 4 Motion

## MOTOR

Bosch: 0001109021 | 0001109022 | 0001109066 | 0001109067

## EQUIVALENTE / Equivalent

Bosch: 1006209666 | 1006209936

1632

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

## APLICAÇÃO / Application / Aplicación

Audi: A3 1.6 - 1.6 FSI | A3 2.0 FSI - Seat: Altea 1.6 | Altea 2.0 FSI | Cordoba 1.2 | Cordoba 1.4 16V | Cordoba 1.6 | Ibiza 1.2 | Ibiza 1.4 16V | Ibiza 1.6 | Stella - Skoda: Fabia 1.2 | Fabia 1.4 16V - Volkswagen: Beetle 2005... 2009 | Bora 1.6 FSI | Bora 2.0 FSI | Caddy 1.4 | Golf 2005... 2009 | Golf 1.4 16V - 1.4 FSI - 1.6 FSI - 2.0 FSI | Jetta 2005... 2009 | Multivan 2.0 | Polo 1.4 16V - 1.4 FSI | Touran 1.6 - 1.6 FSI - 2.0 FSI | Transporter 2.0

## MOTOR

Bosch: 0001120400 | 0001120401 | 0001120404 | 0001120405 | 0001120406 | 0001120407 | 0001120408 | 0001120409 | 0001120410 | 0001120411 | 0001121408 | 0001121409 | 0001121410 | 0001121411 | 0001122400 | 0001122401

1632

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

EQUIVALENTE / Equivalent

Bosch: 1006209806

1633

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

APLICAÇÃO / Application / Aplicación

Tramontini: Trator T3230 4 Série Brasil | Trator T5045 4 Série Brasil

1635

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

APLICAÇÃO / Application / Aplicación

Ford: F1000 Maxion HS 4 cil 2.5 | Ranger Maxion HS 4 cil 2.5 - General Motors/Chevrolet: Blazer Maxion HS 4 cil 2.5 | S10 Maxion HS 4 cil 2.5 - International: Matra Maxion HS 4 cil 2.5 | Retroescavadeira Maxion HS 4 cil 2.5 - Land Rover: Defender Gemini III 4 cil 2.5 | Discovery Gemini III 4 cil 2.5 - Mercedes Benz: Sprinter Maxion HS 4 cil 2.5 - Troller: T4

MOTOR

Lucas Indiel: 35258490 | 35258660 | 35259040 | 35259400 | 35260828

EQUIVALENTE / Equivalent

Lucas Indiel: 229023

1636

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 220

APLICAÇÃO / Application / Aplicación

Agrale: Trator 4100 | Trator 4100.4

MOTOR

Lucas Indiel: 35259570

EQUIVALENTE / Equivalent

Lucas Indiel: 229902 | 35259902

1637

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

APLICAÇÃO / Application / Aplicación

John Deere: Colheitadeira 1165 | Colheitadeira 1175 | Colheitadeira 1450 | Trator 6605 6 cil | Trator 7500 | Trator 7505 6 cil

MOTOR

John Deere: AJ59342 | AJ60123 | RE509856 | RE509857 - Lucas Indiel: 35259390 | 35259590 | 35259600 | 35259690

EQUIVALENTE / Equivalent

Lucas Indiel: 229912 - Prestolite: 229912

1638

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

APLICAÇÃO / Application / Aplicación

Mercedes Benz: Caminhão 1316 OM352/352A | Caminhão 1513 OM352/352A | Ônibus O364 OM352/352A - New Holland: Colheitadeira FNH 8040 | Colheitadeira FNH 8255 - Toyota: Bandeirantes OM 364

MOTOR

Bosch: F000AL0128

EQUIVALENTE / Equivalent

Bosch: F000AL2617

1641

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

APLICAÇÃO / Application / Aplicación

Fiat: Motor 1.3 JTD 16V - Lancia: Motor 1.3 JTD 16V - Opel: Motor 1.3 JTD 16V

MOTOR

Bosch: 0001107429 | 0001107437 | 0986021240

EQUIVALENTE / Equivalent

Bosch: 1006209796

1642

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Citroën: Jumper - Fiat: Ducato - Ford: Transit - Land Rover: Defender 2.4 TD4 2007... - Peugeot: Boxer | Boxer 2.2 HDI 2006...

## MOTOR

Bosch: 0001109205 | 0001109304 | 0001109305 | 0001109388 | 0986021810 - Cargo: 330265

## EQUIVALENTE / Equivalent

Bosch: 1006209824 | 1006210128 | 1006210146

1643

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Citroën: Jumper - Peugeot: 406 | 605 | 607 | 807 | Boxer 2.5 TDI 1994...2002

## MOTOR

Bosch: 0001223001 | 0986016950

## EQUIVALENTE / Equivalent

Bosch: 6033AD0004

1646

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Mazda: Mazda B-2000

## EQUIVALENTE / Equivalent

Mazda: F8RU88D004

1647

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

John Deere: 1420 3 e 4 cil | 2140 6359 / 4239D | 2330 3 e 4 cil | 2420 3 e 4 cil | 2530 3 e 4 cil | 2730 3 e 4 cil | 2850 6359 / 4239D | 3140 6359 / 4239D | 3350 6359 / 4239D | 3420 | 3530 | 3540 6359 / 4239D | 3550 6359 / 4239D | 4420 | 4530 6 cil | 5320N 3029T 3 cil 2.9 | 5410 4.5 4 CIL | 5520N 4045T 4 cil 4.5 | 5600 4039 D 3.9 | 5649 | 5700 4039T 4 cil 3.9 | 627 | 6300 4039T 4 cil 3.9 | 6600 6059T 6 cil 5.9 | 727 6 cil | Bulldozer 570 | Bulldozer 570A

## MOTOR

Lucas Indiel: 35261385

## EQUIVALENTE / Equivalent

Lucas Indiel: K01554 - Prestolite: 35261543

1648

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Cummins: Motor 8.3 - Ford: Cargo 1622 Cummins 6CTAA 8.3 | Cargo 2422 Cummins 6CTAA 8.3 | Cargo 2425 Cummins 6CTAA 8.3 | Cargo 2425 Mixer Cummins 6CTAA 8.3 | Cargo 2630 Cummins 6CTAA 8.3 - International: Navistar DT360 5.9 | Navistar DT446 - I6 7.6

## MOTOR

Lucas Indiel: 35259450 | 35259730 | 35259810 | 35260870 | 35261050 | 35261160

## EQUIVALENTE / Equivalent

Lucas Indiel: 35260838

1650

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Citroën: Jumper 2.8 HDI | Relay 2.8 HDi - Fiat: Ducato 2.3 e 2.8 JTD - Fiat Iveco: Daily III 2.4 e 2.8 | Microônibus City Plus 2009 - Peugeot: Boxer 2.8 HDI

## MOTOR

Bosch: 2164 | 0001109300 | 0001109301 | 0001109306 | 0001109307 | 0986021640 - Citroën: 5802AQ - Fiat: MSN2026 | 63521093 | 1347058080 - Iveco: 55195970

Lucas Indiel: LRS2223 | LRS02223 - Peugeot: 5802AQ

## EQUIVALENTE / Equivalent

Bosch: 1006209818 | 1006209964 | 1006210111 | 1006210149 - Cargo: 237667 - Iveco: 50053567 | 500053567

1651

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Puma: Ônibus

## MOTOR

Lucas Indiel: 35261130 - Magneti Marelli: 943252201 - Mercedes Benz: 11519601 | 31510401 - Prestolite: 35259780

## EQUIVALENTE / Equivalent

Lucas Indiel: 35259978

1655

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Audi: S 3 Quattro | TT Coupe 1.8 - Linde: Empilhadeira - Seat: Alhambra 1.9 TDI | Cupra 4 | Lean 1.8 | Lean 2.8 V6 - Volkswagen: Bora 1.9 TDI | Caravelle 2.5 e 2.8 TDI | Golf 1.9 TDI | Sharan 1.9 TDI

## MOTOR

Bosch: 0001125016 | 0001125017 | 0001125018 | 0001125019 | 0001125046 | 0001125047 | 0001125048 | 0001125049 | 0001125605 | 0001125606

## EQUIVALENTE / Equivalent

Bosch: 1006209681 | 1006209943

1656

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Especial/Special: Motor de Popa - Johnson Evinrude: 50 / 70HP

## MOTOR

OMC: 5032433

## EQUIVALENTE / Equivalent

Raisman: OM90050

1658

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Scania: P 230 DC 9.16 Euro 4 | P 270 DC 9.17 Euro 4 | P 310 DC 9.18 Euro 4 | P 340 DC 12.10 Euro 4 | P 380 DC 12.13 Euro 4 | P 380 DC 12.18 Euro 5 | P 420 DC 12.15 Euro 5 | P 420 DT 12.12 Euro 4 | P 470 DT 12.06 Euro 3 | P 480 DT 12.17 Euro 4 | R 420 DC 12.14 Euro 3 | R 420 DC 12.15 Euro 5 | R 420 DT 12.11 Euro 4 | R 470 DT 12.03 Euro 4 | R 470 DT 12.06 Euro 3 | T 340 DC 11.08 Euro 3 | T 380 DC 11.09 Euro 3 | T 420 DC 12.14 Euro 3 | T 420 DT 12.11 Euro 4 | T 470 DT 12.06 Euro 3 - ZEN: Utiliza Pinhão ZEN 12839

## MOTOR

Bosch: 0001241001 | 0001241003 | 0001241004 | 0001241005 | 0001241006 | 0001241007 | 0001241008 | 0001241009 | 0001241014 | 0001241015 | 0001241016 | 0001241019 | 0001241020 | 0001241021 | 0001241023 | 0001241024 | 0001241119 | 0001261001 | 0001261002 | 0001261004 | 0001261006 | 0001261008 | 0001261013 | 0001261026

## EQUIVALENTE / Equivalent

Bosch: 6033AD5055 | 6033AD5078 | 6033AD5355 | 6033AD5356 - Daf: 1679152

1661

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Volkswagen: Caminhão 26260 2008 - Volvo: Caminhão FM e FH - ZEN: Utiliza Pinhão ZEN 12972

## MOTOR

Mitsubishi: M9T61671 | M009T62571 | M009T625727

## EQUIVALENTE / Equivalent

Cargo: 237105 - Mitsubishi: M191T94071

1666

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

## APLICAÇÃO / Application / Aplicación

Fiat: Doblo | Idea | Marea | Novo Uno | Palio | Strada

## MOTOR

Bosch: F000CD0001 | F000CD0900 | F000CD0901 | F000CD0903 | F000CD0905 - Fiat: 51888915

1666

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

EQUIVALENTE / Equivalent

Bosch: F000CD1009 | F000CD1444 - Fiat: 51888915

1667

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 221

APLICAÇÃO / Application / Aplicación

Kia: Besta 2.7 | Bongo - ZEN: Utiliza Pinhão ZEN 13021

MOTOR

Mando: MG122423 | MG122565

1668

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

APLICAÇÃO / Application / Aplicación

Johnson Evinrude: OMC 50 / 70HP em 3 partes 1994...

EQUIVALENTE / Equivalent

Raisman: OM90070

1669

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

APLICAÇÃO / Application / Aplicación

Johnson Evinrude: OMC V-6 150 / 235HP

MOTOR

OMC: 387094 | 395207 | 585062 | 586288

EQUIVALENTE / Equivalent

Raisman: OM90100 | OM90150

1670

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

APLICAÇÃO / Application / Aplicación

Johnson Evinrude: OMC V4 / V6 60°

EQUIVALENTE / Equivalent

Raisman: OM900V49

1671

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

APLICAÇÃO / Application / Aplicación

Johnson Evinrude: OMC V4 em 3 partes 1994...

EQUIVALENTE / Equivalent

Raisman: OM900V4

1672

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

APLICAÇÃO / Application / Aplicación

Mercury: V6/200HP Optimax

EQUIVALENTE / Equivalent

Raisman: MM90200

1673

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

APLICAÇÃO / Application / Aplicación

Especial/Special: Motor de Popa - Mercury: 40 a 150 HP V6 - OMC: V4 | V6 | V8

EQUIVALENTE / Equivalent

Mercury Marine: 685753 - OMC: 385949 - Raisman: OM90090

1674

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

## APLICAÇÃO / Application / Aplicación

Renault: Logan | Megane 2008... | Sandero

## MOTOR

Bosch: F000CD0002 | F000CD1113

## EQUIVALENTE / Equivalent

Bosch: F000CD1114

1675

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

## APLICAÇÃO / Application / Aplicación

Ford: F250 2002... | F350 2002... | F4000 Cummins ...02/2009

## MOTOR

Bosch: F000AL0130 | F000AL0151 - Ford: 7C3511001AA

## EQUIVALENTE / Equivalent

Bosch: F000AL2638

1676

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

## APLICAÇÃO / Application / Aplicación

Ford: 3,6 Kw | Ford F series diesel

## MOTOR

Ford: 7C3T11000AA | 7C3T11000AB | 7C3Z11002AA

## EQUIVALENTE / Equivalent

Ford: VP7C3U11350AB

1677

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

## APLICAÇÃO / Application / Aplicación

Ford: Edge V6 3.5L 3496cc 213cid 2007...2016 | Edge V6 3.7L 3726cc 227cid 2011...2014 | Explorer V6 3.5L 3490cc 213cid 2013 | Explorer V6 3.5L 3496cc 213cid 2011...2016 | Flex V6 3.5L 3496cc 213cid 2009...2016 | Lincoln MKS V6 3.5L 3490cc 213cid 2011...2012 | Lincoln MKS V6 3.5L 3496cc 213cid 2010...2016 | Lincoln MKS V6 3.7L 3726cc 227cid 2009...2016 | Lincoln MKT V6 3.5L 3496cc 213cid 2010...2016 | Lincoln MKT V6 3.7L 3726cc 227cid 2010...2016 | Lincoln MKX V6 3.5L 3496cc 213cid 2007...2010 | Lincoln MKX V6 3.7L 3726cc 227cid 2011...2016 | Lincoln MKZ V6 3.7L 3726cc 227cid 2013...2016 | Mercury Sable V6 3.5L 3496cc 213cid 2008...2009 | Police Interceptor Sedan V6 3.5L 3496cc 213cid 2013...2016 | Police Interceptor Sedan V6 3.7L 3726cc 227cid 2013...2016 | Taurus V6 3.5L 3496cc 213cid 2008...2016 | Taurus X V6 3.5L 3496cc 213cid 2008...2009

## MOTOR

Ford: 8G1Z11002A | 8G1Z11002B | 8G1T11000AA | 8G1T11000AB | VP8G1U11350AA

1678

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

## APLICAÇÃO / Application / Aplicación

Massey Ferguson: MF 4292 - New Holland: Trator - Valtra: Trator

## MOTOR

Iskra: AZF4102 | AZF4115 | AZF4116 | AZF4119 | AZF4122 | AZF4129 | AZF4131 | AZF4132 | AZF4135 | AZF4143 | AZF4158 | AZF4159 | AZF4160 | AZF4164 | AZF4170 | AZF4183 | AZF4184 | AZF4185 | AZF4196 | AZF4204 | AZF4205 | AZF4206 | AZF4208 | AZF4214 | AZF4228 | AZF4242 | AZF4243 | AZF4245 | AZF4246 | AZF4247 | AZF4248 | AZF4254 | AZF4258 | AZF4260 | AZF4266 | AZF4270 | AZF4283 | AZF4287 | AZF4288 | AZF4291 | AZF4304 | AZF4520 | AZF4524 | AZF4541 | AZF4542 | AZF4550 | AZF4553 | AZF4562 | AZF4568 | AZF4569 | AZF4570 | AZF4595 | AZF4597 | AZF4598 | 11130904 | 11130941 | 11131060 | 11131065 | 11131092 | 11131145 | 11131191 | 11131227 | 11131228 | 11131237 | 11131370 | 11131375 | 11131382 | 11131397 | 11131430 | 11131433 | 11131436 | 11131464 | 11131488 | 11131507 | 11131508 | 11131520 | 11131550 | 11131611 | 11131612 | 11131613 | 11131640 | 11131658 | 11131705 | 11131706 | 11131709 | 11131763 | 11131782 | 11131783 | 11131784 | 11131792 | 11131811 | 11131856 | 11131893 | 11131894 | 11131896 | 11131897 | 11131898 | 11131900 | 11131930 | 11131945 | 11131965 | 11131987 | 11132012 | 11132056 | 11132069 | 11132070 | 11132073 | 11132118

## EQUIVALENTE / Equivalent

Iskra: 16902379



1679

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

## APLICAÇÃO / Application / Aplicación

Agrale: Caminhão 13000 Com Motor MWM 6.10 TCA | Caminhões 10.000, 14.000 e 14.000 6X2 Com Motor MWM MaxxForce 4.8H. EURO V 01/2012... | Caminhões 6000, 8500 e 9200 Com Motores MWM 4.10 TCA e MWM 4.12 TCE | Chassis MA 7.9, MA8.5, MA9.2, MA10.0, MA12.0, MA15.0 e MT12.0 Com Motores MWM4.10 TCA e MWM 4.12 TCE | Furgovan 8000 Com Motor MWM 4.10 TCA | Ônibus MA12.0, MA15.0, MT15.0 LE, MA10.0 e MA9.2 Com Motor MWM MaxxForce 4.8HEURO V 01/2012... | Ônibus Volare W8, W9 e V8 Com Motores MWM 4.10 TCA ...2008 | Ônibus W8, W9 e V8 Com Motores MWM 4.12 TCE 2008... - BMW: Motor MWM 4.10TCA AGRALÉ CAMINHAO 8500D | Motor MWM 4.12TCE Agrale MA 12 185CV | Motor MWM 4.12TCE ITEC MIDI BUS (América Latina) | Pulverizadora Montana Parruda 2627M e 2627H Com Motor MWM 4.10L TCA 07/2012... - Case: Motoniveladora 845, 845.2, FG 140.2 | Motoniveladora RG140B e 845 com transmissão ZF | Pá Carregadeira W20, 521D, 621D, W130 Fiat Allis: Pá Carregadeira FR128 - Substitui 10479654 | Trator de Esteira 7D - Substitui 10479654 - Ford: Caminhões C1722e (4x2), C2422e(6x2), C2622e (6x4), C2428e (6x2), C2628e (6x4) Com Motor Cummins Eletrônico ISB (4 e 6 Cilindros) ...03/2011 | Caminhões C815e (4x2), C1317e (4x2), C1517e (4x2), C1717e (4x2) Com Motor Cummins Eletrônico ISB (4 e 6 Cilindros) ...03/2011 - Freightliner: Caminhões M2 Com Motor MB906/904 - Mercedes Benz: Axor 1419, 1719, 1726, 1726 4x4, 1729S, 2426 6x2 e 2429 6x2 Com Motores eletrônicos24V OM 924 LA e OM 926 LA - Euro V 01/2012... | Axor 1933, 2533, 2826, 2828, 2831 Com Motores eletrônicos OM906 e OM 926 | Caminhões 710, 712E, 1418R, 1720, 1720K, L1620 - Chassi de Ônibus LO 712, LO 812 Com Motores mecânicos 12V OM 364 e OM 366) - 29MT | Caminhões 712C, 715, 714C, 915C, 1215, 1218EL, 1218L, 1418 EL, 1418L, 1718, 1725 | Caminhões Família Accelo: 815 e 1016 Com Motor eletrônico 24V OM 924 LA - Euro V 01/2012... | Caminhões Família Atron: 1319, 2324, 2729K (Basculante), 2729B (Betoneira) e2729 Com Motores eletrônicos 24V OM 924 LA e OM 926 LA -Euro V 01/2012... | Chassi de ônibus LO 914, 0500M, 0500U, 0500R, OF 1417, OF1418, OF 1518, OF 1721, Com Motores eletrônicos 24V OM 904, OM 906, OM 924 eOM 926 | Família Atego (1315, 1418, 1518, 1718, 1725, 2425), L1318, 2423B,2423K, L1620 | Fora de Estrada Família Axor: 2831K (Basculante), 2831B (Betoneira) e 2831P (Plá Com Motor eletrônico 24V OM 926 LA - Euro V 01/2012... | Ônibus Boxer e Torino Com Motor OM904/906 12V | Ônibus Rodoviário O500M 1826 BUGGY e O500R 1830 Com Motor eletrônico OM926 LA - Euro V 01/2012... | Ônibus Urbano OF1519,OF1721, OF1724, O500M 1826, O500U 1826 Com Motores eletrônicos 24V OM 924 LA eOM 926 LA - Euro V 01/2012... | Rodoviário Família Axor 1933 e 2533 Com Motor eletrônico 24V OM 926 LA - Euro V 01/2012... - Navistar: Ônibus 4700 Com Motor MWM 4.8L euro II y III - New Holland: Motoniveladora 140 | Pá Carregadeira 12C | Trator de Esteira 7D - Remy: 29MT - Volkswagen: Caminhões 17-250E, 24-250E Com Motor Cummins ISB 4 e 6 cil ...09/2009 | Caminhões 17-250E, 24-250E Com Motor Cummins ISB 4 e 6 cil 10/2009... | Caminhões 8-150 Eletr Delivery Puls, 9-150E, 10-150E, 13-180E, 15-190E 06/2009... | Caminhões 9-150 Eletr Delivery Com Motor Cummins 01/2010... | Caminhões constellation 13-180, 15-180, 17-260, 26-260E, 31-260E Motor MWM Eletrônico 4 e 6 Cilindros | Caminhões Worker 8-120 EuroII e III. 13-180 Euro II e III, 15-180 Euro III.17-18 Motor MWM 4 e 6 cilindros | Delivery 5.150, 8.160 e 9.160 3.8L Com Motor Cummins ISF (Euro V) 01/2012... | Ônibus 17-230EOD/V-tronic e 17-260EOD/ V-tronic Motor MWM Eletrônico 4 e 6 Cilindros com Transmissão ZF | Ônibus 8-150 ODC / FEB, 9-150 ODC Com Motor Cummins ISB 4 e 6 cil | Ônibus 8.120 OD Euro II e III Motor MWM 4 cilindros - Volvo: VM 210, 260, 310 Com Motores MWM 4.12TCE e 6.12TCE ...12/2011 - ZEN: Utiliza Pinhão ZEN 12954 | Utiliza Pinhão ZEN 12955 | Utiliza Pinhão ZEN 12956 | Utiliza Pinhão ZEN 12957 | Utiliza Pinhão ZEN 12961

## MOTOR

Remy: 8200003 | 8200004 | 8200014 | 8200054 | 8200064 | 8200065 | 8200103 | 8200138 | 8200196 | 8200231 | 8200292 | 8200295 | 8200296 | 8200297 | 8200326 | 8200331 | 8200357 | 8200386 | 8200387 | 8200400 | 8200474 | 8200478 | 8200495 | 8200511 | 8200512 | 8200564 | 8200816 | 8200826 | 8200848 | 8200853 | 8200854 | 8200875 | 8200882 | 8200884 | 8200885 | 8200886 | 8200887 | 8200889 | 8200890 | 19011400 | 19011402 | 19011403 | 19011407

## EQUIVALENTE / Equivalent

Remy: 10515810 | 10515811

1680

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Omega CD 4.1

## MOTOR

Remy: 10455711

## EQUIVALENTE / Equivalent

Mitsubishi: 15171 | M191T15171

1681

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

## APLICAÇÃO / Application / Aplicación

Tata: Indica

## EQUIVALENTE / Equivalent

Tata: 26245134

1682

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

## APLICAÇÃO / Application / Aplicación

Tata: HD 10 (TCL 4BT/6BT)

## EQUIVALENTE / Equivalent

Lucas: 26241018

1684

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 222

## APLICAÇÃO / Application / Aplicación

Ford: Especial/Special Cummins | F250

## MOTOR

Ford: 2C3511001BA | XC3511000CA | XC3U11000CA - Lucas Indiel: 35259900 | 35261760 | 35262570

## EQUIVALENTE / Equivalent

Lucas Indiel: 35260967

1685

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Fiat: Bravo E-Torq 1.6 e 1.8 16v | Doblo E-Torq 1.6 e 1.8 16v | Grand Siena 1.6 16v | Idea Adventure 1.8 16 V | Palio E-Torq 1.6 e 1.8 16v | Punto E-Torq 1.6 e 1.8 16v | Strada E-Torq 1.6 e 1.8 16v

## MOTOR

Bosch: 0001121440

## EQUIVALENTE / Equivalent

Bosch: 1006210241

1686

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Ford: Courier 2010... | Fiesta 2010... | Ka 2010...

## MOTOR

Ford: FS10B1 | 7S5511000AA | 7S5511000AB

## EQUIVALENTE / Equivalent

Valeo: 60910 | 101310 | 1201856

1687

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Honda: Motores de Pops de 40 a 200 HP

1690

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

CBT: 8240 4.248 JF 12v ...01/1984 - General Motors/Chevrolet: Série D - d20 Plus Maxion S4T JF 12V ...03/1992... 10/1996 - Massey Ferguson: MF 1630 A 6.354-4 e 1630 A 4284 JF 12V ...01/1981 | MF 3640 A 6.358 A JF 12V ...01/1973 | MF 3640 Perkins 1006-6 JF 12V ...05/1996 | MF 5650 A 6.354.4 JF 12V ...01/1982 | MF 5650 Perkins 1006-6T JF 12V ...05/1996 | MF 5650 Turbo AT 6.354.4 JF 12V ...03/1988 | MF 6845 Perkins 1006-6T JF 12V ...12/1994 | MF 6855 Perkins 1006-6TW JF 12V ...10/1993 | MF 6865 Perkins 1006-6T JF 12V ...09/1994 - Maxion: Ideal 9075 Perkins 1006-6 JF 12V ...09/1994 | Ideal 9090 Perkins 1006-6T JF 12V ...10/1993 | Ideal 9090 Perkins 1006-6TW JF 12V ...12/1994 - Mercedes Benz: OF 1113 OM 366 JF 12V ...09/1987 | OH 1113 OM 366 A JF 12V ...01/1988 | Série 9 T - 917 OM 366 A JF 12V ...01/1988

## MOTOR

Bosch: F000AL0135

## EQUIVALENTE / Equivalent

Bosch: F000AL2712

1691

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Ford: Cargo C 1216 6BT 1993... | Cargo C 1412 6BTA 1999... | Cargo C 1416 6BT 1993... | Cargo C 1617 6BTAA 1993... | Cargo C 1621 6BTAA 1999... | F 4000 4BT 1996...1998 - Mercedes Benz: L 1113 OM 352 1974... | L 1116 OM 352 A 1978... | L 1117 OM 352 A 1983... | L 1117 OM 366 LA 8 1987... | L 1316 OM 352 A 1982... | L 1317 OM 352 A 1983... | L 1319 OM 366 LA 1987... | L 1516 OM 352 A 1982... | LA 1113 OM 352 1983... | LA 1117 OM 352 A 1983... | LP 1219 OM 366 LA 1988... | LP 1419 OM 366 LA 1988... - Volkswagen: 12.170 BT 6BTAA 1997...2000 | 13170 6BTAA 2000...2001 | 13190 6BTAA 2001... | 14.170 BT 6BTAA 1997...2000 | 15170 6BTAA 2000...2001 | 16.170 6C 1993...2000 | 16200 6BTAA 1997...2000 | 17210 6BTAA 2000...

## MOTOR

Bosch: F000AL0138 | F000AL0139

## EQUIVALENTE / Equivalent

Bosch: F000AL2721

1692

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Opel: Movano - Renault: Master 2.5 | Trafic 2.5

## MOTOR

Valeo: D8R1 | D7R34 | D7R53

## EQUIVALENTE / Equivalent

Cargo: 231932 - Valeo: 188993 | 594410

1693

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Massey Ferguson: Trator 6270 | Trator 6280 | Trator 6290 | Trator com Motor Perkins

## MOTOR

Magneti Marelli: 63280040 | 63280041 - Perkins: 2873K404 | 2873K405

## EQUIVALENTE / Equivalent

Cargo: 235663

1695

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Kia: Ceed Diesel | Cerato Diesel | Picanto Diesel | Rio Diesel | Soul Diesel

## EQUIVALENTE / Equivalent

Kia: 361452A000

1696

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: Sprinter

## MOTOR

Bosch: 0001115174

## EQUIVALENTE / Equivalent

Bosch: 1006209845

1697

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Ford: Cargo C 1317 E 2005... | Cargo C 1517 E 2005... | Cargo C 1717 E 2005... | Cargo C 1722 E 2006... | Cargo C 2422 E 2006... | Cargo C 2428 E 2005... | Cargo C 2622 E 2005... | Cargo C 2628 E 2005... | Cargo C 815 E 2005...

## MOTOR

Bosch: F000AL0129 | F000AL0131 | F000AL0150 | F000AL0152

## EQUIVALENTE / Equivalent

Bosch: F000AL2630

1698

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Case: CS 105 PRO Sisu 4Cil 102 HP 4.4 | CS 130 | CS 78 Sisi 4 Cil Turbo 4.4 | CS 85 PRO Sisu 4 Cil 85HP 4.4 | CS 94 Sisu 4 Cil Turbo 4.4 | CS 95 PRO Sisu 4 Cil 93HP 4.4 | CVX 140 Sisu 6 Cil 141 HP 6.6 | CVX 150 Sisu 6 Cil Turbo 150 HP 6.6 | CVX 160 Sisu 6 Cil 160 HP 6.6 | CVX 170 Sisu 6 Cil Turbo 170 HP 6.6 | CVX 190 Sisu 6 Cil 196 HP 6.6 - Crystal Tractor: Orion 16 Sisu Diesel - JCB: Fastrac 8280 Sisu 6 Cil Tier 4 279 HP 8.4 | Fastrac 8310 Sisu 6 Cil Tier 4 306 HP 8.4 - Massey Ferguson: MF 32 Sisu 620DS 6 Cil | MF 34 Sisu 634DSA 6 Cil | MF 4292 (cab) (Brasil) Sisu 420DS 4 Cil | MF 4292 (plat) Sisu 420DS 4 Cil | MF 4297 Sisu 420DS 4 Cil | MF 4297 (cab) (Brasil) Sisu 420DS 4 Cil | MF 4297 (plat) Sisu 420DS 4 Cil | MF 4299 Sisu 420DSA 4 Cil | MF 4299 (plat) Sisu 420DSA 4 Cil | MF 4299 (plat) (Brasil) Sisu 420DSA 4 Cil | MF 4445 Sisu Diesel 44DTA 4 Cil 101HP 4.4 | MF 4445 Sisu Diesel 44DTA 4 Cil 88HP 4.4 | MF 460 XTRA (cab) (Brasil) Sisu 44DTA 4 Cil | MF 460 XTRA (plat) Sisu 44DTA 4 Cil | MF 470 XTRA (cab) (Brasil) Sisu 44DTA 4 Cil | MF 470 XTRA (plat) Sisu 44DTA 4 Cil | MF 480 XTRA (cab) (Brasil) Sisu 44DTA 4 Cil | MF 480 XTRA (plat) Sisu 44DTA 4 Cil | MF 5465 Sisu Diesel 66CTA 6 Cil | MF 5470 Sisu Diesel 44CTA 4 Cil 4.4 | MF 5480 Sisu Diesel 49CTA 4 Cil 4.9 | MF 5650 (Brasil) Sisu 620DS 6 Cil | MF 6350 Sisu 620DS 6 Cil | MF 6360 Sisu 634DSA 6 Cil | MF 6460 Sisu 44CTA 4.4 | MF 6470 Sisu 44CTA 4.4 | MF 6485 Sisu Diesel 66CTA 130kW 6.6 | MF 6490 Sisu Diesel 66CTA 6.6 | MF 6495 Sisu Diesel 66CTA 6.6 | MF 6497 Sisu Diesel 74CTA 7.4 | MF 6499 Sisu Diesel 74CTA 7.4 | MF 7140 Sisu 620DS 6 Cil | MF 7145 Sisu 634DSA 6 Cil | MF 7150 Sisu 620DS 6 Cil | MF 7170 Sisu 620DS 6 Cil | MF 7180 Sisu 620DS 6 Cil | MF 7330 Sisu 620DS 6 Cil | MF 7350 Sisu 620DS 6 Cil | MF 7370 Sisu 620DS 6 Cil | MF 7390 Sisu 620DS 6 Cil | MF 7415 Sisu 634DSA 6 Cil | MF 7485 Sisu Diesel 66CTA 6 Cil 6.6 | MF 7490 Sisu Diesel 66CTA 6.6 | MF 7495 Sisu Diesel 66CTA 6.6 | MF 7497 Sisu Diesel 74CTA 7.4 | MF 7499 Sisu Diesel 74.392CTA-4V 165kW 7.4 | MF 8160 634DS | MF 8250 634DWE 7.4 | MF 8450 Sisu Diesel 6 Cil 7.4 | MF 8460 Sisu Diesel 6 Cil Tier III 7.4 | MF 8470 Sisu Diesel 6 Cil 8.4 | MX 720 | MX 750 | Sprayer Sisu 620DS 6 Cil - McCormick: Tele-Trac Sisu 44-CWA-2V 4.4 - Pioneira: Pioneira Sisu 420DS 4 Cil

Sampo Rosenlew: 3065L Sisu Diesel 44DT 4 Cil | SR1046X Sisu Diesel 44DT 4 Cil | SR1066 Sisu Diesel 44DT 4 Cil | SR3045C Sisu Diesel 44DT 4 Cil | SR3085L TS Sisu Diesel 44DT 4 Cil - Sisu Diesel: 4.9 CWA 4 Cil 175HP 4.9 | 444CTA 4 Cil | 84 CTA-4V SCR 8.4 - Valtra: 44 DT, ETA, EWA, DW 4.4 | 6200 44DT 4.4 | 6250 Hi 44DT 4.4 | 6300 44DT 4.4 | 6350 Hi 44DT 4.4 | 6400 44ET 4.4 | 6550 Hi 44ET 4.4 | 66 ETA 6.6 | 6850 Hi 44EWI 4.4 | 6900 | 74 ETA 8.4 | 84 ETA, DTA 8.4 | A750L Sisu 420D 4 Cil | A85N/A85L 44DT 4.4 | A950 Sisu 420DS 4 Cil | A95N/A95L 44DT 4.4 | A990 Sisu 420DS 4 Cil | BC4500 Sisu 620DS 6 Cil | BH145 Sisu 620DS 6 Cil | BH165 Sisu 620DS 6 Cil | BH180 Sisu 620DS 6 Cil | BH180i Sisu 620DSA 6 Cil | BH205i Sisu 620DSA 6 Cil | BM100 Sisu 420DS 4 Cil | BM110 Sisu 420DS 4 Cil | BM125i Sisu 420DSA 4 Cil | BT150 Sisu 620DS 6 Cil | BT170 Sisu 620DS 6 Cil | BT190 Sisu 620DSA 6 Cil | BT210 Sisu 620DSA 6 Cil | S280 84ETA 8.4

## MOTOR

Agco: 836873088 - CNH: 87751000 - Iskra: AZF4141 | AZF4154 | AZF4190 | AZF4513 | 11130836 | 11131542 | 11131602 | 11131727 - Sisu Diesel: 836673290 | 836866817 - Valtra: 83646500

## EQUIVALENTE / Equivalent

Iskra: 16904776

1699

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Valtra: 685 | 685ATS

## MOTOR

Iskra: IS1165 | AZE4148 | AZE4211 | AZE4222 | AZJ3449 | 11131598 | 11131651 | 11131974 | 11132051 - Valtra: 221561 | 83645200

## EQUIVALENTE / Equivalent

Iskra: 16911403

1700

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Bobcat: Skid Steer L.TL360 - Case: JX 60 NEF 4Cil 60HP 4.5 | JX 70 NEF 4Cil 72HP 4.5 | JX 80 NEF 4Cil 82HP 4.5 | Quantum 65C NEF 4Cil Tier III 60HP 3.2 | Quantum 75C NEF 4Cil Tier III 78HP 3.2 - CNH: F5C8 4Cil 3.2 - Landini: Atlantis 100 | Atlas 70 - 80 - 85 - 90 - 100 | Frutteto | Ghibli 80 - 85 - 90 - 95 - 100 - 105 | Globalfarms 95 - 105 | Globus 65 - 75 - 80 | Mythos 90 - 100 | Powerfarm 75 - 80 - 85 - 90 - 95 - 100 - 105 | Rex 70 - 75 - 80 - 85 - 90 - 95 - 100 - 105 | Vigneto | Vision 85 - 95 - 100 - 105 - Massey Ferguson: MF 200 | MF 290 | MF 3680 | MF 4200 | MF 4290 | MF 5200 | MF 5300 | MF 6270 | MF 6280 - McCormick: 80 - New Holland: 7630 (plat) NEF TC 78kW 4Cil | 8030 (plat) NEF TAA 90kW 4Cil | TS6000 Standard (cab) NEF TC 66kW 4Cil | TS6020 (cab) NEF TAA 82kW 4Cil | TS6030 (cab) NEF TAA 90kW 4Cil | TS6040 (cab) NEF TAA 97kW 4Cil - Perkins: 1103 D | 1104 D | 1106 C

## MOTOR

Bosch: 0001223507 - CNH: 82036365 | 84208918 | 87398251 | 87583927 | 504388220 - Iskra: IS1189 | AZE4125 | AZE4128 | AZE4150 | AZE4151 | AZE4156 | AZE4159 | AZE4165 | AZE4170 | AZE4172 | AZE4173 | AZE4190 | AZE4192 | AZE4195 | AZE4197 | AZE4199 | AZE4201 | AZE4204 | AZE4207 | AZE4208 | AZE4214 | AZE4215 | AZE4221 | AZE4226 | AZE4227 | AZE4573 | AZE4579 | 11131035 | 11131036 | 11131050 | 11131112 | 11131216 | 11131279 | 11131315 | 11131424 | 11131535 | 11131544 | 11131605 | 11131606 | 11131659 | 11131696 | 11131716 | 11131761 | 11131780 | 11131781 | 11131793 | 11131890 | 11131892 | 11131932 | 11131942 | 11131946 | 11131947 | 11131956 | 11131963 | 11131964 | 11131966 | 11131975 | 11131984 | 11131989 | 11131990 | 11132050 | 11132067 | 11132068 - Iveco: 504015749

## EQUIVALENTE / Equivalent

Iskra: 16902507 | 16907197

1701

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Case: CS 110 Sisu 4 Cil Turbo 4.4 | CS 68 Sisu 3 Cil Turbo 3.3 | CS 75 Sisu 3 Cil Turbo 3.3 - Massey Ferguson: MF 3625 V/S/F/GE Sislud Diesel 33 DTA 3.3 | MF 3635 V/S/F/GE Sislud Diesel 33 DTA 3.3 | MF 3640 V/S/F/GE Sislud Diesel 33 CTA 3 Cil 82HP 3.3 | MF 3645 Sislud Diesel 33 DTA 3.3 | MF 3650 S/F/GE Sislud Diesel 33 CTA 3 Cil 92 HP 3.3 | MF 3655 Sislud Diesel 33 DTA 3.3 | MF 4435 Sislud Diesel 33 DTA 3 Cil 74 HP 3.3 - Valmet: A 75N/A75L 33 DTA 3.3 | A 85N/A85L 44DT/33DTA 4.4 | A 95N/A95L 44DT/33DTA 4.4 - Valtra: A650 Sisu 320D 3 Cil 2010... | A750 Sisu 320DS 3 Cil 2009... | A850 Sisu 320DS 3 Cil 2009... | BF65 Sisu 320D 3 Cil 2008... | BF75 Sisu 320DS 3 Cil 2008...

## MOTOR

Agco: 83646400 | 836667365 | 836673289 - Iskra: IS1064 | AZE4122 | AZE4166 | AZE4171 | AZE4209 | AZE4540 | AZE4597 | 11131116 | 11131426 | 11131515 | 11131728 | 11131773 | 11131970 - Sisu Diesel: 836673289 | 836867365 - Valtra: 83646400

## EQUIVALENTE / Equivalent

Iskra: 16907455

1702

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Nissan: Primera 2.0 2002... | Xtrail 2.0 | XTrail 2.5

## MOTOR

Mitsubishi: M1M70881 | M1M74181 | M1T70881 | M1T74181 | M1T77581 | M1T70881A | M1T74181A | N31818400 | N32718400 | N3A118400 | N31818400A | N31818400B | N32718400A | N3A1184400 - Nissan: 82881 | 87081

## EQUIVALENTE / Equivalent

Cargo: 236752 - Mitsubishi: N31818X25 | M191X16371

1704

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 223

## APLICAÇÃO / Application / Aplicación

Daewoo: Matiz

## MOTOR

Daewoo: 93741000 | TM300C10201

## EQUIVALENTE / Equivalent

Daewoo: 31871

1705

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## APLICAÇÃO / Application / Aplicación

Ssangyong: Actyon 200 XDI | Kyron XDI 2.0 | Rexton 270 XDI

## MOTOR

Valeo: TM000A34001

1706

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## APLICAÇÃO / Application / Aplicación

Hyundai: I20 1.4 | I30 1.4/1.6 2009... | IX20 1.4/1.6 2011... | IX35 1.4/1.6 2010... - Kia: Carens II CWT 1.6 | Ceed 1.4/1.6 2006... | ProCeed 1.4/1.6 2006... | Soul CWT 1.6 | Sportage 1.6 2010... | Venga 1.4/1.6 2006... - Mitsubishi: Galant | L200 | Lancer | Montero 3.0 - 3.5 | Pajero 3.0 - 3.5 - 3.8 | Pajero TR4 | PT Cruiser GT 2.4

## MOTOR

Mitsubishi: MOT20471 | MOT20472 | MOT30672 | MOT30771 | MOT35171 | MOT36071 | M000T20471 | M000T20472 | M000T30672 | M000T30771 | M000T32572 | M000T35171 | M000T36071

## EQUIVALENTE / Equivalent

Cargo: 331730 - Mitsubishi: 15871 | M191T15871 | M191X15871

1707

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## APLICAÇÃO / Application / Aplicación

Tata: Cummins 6BT 12

## EQUIVALENTE / Equivalent

Lucas: 26241399

1708

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## APLICAÇÃO / Application / Aplicación

Nissan: Almera 1.5 16V - 1.8 16V | Micra | Primera 1.6 16V - 1.8 16V | Tino 1.5 16V - 1.8 16V

## MOTOR

Bosch: 0001107092 | 0001107093 | 0001116006

## EQUIVALENTE / Equivalent

Bosch: 1006209714 | 1006209934 | 1006209952 | 1006210117 | 1006210125 | 1006210147 | 1006210154 - Cargo: 235200

1709

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## APLICAÇÃO / Application / Aplicación

John Deere: 5200 | 5300 | 5303 | 5310 | 5400 | 5410 | 5500 | 5510

## MOTOR

Iskra: AZE4169 | AZE4185 | AZE4228 | AZE4261 | 11131751 | 11131833 | 11132084 | 11132227

## EQUIVALENTE / Equivalent

Iskra: 16902653

1711

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## APLICAÇÃO / Application / Aplicación

Especial/Special: Retroescavadeira Chinesa - Foton: Pá Carregadeira FL 917

## MOTOR

Foton: QD263

1712

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## APLICAÇÃO / Application / Aplicación

Volkswagen: Fox | Gol G5 | Golf 2010...2014 | Saveiro | Spacefox | Voyage

## MOTOR

Bosch: F000CD0800 | F000CD0801 - Volkswagen: 5U0911023 | 5U0911335

## EQUIVALENTE / Equivalent

Bosch: F000CD1117

1713

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## APLICAÇÃO / Application / Aplicación

Agrale: Trator Motor M795W Bicilindrico

## MOTOR

Lucas Indiel: 35261810

## EQUIVALENTE / Equivalent

Lucas Indiel: 35261976

1714

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## APLICAÇÃO / Application / Aplicación

Ford: C-Max 2000 2007...2010 | Focus C Max 2000 2003...2007 | Focus II 2000 2004...2008 | Galaxy 2000 2006...2008 | Galaxy 2200 2008...2010 | Kuga 2000 2008...2010 | Mondeo Mk4 2000 2007...2010 | S Max 2000 2006...2008 | S Max 2200 2008...2010 - Volvo: C30 2000, D4204T 2006...2008 | C70 II 2000, D4204T 2006...2008 | S40 2000, D4204T 2004...2010 | V50 2000, D4204T 2004...2010

## MOTOR

Ford: 1469721 | 3M5T11000CC | 3M5T11000CD | 3M5T11000CE | 3M5T11000DC | 4M5T11000FA | 4M5T11000FB | 4M5T11000FC | 4M5T11000FD | 6G9N11000FA

## EQUIVALENTE / Equivalent

Cargo: 236876

1715

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## APLICAÇÃO / Application / Aplicación

Tata: Ace | Indigo

1715

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

EQUIVALENTE / Equivalent

Tata: 26258286

1716

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

APLICAÇÃO / Application / Aplicación

Mahindra: Bolero SLE e SLX Mdi 3.2 Lts Diesel | Jeep Scorpio

EQUIVALENTE / Equivalent

Lucas: 26245621

1717

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

APLICAÇÃO / Application / Aplicación

Mahindra: Scorpio - Tata: Indica | Safari Diesel | Safari Petrol

EQUIVALENTE / Equivalent

Lucas: 26256675

1718

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

APLICAÇÃO / Application / Aplicación

Alfa Romeo: 156 1.9 JTD - BMW: BMW 320, Séries X3,X5 - Fiat: Multipla 1.9 JTD

MOTOR

BMW: 12417788680 | 12417788682 - Magneti Marelli: 63113001 | 63113002 | 63113004 | 63193001 | 63280071

EQUIVALENTE / Equivalent

Cargo: 231899 | 332145

1719

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

APLICAÇÃO / Application / Aplicación

Lucas Indiel: Motores Indiel M100R - New Holland: TM135E | TM150E | TM165 | TM180 | TS100 | TS110

MOTOR

Lucas Indiel: 35261445

EQUIVALENTE / Equivalent

Lucas Indiel: 35261625

1720

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

APLICAÇÃO / Application / Aplicación

BMW: Série 1 | Série 3 | Série 5 | Série 6 | Série 7 | X1 | X3 2.0 2.5 e 3.0 | X5 | X6 | Z4 2.2 2.5 e 3.0 - Toyota: Avensis | Celica | Corolla

MOTOR

BMW: 12417515390 | 12417515391 | 12417524843 | 12417610348 - Bosch: 0001107423 | 0001107424 | 0001107425 | 0001107426 | 0001107433 | 0001107434 | 0001107442 | 0001107443 | 0001107448 | 0001107449 | 0001107514 | 0001107525 | 0001107526 | 0001107529 | 0001122201 - Toyota: 281000T090

EQUIVALENTE / Equivalent

Bosch: 1006209799 | 1006209981 | 1006209982

1722

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

APLICAÇÃO / Application / Aplicación

Daihatsu: Rocky F80 - Especial/Special: Motocicletas - JCB: Escavadeira - Mazda: B2200 - Toyota: 2S | 2Y | 2Y 2.2 | 3Y | Camry | Carina | Celica | Corolla | Dyna | Hilux | JR 7 | MR 2 | Tercel - ZEN: Utiliza Pinhão ZEN 9186

1722

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 224

## MOTOR

Daihatsu: 2810072010 - Ishikawjima: 185086240 | 185086340 - Kubota: 1550463011 | 1574163011 - Nippondenso: 280004010 | 280004343 | 280004450 | 280005900 | 280005912 | 280006001 | 280006120 | 280006332 | 280006362 | 280006450 | 280006930 | 280007321 | 280007392 | 280007560 | 280007620 | 280008050 | 280008060 | 280008220 | 280008261 | 280008290 | 280008320 | 280008850 | 280009070 | 280009260 | 280009380 | 280009711 | 280009720 | 280009860 | 1280000101 | 1280000220 | 1280000230 | 1280000500 | 1280000510 | 1280001370 | 1280001440 | 1280001441 | 1280001520 | 1280001630 | 1280002060 | 1280003340 | 1280003350 | 1280003590 | 1280003670 | 1280003990 | 1280004420 | 1280005110 | 1280005261 | 1280005410 | 1280005700 | 1280005780 | 1280005781 | 1280005840 | 1280005850 | 1280007090 | 1280007100 | 1280007330 | 1280007680 | 1280007690 | 1280007912 | 1280008070 | 1280008080 | 1280008240 | 1280008560 | 2280000311 | 2280000580 | 2280000960 | 2280001100 | 2280001110 | 2280001710 | 2280002020 | 2280002121 | 2280002300 | 2280002610 | 2280002620 | 2280002682 | 2280002691 | 2280002701 | 2280002760 | 2280002770 | 2280002851 | 2280002880 | 2280003200 | 2280003290 | 2280004320 | 2280004330 - Toyota: 2810010040 | 2810010060 | 2810013010 | 2810015020 | 2810015040 | 2810015070 | 2810015130 | 2810015180 | 2810016020 | 2810016080 | 2810016110 | 2810027010 | 2810027030 | 2810027050 | 2810027060 | 2810031010 | 2810034060 | 2810034080 | 2810034100 | 2810041060 | 2810042040 | 2810042050 | 2810044030 | 2810044050 | 2810045033 | 2810045050 | 2810051031 | 2810060070 | 2810063020 | 2810063050 | 2810072010 | 2810072020 | 2810072030 | 2810072040 | 2810072050 | 2810072060 | 2810072070 | 2810072090 | 2810072100 | 2810072110 | 2810073010

## EQUIVALENTE / Equivalent

Cargo: 132004 - Honda: 31204657617 - Ishikawjima: 185866150 - Isuzu: 8941291870 - Kubota: 1550463041 - Lester: 16248 | 16251 | 16578 | 16586 | 16600 | 16612 | 16674 | 16735 | 16736 | 16737 | 16759 | 16760 | 16761 | 16786 | 16790 | 16802 | 16821 | 16823 | 16825 | 16826 | 16827 | 16828 | 16829 | 16831 | 16833 | 16834 | 16837 | 16878 | 16892 | 16895 | 16906 | 16911 | 16913 | 17002 | 17003 | 17027 | 17125 | 17143 | 17171 | 17240 | 17251 | 17256 | 17345 | 17420 | 17422 | 17481 | 17487 | 17521 | 17530 | 17537 | 18181 | 18182 - Nippondenso: 0283001600 | 0283001601 | 0283001602 | 0283001603 | 0283001790 | 0283001791 | 0283001800 | 0283002000 | 0283002110 | 0283002111 | 0283002270 | 0283003630 | 0283003631 | 0283004160 | 0283006940 - Toyota: 2801120540 | 2801126041 | 2801126042 | 2801135030 | 280110710 - Unipoint: SD5053

1723

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

## APLICAÇÃO / Application / Aplicación

Subaru: Brat H4 1.8L 1781cc 1980...1983 | DL H4 1.6L 1595cc 1981...1983 | DL H4 1.8L 1781cc 1980...1983 | GL H4 1.8L 1781cc 1980...1983 | GL H4 1.8L 1781cc wo/Turbo 1985...1989 | GL-10 H4 1.8L 1781cc wo/Turbo 1985...1989 | GLF H4 1.8L 1781cc VIN 4 1981...1982 | RX H4 1.8L 1781cc 1985...1989 | Standard H4 1.8L 1781cc VIN 5 1981...1982 | Standard H4 1.8L 1781cc VIN 5 1987

## MOTOR

Denso: 280008580 | 1280002830 | 1280007200 | 1280007770 - Unipoint: STR8044

## EQUIVALENTE / Equivalent

Denso: 0280993150 | 0283005701

1725

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

## APLICAÇÃO / Application / Aplicación

Hitachi: Motores Estacionários

1726

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

## APLICAÇÃO / Application / Aplicación

Valtra: Motores M100R | Trator

## MOTOR

Lucas Indiel: 35259360

## EQUIVALENTE / Equivalent

Lucas Indiel: 229697 | 35259697

1727

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

## APLICAÇÃO / Application / Aplicación

Nissan: Armada 2.4WD | Sentra 1.8 | Terrano 2.4WD

## EQUIVALENTE / Equivalent

Mitsubishi: M191T23371

1729

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

## APLICAÇÃO / Application / Aplicación

Especial/Special: Motores ZM



1731

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

Ashok LeyLand: Lay Land Hino J Ser | Ônibus H Serie 6 Cil

EQUIVALENTE / Equivalent

Lucas: 26242815

1733

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

Especial/Special: Cooplantio - Jinma: Trator 25HP | Trator 45HP

MOTOR

ZM: 8148001 | 8148002

1734

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

Honda: Civic 2006... | CRV

MOTOR

Nippondenso: 4280003410 | 4280005011 | 4280005290

EQUIVALENTE / Equivalent

Nippondenso: 0283008870

1735

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

Renault: Clio | Duster 1.6 | Fluence | Kangoo | Laguna 1.6 16V | Megane 1.6 16V | Sandero | Scenic 1.6 16V

MOTOR

Nissan: 233001105R - Valeo: FS10B3

EQUIVALENTE / Equivalent

Valeo: 501490 | 1201728

1736

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

Volkswagen: Caminhão 5140 | Caminhão 8150

MOTOR

Bosch: F000AL0132 | F000AL0133

EQUIVALENTE / Equivalent

Bosch: F000AL2660

1740

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

Mercedes Benz: K6 | Sprinter

MOTOR

Bosch: F000AL0901

EQUIVALENTE / Equivalent

Bosch: F000AL2824

1741

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

Volkswagen: Gol G4

MOTOR

Bosch: 5W0911023 | F000CD0802 | F000CD08A2

1741

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

EQUIVALENTE / Equivalent

Bosch: F000CD1315

1743

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

Ford: Cargo

MOTOR

Bosch: F002G20904 - Ford: BC4511001BA

EQUIVALENTE / Equivalent

Bosch: F002G20724

1744

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

Tramontini: Tratores Tramontini

1745

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Agile 1.4 | Celta 1.0 | Classic 1.0 | Cobalt 1.4 e 1.8 | Cruze 1.8 | Montana 1.4 | Novo Prisma LT e LTZ Com Motor 1.0L e 1.4L SPE/4 (SOCH) fev/13 | Onix Com Motor 1.0 e 1.4 SPE/4 (SOCH) set/12 | Spin 1.8

MOTOR

Remy: 8000444 | 8000660

EQUIVALENTE / Equivalent

Remy: 10524174

1751

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 225

APLICAÇÃO / Application / Aplicación

Atlas: Carregadeira Ar 105, 105 E TCD 4,1 L4 105kW Tier 4i | Carregadeira Ar 95 e Super TCD 4,1 L4 95kW Tier 4i | Escavadeira 160W TCD2012 L06 2V 143HP Tier 3 | Escavadeira 190LC TCD2012 L06 2V 143HP Tier 4 | Escavadeira 340LC TCD2013 L06 2V 226PS Tier 4 | Manipuladora de Materiais 180MH, 200MH TCD2012 L06 2V 143HPTier 4 | Manipuladora de Materiais 350MH TCD2013 L06 2V 226PS Tier 4 | Manipuladora de Materiais 400MH TCD6,1 L6 238PS Tier 4i | Manipuladora de Materiais 520MH TCD2013 L06 2V248PS | Rolos Compactadores AW 1110, AW 1120 TCD2012 L04 96kW | Rolos Compactadores AW 1130, AW 1140 TCD2012 L04 103kW

Atlas Copco: Compressores XAHS 146 C3, XAS 186 C3, XATS 156 C3 Deutz TCD 2012 4 Cil. 82kW | Compressores XAHS 186 C3, XAVS 166C3 Deutz TCD 2013 4 Cil. 104kW | Máquina Fresadora de Asfalto PL1000T TCD2012 L06 2V 6 Cil 150kW - Bomag: Terraplanadora BM 500/15, BM 600/15 - Claas: Máquina Scorpion 7030 Deutz TCD 2012 L04 2V 102HP | Máquina Scorpion 7040 Deutz TCD 2012 L04 120HP | Máquina Scorpion 7045 Deutz TCD 2012 L04 140HP | Máquina Scorpion 7055 TCD 4,1 L4 115kW Tier 4i | Máquina Scorpion 9040 Deutz TCD 2012 L04 140HP | Máquina Scorpion 9055 TCD 4,1 L4 | Máquina Scorpion 6030 TD2011 L04 75kW - Deutz: Tratores K410, K420, K430, K610 Deutz TCD2012 L04 | Tratores M600, M610, M620 Deutz 2012 L06 2V | Tratores M640, M650 Deutz 2012 L06 4V - KHD: Motor Náutico BFM1012 | Motores BF6L913, BF6L913C 6 Cil | Motores F3L912, F3L913 3 Cil | Motores F4L912, F4L913 4 Cil | Motores F6L912, F6L913 6 Cil - Lamborghini: Tratores R3 85, 100 Evo Deutz 2012 EURO II - Liebherr: Escavadora A309 Litronic TCD2012 L04 2V 4Cil 65kW | Escavadora A311 Litronic TCD2011 L04W 4Cil 68kW | Escavadora R313 Litronic TCD2012 L04 2V 4Cil 75kW | Escavadora R317 TCD2013 L04V III-A 90kW - Volvo Penta: Motor Náutico T5D5A 150HP

MOTOR

Iskra: AZF4302 | AZF4309 | AZF4310 | AZF4312 | AZF4313 | AZF4314 | AZF4339 | 11132114 | 11132137 | 11132138 | 11132140 | 11132141 | 11132142 | 11132231

EQUIVALENTE / Equivalent

Iskra: 16911910

1752

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

APLICAÇÃO / Application / Aplicación

Citroën: Berlingo | C3 | Xsara Picasso - Fiat: 1.9 JTD MJ | 500 | Doblo 1.3 | Fiorino | Grande Punto | Idea | Linea 1.3 D Multijet | Qubo 1.3 D Multijet - Lancia: Musa 1.3 - 1.9 JTD MJ | Ypsilon - Maruti: Dzire | Swift | SX4 - Mercedes Benz: Classe A 140 - 160 - Opel: Agila | Astra H GTC 1.3 CDTI | Corsa D | Meriva | Tigr 1.3 CDTI Peugeot: 206 | Partner | Ranch - Renault: Clío | Kangoo - Tata: Manza | Vista

MOTOR

Citroën: 9648644680 - Suzuki: 31100M86J10 | 31100M86J11 | 31100M86J12 - Valeo: D6G1 | D6G3 | D6G5 | D6G32 | D6G33 | D6G98

EQUIVALENTE / Equivalent

Valeo: 191601 | 192978 | 406575

1753

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

## APLICAÇÃO / Application / Aplicación

Tramontini: Tratores Tramontini TR18

## EQUIVALENTE / Equivalent

Tramontini: 20210088

1754

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

## APLICAÇÃO / Application / Aplicación

Bobcat: Carregador de Madeira - Clark: Mini Carregadeira - John Deere: Colheitadeira de Algodão | Trator

## MOTOR

Iskra: AZE4603 | AZE4620 | AZE4648 | AZE4649 | AZE4653 | AZE4654 | AZE4655 | 11131063 | 11131221 | 11131752 | 11131753 | 11131772 | 11131788 | 11131789

## EQUIVALENTE / Equivalent

Iskra: 16908746

1755

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

## APLICAÇÃO / Application / Aplicación

Citroën: C3 2010... | C4 2010... - Peugeot: 207 2010... | 208 2010... - Renault: Logan | Sandero 1.0 2012...

## MOTOR

Citroën: 9807775680 - Nissan: 233000799R - Valeo: FS10B4 | TSC1010

## EQUIVALENTE / Equivalent

Valeo: 1200580 | 1206998

1756

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

## APLICAÇÃO / Application / Aplicación

Dacia: Logan 2004 | Logan Express 2009 | Logan MCV 2007 | Logan Pick Up 2008 - Ford: Focus 2013... - Renault: Clio Grandtour 2008 | Clio II 1998 | Clio II Box 1998 | Clio III 2005 | Grand Scenic II 2004 | Kangoo 1997 | Kangoo 2008 | Kangoo Express 1997 | Kangoo Express 2008 | Laguna III 2007 | Laguna III Grandtour 2007 | Logan Estate 2007 | Megane III Coupe 2008 | Megane III Grandtour 2008 | Megane III Hatchback 2008 | Megane CC 2010 | Megane II 2002 | Megane II Coupe-Cabriolet 2003 | Megane II Estate 2003 | Megane II Saloon 2003 | Modus 2004 | Scenic II 2003 | Thalia 1998 | Twingo 2007

## MOTOR

Dacia: 7711497567 | 8200306595 | 8200836473 - Ford: 8V2111000BC | 8V2111000BD | 8V2111000BE - Mitsubishi: M0T87881 | M000T87881 - Remy: DRS3985  
Renault: 233003329R - Valeo: TS12E9 | TS12E10 | 8V2111000BC | 8V2111000BD | 8V2111000BE

## EQUIVALENTE / Equivalent

Valeo: 195041 | 195334 | 438224 | 458388

1757

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

## APLICAÇÃO / Application / Aplicación

Renault: Duster 2.0 | Grand Scenic III 1.9 dCi | Megane III 1.9 dCi | Scenic III 1.9 dCi

## MOTOR

Bosch: 0001107477 | 0001108428 | 0001108429

## EQUIVALENTE / Equivalent

Bosch: 1006209849 | 1006209940

1758

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

## APLICAÇÃO / Application / Aplicación

Citroën: Berlingo 1.6 HDI | C2 1.6 HDI | C3 1.6 16V HDI | C4 1.6 HDI | C5 1.6 HDI | Xsara Picasso 1.6 HDI - Peugeot: 1007 1.6 HDI | 206 1.6 HDI | 207 1.6 HDI | 307 1.6 HDI | 308 1.6 HDI | 407 1.6 HDI | Expert 1.6 HDI | Partner 1.6 HDI | Partner Teepe 1.6 HDI

## MOTOR

Valeo: TS22E26

## EQUIVALENTE / Equivalent

Valeo: 157391 | 193751

1759

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

APLICAÇÃO / Application / Aplicación

Honda: City | Fit

MOTOR

Nippondenso: 4280005800

1761

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

APLICAÇÃO / Application / Aplicación

Nissan: March 1.6 | Versa

MOTOR

Mitsubishi: M000T32175ZC - Nissan: 233001HK0A

1762

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

APLICAÇÃO / Application / Aplicación

Nissan: Cube 1.8 | Livina | Sentra 2.0 | Tiida 1.8 | Xtrail 2.0

MOTOR

Hitachi: S114902A - Nissan: 23300EN20A | 23300EN20B

1763

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

APLICAÇÃO / Application / Aplicación

Citroën: Berlingo 1.1, 1.4 e 1.6 | C2 1.1, 1.4 e 1.6 | C3 1.1, 1.4 e 1.6 | Saxo 1.0, 1.1, 1.4 e 1.6 | Xsara 1.4 e 1.6 | Xsara Picasso 1.6 - Renault: Clio III 1.1 e 1.2 | Kangoo 1.2 e 1.2 16V

MOTOR

Valeo: TS8E2 | TS8E6

EQUIVALENTE / Equivalent

Valeo: 193512 | 594726

1764

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

APLICAÇÃO / Application / Aplicación

Ford: Fusion L4 2.3L 140cid 2006...2009 | Fusion L4 2.5L 2488cc 152cid 2010 - Mazda: 3 L4 2.0L 1998cc 122cid VIN F 2012 | 3 L4 2.0L 1998cc 122cid VIN G 2012 | 3 L4 2.0L 1999cc 122cid 2010 | 3 L4 2.0L 1999cc 122cid VIN F 2011...2012 | 3 L4 2.0L 1999cc 122cid VIN G 2011...2012 | 3 L4 2.0L 2000cc 122cid 2010 | 3 L4 2.0L 2000cc 122cid VIN F 2011...2012 | 3 L4 2.3L 2260cc 2004...2009 | 3 L4 2.3L 2260cc 138cid 2006 | 5 L4 2.3L 2260cc 2006...2010 | 5 L4 2.3L 2260cc 138cid 2007...2010 | 6 2.3L Non-Turbo, Gas (L3) 2003 | 6 2.3L Non-Turbo, Gas (L3) 2006...2007 | 6 2.3L Non-Turbo, Gas (L3) 2009 | 6 L4 2.3L 2260cc 2003...2005 | 6 L4 2.3L 2260cc 2008 | 6 L4 2.3L 2260cc 138cid 2008 | 6 L4 2.3L 2260cc 138cid w/Turbo 2006...2007 | 6 L4 2.3L 2260cc w/Turbo 2006...2007 | 6 L4 2.5L 2488cc 152cid 2009...2010 | CX-7 L4 2.3L 2260cc 2007...2009

Mercury: Milan L4 2.3L 140cid 2006...2009 | Milan L4 2.5L 2488cc 152cid 2010 - Nissan: Altima L4 2.4L 2389cc 2001 | Armada V8 5.6L 5552cc FLEX 2010...2014 | Frontier V6 3.3L 3275cc 2002...2004 | Titan V8 5.6L 5552cc FLEX 2011...2014 | XTerra V6 3.3L 3275cc 2002...2004

MOTOR

Ford: 6E5T11000AB - Mitsubishi: MOT87681 | MOT87781 | MOT88481 | MOT90685 | MT87781ZC | MOT87781ZC | MOT90685ZC | M000i88481ZC

EQUIVALENTE / Equivalent

Mitsubishi: 15471 | 19971 | M191X19971

1765

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

APLICAÇÃO / Application / Aplicación

BMW: 125i 3.0L 2996cc 2008...2013 | 135i 3.0L 2979cc 2008...2013 | 5 Séries Active Hybrid 3.0L 2979cc 2011...2013 | 523i 3.0L 2996cc 2010...2013 | 528i 3.0L 2996cc 2010...2013 | 530Li 3.0L, N52B30AF, Non-Turbo 2013...2014 | 730i 3.0L 2996cc 2008...2013 | 740i 3.0L 2979cc 2008...2013 | X3 3.0L 2979cc 2011...2013 | X3 3.0L 2996cc 2011...2013 | Z4 2.5L 2497cc 2009...2013 | Z4 3.0L 2979cc 2009...2013 | Z4 3.0L 2996cc 2009...2013

MOTOR

Valeo: TS12E36

1766

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

## APLICAÇÃO / Application / Aplicación

ZEN: Utilizado no Impulsor ZEN 0750 | Utilizado no impulsor ZEN 0816 | Utilizado no impulsor ZEN 0817 | Utilizado no impulsor ZEN 0818 | Utilizado no Impulsor ZEN 0954 | Utilizado no impulsor ZEN 1201

1767

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

## APLICAÇÃO / Application / Aplicación

ZEN: Utilizado no Impulsor ZEN 0921 | Utilizado no Impulsor ZEN 0946 | Utilizado no Impulsor ZEN 0947 | Utilizado no Impulsor ZEN 1097 | Utilizado no Impulsor ZEN 1215 | Utilizado no Impulsor ZEN 1601

## MOTOR

Denso: 280003641 | 280003642 | 280004323 | 280004343 | 280004450 | 280004540 | 280004940 | 280005060 | 280005730

## EQUIVALENTE / Equivalent

Denso: 0283002081 | 0283002220 | 0283002222 | 0283005300 | 0283005730 | 0283006850 | 0283007000

1768

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 226

## APLICAÇÃO / Application / Aplicación

Volkswagen: Amarok 2.0 BiTDI | Amarok 2.0 BiTDI 4motion | Amarok 2.0 TDI | Amarok 2.0 TDI 4motion

## MOTOR

Valeo: TS22ER12 | TS22ER13 - Volkswagen: 2H0911023 | 2H0911023AX

1769

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

Mitsubishi: L200 Triton

1770

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

Hyundai: IX35 | Santa Fé L4 2.0L 1998cc 122cid 2013 | Sonata L4 2.0L 1998cc 122cid VIN B 2011...2012 | Tucson L4 2.0L 1975cc VIN B 2011...2012 | Tucson L4 2.4L 2359cc VIN C 2011...2012 - Kia: Forte Koup L4 2.0L 1998cc 122cid 2011...2013 | Forte Koup L4 2.4L 2359cc 2011...2013 | Forte L4 2.0L 1998cc 122cid 2011...2013 | Forte L4 2.4L 2359cc 2011...2013 | Forte5 L4 2.0L 1998cc 122cid 2012...2013 | Forte5 L4 2.4L 2359cc 2012...2013 | Optima L4 2.0L 1998cc 122cid 2012...2013 | Sportage L4 2.0L 1998cc 122cid 2011...2013 | Sportage L4 2.4L 2359cc 2011...2013

## MOTOR

Hyundai: 361002G200 - Remy: 8000357

## EQUIVALENTE / Equivalent

Hyundai: 361452G000

1771

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

Chrysler: Avenger L4 2.4L 2360cc 144cid 2008...2010 | Caliber L4 1.8L 1798cc 110cid 2007...2009 | Caliber L4 2.0L 1998cc 122cid 2007...2010 | Caliber L4 2.0L 1998cc 122cid VIN A 2011...2012 | Caliber L4 2.4L 2360cc 144cid 2007...2010 | Caliber L4 2.4L 2360cc 144cid VIN A 2011 | Journey L4 2.4L 2360cc 144cid 2009...2010 | Sebring L4 2.4L 2360cc 144cid 2007...2010 - Dodge Truck: Compass L4 2.0L 1998cc 122cid 2007...2010 | Compass L4 2.0L 1998cc 122cid VIN A 2011...2013 | Compass L4 2.4L 2360cc 144cid 2007...2010 | Journey L4 2.4L 2360cc 144cid VIN B 2011 - Fiat: Freemont - Hyundai Truck: Magentis V6 2.7L 2656cc 2007...2009 | Optima V6 2.7L 2656cc 2007...2009 | Rondo V6 2.7L 2656cc 2007...2009 | Santa Fé V6 2.7L 2656cc 2007...2009 - Jeep Truck: Compass L4 2.4L 2360cc 144cid VIN B 2011...2013 | Patriot L4 2.0L 1998cc 122cid 2007...2013 | Patriot L4 2.4L 2360cc 144cid 2007...2013

## MOTOR

Chrysler: 05034555AA - Mitsubishi: MOT32071 | M000T32071 | M000T32071ZC - Valeo: 1250313

## EQUIVALENTE / Equivalent

Mitsubishi: 1X18 - Valeo: 7D24B

1772

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

Especial/Special: Jumps Auto - Massey Ferguson: Especial/Special

1774

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

Citroën: Berlingo 2.0 - Dacia: Duster 1.5 | Logan 1.5 | Sandero 1.5 - Fiat: Ulisse 2.2 - Nissan: Kubistar 1.5 | Note 1.5 | Qashqai 1.5 | Tiida 1.5 - Renault: Clio II e III 1.5 | Kangoo Be Bop 1.5 | Megane II e III 1.5 | Modus 1.5 | Scenic II e Grand Scenic II 1.5 | Thalia 1.5 | Twingo 1.5

## MOTOR

Mitsubishi: MOT20871 | MOT21471 | M1T80481 | M000i20871ZE

## EQUIVALENTE / Equivalent

Mitsubishi: M191T19271

1775

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

Hyundai: Elantra L4 2.0L 1975cc 2005...2006 | i30 2.0 | Tiburon L4 2.0L 1975cc 2005...2006 - Hyundai Truck: Tucson L4 2.0L 1975cc 2005...2009 - Kia: Soul | Spectra 5 L4 2.0L 1975cc 2006 | Spectra L4 2.0L 1975cc 2006 | Sportage L4 2.0L 1975cc 2005...2006

## MOTOR

Hyundai: 3610023071 | 3610023171 - Valeo: 1195921 | 1195922

## EQUIVALENTE / Equivalent

Hyundai: 3614523171 - Valeo: 1L22B

1776

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: S10 2.8 Diesel 2012...2014

## MOTOR

General Motors/Chevrolet: 55564374 - Valeo: TS22E20

## EQUIVALENTE / Equivalent

Valeo: 195202

1777

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

Hyundai: HB20 1.6 - Kia: Rio 1.6

## MOTOR

Hyundai: 361003101 | 3610003101 | 361002B102 - Valeo: 1201942 | 1201952

## EQUIVALENTE / Equivalent

Hyundai: 361452B102 - Valeo: 2H08

1778

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

Hyundai: HB20 1.0

## EQUIVALENTE / Equivalent

Hyundai: 3613911140 - Valeo: 2E11

1779

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

Fiat: Bravo II 1.4 | Doblo 1.4 | Grand Punto 1.4 | Grand Siena 1.4 | Idea 1.2 | Palio 1.4 | Panda 1.1, 1.2, 1.4 | Punto 1.4 | Strada - Lancia: Musa 1.4 | Ypsilon 1.4

## MOTOR

Fiat: 51899848 | 55193356 - Hitachi: S114905 | S114906 | S114907 | S114951A | S114951B

1780

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

## APLICAÇÃO / Application / Aplicación

Nissan: Frontier Turbo Diesel 2007...2012

## MOTOR

Hitachi: S14413C - Nissan: 23300EB71E

1781

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

APLICAÇÃO / Application / Aplicación

Jac: J3 | J3 Turin

MOTOR

Jhaem: L21580 | QDY1289 | 1043100gg010

EQUIVALENTE / Equivalent

Jac: 11A20

1784

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

APLICAÇÃO / Application / Aplicación

Lucas Indiel: M101R | M95R - Volkswagen: Caminhões Motor MWM Serie X-10 e 229

MOTOR

Prestolite: 35261990 | 35262170 | 35262550 | 35262170AM

EQUIVALENTE / Equivalent

Prestolite: 35262268

1785

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

APLICAÇÃO / Application / Aplicación

Cummins: Especial/Special - Ford: Cargo - Lucas Indiel: M101R - Volkswagen: Titan

MOTOR

Lucas Indiel: 35262420 | 35261635AM | 35262160AM

EQUIVALENTE / Equivalent

Lucas Indiel: 35261899

1786

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

APLICAÇÃO / Application / Aplicación

Especial/Special: Jumps Auto

1787

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 227

APLICAÇÃO / Application / Aplicación

Ford: Ecosport 2.0 Duratec Manual | Focus 2.0 Duratec Manual

MOTOR

Valeo: FS14B1

1788

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Ford: Ecosport 2.0 Duratec Automático | Focus 2.0 Duratec Automático

MOTOR

Valeo: FS14B2

1790

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Fiat: Ducato 2.3 Multijet Diesel | Ducato 110 | Ducato 120 | Ducato 130 | Ducato 150 - Peugeot: Boxer

MOTOR

Bosch: 0001115078 | 0001115079

EQUIVALENTE / Equivalent

Bosch: 1006209834 | 1006209864 - Cargo: 333355

1791

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Ford: New Fiesta | Nova Ecosport 2013

MOTOR

Ford: CN1511000CA - Valeo: FS10B2

EQUIVALENTE / Equivalent

Valeo: 1202517

1794

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Hyundai: H100 2.5 Diesel | HR 2.5 Diesel | Porter | Starex - Kia: Bongo | Sorento

MOTOR

Hyundai: 361004A100 | 361004A150 - Remy: 8000534 | 8000837

EQUIVALENTE / Equivalent

Hyundai: 361454A100

1796

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Agrale: M790 | M90ID | M93 | M95W | Trator 4100 | Trator 4100.4 | Trator 4118 | Trator M790 | Trator M90ID

MOTOR

Unipoint: STR3302

EQUIVALENTE / Equivalent

Agrale: 7010010016006

1797

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Especial/Special: Maruti

1799

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Mahindra: Xylo

MOTOR

Lucas TVS: 26024256A

EQUIVALENTE / Equivalent

Lucas TVS: 26242763

1800

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Hyundai: Azera | Entourage GLS Mini Passenger Van 4-Door | Genesis Coupe | Genesis Sedan 4-Door 3.8 | Santa Fé | Sonata GLS Sedan 4-Door | Veracruz - Kia: Amanti | Borrego | Forte Koup | Magentis | Optima | Rondo | Sorento

MOTOR

Hyundai: 3610025020 | 361002CC00 | 361003C150 - Remy: 8000169 | 8000300 | 8000340

EQUIVALENTE / Equivalent

Hyundai: 3614525010

1801

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Dacia: Logan 1.4, 1.6, 16V | Sandero 1.4, 1.6 - Renault: Clio II 1.4, 1.6 16V | Kangoo 1.6, 16V | Megane I 1.4

MOTOR

Mitsubishi: MOT45071 | MOT45171 | MOT45371



1801

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

EQUIVALENTE / Equivalent

Dacia: 6001547546 - Mitsubishi: M191X243BT

1803

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Seat: Mii 1.0 2012... - Skoda: Citigo 1.0 2012... - Volkswagen: Fox 1.0 (motor 3 cilindros) | Golf VII 1.2 TSI 2013... | Polo 2.0R WRC 2013... | Up! 1.0 2012...

MOTOR

Bosch: 0001177000 | 0001177001 | 0001177006 | 0001177007 | 0001177008 | 0001177009 | 0001179500 | 0001179501 - Volkswagen: 02M911021H | 02M911024Q | 02M911024R

EQUIVALENTE / Equivalent

Bosch: 1006210271

1805

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Agrale: Caminhão 13000 Com Motor MWM 6.10 TCA | Caminhões 10.000, 14.000 e 14.000 6X2 Com Motor MWM MaxxForce 4.8H. EURO V 01/2012... | Caminhões 6000, 8500 e 9200 Com Motores MWM 4.10 TCA e MWM 4.12 TCE | Chassis MA 7.9, MA8.5, MA9.2, MA10.0, MA12.0, MA15.0 e MT12.0 Com Motores MWM4.10 TCA e MWM 4.12 TCE | Furgovan 8000 Com Motor MWM 4.10 TCA | Ônibus MA12.0, MA15.0, MT15.0 LE, MA10.0 e MA9.2 Com Motor MWM MaxxForce 4.8HEURO V 01/2012... | Ônibus Volare W8, W9 e V8 Com Motores MWM 4.10 TCA ...2008 | Ônibus W8, W9 e V8 Com Motores MWM 4.12 TCE 2008... - BMW: Motor MWM 4.10TCA AGRAL CAMINHAO 8500D | Motor MWM 4.12TCE Agrale MA 12 185CV | Motor MWM 4.12TCE ITEC MIDI BUS (América Latina) | Pulverizadora Montana Parruda 2627M e 2627H Com Motor MWM 4.10L TCA 07/2012... - Case: Motoniveladora 845, 845.2, FG 140.2 | Motoniveladora RG140B e 845 com transmissão ZF | Pá Carregadeira W20, 521D, 621D, W130

Fiat Allis: Pá Carregadeira FR128 - Substitui 10479654 | Trator de Esteira 7D - Substitui 10479654 - Ford: Caminhões C1722e (4x2), C2422e(6x2), C2622e (6x4), C2428e (6x2), C2628e (6x4) Com Motor Cummins Eletrônico ISB (4 e 6 Cilindros) ...03/2011 | Caminhões C815e (4x2), C1317e (4x2), C1517e (4x2), C1717e (4x2) Com Motor Cummins Eletrônico ISB (4 e 6 Cilindros) ...03/2011 - Freightliner: Caminhões M2 Com Motor MB906/904 - Mercedes Benz: Axor 1419, 1719, 1726, 1726 4x4, 1729S, 2426 6x2 e 2429 6x2 Com Motores eletrônicos 24V OM 924 LA e OM 926 LA - Euro V 01/2012... | Axor 1933, 2533, 2826, 2828, 2831 Com Motores eletrônicos OM906 e OM 926 | Caminhões 710, 712E, 1418R, 1720, 1720K, L1620 - Chassi de Ônibus LO 712, LO 812 Com Motores mecânicos 12V OM 364 e OM 366) - 29MT | Caminhões 712C, 715, 714C, 915C, 1215, 1218EL, 1218L, 1418 EL, 1418L, 1718, 1725 | Caminhões Família Accelo: 815 e 1016 Com Motor eletrônico 24V OM 924 LA - Euro V 01/2012... | Caminhões Família Atron: 1319, 2324, 2729K (Basculante), 2729B (Betoneira) e2729 Com Motores eletrônicos 24V OM 924 LA e OM 926 LA -Euro V 01/2012... | Chassi de ônibus LO 914, O500M, O500U, O500R, OF 1417, OF1418, OF 1518, OF 1721, Com Motores eletrônicos 24V OM 904, OM 906, OM 924 eOM 926 | Família Atego (1315, 1418, 1518, 1718, 1725, 2425), L1318, 2423B,2423K, L1620 | Fora de Estrada Família Axor: 2831K (Basculante), 2831B (Betoneira) e 2831P (Plá Com Motor eletrônico 24V OM 926 LA - Euro V 01/2012... | Ônibus Boxer e Torino Com Motor OM904/906 12V | Ônibus Rodoviário O500M 1826 BUGGY e O500R 1830 Com Motor eletrônico OM926 LA - Euro V 01/2012... | Ônibus Urbano OF1519,OF1721, OF1724, O500M 1826, O500U 1826 Com Motores eletrônicos 24V OM 924 LA eOM 926 LA - Euro V 01/2012... | Rodoviário Família Axor 1933 e 2533 Com Motor eletrônico 24V OM 926 LA - Euro V 01/2012... - Navistar: Ônibus 4700 Com Motor MWM 4.8L euro II y III - New Holland: Motoniveladora 140 | Pá Carregadeira 12C | Trator de Esteira 7D - Remy: 29MT - Volkswagen: Caminhões 17-250E, 24-250E Com Motor Cummins ISB 4 e 6 cil ...09/2009 | Caminhões 17-250E, 24-250E Com Motor Cummins ISB 4 e 6 cil 10/2009... | Caminhões 8-150 Eletr Delivery Puls, 9-150E, 10-150E, 13-180E, 15-190E 06/2009... | Caminhões 9-150 Eletr Delivery Com Motor Cummins 01/2010... | Caminhões constellation 13-180, 15-180, 17-260, 26-260E, 31-260E Motor MWM Eletrônico 4 e 6 Cilindros | Caminhões Worker 8-120 EuroII e III, 13-180 Euro II e III, 15-180 Euro III.17-18 Motor MWM 4 e 6 cilindros | Delivery 5.150, 8.160 e 9.160 3.8L Com Motor Cummins ISF (Euro V) 01/2012... | Ônibus 17-230EOD/V-tronic e 17-260EOD/ V-tronic Motor MWM Eletrônico 4 e 6 Cilindros com Transmissão ZF | Ônibus 8-150 ODC / FEB, 9-150 ODC Com Motor Cummins ISB 4 e 6 cil | Ônibus 8.120 OD Euro II e III Motor MWM 4 cilindros - Volvo: VM 210, 260, 310 Com Motores MWM 4.12TCE e 6.12TCE ...12/2011 - ZEN: Utiliza Pinhão ZEN 12954 | Utiliza Pinhão ZEN 12955 | Utiliza Pinhão ZEN 12956 | Utiliza Pinhão ZEN 12957 | Utiliza Pinhão ZEN 12961

MOTOR

Remy: 8200003 | 8200004 | 8200014 | 8200054 | 8200064 | 8200065 | 8200103 | 8200138 | 8200196 | 8200231 | 8200292 | 8200295 | 8200296 | 8200297 | 8200326 | 8200331 | 8200357 | 8200386 | 8200387 | 8200400 | 8200474 | 8200478 | 8200495 | 8200511 | 8200512 | 8200564 | 8200816 | 8200826 | 8200848 | 8200853 | 8200854 | 8200875 | 8200882 | 8200884 | 8200885 | 8200886 | 8200887 | 8200889 | 8200890 | 19011400 | 19011402 | 19011403 | 19011407

EQUIVALENTE / Equivalent

Remy: 10515810 | 10515811

1806

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

APLICAÇÃO / Application / Aplicación

Scania: 124

MOTOR

Bosch: 0001261025

EQUIVALENTE / Equivalent

Bosch: 2007010160 | 6033AD5359

1807

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

## APLICAÇÃO / Application / Aplicación

Ford: Ranger 2.2 e 3.2 2012...

## MOTOR

Ford: AB3911000AA | AB3911000BA - Mitsubishi: M002T85971ZT | M002T86071ZT

## EQUIVALENTE / Equivalent

Mitsubishi: M191T96571

1808

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: Actros 1832, 1836, 1841, 1844 | Actros 1846, 1850, 1851, 1854, 1858 | Actros 2632, 2636, 2641, 2644 | Actros 2646, 2650, 2651, 2654, 2655 e 2658 | Axor 2006 e 3344 - Renault: FR1 - Iliade FRH - GTX - GTXE - RTX - TX | Iliade GT - GTC - GTE | Magnum AE | Manager | Maxter - ZEN: Utiliza Pinhão ZEN 12967

## MOTOR

Mitsubishi: M9T80071 | M9T80472 | M9T80473 | M9T82071 | M9T82479 | M9T83671

## EQUIVALENTE / Equivalent

Mitsubishi: M191T90271

1809

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

## APLICAÇÃO / Application / Aplicación

Case: Case IH C9 | Colheiteadeira de cana A8000 e A8800 com Motor Case IH C9 - Cummins: Motores C e ISC de 8,3 litros - Ford: Cargo 1622, 1630, 2422, 2425, 2622, 2626, 2630, 2631, 3222, 4030 6CTAA 8,3 litr com motor Cummins | Cargo Eletrónico - 1932, 2632, 2932, 4532 e 5032 com motor Cummins ISL 8.3L 03/2011... | Cargo Eletrónico - 2632, 2932, 4532 e 5032(Substituído por 38MT 8200486) ...03/2011 - Freightliner: M2 106 com motor Cummins ISB - Navistar: Caminhões Durastar com motor DT466 | Caminhões Workstar com motor DT466 - Random: Caminhão Florestal RK 628C-F com motor Scania DC9 | Caminhões Fora de Estrada RK- 430B, RK-430M, RK 628 C, RK 628 C-R com motores Scania DC09 - Remy: 38MT - Scania: Modelo: P 380 com motor DC 12 Euro 5 09/2006... | Modelo: P 420 com motor DC 12 Euro 3 09/2004...09/2006 | Modelo: P 420 com motor DC 12 Euro 5 09/2006... | Modelo: P 420 DT 12 com motor Euro 4 09/2004... | Modelo: P 470 com motor DT 12 Euro 3 | Modelo: P 470 com motor DT 12 Euro 3 09/2004...09/2005 | Modelo: P 480 com motor DT 12 Euro 4 09/2006... | Modelo: R 380 com motor DC 12 Euro 5 09/2006... | Modelo: R 420 com motor DC 12 Euro 3 02/2004...09/2006 | Modelo: R 420 com motor DC 12 Euro 5 02/2006... | Modelo: R 420 com motor DT 12 Euro 4 09/2004...08/2005 | Modelo: R 420 com motor DT 12 Euro 4 09/2005... | Modelo: R 470 com motor DT 12 Euro 3 04/2004...09/2006 | Modelo: R 470 com motor DT 12 Euro 4 09/2005...08/2006 | Modelo: R 480 com motor DT 12 Euro 4 09/2006... | Modelo: T 420 com motor DC 12 Euro 3 09/2004...10/2005 | Modelo: T 420 com motor DT 12 Euro 4 09/2004...10/2005 | Modelo: T 470 com motor DT 12 Euro 3 09/2004...10/2005 | Modelos: P 230, P 270, P 310 com motor DC 09 Euro 3 09/2004...09/2006 | Modelos: P 230, P 270, P 310 com motor DC 09 Euro 4 09/2005... | Modelos: P 340, P 380 com motor DC 11 Euro 3 09/2004...09/2006 | Modelos: P 340, P 380 com motor DC 12 Euro 4 09/2005... | Modelos: R 230, R 270, R 310 com motor DC 09 Euro 3 09/2004...09/2006 | Modelos: R 230, R 270, R 310 com motor DC 09 Euro 4 09/2005... | Modelos: R 340, R 380 com motor DC 11 Euro 3 03/2004...09/2006 | Modelos: R 340, R 380 com motor DC 12 Euro 4 09/2005... | Modelos: T 340, T 380 com motor DC 11 Euro 3 09/2004...10/2005 - Volkswagen: Caminhões 17-220, 17-310, 23-210, 23-220, 23-310, 24-220, 26-220, 26-260, 26-310 com motor Cummins 6CTAA 8.3 litros | Caminhões 18-310, 19-320, 31-320 | Caminhões 18.310 Titan Tractor | Caminhões 31-370, 25-370, 19-370 com motor 9,3 litros internacional | Ônibus 17-320 E, 18-320 EVO, 19-360 E, 24-320E, 25-320E, 25-370E, 25-400E Todos com motor Cummins | Ônibus 19320EOT Quéops evolution com motor Cummins ISC 8,3 litros | Titan Tractor e constellation com motor Cummins ISC 8,3 litros - Volvo: Caminhões FH12 e NH12. Substitui Melco - ZEN: Utiliza Pinhão ZEN 13130 | Utiliza Pinhão ZEN 13138

## MOTOR

Remy: 8200005 | 8200025 | 8200053 | 8200072 | 8200075 | 8200077 | 8200078 | 8200242 | 8200356 | 8200486 | 8200733 | 19026027 | 19026035

## EQUIVALENTE / Equivalent

Remy: 10512095 | DR10512095

1810

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

## APLICAÇÃO / Application / Aplicación

Fiat Allis: Motoniveladora FG 170, FG 170.2, FG 200 e FG 200.2 - Freightliner: Cascadia com motor Cummins ISX | Cascadia com motor DD13, DD15, DD16 | Cascadia com motor Detroit S60 | Cascadia com motor MBE4000 | Century com motor CAT C15, Detroit S60 | Century com motor MBE4000 | Coronado com motor Cummins ISX | Coronado com motor DD15, DD16, DD13 | M2 106 com motor Cummins ISC | M2 112 com motor DD13 | Motor Cat C10/C12/C15, C11/C13/C15 Acert Cummins ISX, ISM, N14 e DDC 60 Séries | Motor MBE 4000 | Severe Duty com motor Cummins ISX | Severe Duty com motor DD13 - Mack: Caminhões Granite com motor Mack MP8 | Caminhões Granite com motor Mack MP8 | Caminhões Pinnacle com motor Mack MP8 | Caminhões TerraPro com motor Mack MP8 - Navistar: Caminhões Paystar com motor Cummins ISX/Cat | Caminhões Prostar com motor Cummins ISX/Cat. | Caminhões Transtar com motor Cummins ISX/Cat. - New Holland: Motoniveladora 170 e 200 | Motoniveladora 865, 865.2, 885 e 885.2 - Remy: 39MT | Geração III - Volvo: Caminhões VHD com motor Cummins ISX | Caminhões VHD com motor D12 | Caminhões VN com motor Cummins ISX | Caminhões VN com motor D12 | Motor Cummins ISX | Motor D12 - ZEN: Utiliza Pinhão ZEN 13117 | Utiliza Pinhão ZEN 13118 | Utiliza Pinhão ZEN 13119

## MOTOR

Remy: 8200050 | 8200081 | 8200085 | 8200087 | 8200090 | 8200101 | 8200201 | 8200287 | 8200288 | 8200289 | 8200290 | 8200291 | 8200308 | 8200329 | 8200330 | 8200417 | 8200421 | 8200431 | 8200433 | 8200434 | 8200435 | 8200436 | 8200446 | 8200468 | 8200469 | 8200519 | 8200572 | 8200605 | 8200606 | 8200699 | 8200719 | 8600612 | 19011514 | 19011518 | 19011519 | 19011521 | 19011522 | 19011523 | 19011524 | 19011527 | 19011529

1810

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 228

EQUIVALENTE / Equivalent

Remy: 10526468 | DR10526468

1811

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

APLICAÇÃO / Application / Aplicación

Case: Colheitadeira de Cana A7000 e A7700 com motor Cummins | Motoniveladora 865, 865.2, 885 e 885.2 - Cummins: Geradores Cummins C350 D6, C400 D6 com motor Cummins NTA855 - Fiat Allis: Motoniveladora - FG 170, FG 170.2, FG 200 e FG 200.2 | Trator de Esteira FD170 - Freightliner: Cascadia com motor Cummins ISX | Cascadia com motor Detroit S60 | Cascadia com motor MBE4000 | Century com motor CAT C15, Detroit S60 | Century com motor MBE4000 | Coronado com motor Cummins ISX | M2 106 com motor Cummins ISC | Motor Cat C10/C12/C15, C11/C13/C15 Acert, Cummins ISX, ISM, N14 e DDC 60 Séries | Motor MBE 4000 | Prestolite MS2-510, MS2-511, MS2-514 | Severe Duty com motor Cummins ISX | Substitui Mitsubishi FL0379, MIB970379. Denso 428000-4451 | Substitui Mitsubishi MK0077, 009T70077, 8MJ4298AM e VV0977. Denso 428000-4420, 4 - Kenworth: Motor Cat C10/C12, Cummins ISM, CatC9/C11/C13/C15 Acert e Cummins ISX | Prestolite MS2-500, MS2-501, MS2-502, MS2-503, MS2-504, MS2-507, MS2-510, MS2-51 | Substitui/Reemplaza Mitsubishi KW0779, M970979, M009T70979, PC0779, PC0979, PC13 | Substitui/Reemplaza Mitsubishi PC1479, PC1579, PC1779, PC1879, PB0979. Denso 428 - Mack: Caminhões Granite com motor Mack MP10 | Caminhões Granite com motor Mack MP7 | Caminhões Granite com motor Mack MP8 | Caminhões Mack com motor E-7 | Caminhões Mack com motor Mack MP7 | Caminhões Mack com motor Mack MP8 | Caminhões Pinnacle com motor Mack E7 | Caminhões Pinnacle com motor Mack MP10 | Caminhões Pinnacle com motor Mack MP7 | Caminhões Pinnacle com motor Mack MP8 | Caminhões TerraPro com motor Mack E7 | Caminhões TerraPro com motor Mack MP10 | Caminhões TerraPro com motor Mack MP7 | Caminhões TerraPro com motor Mack MP8 | Substitui Mitsubishi MK0077, M009T0077, 8MJ4298AM. Denso 428000-4430, 428000-444 | Substitui Mitsubishi MK1075, MK1078 | Substitui Mitsubishi MK2078 Navistar: Caminhões Paystar com motor Cummins ISX/Cat | Caminhões Prostar com motor Cummins ISX/Cat | Caminhões Transtar com motor Cummins ISX/Cat New Holland: Motoniveladora 170 e 200 - Peterbilt: Denso 428000-4420, 428000-5190 | Motor Cat C10/C12, Cummins ISM, CatC9/C11/C13/C15 Acert e Cummins ISX 386, 388, com motor Cummins ISX | Prestolite MS2-500, MS2-501, MS2-502, MS2-503, MS2-504, MS2-510, MS2-511, MS2-514 | Substitui Mitsubishi KW0779, M970979, M009T70979, PC0779, PC0979, PC1379, PC1479 - Remy: 39MT | Geração II - Volvo: Caminhões VHD com motor Cummins ISX | Caminhões VHD com motor D12 | Caminhões VHD com motor 13L. Com motor Volvo D13 | Caminhões VN com motor 13L | Caminhões VN com motor Cummins ISX | Caminhões VN com motor D12 | Caminhões VN com motor 11L. Caminhões VHD com motor 11L. Motor Volvo D11 | Caminhões VN com motor 16L. Caminhões VHD com motor 16L. Com motor Volvo D16 | Motor D12 | Motor D12 Substitui Mitsubishi VV0279, 20430285, 85103338, M009T70279 e 20520903 | Prestolite MS2-500, MS2-501, MS2-502, MS2-503, MS2-504, MS2-507, MS2-510, MS2-51 | Prestolite MS2-500, MS2-502, MS2-503, MS2-504, MS2-507, MS2-509, MS2-511 | Substitui Mitsubishi 428000-4430, 428000-4440 | Substitui Mitsubishi 8MJ5439M, MK0077, 009T70077, 8MJ4298AM, VV0776 e VV0977. De | Substitui Mitsubishi IN0976, FL0579, FL0975, FL0777, M009T70579, MIB97059, MIB70 | Substitui Mitsubishi VV1076 Motor Cummins ISX | Substitui Mitsubishi VV1979 | Substitui Mitsubishi VV2079 - ZEN: Utiliza Pinhão ZEN 13130 | Utiliza Pinhão ZEN 13131 | Utiliza Pinhão ZEN 13132

MOTOR

Remy: 8200032 | 8200034 | 8200039 | 8200040 | 8200041 | 8200050 | 8200081 | 8200085 | 8200087 | 8200090 | 8200101 | 8200182 | 8200201 | 8200223 | 8200287 | 8200288 | 8200289 | 8200290 | 8200291 | 8200417 | 8200469 | 8200572 | 19011507 | 19011509 | 19011511 | 19011512 | 19011513 | 19011514 | 19011518 | 19011519 | 19011521 | 19011522 | 19011523 | 19011527 | 19011529

EQUIVALENTE / Equivalent

Remy: 10511410 | DR10511410

1812

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

APLICAÇÃO / Application / Aplicación

Citroën: Berlingo 1.6 HDI | C1, C2, C3 1.4 Hdi e 1.6 Hdi | C4 1.6 16V Bio flex e 1.6 Hdi | C5 1.6 Hdi e 2.2 HDi | Picasso 1.6 16V Bio Flex e 1.6 Hdi | Xsara Picasso 1.6 HDI Peugeot: 107, 1007, 206, 207, 307 e 308 1.4 e 1.6 HDi | 3008, 407 e 5008 1.6 HDi | Partner 1.6 HDi | Ranch 1.6 HDi - Toyota: Ayco 1.4 D

MOTOR

Valeo: D7G3 | D7G26 | 438166 | 438189 | 458185 | 458237 | TS18E13 | TS14E110

EQUIVALENTE / Equivalent

Cargo: 234819 - Valeo: 192929 | 194213 | 594631

1813

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

APLICAÇÃO / Application / Aplicación

Toyota: Corolla | Crown | Fortuner | Hiace | Hilux | Kijang Innova | Land Cruiser Prado

MOTOR

Nippondenso: 2810022040 | 4280000670 | 4280000680 | 4280001760 | 4280003370 | 4280003371 | 4280003372 | 4280004550 - Toyota: 281000D090 | 2810075190

EQUIVALENTE / Equivalent

Toyota: 2802173020

1815

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

APLICAÇÃO / Application / Aplicación

Iveco: Daily 2008

1815

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## MOTOR

Bosch: F000AL0143 - Iveco: 5801405959

## EQUIVALENTE / Equivalent

Bosch: F000AL2813

1816

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Toyota: Etios Diesel

## EQUIVALENTE / Equivalent

Nippondenso: 280210N080

1818

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Jac: Caminhão 1035

1819

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

DongFeng: Caminhões

## EQUIVALENTE / Equivalent

DongFeng: 3708NDH12

1820

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Ford: Focus I 1400 Zetec S 1998...2005 | Focus I 1600 Zetec S 1998...2005

## MOTOR

Ford: 98AB11000BB | 98AB11000BC | 98AB11000BD | 98AB11000CB | 98AB11000CC | 98AB11000CD | YS4U11000AA | YS4U11000AB | YS4U11000BA

1822

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Citroën: Berlingo | C2 | C3 | C4 | C5 | DS3 | XSara - Peugeot: 206 | 207 | 208 | 304 | 407 - Renault: 19 | Clio | Espace | Kangoo | Laguna | Megane | Rapid Box | Scenic | Thalia | Trafic Box

## MOTOR

Valeo: D6RA101 | D6RA104 | D6RA105 | D6RA110 | D6RA115

## EQUIVALENTE / Equivalent

Valeo: 188595 | 191448 | 594382

1823

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Audi: A3 1.9 TDI, 2.0 TDI, 3.2 V6 quattro - Seat: Altea 1.9 TDI, 2.0 TDI - Volkswagen: Caddy III 2.0 SDI | Golf IV 1.9 TDI e 2.0 TDI | Golf IV 3.2 R32 4Motion | Golf V Touran 1.9 TDI e 2.0 TDI | Multivan 3.2 V6 4Motion | Transporter 1.9 TDI

## MOTOR

Bosch: 0001123014 | 0001123015 | 0001123016 | 0001123017 | 0001123020 | 0001123021

## EQUIVALENTE / Equivalent

Bosch: 1006209785 | 1006209961

1824

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Audi: A1 1.6 TDI START/STOP | A3 1.6 TDI START/STOP - Skoda: Fabia 1.2 TDI e 1.6 TDI START/STOP | Roomster 1.2 TDI e 1.6 TDI START/STOP | Superb 1.6 TDI START/STOP - Volkswagen: Caddy III 1.6 TDI START/STOP | Crafter 2.0 TDI START/STOP | Golf VI 1.6 TDI START/STOP | Passat 1.6 TDI e 2.0 TDI START/STOP | Polo 1.2 TDI e 1.6 TDI START/STOP | Touran 1.6 TDI START/STOP

1824

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## MOTOR

Valeo: ESW20ER121

## EQUIVALENTE / Equivalent

Valeo: 198159

1825

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Ford: Ka 2014... | Ka +

## MOTOR

Ford: E3B511000AA | EB3511000AA - Valeo: TSC10B1

## EQUIVALENTE / Equivalent

Valeo: 501495 | 1204813

1826

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Audi: A1 1.2 TFSI - 1.4 TFSI START/STOP | A1 1.6 TDI - 2.0 TDI START/STOP | A3 1.2 TFSI - 1.4 TFSI START/STOP | A3 1.6 TDI - 2.0 TDI START/STOP - Seat: Altea - XL 1.2 TSI - 1.4 TSI START/STOP | Altea - XL 1.6 TDI - 2.0 TDI START/STOP | Ibiza V 1.2 TDI - 1.6 TDI START/STOP | Ibiza V 1.2 TSI - 1.4 TSI START/STOP | Leon 1.4 TSI START/STOP | Leon 1.6 TDI - 2.0 TDI START/STOP | Toledo IV 1.2 TSI START/STOP | Toledo IV 1.6 TDI START/STOP - Skoda: Fabia 1.2 12V - TSI START/STOP | Fabia 1.2 TDI - 1.6 TDI START/STOP | Octavia 1.2 TSI START/STOP | Octavia 1.6 TDI - 4x4 - 2.0 TDI - 4x4 START/STOP | Rapid 1.2 TSI START/STOP | Rapid 1.6 TDI START/STOP | Roomster 1.2 TDI - 1.6 TDI START/STOP | Roomster 1.2 TSI START/STOP | Superb 1.6 TDI START/STOP | Yeti 1.4 TSI START/STOP | Yeti 1.6 TDI START/STOP - Volkswagen: Caddy III 1.6 TDI START/STOP | CC 1.8 TSI START/STOP | EOS 1.4 TSI START/STOP | Golf VI 1.2 TFSI - 1.4 TSI START/STOP | Golf VI 1.6 TDI - 4motion START/STOP | Jetta IV 1.2 TSI - 1.6 TDI START/STOP | Multivan V 2.0 TDI START/STOP | Passat 1.4 TSI - Eco/MultiFuel START/STOP | Passat 1.6 TDI - 2.0 TDI START/STOP | Passat 1.8 TSI - ALLTRACK START/STOP | Polo 1.2 - TSI - 1.4 TSI START/STOP | Polo 1.2 - TSI START/STOP | Polo 1.2 TDI - 1.4 TDI - 1.6 TDI START/STOP | Scirocco 1.4 TSI START/STOP | Touran 1.6 TDI START/STOP | Transporter V 2.0 TDI START/STOP

## MOTOR

Bosch: 0001142001 | 0001142003 | 0001142005 | 0001153001 | 0001153007 | 0001153009 | 0001153015 | 0399703052

## EQUIVALENTE / Equivalent

Bosch: 1006210172 | 1006210905

1827

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Daihatsu: Light Trucks 2.5L DSL 1979...1993 | Light Trucks 2.8L DSL 6T - 6.9T 1979...1993 - Falr: 742 9D - 130 1980 - General Motors/Chevrolet: 7000 FWD Control 6 Cil. 1985...1992 | 8500 FWD Control 6 Cil. 1985...1992 - Hino: IW 1986...1994 | W04D 1983...1992 - ZEN: Utiliza Pinhão ZEN 9301

1827

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## MOTOR

Daihatsu: 2810047050 | 2810047051 | 2810087314 | 281008731A | 2810087601 - Denso: 280000972 | 280004800 | 280005300 | 280005301 | 280005490 | 280005510 | 280005511 | 280005520 | 280005530 | 280005531 | 280005532 | 280005541 | 280005542 | 280005543 | 280005550 | 280005551 | 280005552 | 280005553 | 280005560 | 280005561 | 280005570 | 280005571 | 280005580 | 280005581 | 280005593 | 280005620 | 280005651 | 280005652 | 280005653 | 280005654 | 280005655 | 280005690 | 280005691 | 280005692 | 280005693 | 280005832 | 280005833 | 280005834 | 280005835 | 280005840 | 280005841 | 280005850 | 280005860 | 280005861 | 280005862 | 280005863 | 280005864 | 280005870 | 280005871 | 280005890 | 280005891 | 280006010 | 280006012 | 280006013 | 280006021 | 280006022 | 280006200 | 280006201 | 280006290 | 280006291 | 280006292 | 280006340 | 280006341 | 280006461 | 280006560 | 280006561 | 280006590 | 280006591 | 280006640 | 280006870 | 280006871 | 280006872 | 280006880 | 280006881 | 280006882 | 280006890 | 280006891 | 280006892 | 280006893 | 280006900 | 280006901 | 280006910 | 280006911 | 280006912 | 280006950 | 280006951 | 280007140 | 280007240 | 280007241 | 280007242 | 280007400 | 280007451 | 280007452 | 280007810 | 280007811 | 280008070 | 280008071 | 280008072 | 280008400 | 280008490 | 280008491 | 280008500 | 280008501 | 280008561 | 280008562 | 280008840 | 280008841 | 280008842 | 280009331 | 280009332 | 280009333 | 280009770 | 280010142 | 280010451 | 280010509 | 1280000380 | 1280000381 | 1280000382 | 1280000383 | 1280000490 | 1280000520 | 1280000530 | 1280000531 | 1280000532 | 1280000972 | 1280000973 | 1280001000 | 1280001001 | 1280001010 | 1280001011 | 1280001561 | 1280001570 | 1280001571 | 1280001572 | 1280001573 | 1280001574 | 1280001580 | 1280001581 | 1280001582 | 1280001583 | 1280001584 | 1280001585 | 1280001790 | 1280002450 | 1280002470 | 1280002740 | 1280003080 | 1280003082 | 1280003512 | 1280003513 | 1280003514 | 1280004100 | 1280004101 | 1280004111 | 1280004112 | 1280004250 | 1280005090 | 1280005091 | 1280005300 | 1280005380 | 1280005381 | 1280005382 | 1280006170 | 1280006171 | 1280006172 | 1280006173 | 1280006180 | 1280006181 | 1280006182 | 1280006183 | 1280006184 | 1280006330 | 1280006810 | 1280006811 | 1280006812 | 1280006822 | 1280006823 | 1280006830 | 1280006831 | 1280006832 | 1280006833 | 1280006910 | 1280006911 | 1280006920 | 1280006921 | 1280007280 | 1280007281 | 1280007282 | 1280007283 | 1280007290 | 1280007291 | 1280007292 | 1280007293 | 1280007294 | 1280007360 | 1280007361 | 1280007362 | 1280007363 | 1280007600 | 1280007601 | 1280007602 | 1280007603 | 1280007604 | 1280007750 | 1280007920 | 1280007921 | 1280007922 | 1280007923 | 1280007932 | 1280007933 | 1280008061 | 1280008063 | 1280008064 | 1280009580 | 1280009581 | 1280009582 | 2280000270 | 2280000281 | 2280000282 | 2280000291 | 2280000292 | 2280000350 | 2280000351 | 2280000570 | 2280000571 | 2280000572 | 2280000573 | 2280000574 | 2280000575 | 2280001440 | 2280001590 | 2280001591 | 2280001661 | 2280001671 | 2280001790 | 2280001791 | 2280002110 | 2280002111 | 2280002470 | 2280002660 | 2280002800 | 2280003070 | 2280003080 | 2280003090 | 2280003100 | 2280003230 | 2280003710 | 2280003720 | 2280004240 | 2280005811 | 2280005830 | 2280006530 | 2280006572 | 2280007870 | 2280008470 | 2280009020 | 2280009050 | 2280009760 | 281001562A  
Hino: 281001961 | 281001561A | 281001562A | 281001562B | 281001930A | 281001931A | 281001960A | 281001961A | 281001961B - Isuzu: 1811001410 | 5811240040  
Kubota: 1418263011 | 1418263012 | 1418263041 - Toyota: 2801154010 | 2801177090 | 2810022060 | 2810022061 | 2810031625 | 2810032080 | 2810040290 | 2810040291 | 2810040510 | 2810042800 | 2810046030 | 2810046040 | 2810047030 | 2810047060 | 2810047090 | 2810047091 | 2810048011 | 2810054010 | 2810054023 | 2810054032 | 2810054042 | 2810054052 | 2810054061 | 2810054090 | 2810054120 | 2810054130 | 2810054140 | 2810054160 | 2810054190 | 2810054210 | 2810054220 | 2810054250 | 2810054300 | 2810054320 | 2810054370 | 2810054390 | 2810054430 | 2810054470 | 2810056030 | 2810056060 | 2810056070 | 2810056071 | 2810056100 | 2810056101 | 2810056110 | 2810056111 | 2810056120 | 2810056131 | 2810056132 | 2810056140 | 2810056150 | 2810056151 | 2810056161 | 2810056171 | 2810056180 | 2810056181 | 2810056220 | 2810056221 | 2810056222 | 2810056240 | 2810056241 | 2810056242 | 2810056260 | 2810056270 | 2810056281 | 2810056290 | 2810056320 | 2810056330 | 2810056340 | 2810064010 | 2810064070 | 2810064080 | 2810064090 | 2810064100 | 2810077090 | 2810078502 | 2810087601 | 2810096502 | 2830023040 | 2830031960 | 2810047090C | 281002206171F - Volvo: 420760 | 1676822 | 8192262

## EQUIVALENTE / Equivalent

Daihatsu: 2801154010 - Denso: 0253001730 | 0283001730 | 0283002011 | 0283002012 | 0283002070 | 0283004170 | 0283004550 | 0283004551 | 0283005090 | 0283005091 - Isuzu: 5811240040 - Kubota: 1418263041 - Toyota: 2801154010 | 2801177090 - Unipoint: SD5070 | SD5072

1828

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Allis Chalmers: Tratores - Case: Máquinas - Cummins: Motores - Deutz: Tratores

## MOTOR

Denso: 280004800 | 280005300 | 280005301 | 280005510 | 280005511 | 280005530 | 280005531 | 280005532 | 280005541 | 280005543 | 280005550 | 280005551 | 280005552 | 280005553 | 280005560 | 280005561 | 280005570 | 280005571 | 280005620 | 280005660 | 280005661 | 280005690 | 280005691 | 280005692 | 280005693 | 280005832 | 280005833 | 280005834 | 280005835 | 280005840 | 280005841 | 280005850 | 280005860 | 280005862 | 280005863 | 280005871 | 280005890 | 280005891 | 280006060 | 280006061 | 280006062 | 280006200 | 280006201 | 280006290 | 280006291 | 280006340 | 280006341 | 280006460 | 280006461 | 280006462 | 280006463 | 280006590 | 280006591 | 280006780 | 280006870 | 280006871 | 280006872 | 280006880 | 280006881 | 280006882 | 280006891 | 280006892 | 280006893 | 280006900 | 280006901 | 280006902 | 280006910 | 280006911 | 280006912 | 280006950 | 280006951 | 280007140 | 280007241 | 280007242 | 280007400 | 280007540 | 280007542 | 280007731 | 280007732 | 280007800 | 280007801 | 280007802 | 280007810 | 280007811 | 280008070 | 280008071 | 280008072 | 280008490 | 280008491 | 280008500 | 280008501 | 280008840 | 280008841 | 280008842 | 280009331 | 280009332 | 280009333 | 1280000292 | 1280000380 | 1280000381 | 1280000382 | 1280000383 | 1280000520 | 1280000530 | 1280000531 | 1280000532 | 1280000972 | 1280000973 | 1280001000 | 1280001001 | 1280001060 | 1280001561 | 1280001570 | 1280001571 | 1280001572 | 1280001573 | 1280001574 | 1280001580 | 1280001581 | 1280001582 | 1280001583 | 1280001584 | 1280001585 | 1280001790 | 1280002930 | 1280002931 | 1280002932 | 1280002933 | 1280003080 | 1280003081 | 1280003082 | 1280003512 | 1280003513 | 1280003514 | 1280004100 | 1280004101 | 1280005091 | 1280005380 | 1280005381 | 1280005382 | 1280006170 | 1280006171 | 1280006172 | 1280006173 | 1280006180 | 1280006181 | 1280006182 | 1280006183 | 1280006184 | 1280006810 | 1280006811 | 1280006812 | 1280006822 | 1280006823 | 1280006830 | 1280006831 | 1280006832 | 1280006833 | 1280006860 | 1280006861 | 1280007280 | 1280007281 | 1280007282 | 1280007283 | 1280007290 | 1280007291 | 1280007292 | 1280007293 | 1280007294 | 1280007360 | 1280007361 | 1280007362 | 1280007363 | 1280007920 | 1280007921 | 1280007922 | 1280007923 | 1280007932 | 1280007933 | 1280008290 | 1280008620 | 1280008621 | 1280009580 | 1280009581 | 1280009582 | 1280009970 | 1280009971 | 2280000270 | 2280000271 | 2280000281 | 2280000282 | 2280000291 | 2280000292 | 2280000350 | 2280000351 | 2280000570 | 2280000571 | 2280001590 | 2280001591 | 2280001600 | 2280001601 | 2280001610 | 2280001611 | 2280001661 | 2280001671 | 2280001790 | 2280001791 | 2280001830 | 2280002030 | 2280002031 | 2280002110 | 2280002111 | 2280002290 | 2280002660 | 2280003070 | 2280003080 | 2280003090 | 2280003100 | 2280003230 | 2280003710 | 2280003810 | 2280004680 | 2280005541 | 2280005830 | 2280005980 | 2280005990 | 2280006380 | 2280006470 | 2280006471 | 2280007550 | 2280009020 | 4280001190 | 4280001850 | 4280001860 | 4280002370

## EQUIVALENTE / Equivalent

Cargo: 138681 - Denso: 0283001971 | 0283005380 | 0283005381 | 0283005390 | 0283005391 | 1280995060 - John Deere: CH12485 - Unipoint: SD5170

1829

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 229

## APLICAÇÃO / Application / Aplicación

Case: 1835B | 1845 | 1845B | 207D | 450B | 480C - ZEN: Utiliza Pinhão ZEN 9302

## MOTOR

Denso: 280005880 | 1280002740 | 1280003120 | 1280004220 | 1280004910 | 2280002290 | 2280002670 | 2280003310 | 2280003320 | 2280003810 | 2280007300 | 4280000190 | 4280001190 | 4280001850 | 4280001860

## EQUIVALENTE / Equivalent

Denso: 0283002040 | 0283005650 | 0283005651 | 0283005670 | 0283007802 - Unipoint: SD5071

1830

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Toyota: Coaster | HDB50 | HDB51 | HZB40 | Land Cruiser 4.20 D (HZJ80) 1990...1995 | Land Cruiser 4.20 TD (HDJ80) 1990...1995

## MOTOR

Denso: 280006460 | 280006462 | 280006463 | 1280008620 | 1280008621 | 2280001600 | 2280001601 | 2280001610 | 2280001611 | 2280002030 | 2280002031 | 2280005980 | 2280005981 | 2280005990 - Toyota: 2810017080

## EQUIVALENTE / Equivalent

Denso: 0534004731 | 1280995160 - Toyota: 2801117020 - Unipoint: SD5074

1831

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Bobcat: 853 | 853C | 853H | 853HC - Case: 7120 - Caterpillar: 3114 - ZEN: Utiliza Pinhão ZEN 9402

## MOTOR

Denso: 280006780 | 280993570 | 1280001060 | 1280002560 | 1280005370 | 1280005730 | 1280005731 | 1280005732 | 1280008290 | 2280000271 | 2280000630 | 2280001350 | 2280001420 | 2280001830 | 2280002200 | 2280003700 | 2280005311 | 2280005460 | 2280005641 | 2280007380 | 2280007500 | 2280007550 | 4280001660

## EQUIVALENTE / Equivalent

Denso: 0283003690 | 0283003691 | 0283005450 | 0283006690 | 0283006691 | 0283006692 - Unipoint: SD5080

1837

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Caterpillar: Blue Diamond USA | Cat 3216 7.2 F650 - Ford: Tratores - John Deere: Colheitadeira | Trator 6600 | Trator 6605 | Trator 7505 - New Holland: Trator 660

## MOTOR

Prestolite: 35260900 | 35260910 | 35261345

## EQUIVALENTE / Equivalent

Prestolite: K01555

1838

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Nissan: Primastar | Qashqai | X-Trail 2.0 DCI - Opel: Movano 2.3 CDTI | Vivaro 2.0 CDTI - Renault: Espace | Koleos | Laguna II, III 2.0 DCI | Master III 2.0 DCI | Megane | Scenic II, III | Trafic II 2.0 DCI | Vel Satis 2.0 DCI

## MOTOR

Mitsubishi: M1T80681 - Nissan: 2330000Q0D | 23300JG70A | 233003400A9 - Renault: 233002654R | 8200568535 | 8201036311 | 233003400A9 - Valeo: TS2232 | TS22E5 | TS22E8 | TS22E9 | TS22E5B

## EQUIVALENTE / Equivalent

Valeo: 193013 | 195353 | 594717

1839

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Mitsubishi: Carisma 1.6 e 1.8 - Nissan: Bluebird 1.8 | Prairie 2.0

## MOTOR

Valeo: D6RA76 | D6RA77 | D6RA78 | D6RA79

## EQUIVALENTE / Equivalent

Mitsubishi: MD620980 - Valeo: 187077 | 594247

1840

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Citroën: Jumper 2.8 Hdi 4x4 - Fiat: Ducato 2.3 - 2.8 JTD Multijet | Ducato 2.8 JTD Power 4x4 | Ducato 3.0 - Iveco: Daily II 29 - 35 - 40 - 45 2.3, 2.8 e 3.0 D. | Daily II 50 - 60 - 65 2.3, 2.8 e 3.0 D. | Daily III 29 - 35 - 40 - 45 - 2.3 e 3.0 D. | Daily III 50 - 60 - 65 2.3 e 3.0 D. - Peugeot: Boxer 2.8 Hdi 4x4

## MOTOR

Fiat: 134705880 - Iveco: 55195967 - Remy: 8000032

## EQUIVALENTE / Equivalent

Cargo: 330382 - Remy: 10510651

1841

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Toyota: Fortuner | Hilux

## MOTOR

General Motors/Chevrolet: 88969483 - Nippondenso: 286005360 | 4280000340 | 4280000341 | 4280001311 - Toyota: 2802121060 | 281000D080 | 2810022090 | 281000D08084

## EQUIVALENTE / Equivalent

Nippondenso: 0283009541

1845

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Ford: Caminhão F4000 | F250 | F350

## MOTOR

Bosch: F000AL0159 - Ford: EC3511001BA

## EQUIVALENTE / Equivalent

Bosch: F000AL2955

1846

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Hyster: Empilhadeira - ZEN: Utiliza Pinhão 10048

## EQUIVALENTE / Equivalent

Denso: 0283010760 | 0283010761

1847

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Hyundai: Tucson - Kia: New Pride | Rio

## EQUIVALENTE / Equivalent

Valeo: 3610026710

1848

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: Sail

## MOTOR

General Motors/Chevrolet: 9025295 - Valeo: TS14E15

1849

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Acura: CSX L4 2.0L 1998cc 122cid 2006...2008 | TSX L4 2.4L 2354cc 2004...2005 - Honda: Accord L4 2.4L 2354cc 2003...2005 | Accord L4 2.4L 2354cc 144cid 2004...2005 | Civic L4 2.0L 1998cc 122cid 2006...2011 | Element L4 2.4L 2354cc 2003...2006 | Element L4 2.4L 2354cc 2007...2008 | Odyssey 2.3L NonTurbo Gas (F23Z4) 2002 | Odyssey 2.4L NonTurbo Gas (K24A6) 2005...2006



1849

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## MOTOR

Honda: 31200RAA43 | 31200RAAA51 | 31200RAAA52 | 31200RNAA50 | 31200RNAA51 | 31200RAAA51RM - Lester: 17870 | 17958 | 17960 - Mitsuba: M61209 | SM61209 | SM71001 | SM71002

## EQUIVALENTE / Equivalent

Mitsuba: 5485502 | SH07118

1853

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Mitsubishi: Fuso

## MOTOR

Mitsubishi: M3T56071 | M3T56072 | M3T56074 | M3T56082 | M3T56084

## EQUIVALENTE / Equivalent

Mitsubishi: M357T73571 | M357X73571

1854

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## MOTOR

Lucas TVS: 8M14

## EQUIVALENTE / Equivalent

Lucas TVS: 26247643

1856

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Audi: A3 1.9 TDI - 2.0 TDI - 3.2 V6 quattro | TT 1.8 T - 3.2 V6 quattro - Seat: Altea XL 1.9 TDI - 2.0 TDI - 4x4 | Leon 1.9 TDI - 2.0 TDI - 16V | Toledo III 1.9 TDI - 2.0 TDI - 16V  
Skoda: Octavia 2.0 TDI 16V - RS | Superb 2.0 TDI - 16V - 4x4 - Volkswagen: Caddy III 1.9TDI | Eos 2.0 TFSI - 2.0 TDI 16V - 3.2 V6 | Golf IV - V 3.2 R32 4motion | Golf V - VI 1.9 TDI - 2.0 TDI - 16V - 4motion | Jetta III 1.4 TSI - 1.9 TDI - 2.0 TDI - 16V | New Beattle 1.9 TDI | Passat 3.2 FSI - 3.6 R36 4motion | Passat CC 1.9TDI - 2.0TDI - 16V - 4motion | Scirocco 2.0 TDI | Touran 1.9 TDI - 2.0 TDI - 16V

## MOTOR

Bosch: 0001123036 | 0001123038 | 0001123039 | 0001123044 - Volkswagen: 02M911024

## EQUIVALENTE / Equivalent

Bosch: 1006209847 | 1006210217

1857

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 230

## APLICAÇÃO / Application / Aplicación

Toyota: Avensis

## MOTOR

Nippondenso: 4280000720 - Toyota: 281000G020

1858

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## APLICAÇÃO / Application / Aplicación

Isuzu: NKR | NPR

## MOTOR

Hitachi: S2413 | S2403A | S2403B | S2403C | S25120 | S25161 | S25120A - Isuzu: 8942549221 | 8943334380 - Yanmar: 11913177010

## EQUIVALENTE / Equivalent

Cargo: 139841 - Hitachi: 22402500 | 22408500 | 22409500

1860

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## APLICAÇÃO / Application / Aplicación

Yanmar: Marine D27 | Marine KL

## MOTOR

Hitachi: S13125 | S114477 | S114851 | S114451A | S114851A

1860

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## EQUIVALENTE / Equivalent

Hitachi: 213065006

1861

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## APLICAÇÃO / Application / Aplicación

Isuzu: Campo 2.5 Diesel | Industrial | Marinha | Trooper 2.8 Diesel - Opel: Campo 3.1 Diesel Turbo | Frontera A 2.8 Diesel Turbo | Monterey A 3.1 Diesel Turbo

## MOTOR

Hitachi: S1403 | S13111 | S13112 | S13113 | S13114 | 8944104090 | 8944179250 | 8944339120 | 8944604170

## EQUIVALENTE / Equivalent

Cargo: 137277 - Hitachi: 21401500 | 213025005 | 214015003 - Isuzu: 8944355630 | 8970475470

1862

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## APLICAÇÃO / Application / Aplicación

Nissan: 27 NHR | Cabstar 2.3 Diesel F22 | Cabstar 2.5 Diesel F22 | King Van 2.3 Diesel E24 | King Van 2.5 Diesel E24 | Navara 2.5 Diesel | TD 27 | Terrano 2.7 Diesel | Terrano 2.70 TDi 4WD | Urban 2.3 D | Urban 2.5 D

## MOTOR

Hitachi: S13106 | S13126 | S13106B - Nissan: 2330010T01 | 2330010T02 | 233001W400 | 2330045N50 | 2330045N51 | 233006K200 | 233006T000 | 233006T001 | 233007F400 | 2330080G00 | 2330080G01 | 23300Q2403 | 23300Q2404 | 23300Q2405 | 23300Q2406

## EQUIVALENTE / Equivalent

Cargo: 135718 - Hitachi: 213015005 | 213015505 | 213095007 - Nissan: 2331243G00

1863

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## APLICAÇÃO / Application / Aplicación

Acura: Legend 3.2 C32A2 | SLX 3.2 6VD1 | SLX 3.5 6VE1 - Isuzu: Trooper 3.2 LS, LTD, RS | Trooper 3.5 | Vehicross 3.5 - ZEN: Utiliza pinhão ZEN 10049

## MOTOR

Nippon: 1280009700 | 1280009701 | 2280000810 | 2280002050 | 2280002051 | 2280002260 | 2280002261 | 2280003990 | 2280003991 | 2280003992 | 2280006420 | 2280006421 | 2280007200 | 2280007201

## EQUIVALENTE / Equivalent

Nippon: 0283007610 | 0283007680 | 0283007860 | 0283008100

1864

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## APLICAÇÃO / Application / Aplicación

Acura: Integra 1.8

## MOTOR

Nippon: 2280000220

## EQUIVALENTE / Equivalent

Nippon: 0283007670

1865

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## APLICAÇÃO / Application / Aplicación

Isuzu: NKR66 - Nissan: Cabstar | YGF

## MOTOR

Hitachi: S25501 | S25168A | S25515A - Isuzu: 8971617930

## EQUIVALENTE / Equivalent

Isuzu: 8970256720 | 8971797700

1866

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## MOTOR

Bosch: 0001421005 | 0001421014 | 0001421015 - Remy: 1109179 | 1113338

1866

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

EQUIVALENTE / Equivalent

Bosch: 2006202002 - Remy: 1932604

1871

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

APLICAÇÃO / Application / Aplicación

Ford: EcoSport | Edge | Fiesta | Focus 2010... | Fusion | Taurus

MOTOR

Ford: 6S4T11000AA | 8S4T11000AA | BB5T11000AA | DU2Z11V002BRM | DU2Z11V002DRM | 6S4Z11V002AARM | DU2Z11V002FARM - Motorcraft: SA934 | SA999RM | SA1057RM

EQUIVALENTE / Equivalent

Arrowhead: SFD5027

1872

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

APLICAÇÃO / Application / Aplicación

Kia: Bongo

MOTOR

Valeo: 361004A200

EQUIVALENTE / Equivalent

Valeo: 3F25B

1873

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

APLICAÇÃO / Application / Aplicación

General Motors/Chevrolet: N107 | N108 | N109 | N200 | N300 | N300P

MOTOR

Valeo: D6GC211

EQUIVALENTE / Equivalent

General Motors/Chevrolet: 24538276

1874

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

APLICAÇÃO / Application / Aplicación

Citroën: Jumper - Ford: Transit - Land Rover: Defender - Peugeot: Boxer

MOTOR

Bosch: 0001115088 | 0001115089 | 0001115092 | 0001115093 - Ford: AC1T11000AA | CC1T11000AB | CC1T11000BA | CC1T11000BB

EQUIVALENTE / Equivalent

Bosch: 1006210205 | 1006210206

1875

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

APLICAÇÃO / Application / Aplicación

Toyota: Corolla 2.0 2015

MOTOR

Bosch: F000C60299 | F000C60300

EQUIVALENTE / Equivalent

Bosch: 1006212003 | F000C61002 - Toyota: 280110T310

1876

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

APLICAÇÃO / Application / Aplicación

Mazda: 3 L4 2.5 L 2014...2016 | 6 L4 2.5 L 2014...2016 | CX5 L4 2.5 L 2014...2016 - Nissan: Altima V6 3.5L 2004...2007 | Maxima V6 3.5L 2004...2006 | Quest V6 3.5L 2004...2009

1876

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## MOTOR

Mazda: PE0118400 | PE0718400 | PY0118400 - Mitsubishi: M000T20771 | M000T34171 | M000T39671 | M000T20771ZC | M000T20777ZC - Nissan: 233008Y000 | 233008Y00A

## EQUIVALENTE / Equivalent

Lester: 11713 | 17872 | 19195 | 19981 - Mitsubishi: 6Z12 | 40571

1878

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## APLICAÇÃO / Application / Aplicación

John Deere: RE526375 | RE527400

## MOTOR

Bosch: 0001260001

## EQUIVALENTE / Equivalent

Bosch: 2006209550

1879

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 231

## APLICAÇÃO / Application / Aplicación

Fiat: Mobi Fire 2015 | Palio Fire 2015 | Uno Fire 2015/...

## MOTOR

Bosch: F000C60001 | F000C60004 - Fiat: 51997820 - Honda: 31200RAAA53

## EQUIVALENTE / Equivalent

Bosch: 1006212003 | 1006485017

1880

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

## APLICAÇÃO / Application / Aplicación

Cub Cadet: KH 2509809S - John Deere: AM132702 | MIA11257 | MIA11473 - Kawasaki: 211637021 - Kohler : 2509808 | 2509808S | 2509809 | 2509809S | 2509811 | 2509811S - Kubota: E719463010 | E719463012

## EQUIVALENTE / Equivalent

Remy: 113218

1881

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

## APLICAÇÃO / Application / Aplicación

Liugong: Carregadeira 835 Maxxor XCMG ZL30H SLDG 938

## MOTOR

Cummins: 4948058 | C4948058 - Deutz: 13028386 - Prestolite: M93R3001SE | M93R3013SE

## EQUIVALENTE / Equivalent

Prestolite: M93R3001SE

1882

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

## APLICAÇÃO / Application / Aplicación

Fiat: Doblo | Palio | Punto | Strada - Volvo: 850 | C30 | S60 | XC60 | XC90

## MOTOR

Bosch: 0001109041 | 0001109048 | 0001109063 | 0001109252 | 0001109264 - Fiat: 46522234 | 46830212

## EQUIVALENTE / Equivalent

Bosch: 1006209653 | 1006209751 | 1006209947

1883

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

## APLICAÇÃO / Application / Aplicación

Clark: Empilhadeira

## EQUIVALENTE / Equivalent

TJ: 407

1884

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

## APLICAÇÃO / Application / Aplicación

Lexus: IS II 220d - Toyota: Auris 2.0 D-4D | Auris 2.2 D | Avensis 2.0 D-4D | Avensis 2.2 D-4D | Corolla 2.0 D-4D | Corolla 2.2 D-4D | Corolla Verso 2.2 D-4D | RAV 4 III 2.2 D-4D

## MOTOR

Magneti Marelli: 63187051 | 63280059 - Nippondenso: 4280003180 | 4280004920 - Toyota: 281000G040

## EQUIVALENTE / Equivalent

Cargo: 330651

1885

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

## APLICAÇÃO / Application / Aplicación

Denso: 1280007480 - John Deere: Máquinas Agrícolas

## MOTOR

Denso: AM133636 | 1280001870 | 1280004870 | 2280000120 | 2280002640 | 2280007990 | 2280009261 | 2800002640 | 2800007190 - John Deere: AM107631 | AM108390 | AM124993 | AM127877 | AM131296 - Kawasaki: 211637002 | 211637004 | 211637014 | 211637015 | 211637026 - Kohler : 1209803 | 2409801 | 1209803S | 2409801S - Kubota: E719563010 - Mitsubishi: MD184420 - New Holland: K0H2409801 - Onan: 1911906 | 1912107

## EQUIVALENTE / Equivalent

Cargo: 234970 - Denso: 0283006010

1886

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 190 (W201) | Classe C (W202) | Classe C (W203) | Classe E (W124) | Classe G (W460) - Ssangyong: Actyon I | Actyon Sports I (QJ) | Korando (K4) | Korando (KJ) | Korando Cabrio (KJ) | Kyron | Musso (FJ) | Musso Sports | Rexton (GAB) | Stavic

## MOTOR

Ssangyong: 6611513201

1887

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

## APLICAÇÃO / Application / Aplicación

Honda: Amaze

## EQUIVALENTE / Equivalent

Denso: 4380000050

1890

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

## APLICAÇÃO / Application / Aplicación

Audi : A3 1.6 FSI 2.0 FSI - Seat: Altea 1.4 16V | Cordoba 1.2 - 1.2 12V - 1.4 16V - 1.6 - 1.6 16V | Ibiza I V - V 1.2 - 12V - 1.4 - 16V - 1.6 - 16V | Leon 1.4 16V | Octavia 1.4 - 16V - 1.6 - FSI | Roomster 1.2 - TSI - 1.4 - 1.6 - 1.4 - 1.9 TDI | Skoda Fabia 1.2 - TSI - 1.4 - 16V - 1.6 - 1.9 TDI - Volkswagen: Golf V - VI 1.4 - 16V - FSI - 1.6 FSI | Polo 1.2 - 12V - TSI - 1.4 - 16V - FSI - 1.6 - 16V

## MOTOR

Valeo: D6GS11 | D6GS12 | D6GS13

## EQUIVALENTE / Equivalent

Valeo: 191548 | 594665

1891

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

## APLICAÇÃO / Application / Aplicación

Audi : A3 L4 2.0L 1984cc 121cid 2010...2013 | A3 L4 2.0L 1984cc 121cid GAS 2011 | TT L4 2.0L 1984cc 121cid CCTA 2009 | TT Quattro L4 2.0L 1984cc 121cid CCTA 2009...2010 - Volkswagen: Beetle L4 2.0L 1984cc 121cid 2012 | Bora 1.6 Non-Turbo Gas (BWG 2008 | Bora 1.6 Non-Turbo Gas (BWH) 2008 | Bora 1.6 Non-Turbo Gas (BWH) 2011 | Bora 1.6 Non-Turbo Gas (CLS) 2011..2013 | Bora 2.0 Non-Turbo, Gas (CEN 2008 | CC L4 2.0L 1984cc 121cid 2009...2010 | Eos L4 2.0L 1984cc 121cid 2007...2011 | Golf 1.6 Non-Turbo Gas (CLR) 2012 | Golf L4 2.0L 1984cc 121cid GAS 2012 | Golf City L4 2.0L 1984cc 121cid 2007 | GTI L4 2.0L 1984cc 121cid 2006...2011 | Jetta L4 2.0L 1984cc 121cid 2006...2010 | Jetta L4 2.0L 1984cc 121cid GAS 2009, 2011 | Jetta L4 2.0L 1984cc 121cid Naturally Aspirated 2012, 2013 | Jetta L4 2.0L 1984cc 121cid Turbocharged 2012, 2013 | Passat L4 2.0L 1984cc 121cid 2006...2009 | R32 V6 3.2L 3189cc 195cid 2008 | Tiguan L4 2.0L 1984cc 121cid 2010...2012

## MOTOR

Valeo: D6GS14 | D6GS14M | TS12ER20 | TS12ER25 - Volkswagen: 02M911021B | 02M911023M | 02M911023MX

1891

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

EQUIVALENTE / Equivalent

Valeo: 191547 | 594666 | 200202

1893

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

APLICAÇÃO / Application / Aplicación

Volkswagen: Fox 1.0 e 1.6 2016/... | Gol 1.0 e 1.6 2016/... | Golf 1.6 2016/... | Polo 1.0 e 1.6 2016/... | Polo Sedan 1.0 e 1.6 2016/... | Saveiro 1.0 e 1.6 2016/... | Spacefox 1.0 e 1.6 2016/... | Voyage 1.0 e 1.6 2016/...

MOTOR

Valeo: TSC10R7 - Volkswagen: 495107 | 02T911021E

EQUIVALENTE / Equivalent

Valeo: 1205962

1895

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

APLICAÇÃO / Application / Aplicación

Daihatsu: Charade 1000 1983...1993 | Charade L3 1.0L 993cc 61cid 1988...1992 | Domino 850 1986...1989 | Move 847 1997...2000

MOTOR

Daihatsu: 2810087526000 | 2810087548000 | 2810087722000 | 2810087734000 - Denso: 1280003662 | 1280004530 | 1280004531 | 1280004532 | 2280006430

Toyota: 2810087725

EQUIVALENTE / Equivalent

Cargo: 136794 - Denso: 0283005730 - Toyota: 2801187505 - Volkswagen: 113911335B

10003

IMPULSOR DE PARTIDA DO MOTOR DE ARRANQUE  
STARTER DRIVE / IMPULSOR DE PARTIDA

FOTO / Photo pg. 232

APLICAÇÃO / Application / Aplicación

Buick: Century 3.1 L (189) V6 2001 - Cadillac: Escalade 5.3L (325) V8 2004...2005 - Fiat: Doblo 1.8 16V | Doblo 1.8 8V | Doblo FLEX | Idea 1.8 16V | Idea 1.8 8V | Idea FLEX | Palio 1.8 16V | Palio 1.8 8V | Palio FLEX | Punto 1.8 16V | Punto 1.8 8V | Punto FLEX | Stilo 1.8 16V | Stilo 1.8 8V | Stilo FLEX | Strada 1.8 16V | Strada 1.8 8V | Strada FLEX - General Motors/Chevrolet: Astra 1.8 e 2.0 | Avalanche 5.3L(325) V8 2004...2005 | Blazer 2.2 e 2.4 | Celta | Cobalt | Corsa 1.8 | Envoy 5.3L/5.3L XL (325) V8 2004...2005 | Express Vans 4.8L(291) V8 2004...2005 | Express Vans 5.3L(325) V8 2004...2005 | General Motors 1.8 16V DOCH (Flex) | General Motors 1.8 8V SOCH | Impala 3.4L(207) V6 2001 | Lumina (Sedan) 3.1L(189) V6 2001 | Malibu 3.1L(189) V6 2001 | Meriva 1.8 | Montana | Monte Carlo 3.4L(207) V6 2001 | Prisma | S10 2.2 e 2.4 | Savana Vans 4.8L (291) V8 2004...2005 | Savana Vans 5.3L/5.3L XL (325) V8 2004...2005 | Sierra Pick Up 4.8L (291) V8 2004...2005 | Sierra Pick Up 5.3L/5.3L XL (325) V8 2004...2005 | Silverado Pick Up 4.8L(291) V8 2004...2005 | Silverado Pick Up 5.3L(325) V8 2004...2005 | SSR Sport Truck 5.3L (325) V8 2004...2005 | Suburban 5.3L(325) V8 2004...2005 | Tahoe 4.8L(291) V8 2004...2005 | Tahoe 5.3L(325) V8 2004...2005 | Trailblazer 5.3L(325) V8 2004...2005 | Vectra 2.2 | Venture 3.4L(207) V6 2001 | Yukon 4.8L (291) V8 2004...2005 | Yukon 5.3L/5.3L XL (325) V8 2004...2005 | Zafira 2.0 - Isuzu: Ascender 5.3L (325) V8 2004 - Oldsmobile: Alero 3.4L (207) V6 2001 | Silhouette 3.4L (207) V6 2001 - Opel: Astra G 2.2 16V | Signum 2.2 | Speedster 2.2 | Vectra B 2.2 16V | Vectra C 2.2 16V | Zafira 2.2 16V - Pontiac: Aztec 3.4L (207) V6 2001 | Grand AM 3.4L (207) V6 2001 | Grand Prix 3.1L (189) V6 2001 | Montana 3.4L (207) V6 2001 - Saab: 9.7 5.3L (325) V8 2005 - Saturn: 2004-01 - ZEN: Utiliza Planetária 12720

MOTOR

General Motors/Chevrolet: 93297652 | 93297653 | 93303527 | 93304772 | 93327502 | 93374341 | 93374342 | 93384398 - Remy: 8000006 | 8000048 | 8000090 | 8000158 | 8000159 | 8000180 | 8000188 | 8000287 | 9000890 | 9000891 | 9000893 | 9000902 | 9000932 | 9000934 | 9000944 | 9000952 | 9000967 | 9000978 | 9000981 | 10452345

EQUIVALENTE / Equivalent

Lester: 6471 | 6491 | 6493 | 6494 - Remy: 8000045 | 8000058 | 9000856 | 9000868 | 9000876 | 9000881 | 9000896 | 9000901 | 9000933 | 9000939 | 9000948 | 9000977 | 10452348 | 10455504 | 10501804 | 10504515 | 10521484 | 89017523

0032

PINHÃO

PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Ford: Campana C/R | F600 Gasolina - Willys: Linha Willys 1952...1961

## MOTOR

Ford: 2900550 | 2900557 | 2900726 | 2900804 | B5C11002A - Remy: 1107213 | 1107258 | 1107261 | 1107322 | 1107741 | 1107788 | 1107881 | 1107928 | 1108014 | 1108032 | 1108047 | 1108048 | 1108052 | 1108056 | 1108061 | 1108062 | 1108063 | 1108064 | 1108065 | 1108066 | 1108071 | 1108081 | 1108113 | 1108152 | 1108163 | 1108166 | 1108168 | 1108169 | 1108170 | 1108171 | 1108182 | 1108235 | 1108258 | 1109388 | 1109395 | 1109462 | 1109479

## EQUIVALENTE / Equivalent

Chrysler: FO1907 - Ford: 2900761 | FAA11350A | FAU11350A | ICM11350A | ICM11350B | ICM11350C | C1AF11350A | C1AZ11350A - Lucas Indiel: 223145 - Remy: 1883768 | 1922419 | 1923288 | 1933214 | 1938976 | 1939178 | 1950398 | 1954437 | 1958842 | 1961372

0035

PINHÃO

PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Fiat Allis: 673 MWM Diesel | 805C MWM - Lancia: Beta Z50 | Esadelta B | Esagamma | Esatu - Mercedes Benz: OM321 | OM324 | OM326 - Volvo: DR860 | DR860T | LM1240 | LM840 | S950 | SM868 | T800 | T814 | VHK116 | VHK118 | VHK310

## MOTOR

Bosch: 0001400152 | 0001401007 | 0001401025 | 0001401041 | 0001401049 | 0001401050 | 0001401051 | 0001401052 | 0001401061 | 0001401066 | 0001401074 | 0001402008 | 0001402050 | 0001402054 | 0001402055 | 0001402058 | 0001402059 | 0001402060 | 0001402061 | 0001402071 | 0001402075 | 0001402080 | 0001402081 | 0001402083 | 0001501001 | 0001501038 | 9967600004 - Efel: 22202 - Fiat: 587624 | 4127580 | 8961386 | 8962211 | 8962232 - Iskra: 10130121 | 10130123 | 11130005 | 11130009 | 11130104 | 11130115 | 11130148 - Magneti Marelli: 63211627 | 63211665 | 63211669 | 63213127 | 63213812 | 63214349 | 63214371 | 63216225 | 63216325

## EQUIVALENTE / Equivalent

Bosch: 2006380010 | 2006380410 | 2006380414 | 2006380418 | 2006381410 - Fiat: 8122125 | 9004794 | 9923779 - Iskra: 18100098 - Italacciai: SP201 - Lester: 16369 | 17108 | 18039 - Lucas Indiel: 223104

0036

PINHÃO

PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: 400 | 450 - Caterpillar: Motoniveladora 12E ...01/1973 - Fiat: Caminhão FNM D9500 - KHD: D8005 | M90D7FL | M90D7L - Lancia: Esadelta | Esaro 3RO | Esatu - Scania: DS11 R82A marítimo com turbo compressor Holset 4 LE | Motor D11 marítimo ED 1966 | Motor D11 R81 marítimo ED 1966...1970 | Motor DSI11 R82A | Ônibus B115 ... 04/1975 | Ônibus BR110 ... 04/1975 | Ônibus BR115S ... 04/1975

## MOTOR

Bosch: 0001401002 | 0001401044 | 0001401045 | 0001401046 | 0001402002 | 0001402051 | 0001402052 | 0001402053 | 0001402057 | 0001501003 | 0001501020 | 0001501032 | 9000085004 | 9967600005 - Femsas: MTH241 | MTH242 | MTH244 - Iskra: 11130158

## EQUIVALENTE / Equivalent

Bosch: 2006380558 | 2006381558 - Femsas: 3550 - Fiat: 9008738 - Iskra: 18100021 - Italacciai: SP205 - Lucas Indiel: 223105 - Volkswagen: 2431807

0078

PINHÃO

PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Fiat: 180 | 210 - Massey Ferguson: 44 | 55 | 55C | 600 | 66 | 66C | 700C | 77C | C44 | D66

## MOTOR

Bosch: 0001410026 | 0001410027 | 0001410035 | 0001410047 | 0001410094 | 0001415007 | 0001416004

## EQUIVALENTE / Equivalent

Bosch: 2006382154 | 2006383154

0087

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

ABG: Jumbo 140 - Aifo: M32S | M42S | M52S - Asia Motors: PR425 - Case: Pá Carregadeira com motor Scania | Trator 2470 | Trator 4490 | Trator W36 - Daf: 95310 | 95330 | 95350 | 95360 | 95380 | 95400 | 95430 - Falr: M1620H - Fiat: 13.304F | 159 | 190 F20-190 (Unic V 85 S) | 190PAC20 | 260 | 260 (Unic V 85 S) | 26304DFS | 30.304DFS | Caminhão 130NC | Caminhão 150NC | Caminhão 190 | NC20-170 | NR | NT20 - Fiat Allis: Trator de Esteiras AD14 com motor Scania Fiat Iveco: 130.20 | 150.20 | 159.20 | 170.20 | 190.20 - Ford: Caminhão Cargo 1317 | Caminhão Cargo 1320 | Caminhão Cargo 1517 | Caminhão Cargo 1520 | Caminhão Cargo 1617 | Caminhão Cargo 1620 | Caminhão Cargo 2220 | Caminhão Cargo 2420 | Caminhão Cargo 2817 | Caminhão Cargo 3020 | Caminhão Cargo 3220 - KHD: DL1300 | F6L413 | F8L413 | L | M150E10 | M150L10 | M170D | M200L | M232D | R | S | SH | TL | TR - Massey Ferguson: Trator MF4780 (SSB-DN11) | Trator MF4780 com motor Scania DN11 - Mercedes Benz: Caminhão MB856 | Caminhão MB858 | Caminhão MB866 | Caminhão MB868 - Pegaso: 1228T | 1231 | 1236 | 1331 | 1431 | 2331 | 2431K | 3560 | 5023 | 5024 | 5036 | 6038 | 6420 | 6424 - Scania: Caminhão 140 | Caminhão 140 Super | Caminhão 141 Super | Caminhão 145 | Caminhão BR145 | Caminhão CR145L | Caminhão CR145T | Caminhão CR145X | Caminhão DSI14 | Caminhão L101 | Caminhão L142 | Caminhão LK140 | Caminhão LK141 | Caminhão LK142 | Caminhão LKS140 | Caminhão LKS141 | Caminhão LKS142 | Caminhão R142 | Caminhão R142-410 | Caminhão T142 | Caminhão T142-410 | Chassi p/ ônibus K112, S112 | Ônibus BR115 05/1975... | Ônibus BR115S 05/1975... | Ônibus BR116 05/1975... | Ônibus BR116S 05/1975... - Valmet: 110KVA | 115KVA | 125KVA | 150KVA (V1308) - Volvo: Caminhão 59 | Caminhão B10M | Caminhão B58 | Caminhão F10 | Caminhão F88 | Caminhão FB88 | Caminhão G88.T | Caminhão N | Caminhão N10 | Caminhão N12 | Caminhão NB88TS | Caminhão NL10210 | Caminhão NL10340 | Caminhão NL12400 | Caminhão R | Caminhão T | Chassi p/ ônibus B10M | Chassi p/ ônibus B58E

## MOTOR

Bosch: 0000084013 | 0001410019 | 0001410032 | 0001410034 | 0001410037 | 0001410044 | 0001410046 | 0001410050 | 0001410062 | 0001410063 | 0001410069 | 0001410074 | 0001410077 | 0001410087 | 0001410098 | 0001410102 | 0001410106 | 0001410111 | 0001410115 | 0001411005 | 0001411010 | 0001411012 | 0001411013 | 0001411015 | 0001411016 | 0001411036 | 0001413018 | 0001414008 | 0001414019 | 0001415008 | 0001415009 | 0001415011 | 0001415013 | 0001415017 | 0001416003 | 0001416005 | 0001416006 | 0001416007 | 0001416008 | 0001416009 | 0001416011 | 0001416012 | 0001416030 | 0001416031 | 0001416032 | 0001416033 | 0001416034 | 0001416035 | 0001416036 | 0001416039 | 0001416048 | 0001416049 | 0001416050 | 0001416053 | 0001416058 | 0001416062 | 0001416067 | 0001416068 | 0001416069 | 0001416070 | 0001416071 | 0001416075 | 0001416076 | 0001417002 | 0001417016 | 0001417022 | 0001417023 | 0001417024 | 0001417033 | 0001417035 | 0001417042 | 0001417043 | 0001417044 | 0001417045 | 0001417047 | 0001417048 | 0001417054 | 0001417055 | 0001417056 | 0001417060 | 0001417066 | 0001417068 | 0001417071 | 0001417072 | 0001418010 | 9000084010 | 9000084011 | 9000084012 | 9000084013 | 9000084014 | 9000084017 | 9000084018 | 9000084019 | 9000084021 - Fiat: 61227993 - Italcacciai: 1410032 - Pegaso: 6100S

## EQUIVALENTE / Equivalent

Bosch: 2006382018 | 2006382019 | 2006382152 | 2006382156 | 2006382172 - Cargo: 130418 - Efel: 10779 - Fiat: 8122126 | 9004229 | 9984246 - Iskra: 15100152  
Italcacciai: SP208 - Lester: 17094 | 18117 | 18220 | 18222 | 18253 - Lucas: TMB156 - Lucas Indiel: 222421 | 223204

0088

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Asia Motors: Compressor AX430 - Case: Pá Carregadeira W36 com motor Cummins - Caterpillar: Cat D300 | Moto Scaper 631E | Trator de Esteiras D8L e 631E  
Cummins: Motor 250 Super | Motor N | Motor N855 | Motor NT | Motor NTA | Motor NTA855 - Komatsu: Trator de Esteiras D60A com motor Cummins N855 | Trator de Esteiras D60E com motor Cummins N855 | Trator de Esteiras D60F com motor Cummins N855 | Trator de Esteiras D65 com motor Cummins N855 | Trator de Esteiras D65A com motor Cummins N855 - Mafersa: Trator M série M 240 Cummins 6CTA 8.3 09/1991...

## MOTOR

Bosch: 0001411007 | 9000084008 | 9000084020 | 9000084022 | 9000084023

## EQUIVALENTE / Equivalent

Bosch: 2006382168 - Lucas Indiel: 223181

0089

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Case: Pá Carregadeira W36B turbo - Caterpillar: Motoniveladora 120B | Motoniveladora 140B (3306) | Motores geradores 3304T | Motores geradores 3306T | Pá Carregadeira 930 | Pá Carregadeira 966 | Trator de Esteiras D4E | Trator de Esteiras D6D - Cummins: Chassi p/ ônibus RC210 | Chassi p/ ônibus UC210 | Motor 6C 8.3 lts | Motor 6CT 8.3 lts | Motor 6CTA 8.3 lts - Komatsu: Esteira D60F com motor Cummins N855C 1993... | Esteira D65E com motor Cummins N855C 1993... | Esteira D73E com motor Cummins N855C 1993... | Esteiras D60E com motor Cummins N855C 1993... | Trator WA 180 Cummins 6BT 5.9 02/1997... - Mafersa: Trator M série M 210 Cummins 6CTA 8.3 09/1991... - Volkswagen: Caminhão VW14.170 | Caminhão VW14.210 | Caminhão VW16.170 | Caminhão VW16.210 - Volvo: FH12 1993 | FH12 1995 | FL7 1991 | FM12 1998 | FS7 1994...1996

## MOTOR

Bosch: 0001416061 | 0001417065 | 0001417075 | 9000084007 | 9000084009 | 9000084024 | 9000084026

## EQUIVALENTE / Equivalent

Bosch: 2006382190 | 9001084064 - Lucas Indiel: 222422



0170

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Austin: 1100 | Allegro | Maxi | Mini - Bedford: CF | Chevanne | Ha Van - Hillman: Avenger | Hunter - Innocenti: Mini | Regent - MG Car: 1300 | Midget - Morris: Marina | Oxford - Triumph: Dolomite | Spitfire | Toledo - Vauxhall: Victor

## MOTOR

Italacciai: MTJ01201 - Lucas Indiel: 25147DM35

## EQUIVALENTE / Equivalent

Bosch: 9001336211 - Femsa: 148981 - Italacciai: SD300 - Lester: 16121 | 16122 | 16167 | 16168 | 16188 - Lucas: TLB112 | 54252212

0171

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Austin: 1100 | Allegro | Maxi | Mini - Bedford: CF | Chevanne | Ha Van - Hillman: Avenger | Hunter - Innocenti: Mini | Regent - MG Car: 1300 | Midget - Morris: Marina | Oxford - Triumph: Dolomite | Spitfire | Toledo - Vauxhall: Victor

## MOTOR

Lucas Indiel: 25147DM35

## EQUIVALENTE / Equivalent

Lucas: 250698

0218

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: 1319 | 1320 | 1418 | 1419 | 1420 | 1425 | 1425 S | 1517 | 1518 | 1519 | 1520 | 1524 | 1525 | 1622 | 1924 | 1929 | 1932 | 1933 | 1934 | 2019 | 2025 S | 2028 LS | 2219 | 2220 | 2222 | 2225B | 2228 | 2233 | 2236 | 2238 | 2624A | 2628 | 2628A | 2628B | 2633 | 2636 | 2638 | 3025 B | 3028 K | 3250A | 3328 | 3328B | 3333 | 3336 | 3336A | 3850A | Chassi p/ Ônibus 1420 | Chassi p/ Ônibus 1517 | Chassi p/ Ônibus 1518 | Chassi p/ Ônibus O364 | Chassi p/ Ônibus O370 | Chassi p/ Ônibus O371 | Chassi p/ Ônibus O371UP | Chassi p/ Ônibus OH1419 | Motor Estacionário, gerador, industrial e marítimo O370 OM355-5, 6, 6A, 6LA | Motor Estacionário, gerador, industrial e marítimo OM352 | Motor Estacionário, gerador, industrial e marítimo OM352A | Motor Estacionário, gerador, industrial e marítimo O371 OM355-5A, 6A, 6LA | Motor Estacionário, gerador, industrial e marítimo O371UP OM355-5 | Motor Estacionário, gerador, industrial e marítimo OM314 | O 303 | O 305 | O 305G | O 307 | O 345, O 345G | O 355 | O 364 | O 365 | O 370 | O 370RS | O 370RSD | O 371R | O 371RS | O 371RSD | O370R - MWM: Motor marítimo D232 V6/V8 1970 ED e V12 T/TD 1970 ED 12 e 24 OM232 V | Motor marítimo TD232 V6/V8 1970 ED e V12 T/TD 1970 ED 12 e 24 OM232 V

## MOTOR

Bosch: 0001410015 | 0001410016 | 0001410021 | 0001410022 | 0001410029 | 0001410041 | 0001410043 | 0001410052 | 0001410058 | 0001410078 | 0001410083 | 0001410088 | 0001410089 | 0001410090 | 0001411009 | 0001411014 | 0001413001 | 0001413004 | 0001413006 | 0001413010 | 0001414003 | 0001414009 | 0001414010 | 0001414011 | 0001414015 | 0001414018 | 0001414022 | 0001415001 | 0001415002 | 0001415006 | 0001415010 | 0001415027 | 0001416002 | 0001416013 | 0001416017 | 0001416022 | 0001416023 | 0001416024 | 0001416026 | 0001416028 | 0001417001 | 0001417028 | 0001417036 | 9000084016

## EQUIVALENTE / Equivalent

Bosch: 2006382020 | 2006382150 | 2006382176 | 2006383150 - Cargo: 130419 - Fiat: 8122127 | 8122128 - Italacciai: SP211 - Lester: 17108 | 18113 | 18221 | 18225 | 18257 - Lucas: TMB150 - Lucas Indiel: 222419

0280

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Ford: Capri 1.3 e 1.6 | Fiesta 1.0, 1.1 | Van

## MOTOR

Italacciai: 25142A - Lucas Indiel: 25276AM35 | 25345AM35 | 25142AHM35 | 25148AJM35

## EQUIVALENTE / Equivalent

Italacciai: SD197 - Lester: 16169 - Lucas: TLB111 | 54240293 | 54240294 | 54240295 | 54242330 | 54252215 | 54261658 | 60251022

0380

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Austin: Allegro | Maxi | Mini - Bedford: Ha Van - Ford: Escort Van | Fiesta Van - Lotus: Seven - TVR: Vixen 1300

## MOTOR

Italacciai: 25148A - Lucas Indiel: 25276AM35 | 25345AM35 | 25142AHM35 | 25148AJM35

## EQUIVALENTE / Equivalent

Italacciai: SD197 - Lester: 16169 - Lucas: TLB111 | 54240293 | 54240294 | 54240295 | 54242330 | 54252215 | 54261658 | 60251022

1111

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Kaeble: Especial/Special - Man: Caminhão - Mercedes Benz: Especial/Special - MWM: Especial/Special

## MOTOR

Bosch: 0001510020 | 0001510025 | 0001510031 | 0001510032 | 0001510037 | 0001510038 | 0001510041

## EQUIVALENTE / Equivalent

Bosch: 2006382060 - Mercedes Benz: 0001516513 | A0001516513

1181

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Daf: F2800 | F3200

## MOTOR

Bosch: 0001410067 | 0001410068 | 0001410116 | 0001415020

## EQUIVALENTE / Equivalent

Bosch: 2006382174 | 2006383160

1216

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Willys: Linha Willys

## MOTOR

Ford: FAJ11001B | FAN11001A | FAP11001A | FAS11001A - Remy: 1107037 | 1107056 | 1107074 | 1107084 | 1107087 | 1107088 | 1107089 | 1107092 | 1107095 | 1107115 | 1107116 | 1107125 | 1107126 | 1107134 | 1107139 | 1107141 | 1107149 | 1107158 | 1107173 | 1107196 | 1107198 | 1107217 | 1107235 | 1107253 | 1107605 | 1107654 | 1107658 | 1107659 | 1107695 | 1107728 | 1107745 | 1107746 | 1107747 | 1107755 | 1107762 | 1107787 | 1107830 | 1107927 | 1107943 | 1107954 | 1107977 | 1108008 | 1108015 | 1108021 | 1108029 | 1108037 | 1108057 | 1108068 | 1108077 | 1108078 | 1108106 | 1108112 | 1108126 | 1108131 | 1108149 | 1108150 | 1108186 | 1109384 | 1109450 | 1109457 | 1109458 | 1109468 | 1109654 | 1109671

## EQUIVALENTE / Equivalent

Chrysler: 3837936 | 3837986 - Ford: BRNN11350 | FAB11350A | FAC11350A | FAD11350A | FAV11350A - Remy: D2010 | D2012 | D2023 | 1878079 | 1881636 | 1887463 | 1904170 | 1909204 | 1912766 | 1913587 | 1913589 | 1918219 | 1922266 | 1925079 | 1925285 | 1925871 | 1938637 | 1952832 | 1958621 | 1964293 | 1971147

9028

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 233

## APLICAÇÃO / Application / Aplicación

Caterpillar: Máquinas com motor D330C | Máquinas com motor D333C | Máquinas com motor D334C | Máquinas com motor D336C | Máquinas com motor D344C - ZEN: Utilizado no Impulsor ZEN 0097

## MOTOR

Ford: C8ZF11000C | D3OZ11002A | D4TZ11002E | D3TF11000CA | D3TF11001CA - Remy: 1109624 | 1109628 | 1109637 | 1109638 | 1109998 | 1113353 | 1113366 | 1113371 | 1113378 | 1113386 | 1113393 | 1113407 | 1113472 | 1113477 | 1113628 | 1113631 | 1113670 | 1113827 | 1113848 | 1113853 | 1113891 | 1113904 | 1113928 | 1113934 | 1113943

9074

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Caterpillar: Máquinas equipadas com motor D311 | Máquinas equipadas com motor D320 | Máquinas equipadas com motor D330 | Máquinas equipadas com motor D333 | Máquinas equipadas com motor D342 | Máquinas equipadas com motor D343 - Cummins: Motor Cummins 42 MT 12/14V - John Deere: John Deere 42 MT Massey Ferguson: Massey Ferguson - ZEN: Utilizado no Impulsor ZEN 0110

## MOTOR

Caterpillar: 7M8651 - Chrysler: 15056 | 15113 - Ford: C3TF11000A | C3TZ11001A | C4TF11000A | C4TZ11002A | C5TZ11002C | C6TF11001A | C9HZ11000C | D3TF11000A - Leece Neville: CATF11000A | CATZ11002A - Remy: 1109625 | 1109627 | 1109631 | 1109636 | 1109642 | 1109643 | 1109649 | 1109755 | 1109759 | 1113475 | 1113519 | 1113643 | 1113645 | 1113832 | 1113884 | 1113952 | 1113955 | 1113956 | 1113957 | 1113958 | 1113965 | 1113966 | 1113968 | 1113970 | 1113971 | 1113972 | 1113973 | 1113974 | 1113975 | 1113977 | 1113978 | 1113979 | 1113981 | 1113983 | 1113986 | 1113994 | 1113995 | 1113997 | 1114066 | 1114092 | 1114140 | 1114143 | 1114145 | 1114148 | 1114150 | 1114197 | 10478802 | 10478813 | 10478824 | 10478829 | 10478894 | 10478911 | 10478986 | 10478998

9186

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Honda: Civic 1.3 - 1.4 - 1.5 - 1.6 | Concerto 1.3 - 1.4 - 1.5 (16v) | Shuttle 1.5 - 1.6 - Kubota: Tratores - Toyota: 2S - 2Y - 3Y - 4Y | Camry 1.8 - 2.0 | Carina II 1.8 - 2.0 | Corolla 1.8 - 2.0 | MR2 - ZEN: Utilizado no Impulsor ZEN 0947 e ZEN 0818

9186

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## MOTOR

Honda: DRK1E | 31200657671 | 31200675671 | 31200689661 | 31200689662 | 31200PAO671 | 31200PB2016 | 31200PC2004 | 31200PC2661 | 31200PC2662 | 31200PC2671 | 31200PC2672 | 31200PC6661 | 31200PD2661 | 31200PE0661 | 31200PE1671 | 31200PG6911 | 31200PM3003 | 31200PV2662 | 31200PV2671

Nippondenso: 128000721 | 128005080 | 128007210 | 280001661 | 280002911 | 280004020 | 280004021 | 280004044 | 280004240 | 280004241 | 280004242 | 280004243 | 280004250 | 280004251 | 280004252 | 280004253 | 280004320 | 280004321 | 280004322 | 280004323 | 280004340 | 280004341 | 280004342 | 280004343 | 280004450 | 280004510 | 280004512 | 280004540 | 280004550 | 280004900 | 280004940 | 280004951 | 280005100 | 280005820 | 280005821 | 280005822 | 280005900 | 280005910 | 280005912 | 280006000 | 280006001 | 280006030 | 280006040 | 280006140 | 280006360 | 280006361 | 280006362 | 280006620 | 280006701 | 280006710 | 280006711 | 280007190 | 280007191 | 280007320 | 280007321 | 280007380 | 280007390 | 280007391 | 280007392 | 280007550 | 280007560 | 280007620 | 280007700 | 280007990 | 280008000 | 280008050 | 280008060 | 280008080 | 280008180 | 280008220 | 280008380 | 280008620 | 280008670 | 280009070 | 280009120 | 280009121 | 280009260 | 280009270 | 280009320 | 280009321 | 280009340 | 280009380 | 280009720 | 280009730 | 280009860 | 1280000120 | 1280000130 | 1280000280 | 1280000300 | 1280000400 | 1280000590 | 1280000620 | 1280000622 | 1280001240 | 1280001250 | 1280001350 | 1280001370 | 1280001440 | 1280001900 | 1280002040 | 1280002060 | 1280002180 | 1280002190 | 1280002590 | 1280003350 | 1280004420 | 1280005080 | 1280005340 | 1280005561 | 1280005571 | 1280005580 | 1280005581 | 1280005630 | 1280005691 | 1280005700 | 1280005780 | 1280007210 | 1280008200 | 1280008210 | 1280008500 | 1280009950 - Toyota: 2810010040 | 2810013010 | 2810015020 | 2810015040 | 2810015070 | 2810015130 | 2810015180 | 2810016020 | 2810016080 | 2810020550 | 2810020551 | 2810020552 | 2810026043 | 2810026053 | 2810026061 | 2810026063 | 2810026070 | 2810026100 | 2810026110 | 2810026120 | 2810027050 | 2810034044 | 2810034052 | 2810034060 | 2810034080 | 2810041060 | 2810045030 | 2810045031 | 2810045032 | 2810060070 | 2810063020 | 2810063050 | 2810072010 | 2810072020 | 2810072090

## EQUIVALENTE / Equivalent

Honda: 31213671671 | 31221657004 - Lester: 16248 | 16586 | 16600 | 16760 | 16761 | 16905 | 16906 | 17027 | 17028 | 17101 | 17118 | 17254 | 17345 | 17365 | 17374 | 17378 | 17606 - Nippondenso: 0280993088 | 0280993090 | 0283001603 - Toyota: 2801126041 | 2801126042 - Unipoint: SD5201

9260

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

John Deere: John Deere Excavator - Massey Ferguson: MF-1205 1993...1996 | MF-1220 Isekinouki 3-69 Diesel 1993...1999 | MF-1230 1993...2000 | MF-1235 1997...2000

## MOTOR

Isuzu: 5811000860 | 5811001550 | 5811001660 | 5811001661 | 5811001830 | 8941233870 | 8941337583 | 8941492490 | 8941702050 | 8944127301 - Nippondenso: 128000830 | 280005060 | 280006440 | 280007000 | 280007790 | 280007791 | 1280000020 | 1280000830 | 1280000831 | 1280000960 | 1280001100 | 1280002881 | 1280004390

## EQUIVALENTE / Equivalent

Isuzu: 5811240030 | 5811240060 - Lester: 16739 | 17303 | 17381 - Nippondenso: 0280993400 | 0283001841

9301

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Toyota: 2B, 3B - ZEN: Utilizado no Impulsor ZEN 1827

## MOTOR

Nippondenso: 280005490 | 280005580 | 280005581 | 280005593 | 280005850 | 280005860 | 280006200 | 280006290 | 280006340 | 280006560 | 280006561 | 280006640 | 280006880 | 280007240 | 280007810 | 280008070 | 280009770 | 1280004100 | 1280005090 | 1280005300 | 1280007750 - Toyota: 2810022060 | 2810042800 | 2810054010 | 2810054061 | 2810054090 | 2810047090C

## EQUIVALENTE / Equivalent

Lester: 16830 | 16881 | 18151 | 18190 - Nippondenso: 0280993310 | 0283002011 - Toyota: 2801154010

9302

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Case: Tratores - Cummins: Especial/Special - Dodge: Especial/Special - ZEN: Utilizado no Impulsor ZEN 1829

## MOTOR

Nippondenso: 280005880 | 1280000210 | 1280000540 | 1280002270 | 1280002480 | 1280003120 | 1280004220 | 1280004910 | 1280009500 | 2280000620

## EQUIVALENTE / Equivalent

Lester: 16658 | 16990 | 17215 | 17390 | 17394 | 17548 | 17600 - Nippondenso: 0280993230

9307

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Chrysler: E Class 4 Cil 2.6L 2555cc 156cid 1983...1984 | Executive Limousine 4 Cil 2.6L 2555cc 156cid 1985 | Executive Sedan 4 Cil 2.6L 2555cc 156cid 1983...1984 | LeBaron 4 Cil 2.6L 2555cc 156cid 1982...1985 | New Yorker 4 Cil 2.6L 2555cc 156cid 1983...1985 | Town E Country 4 Cil 2.6L 2555cc 156cid 1982...1983 | Town E Country 4 Cil 2.6L 2555cc 156cid 1985 - Dodge: 400 4 Cil 2.6L 2555cc 156cid 1982...1983 | 600 4 Cil 2.6L 2555cc 156cid 1983...1985 | Aries 4 Cil 2.6L 2555cc 156cid 1981...1985 | Caravan 4 Cil 2.6L 2555cc 156cid 1984...1987 | Mini Ram 4 Cil 2.6L 2555cc 156cid VIN G 1984...1987 | Royal Mini Ram 4 Cil 2.6L 2555cc 156cid 1984...1987 - Plymouth: Caravelle 4 Cil 2.6L 2555cc 156cid 1983...1985 | Reliant 4 Cil 2.6L 2555cc 156cid 1981...1985 | Voyager 4 Cil 2.6L 2555cc 156cid 1984...1987 - ZEN: Utilizado no Impulsor ZEN 0750

## EQUIVALENTE / Equivalent

Lester: 16676 | 17007 | 17020 | 17083 | 17091 | 17129 | 17197 | 17216 | 17363 | 17368 | 17579 | 18154 - Nippondenso: 0280993380 | 0280996260 | 0280996300

9349

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

ZEN: Utiliza no Impulsor ZEN 0816

## MOTOR

Nippondenso: 128005670 | 280005000 | 280007730 | 1280004960 | 1280005270 | 1280005280 | 1280005670 | 1280006320

## EQUIVALENTE / Equivalent

Chrysler: 5233966 - Lester: 17084 | 17466 | 17485 - Nippondenso: 0280996310 | 0283001811 | 0283006190

9350

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Honda: Accord | Civic | Prelude

## MOTOR

Honda: 31200PC2663 | 31200PC2681 | 31200PC6663 | 31200PD2662 | 31200PD2663 | 31200PD2664 | 31200PE0664 | 31200PE0665 | 31200PE1673 | 31200PE1674 | 31200PG6914 | 31200PH3953 | 31200PK2006 | 31200PK2026 | 31200PK2953 | 31200PK2955 | 31200PM1005 | 31200PM3005 | 31200PT0900

## EQUIVALENTE / Equivalent

Honda: 31204PC016 | 31204PC2016 | 31204PD1003 | 31204PD1013 | 31204PH3006 | 31204PJ7903 - Lester: 16845 | 16901 | 16902 | 16914 | 16960 | 17160 | 17491

9402

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Bluebird Bus: Bluebird - Caterpillar: 2.5kW/12 Volt - ZEN: Utilizado no Impulsor ZEN 1831

## MOTOR

Nippondenso: 280006780 | 1280001060 | 1280001780 | 1280002250 | 1280002251 | 1280002560 | 1280003030 | 1280004080 | 1280004090 | 1280004970 | 1280005370 | 1280005600 | 1280005620 | 1280005621 | 1280007040 | 1280008290 | 1280009610 | 2280000020

## EQUIVALENTE / Equivalent

Lester: 16981 | 17348 | 17380 | 17385 | 17388 | 17391 | 17393 | 17399 | 17458 | 17609 | 17611 | 17613 | 17614 - Nippondenso: 0280993270 | 0283003690 | 0283005450

9403

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Kubota: Tratores

## MOTOR

Nippondenso: 280005000 | 280007730

## EQUIVALENTE / Equivalent

Lester: 16651 | 17359 - Nippondenso: 0280993210

9426

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Caterpillar: Máquinas - Clark: Empilhadeiras - Ford: Tratores - Ishikawjima: Especial/Special - Nissan: Forklift

## MOTOR

Mitsubishi: M2T52881 | MM115518

## EQUIVALENTE / Equivalent

Lester: 17110 | 17244 - Mitsubishi: MM502529 | M605X23471 | M605X25771 | M605X32471 - Nissan: 23357W1011

9459

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Bobcat: 1075 John Deere 4-276 Dsl 1975...1981 | 1080 John Deere 4-276 Dsl 1979...1982 | 1080B John Deere 4-276 Dsl 1983...1985 | 975 J. Deere 4-276 Dsl 1974...1990  
Clark: 1075 John Deere 4276 1975...1981 | 1080 J. Deere 4276 1982...1985 | 975 J. Deere 4276 1974...1990 - John Deere: 4039DFM 4cil, 239ci, 3.9L | 4045DFM50 4cil,  
276ci, 4.5L | 4045DFM70 4 cil, 276ci, 4.5L 2004...2007 | 4045TFM 4cil, 276ci, 4.5L | 4045TFM50 4cil, 276ci, 4.5L | 4045TFM75 4cil, 276ci, 4.5L 2004...2007 | 503 4239 John  
Deere | 9930 359 Diesel 1987...1993 | White Wing 4276 John Deere Diesel

## EQUIVALENTE / Equivalent

Lester: 17362 - Nippondenso: 0280996200

9488

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

ZEN: Utilizado no Impulsor ZEN 0737

## MOTOR

Hitachi: S1363 | S1370 | S1382 | S1383 | S13100 | S13115 | S13121 | S1362B | S1362C | S1370A | S1382A | S114253 | S114254 | S114255 | S114258 | S114265 |  
S114268 | S114290 | S114296 | S114344 | S114374 | S114429 | S114446 | S114453 | S114454 | S114457 | S114458 | S114474 | S114476 | S114253A | S114253B |  
S114254A | S114254C | S114254D | S114255A | S1142564 | S114258A | S114258C | S114264A | S114268A | S114290A | S114290B | S114296A | S114374B | S114401B |  
S114429A - Isuzu: 8942420670 - Nissan: 2330006W61 | 2330017C60 | 2330018C60 | 2330021P00 | 2330022P00 | 23300H9100 | 23300H9101 | 23300N5900 |  
23300N5902 | 23300N5903 | 23300R2000 | 23300U7500 | 23300U7501 | 23300U7502 | 23300V5300 | 23300V5301 | 23300W1000 | 23300W1002 | 23300W7000 |  
23300W7001 | 23300Y7000 | 23300Y7001

## EQUIVALENTE / Equivalent

Hitachi: 2108F3500 | 211455008 - Nissan: 23357N5900

9492

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Chrysler: Chrysler Concorde 3.3L - Dodge: Intrepid 3.3L - Eagle: Vision 3.3L - ZEN: Utilizado nos Impulsores ZEN 0817 e 1566

## MOTOR

Nippondenso: 228000036

## EQUIVALENTE / Equivalent

Lester: 17460 | 17465

9495

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Nissan: Lift Trucks AH A15 Engine | Lift Trucks APH A15 Engine | Lift Trucks APH H20 Engine | Lift Trucks Ash A15 Engine | Lifts Trucks Ash H20 Engine | Lifts Trucks  
Cef H20 Engine | Nissan 23300-20H00, 23300-20H12 | Nissan 23300-20H00, 23300-20H12 Nissan Ag | Nissan Lift Truck - TCM Equipment Ag: Lifts Trucks Fhg 20N Z24  
Engine

## MOTOR

Lester: 16947 - Mitsubishi: M2T58081 | M2T58381 | M2T58481

## EQUIVALENTE / Equivalent

Mitsubishi: M605X34971 - Nissan: 2335720H12

9502

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 234

## APLICAÇÃO / Application / Aplicación

Lexus: ES250 6 cil 2.5L 2508cc 1990...1991 - Toyota: Camry 4 cil 2.0L 1998cc 1989...1991 | Camry 4 cil 2.0L 1998cc 122cid 1987...1991 | Camry 6 cil 2.5L 2508cc  
1988...1991 | Celica 4 cil 2.0L 1998cc 1987...1989 | Celica 4 cil 2.0L 1998cc 122cid 1987...1993 | Celica 4 cil 2.2L 2164cc 1990...1993

## EQUIVALENTE / Equivalent

Lester: 16893 | 16978

9504

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

## APLICAÇÃO / Application / Aplicación

Acura: Nippondenso Starter - Honda: Nippondenso Starter - Isuzu: Nippondenso Starter

## MOTOR

Nippondenso: 128000283 | 128000708 | 128000746 | 128000970 | 228000081 | 228000205 | 228000226 | 228000399 | 228000504 | 228000642 | 228000720

|                                 |                                 |                      |
|---------------------------------|---------------------------------|----------------------|
| <b>9504</b>                     | <b>PINHÃO</b><br>PINION / PIÑON | FOTO / Photo pg. 235 |
| <b>EQUIVALENTE / Equivalent</b> |                                 |                      |
| Lester: 17273                   |                                 |                      |

|   |                                 |                      |
|---|---------------------------------|----------------------|
| <b>9506</b>   | <b>PINHÃO</b><br>PINION / PIÑON | FOTO / Photo pg. 235 |
| <b>APLICAÇÃO / Application / Aplicación</b>   |                                 |                      |
| Lexus: ES250 6 cil 2.5L 2508cc 1990...1991 - Toyota: Camry 4 cil 2.0L 1998cc 1989...1991   Camry 4 cil 2.0L 1998cc 122cid 1987...1991   Camry 6 cil 2.5L 2508cc 1988...1991   Celica 4 cil 2.0L 1998cc 1987...1989   Celica 4 cil 2.0L 1998cc 122cid 1987...1993   Celica 4 cil 2.2L 2164cc 1990...1993 - ZEN: Utilizado no Impulsor ZEN 1555 |                                 |                      |
| <b>EQUIVALENTE / Equivalent</b>   |                                 |                      |
| Lester: 16893   17263   17534 - Nippondenso: 0283716490   |                                 |                      |

|   |                                 |                      |
|---|---------------------------------|----------------------|
| <b>9525</b>   | <b>PINHÃO</b><br>PINION / PIÑON | FOTO / Photo pg. 235 |
| <b>APLICAÇÃO / Application / Aplicación</b>   |                                 |                      |
| Nissan: E16   NX 1600   NX 2000   Pulsar 1.6   Sentra 1.6 - ZEN: Utilizado no Impulsor ZEN 0793 |                                 |                      |

|  |                                 |                      |
|--|---------------------------------|----------------------|
| <b>9526</b>  | <b>PINHÃO</b><br>PINION / PIÑON | FOTO / Photo pg. 235 |
| <b>APLICAÇÃO / Application / Aplicación</b>  |                                 |                      |
| Volkswagen: LT TD - Volvo: 240 D, 740 TD, 940 TD - ZEN: Utilizado no Impulsor ZEN 0792 |                                 |                      |
| <b>MOTOR</b>   |                                 |                      |
| Thermo King: 451229   451263   451285  |                                 |                      |
| <b>EQUIVALENTE / Equivalent</b>  |                                 |                      |
| Thermo King: 446676   446681   |                                 |                      |

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|---|---------------------------------|----------------------|
| <b>9527</b>   | <b>PINHÃO</b><br>PINION / PIÑON | FOTO / Photo pg. 235 |
| <b>APLICAÇÃO / Application / Aplicación</b>   |                                 |                      |
| Nissan: CD17   CD20 - ZEN: Utilizado no Impulsor ZEN 0790   |                                 |                      |
| <b>MOTOR</b>  |                                 |                      |
| Hitachi: S1369   S1381   S13101   S13102   S13104   S1366A   S1392A   S114367   S114471   S114472   S114482   S13105A   S114357B   S114395A - Nissan: 2330000   233007260   2330010G02   2330054A01   2330083W00   23300V0703   23300V7200   23300W2804 |                                 |                      |
| <b>EQUIVALENTE / Equivalent</b>   |                                 |                      |
| Hitachi: 211495501 - Lester: 16733   16809   18053   18054   18061 - Nissan: 23357W1700   |                                 |                      |

|   |                                 |                      |
|---|---------------------------------|----------------------|
| <b>9528</b>   | <b>PINHÃO</b><br>PINION / PIÑON | FOTO / Photo pg. 235 |
| <b>APLICAÇÃO / Application / Aplicación</b>   |                                 |                      |
| ZEN: Utilizado no Impulsor ZEN 0791   |                                 |                      |
| <b>MOTOR</b>  |                                 |                      |
| Hitachi: S114393   S114-393   S114-478   S114252F   S114322A   S114-252F   S114-322A - Nissan: 23300M4904   23300-M4904 |                                 |                      |
| <b>EQUIVALENTE / Equivalent</b>   |                                 |                      |
| Hitachi: 211465008 - Nissan: 23357M4901   |                                 |                      |

|  |                                 |                      |
|--|---------------------------------|----------------------|
| <b>9542</b>  | <b>PINHÃO</b><br>PINION / PIÑON | FOTO / Photo pg. 235 |
| <b>APLICAÇÃO / Application / Aplicación</b>  |                                 |                      |
| Acura: Integra 4 Cil 1.7L 1678cc 1992...1993   Integra 4 Cil 1.8L 1834cc 1992...1993 |                                 |                      |
| <b>MOTOR</b>   |                                 |                      |
| Nippondenso: 228000022   |                                 |                      |

|   |                                 |                      |
|---|---------------------------------|----------------------|
| <b>9566</b>                                 | <b>PINHÃO</b><br>PINION / PIÑON | FOTO / Photo pg. 235 |
| <b>APLICAÇÃO / Application / Aplicación</b> |                                 |                      |
| ZEN: Utilizado no Impulsor ZEN 0844         |                                 |                      |
| <b>MOTOR</b>                                |                                 |                      |
| Hitachi: S1391                              |                                 |                      |

9566

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

EQUIVALENTE / Equivalent

Lester: 17138

9597

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

APLICAÇÃO / Application / Aplicación

Mitsubishi: Canter

MOTOR

Mitsubishi: 50171 | M8t50071

9632

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

APLICAÇÃO / Application / Aplicación

Dodge: Ram 2500 10 Cil 8.0L 7990cc 488cid 1994...1995 | Ram 3500 10 Cil 8.0L 7990cc 488cid 1994...1995

MOTOR

Nippondenso: 228000180 | 228000340

EQUIVALENTE / Equivalent

Lester: 17549 | 17574

9678

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

APLICAÇÃO / Application / Aplicación

Toyota: Carina E T19 2.0 D CT190 | Carina E Saloon T19 2.0 D CT190 | Corolla E10 2.0 D CE100 | Corolla E11 2.0 D CE110 | Corolla Compact E10 2.0 D CE100 | Corolla Compact E11 2.0 D CE110 | Corolla Liftback E10 2.0 D CE100 | Corolla Liftback E11 2.0 D CE110 | Corolla Wagon E10 2.0 D CE100 | Corolla Wagon E11 2.0 D CE110 | Echo P1 1.4 D-4D | Hiace I Box H10 2.2 D LH20-30 | Hiace II Box H20 2.4 D | Hiace III Box H50 2.4 D 4WD | Hiace III Wagon H50 2.4 D, 2.4 D 4WD | Hiace IV Box 2.4 D LXH12, LXH22, 2.4 TD 4WD LXH18, LXH28 | Hiace IV Wagon 2.4 D, 2.4 TD LXH12, LXH22, 2.4 TD 4WD H18/28 | Hilux 2.8 | Hilux II Pickup N 2.4 D, 2.4 D 4WD, 2.4 TD 4WD | Land Cruiser Bundera J7 2.4 D LJ70, 2.4 TD LJ70, LJ73, 2.4 TD LJ70 | Land Cruiser Hardtop J7 2.4 TD LJ77 | Yaris Verso NC/LP2 1.4 D-4D NLP22

MOTOR

Nippondenso: 280008451 | 280008980 | 1280000930 | 1280005350 | 1280009550 | 1280009560 | 1280009860 | 1280009870 | 1280009880 | 2280000200 | 2280000460 | 2280000880 | 2280001850 | 2280001900 | 2280002120 | 2280002680 | 2280002690 | 2280002700 | 2280003620 | 2280003630 | 2280003640 | 2280003641 | 2280003642 | 2280003680 - Toyota: 2810054380 | 2810064010 | 2810064040 | 2810064070 | 2810064100 | 2810064110 | 2810064130 | 2810064140 | 2810064190 | 2810064200 | 2810064210 | 2810064310

EQUIVALENTE / Equivalent

Nippondenso: 0280993910 | 0283715730 | 0283717060

9702

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

APLICAÇÃO / Application / Aplicación

Volvo: 240 Séries 2.4L - 2383cc (D24) 1985 | 740 Séries 2.4L - 2383cc (D24T) 1985...1986 | 760 Séries 2.4L - 2383cc (D24, D24T) 1985

MOTOR

AES: 17138 | S1935 - AES New: S1935N | S1936N - AIM: SJ0053R - Arc: S1660 - Arrowhead: SHI0015 | SHI0032 - Beck Arnley: 1870556 - Bosch Reman: SR97X Cargo: 111120 - Dixie: S6106 - Dubois: 916584 - Hitachi: S1391 | S1391A - Lucas Reman: S7133 | S7219 - Romaine: 4117138 - TRW: LRS661 - Volvo: 1328391 | 1328396 | 5003003 | 132839-6 | 50030030 | 5003003-0 - WAI: 21289HI - Wilson: 91251101 - Woodauto: STR72029 - Worldwide: 16942

EQUIVALENTE / Equivalent

Accurate: 4798798 - Ace: 4798 - AES New: 1946 - AIM: SJ0779A - Amsco: HT230 - Arrowhead: SHI5308 - CPC: SDHI2662A - Dubois: 297400 - J & N: 22244009 Just Parts: BO26021N | HT25034NPS1 - Lester: 62042662A - SWS: 11812010

9705

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

APLICAÇÃO / Application / Aplicación

Ford: E450 Econoline Super Duty V10 6.8L 415cid 2002 | Excursion V10 6.8L 415cid 2000...2005 | Excursion V8 5.4L 330cid 2000...2005 | Expedition V8 4.6L 281cid 1999...2004 | Expedition V8 5.4L 330cid 1999...2006 | Expedition V8 5.4L 330cid 2010...2014 | Expedition V8 5.4L 5409cc 330cid 2010 | F150 V8 4.6L 281cid 1999...2006 | F150 V8 5.4L 330cid 1999...2006 | F150 Heritage V8 4.6L 281cid 2004 | F150 Heritage V8 5.4L 330cid 2004 | F250 V8 4.6L 281cid 1999 | F250 V8 5.4L 330cid 1999 | F250 Super Duty V10 6.8L 415cid 1999...2006 | F250 Super Duty V10 6.8L 415cid 2010 | F250 Super Duty V8 5.4L 330cid 1999...2006 | F350 Super Duty V10 6.8L 415cid 1999...2006 | F350 Super Duty V10 6.8L 415cid 2010 | F350 Super Duty V8 5.4L 330cid 1999...2006 | F450 Super Duty V10 6.8L 415cid 1999...2006 | F450 Super Duty V10 6.8L 415cid 2009...2010 | F53 V10 6.8L 415cid 1999...2006 | F53 V10 6.8L 415cid 2009...2010 | F550 Super Duty V10 6.8L 415cid 1999...2006 | F550 Super Duty V10 6.8L 415cid 2009...2010 | Mustang V8 4.6L 281cid 2005 - Lincoln: Blackwood V8 5.4L 330cid 2002 | Mark LT V8 5.4L 330cid 2006 | Navigator V8 5.4L 330cid 1999...2006 | Navigator V8 5.4L 330cid 2011...2014

**9705**PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

EQUIVALENTE / Equivalent

Lester: 6646

**9781**PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

APLICAÇÃO / Application / Aplicación

Ford: Ford PMGR Noseless Starters

EQUIVALENTE / Equivalent

Ford: XL1U11000AA | XL1Z11002AA - Lester: 6647

**9791**PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

APLICAÇÃO / Application / Aplicación

Jungheinrich: DFG 30 - Mazda: 2200 Pick-Up - Mitsubishi: Canter 2000 - Nissan: 3300, 3500 - Yale: Fork Lifts

MOTOR

Mitsubishi: M2T54571 | M2T54572 | M3T67771

EQUIVALENTE / Equivalent

Mitsubishi: M605X26971

**10048**PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 235

APLICAÇÃO / Application / Aplicación

Caterpillar: V60E Perkins 4-236 1985...1991 | V80E Perkins 4-236 1985...1991 - ZEN: Utilizado no Impulsor 1846

EQUIVALENTE / Equivalent

Lester: 17622

**10049**PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Acura: Integra 1992...1993

MOTOR

Nippondenso: 1280007080 | 1280007460 | 2280000810 | 2280002050 | 2280002260 | 2280003990 | 2280005040 | 2280006421 | 2280007200

EQUIVALENTE / Equivalent

Nippondenso: 0283005430 | 0283008100 | 0283008550 | 0283008600

**12609**PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Lexus: ES300 V6 3.0L 2959cc 1995...1997 - Toyota: Avensis 2.0 | Camry 1.8 / 2.0 / 2.2 / 2.5 V6 / 3.0 V6 | Carina II 2.0i | Celica GT 2.0 | Celica GTI 16 V | Celica Turbo 2.0  
| Picnic 2.0 | R-2 GT-Turbo 2.0 | RAV-4 2.0

MOTOR

Nippondenso: 280002220 | 280006250 | 280007830 | 1280000070 | 1280000071 | 1280000140 | 1280001160 | 1280001161 | 1280001470 | 1280003471 | 1280003472 |  
1280003482 | 1280005590 | 1280005942 | 1280005952 | 1280006280 | 2280001000 | 2280001001 | 2280001040 | 2280001070 | 2280001071 | 2280003330 | 2280004740

EQUIVALENTE / Equivalent

Nippondenso: 0280995590 | 0280996550 | 0283711980 | 0283716190

**12656**PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Hyundai: Migthy - ZEN: Utilizado no Impulsor ZEN 1577

EQUIVALENTE / Equivalent

Cargo: 231269 - Hyundai: 3613741000

**12657**PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mitsubishi: Fuso



12657

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

EQUIVALENTE / Equivalent

Mitsubishi: M605X64571

12658

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mazda: Especial/Special - Mitsubishi: Canter - Nissan: Especial/Special - Yale: Especial/Special - ZEN: Utilizado no Impulsor 0957

MOTOR

Mazda: S21118400 | V10118400B - Mitsubishi: M2T54372 | M2T54571 | M2T54572 | M2T56071 | M2T57871 | M2T57881 | M2T60072 | M2T61771 | M2T64372 | M2T64373 | M2T66371 | M2T66872 | M2T66873 | M2T67871 | M2T67872 | M2T67873 | M2T67881 | M2T67882 | M2T67883 | M2T78271 | M3T56471 | M3T57371 | M3T57575 | M3T66071 | M3T66072 | M3T66073 | M3T66074 | ME007517 | ME008815 | ME017034 | ME017035 | ME017056 | ME017061 | MG120413

EQUIVALENTE / Equivalent

Mazda: 859924740 - Mitsubishi: ME700121 | 23314T9000 | M357T71671 | M357T76171 | M605X31971

12659

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mazda: Especial/Special - Mitsubishi: Canter - Nissan: Especial/Special - Yale: Especial/Special - ZEN: Utilizado no Impulsor 0957

MOTOR

Mazda: S21118400 | V10118400B - Mitsubishi: M2T54372 | M2T54571 | M2T54572 | M2T56071 | M2T57871 | M2T57881 | M2T60072 | M2T61771 | M2T64372 | M2T64373 | M2T66371 | M2T66872 | M2T66873 | M2T67871 | M2T67872 | M2T67873 | M2T67881 | M2T67882 | M2T67883 | M2T78271 | M3T56471 | M3T57371 | M3T57575 | M3T66071 | M3T66072 | M3T66073 | M3T66074 | ME007517 | ME008815 | ME017034 | ME017035 | ME017056 | ME017061 | MG120413

EQUIVALENTE / Equivalent

Mazda: 859924740 - Mitsubishi: ME700121 | 23314T9000 | M357T71671 | M357T76171 | M605X31971

12660

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mitsubishi: Canter

MOTOR

Mitsubishi: M2T56071 | M2T62271 | M2T65771 | M2T66271 | M2T66272 | M2T74371

EQUIVALENTE / Equivalent

Mitsubishi: M605X27971 | M605X36171 - Onan: 1911443

12812

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mitsubishi: E2500 Diesel XA | E3000 | Fuso Canter 20 | Fuso Canter 30 | Fuso Canter 31 | Fuso Canter 32 1988 | Fuso Canter 33 | Fuso Canter 35 | Fuso Canter 3600 | Fuso Canter 4D30 | Fuso Canter 4D31T 1987 | Fuso Canter 4DRS 1984...1988 | L200 | Light Bus HA | Wheel Loader S4E - Nissan: Fork Lifts - ZEN: ZEN 1046 e 1047

MOTOR

Mitsubishi: 232415 | M2T55271 | M2T56181 | M2T56182 | M2T56185 | M2T56271 | M2T56471 | M2T57771 | M2T62971 | M2T65271 | M2T74171 | MD069166 | MD070934 | MD084414 | MD164975 | MD164976

EQUIVALENTE / Equivalent

Mitsubishi: MD607789 | M605X65171

12839

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Bosch: Monta nos impulsores Bosch 6033AD5055 e 6033AD5078 - Scania: Série 4 - ZEN: Utilizado no Impulsor ZEN 1658

MOTOR

Bosch: 0001241001 | 0001241003 | 0001241004 | 0001241005 | 0001241006 | 0001241007 | 0001241014 | 0001241015 | 0001241019 | 0001241020 | 2339402220 - Daf: 1658730

EQUIVALENTE / Equivalent

Bosch: 6033AC5149 | 6033AC5246 - Daf: 1699235 - Man: 51262090008

12913

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Honda: Fit (Jazz)

12954

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mercedes Benz: 710 OM 364 e OM 366 em 12V. 29MT - ZEN: Utilizado no Impulsor ZEN 1679 | Utilizado no Impulsor ZEN 1805

MOTOR

Remy: 8200004 | 8200138 | 8200296 | 8200297 | 8200512

EQUIVALENTE / Equivalent

Remy: 10515809

12955

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mercedes Benz: 710 OM 364 e OM 366 em 12V. 29MT - ZEN: Utilizado no Impulsor ZEN 1679 | Utilizado no Impulsor ZEN 1805

MOTOR

Remy: 8200064 | 8200292 | 8200331 | 8200478

EQUIVALENTE / Equivalent

Remy: 10515806

12956

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mercedes Benz: 710 OM 364 e OM 366 em 12V. 29MT - Volkswagen: Especial/Special - Volvo: Especial/Special - ZEN: Utilizado no Impulsor ZEN 1679 | Utilizado no Impulsor ZEN 1805

MOTOR

Remy: 8200231 | 8200326 | 8200357

EQUIVALENTE / Equivalent

Remy: 10524148

12957

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mercedes Benz: 1418R OM 364 e OM 366 em 12V. 29MT | 1720 OM 364 e OM 366 em 12V. 29MT | 1720K OM 364 e OM 366 em 12V. 29MT | 710 OM 364 e OM 366 em 12V. 29MT | L 1620 OM 364 e OM 366 em 12V. 29MT | LO 814 OM 364 e OM 366 em 12V. 29MT - ZEN: Utilizado no Impulsor ZEN 1679 | Utilizado no Impulsor ZEN 1805

MOTOR

Remy: 8200054 | 8200196 | 8200386 | 8200400 | 8200474 | 8200495

EQUIVALENTE / Equivalent

Remy: 10515808

12961

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mercedes Benz: 1418R OM 364 e OM 366 em 12V. 29MT | 1720 OM 364 e OM 366 em 12V. 29MT | 1720K OM 364 e OM 366 em 12V. 29MT | 710 OM 364 e OM 366 em 12V. 29MT | L 1620 OM 364 e OM 366 em 12V. 29MT | LO 814 OM 364 e OM 366 em 12V. 29MT - ZEN: Utilizado no Impulsor ZEN 1679 | Utilizado no Impulsor ZEN 1805

MOTOR

Remy: 8200003 | 8200295 | 8200511

EQUIVALENTE / Equivalent

Remy: 10515807

12967

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

APLICAÇÃO / Application / Aplicación

Mercedes Benz: Actros - ZEN: Utilizado no Impulsor 1808

12967

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 236

## MOTOR

Mitsubishi: M9T80472

12972

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Volkswagen: 26260 2008... - Volvo: FM/FH - ZEN: Utilizado no Impulsor ZEN 1661

## MOTOR

Mitsubishi: M009T62571 | M009T625727

13017

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

ZEN: Especial/Special

13018

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

ZEN: Especial/Special

13021

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Kia: Besta 2.7 arranque Mando - ZEN: Utilizado no Impulsor ZEN 1667

## MOTOR

Mando: MG122423 | MG122565

13104

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Remy: 44MT

## MOTOR

Remy: 8200750

## EQUIVALENTE / Equivalent

Remy: 10532997

13105

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Remy: 44MT

## MOTOR

Remy: 8200770

## EQUIVALENTE / Equivalent

Remy: 10532998

13106

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Remy: 44MT

## MOTOR

Remy: 8200771

## EQUIVALENTE / Equivalent

Remy: 10532999

13117

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Case: Colheitadeira de Cana A7000 e A7700 - com motor Cummins - Cummins: Geradores Cummins C350 D6, C400 D6 com motor Cummins NTA855 - Freightliner: Cascadia com motor Cummins ISX | Cascadia com motor Detroit S60 | Century com motor CAT C15, Detroit S60 | Coronado com motor Cummins ISX | Severe Duty com motor Cummins ISX - International: Caminhões Paystar com motor Cummins | Caminhões Prostar com motor Cummins | Caminhões Transtar com motor Cummins - Mack: Caminhões Granite com motor Mack E7 | Caminhões Mack com motor E-7 | Caminhões Pinnacle com motor Mack E7 | Caminhões TerraPro com motor Mack E7 - Remy: 39MT

## MOTOR

Remy: 8200050 | 8200090 | 8200201 | 8200288 | 8200289 | 8200290 | 8200308 | 8200330 | 8200431 | 8200605 | 8200699 | 8200719 | 19011518 | 19011519 | 19011521 | 19011522 | 19011523 | 19011527 | 19011529

## EQUIVALENTE / Equivalent

Remy: 10526458

13118

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Case: Motoniveladora 865, 865.2, 885 e 885.2 - Fiat Allis: Motoniveladora - FG 170, FG 170.2, FG 200 e FG 200.2 | Trator de Esteira FD170 - Freightliner: M2 106 com motor Cummins ISC - Mack: Caminhões Granite com motor Mack MP8 | Caminhões Mack com motor Mack MP8 | Caminhões Pinnacle com motor Mack MP8 | Caminhões TerraPro com motor Mack MP8 - Navistar: Caminhões Durastar com motor MaxxFORCE | Caminhões Paystar com motor MaxxFORCE | Caminhões Prostar com motor MaxxFORCE | Caminhões Transtar com motor MaxxFORCE - New Holland: Motoniveladora 170 e 200 - Remy: 39MT - Volvo: Caminhões VHD com motor 13L | Caminhões VHD com motor D12 | Caminhões VN com motor 13L | Caminhões VN com motor D12

## MOTOR

Remy: 8200081 | 8200085 | 8200087 | 8200101 | 8200291 | 8200417 | 8200433 | 8200435 | 8200446 | 8200469 | 8200572 | 8200606 | 19011524

## EQUIVALENTE / Equivalent

Remy: 10526464

13119

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Freightliner: Cascadia com motor DD13, DD15, DD16 | Cascadia com motor MBE4000 | Century com motor MBE4000 | Coronado com motor DD15, DD16, DD13  
Mercedes Benz: Caminhões - Rodoviária 2035 (4x2), 2040 (4x2), 2044 (4x2), 2540 (6x2), 2544 (6x2) | Caminhões Família Atron 1635 Com motor eletrônico 24V OM 457 LA - Euro V 01/2012... | Fora de estrada 3340 (6x4), 3344 (6x4), 4140 (6x4) e 4144 (6x4) | Fora de Estrada Família Axor: 3341 K,S,P, 3344K,S,P, 4141K e 4144 K Com motor eletrônico 24V OM 457 LA - Euro V 01/2012... | Ônibus / Buses 0500RS (4x2) e 0500RSD (6x2), OM457LA Eletrônico / Electrónico 6 cil | Ônibus Rodoviário: O500 RS 1836 e O500 RSD 2436 6x2 Com motor eletrônico OM457 LA - Euro V 01/2012... | Ônibus Urbano: O500 MA 2836 e O500 UA 2836 Com motor eletrônico OM457 LA - Euro V | Rodoviário/Família Axor: 2036 Estradeiro, 2036 Multiuso, 2041 Estradeiro, 2041 Mu Com motor eletrônico 24V OM 457 LA - Euro V 01/2012... - Remy: 39MT

## MOTOR

Remy: 8200287 | 8200329 | 8200434 | 8200519 | 19011514 | 82000436

## EQUIVALENTE / Equivalent

Remy: 10526466

13130

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Case: Tratores Magnum MX220, MX240 e MX270 com motor Cummins 8,3L - Cummins: Motores C e ISC de 8,3 litros - Ford: Cargo 1622 1630, 2422, 2425, 2622, 2626, 2630, 2631, 3222, 4030 com motor Cummins 6CTAA 8,3 litros | Cargo Eletrônico 2632, 2932, 4532 e 5032 - Remy: 38 MT | Geração II - Volkswagen: Caminhões 17220, 17310, 23210, 23220, 23310, 24220, 26220, 26260, 26310 com motor Cummins 6CTAA 8.3 litros | Caminhões 31370, 25370, 19370 com motor 9,3 litros internacional e 18310, 19320, 31320 | Constellation com motor Cummins ISC 8,3 litros | Ônibus 19320EOT - Quéops evolution com motor Cummins ISC 8,3 litros | Titan Tractor com motor Cummins ISC 8,3 litros - Volvo: FH e NH 12 - ZEN: Utilizado no Impulsor ZEN 1809 | Utilizado no Impulsor ZEN 1811

## MOTOR

Remy: 8200005 | 8200025 | 8200053 | 8200072 | 8200081 | 8200085 | 8200087 | 8200101 | 8200182 | 8200291 | 8200356 | 8200417 | 8200469 | 8200486 | 8200572 | 19011511 | 19011512 | 19011513 | 19011524

## EQUIVALENTE / Equivalent

Remy: 10512090

13131

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Case: Colheitadeira de Cana A7000 e A7700 com motor Cummins - Remy: 39 MT | Geração II - Terex: Empilhadeira GEP 23 - ZEN: Utilizado no Impulsor ZEN 1811

13131

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## MOTOR

Remy: 8200032 | 8200034 | 8200039 | 8200040 | 8200041 | 8200050 | 8200090 | 8200201 | 8200288 | 8200289 | 8200290 | 19011507 | 19011509 | 19011518 | 19011519 | 19011521 | 19011522 | 19011523 | 19011527 | 19011529

## EQUIVALENTE / Equivalent

Remy: 10511405

13132

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Freightliner: Cascadia com motor MBE4000 | Century com motor MBE4000 | Motor MBE 4000 - Remy: 39 MT | Geração II - ZEN: Utilizado no Impulsor ZEN 1811

## MOTOR

Remy: 8200287 | 19011514

## EQUIVALENTE / Equivalent

Remy: 10511407

13138

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Case IH: C9 8200242 38MT - 24V | Colheitadeira de cana A8000 e A8800 com Motor Case IH C9 - ZEN: Utilizado no Impulsor ZEN 1809

## MOTOR

Remy: 8200075 | 8200077 | 8200078 | 8200242 | 19026027

## EQUIVALENTE / Equivalent

Remy: 10512091

13224

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

ZEN: Utilizado no Impulsor ZEN 1608

13268

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 237

## APLICAÇÃO / Application / Aplicación

Ford: Taurus V6 3.0 - Lincoln: Continental V8 4.6 - Mercury: Sable V6 3.0

## MOTOR

Ford: 1057661 | 1076141 | 1197912 | 1209193 | 1F1U11000AA | 1F1Z11002AA | 3S7T11000AD

## EQUIVALENTE / Equivalent

Ford: F5RZ11A198A

13272

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 238

## APLICAÇÃO / Application / Aplicación

ZEN: Utilizado no Impulsor ZEN 0135 e ZEN 0742

13273

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 238

## APLICAÇÃO / Application / Aplicación

ZEN: Utilizado no Impulsor ZEN 1189

13274

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 238

## APLICAÇÃO / Application / Aplicación

ZEN: Utilizado no Impulsor ZEN 0958

13275

PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 238

## APLICAÇÃO / Application / Aplicación

ZEN: Utilizado no Impulsor ZEN 10003 e ZEN 1745

**13332**PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 238

APLICAÇÃO / Application / Aplicación

ZEN: Utilizado no Impulsor ZEN 1714

**13333**PINHÃO  
PINION / PIÑON

FOTO / Photo pg. 238

APLICAÇÃO / Application / Aplicación

ZEN: Utilizado no Impulsor ZEN 0965

0121

EMBRAGEM DE FRICÇÃO  
CLUTCH / EMBRAGUES DE FRICCION

FOTO / Photo pg. 239

## APLICAÇÃO / Application / Aplicación

Caterpillar: Motoniveladora 12E ...01/1973 - Fiat: Caminhão FNM D11000 | Caminhão FNM D9500 - General Motors/Chevrolet: Caminhão com motor Perkins  
Massey Ferguson: Trator MF3366 - Perkins: Estacionários | Industriais | Tratores - Scania: Ônibus B115 ...04/1975 | Ônibus BR110 ...04/1975 | Ônibus BR115S  
...04/1975

## EQUIVALENTE / Equivalent

Bosch: 9001085105 - Cav29 Onan: 5586123C

0122

EMBRAGEM DE FRICÇÃO  
CLUTCH / EMBRAGUES DE FRICCION

FOTO / Photo pg. 239

## APLICAÇÃO / Application / Aplicación

Asia Motors: Compressor AX430 - Case: Pá Carregadeira W36, W36B turbo com motor Cummins e Scania | Trator Agrícola 2470 e 4490 - Caterpillar: Grupo Gerador 3304T | Grupo Gerador 3306T | Moto Scraper 631E | Motoniveladora 120B | Motoniveladora 140B 3306 | Pá Carregadeira 960 | Pá Carregadeira 966 | Trator de Esteiras 631E | Trator de Esteiras D4D | Trator de Esteiras D4E | Trator de Esteiras D5B | Trator de Esteiras D6C | Trator de Esteiras D6D | Trator de Esteiras D6E | Trator de Esteiras D8L - Cummins: Chassi p/ ônibus RC210 | Chassi p/ ônibus UC210 | Motor 6C | Motor 250 Super | Motor 6CT | Motor 6CTA | Motor N855 | Motores N | Motores NT | Motores NTA | Motores NTA855 - Fiat: Caminhão 180 | Caminhão 190 | Caminhão 190T | Caminhão 210 - Fiat Allis: Trator de Esteiras AD14 com motor Scania - Fiat Iveco: Caminhão - Komatsu: Trator de Esteiras D60A com motor Cummins N855 | Trator de Esteiras D60E com motor Cummins N855 | Trator de Esteiras D60F com motor Cummins N855 | Trator de Esteiras D65A com motor Cummins N855 | Trator de Esteiras D65E com motor Cummins N855 - Mafersa: Trator M série M 210 com motor Cummins 6CTA 8.3 09/1991... | Trator M série M 240 com motor Cummins 6CTA 8.3 09/1991... - Massey Ferguson: Trator MF4780 com motor Scania DN11 - Mercedes Benz: Caminhão 1519 | Caminhão 1520 | Caminhão 1524 | Caminhão 1525 OM355-5A | Caminhão 1924 OM355-6 | Caminhão 1924A OM355-6A | Caminhão 1929 OM355-6A | Caminhão 1932 OM355-6LA | Caminhão 1933 | Caminhão 1934 OM355-6LA | Caminhão 2019 | Caminhão 2020 OM355-5 | Caminhão 2219 | Caminhão 2220 OM355-5 | Caminhão 2624 | Caminhão/Ônibus 1419 | Caminhão/Ônibus 1420 | Caminhão/Ônibus 1517 | Caminhão/Ônibus 1518 | Caminhão/Ônibus 1519 | Caminhão/Ônibus 1524 | Caminhão/Ônibus 1525 | Caminhão/Ônibus 1924 | Caminhão/Ônibus 1924A | Caminhão/Ônibus 1929 | Caminhão/Ônibus 1932 | Caminhão/Ônibus 1933 | Caminhão/Ônibus 1934 | Caminhão/Ônibus 2019 | Caminhão/Ônibus 2219 | Caminhão/Ônibus 2220 | Caminhão/Ônibus 2624A | Chassi p/ Ônibus 1420 | Chassi p/ Ônibus 1517 | Chassi p/ Ônibus 1518 | Chassi p/ Ônibus 0364 | Chassi p/ Ônibus 0370 | Chassi p/ Ônibus 0371 | Chassi p/ Ônibus 0371UP | Chassi p/ Ônibus OH1419 | Motor Estacionário, gerador, industrial e marítimo 0370 OM355-5, 6, 6A, 6LA | Motor Estacionário, gerador, industrial e marítimo 0371 OM355-5A, 6A, 6LA | Motor Estacionário, gerador, industrial e marítimo 0371UP OM355-5 | Motor Estacionário, gerador, industrial e marítimo OM314 | Motor Estacionário, gerador, industrial e marítimo OM352 | Motor Estacionário, gerador, industrial e marítimo OM352A | Ônibus O355 | Ônibus O364 | Ônibus O365 | Ônibus O370 | Ônibus O371 | Ônibus O371UP - MWM: Motores D e TD 232 6V, 8V, 12V - Scania: Caminhão 145 | Caminhão BR145 | Caminhão CR145L | Caminhão CR145T | Caminhão CR145X | Caminhão DS114 | Caminhão L D11 | Caminhão L DS11 | Caminhão LK 140 DS14 | Caminhão LK 141 DS14 | Caminhão LK 142 DS14 | Caminhão LKS 140 DS14 | Caminhão LKS 141 DS14 | Caminhão LKS 142 DS14 | Caminhão LS D11 | Caminhão LS DS11 | Caminhão LT 110 D11 | Caminhão LT 110S DS11 | Caminhão R 112-310 HW, EW DS11 | Caminhão R 112 DN11, DS11, DSC11 | Caminhão R 112-360 HW, EW DSC11 | Caminhão R 142 DS14, DSC14 | Caminhão R 142-210 HW, EW DSC14 | Caminhão T 112-310 HW, EW DS11 | Caminhão T 112 DN11, DS11, DSC11 | Caminhão T 112-360 HW, EW DSC11 | Caminhão T 142 DS14, DSC14 | Caminhão T 142-210 HW, EW DSC14 | Chassi p/ ônibus K112 | Chassi p/ ônibus S112 | Motor DN11 industrial, gerador e marítimo | Motor DS11 industrial, gerador e marítimo | Motor p/ gerador e industrial DN11 | Ônibus BR115 05/1975... | Ônibus BR115S 05/1975... | Ônibus BR116 05/1975... | Ônibus BR116S 05/1975... | Plataforma p/ ônibus S112 DN11, DS11 - Volkswagen: Caminhão VW14.170 | Caminhão VW14.210 | Caminhão VW16.170 | Caminhão VW16.210 - Volvo: Caminhão N10 | Caminhão N12 | Caminhão NL10 210 | Caminhão NL10 340 | Caminhão NL12 400 | Chassi p/ ônibus B10M | Chassi p/ ônibus B58E

## MOTOR

Bosch: 0001410021 | 0001410041 | 0001410063 | 0001410089 | 9000084007 | 9000084008 | 9000084009 | 9000084010 | 9000084011 | 9000084012 | 9000084013 | 9000084014 | 9000084015 | 9000084017 | 9000084018 | 9000084019 | 9000084020 | 9000084021

## EQUIVALENTE / Equivalent

Bosch: 2007010037

0201

EMBRAGEM DE FRICÇÃO  
CLUTCH / EMBRAGUES DE FRICCION

FOTO / Photo pg. 239

## APLICAÇÃO / Application / Aplicación

Caterpillar: Motoniveladora 12E ...01/1973 - Fiat: Caminhão FNM D11000 | Caminhão FNM D9500 - General Motors/Chevrolet: Caminhão com motor Perkins

## EQUIVALENTE / Equivalent

Bosch: 2006401900 | 2009999036 | 9001085105

0204

EMBRAGEM DE FRICÇÃO  
CLUTCH / EMBRAGUES DE FRICCION

FOTO / Photo pg. 239

## APLICAÇÃO / Application / Aplicación

Mercedes Benz: Caminhão OM321 | Caminhão OM324 | Caminhão OM326

## EQUIVALENTE / Equivalent

Bosch: 2006401904 | 2009999032 | 9001085105 - Cav29 Onan: 5586123

12675

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Agco: Trator 6 cil. - Ford: Power Stroke - Peugeot: 404 Motores Indenor 6305, 6354 | Especial/Special Com Motor Indenor - ZEN: Kit Reparo 12695 | Utilizado no Impulsor ZEN 1602

## MOTOR

Prestolite: 35259310 | 35259710 | 35259720 | 35261020 | 35261175

## EQUIVALENTE / Equivalent

MYR: 0141 - Prestolite: K01221 | K01284 | 35259952 - Unifap: 12221

12681

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Volkswagen: Gol G2 1.8 Mi, 2.0Mi, 2.0i | Parati 1.6, 1.8 | Parati G2 1.8Mi, 1.8i, 2.0Mi, 2.0i | Parati G3 1.8Mi, 2.0Mi | Quantum 1.8Mi, 1.8i, 2.0Mi, 2.0i | Santana 1.8Mi, 1.8i, 2.0Mi, 2.0i | Saveiro 1.8 | Saveiro G2 1.6Mi, 1.8 Mi, 2.0Mi | Saveiro G3 1.6Mi, 1.8 Mi, 2.0Mi | Voyage 1.8 - ZEN: Kit Reparo 12694 | Reparo 12693 | Utilizado com Impulsor ZEN 0866

## MOTOR

Bosch: 9000081006 | 9000081007

## EQUIVALENTE / Equivalent

Bosch: F000AL1019 - ETE: 8101 - MYR: 1019 - Unifap: 11019

12682

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Agrole: Ônibus Volare - Cummins: B6 | BT5. 9L | Motores Séries 6BT (Dianteiro) - Ford: Cargo 1416, 1722, 1716 | F100 | F1000 | F14000 Com Motor MWM | Ranger General Motors/Chevrolet: Blazer DLX | Pick Up D20 | Pick Up S10 com Motor Maxion HS | Silverado com Motor MWM - John Deere: Tratores - Massey Ferguson: Trator Com Motor 4 cil. - Maxion: Motores - Mercedes Benz: 180D | Caminhões | Kombi Espanhola | MB 180D | Ônibus | Sprinter com motor Maxion HS - Perkins: Motores 4203 / 3152 / 4236 / 6354 - Peugeot: 504 | 505 | Vários modelos com Motor Indenor - Volkswagen: Caminhão 15-160 - ZEN: Kit Reparo 12695 | Utilizado com Impulsor ZEN 1635

## MOTOR

Prestolite: 35258490 | 35258540 | 35258580 | 35258660 | 35258690 | 35258710 | 35258820 | 35258880 | 35258940 | 35258950 | 35258960 | 35259040 | 35259170

## EQUIVALENTE / Equivalent

MYR: 0147 - Prestolite: K21147 | 35258669 - Unifap: 12147

12683

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Alfa Romeo: 145, 145 1.6ie - Fiat: Palio 1.5 | Palio Weekend 1.5 - General Motors/Chevrolet: Astra 1.8i, 2.0i, 2.0 MPFI, 2.0i 16V | Astra Sedan 1.8i, 2.0i, 2.0 MPFI, 2.0i 16V | Blazer 2.2 EFI | Ipanema 2.0 MPFI | Kadett 2.0 MPFI | Omega 2.0i, 2.2i, 3.0i | Omega Suprema 2.0i, 2.2i, 3.0i | S10, EFI, MPFI | Zafira 2.0 MPFI - ZEN: Kit Reparo 12694 | Reparo 12693

## MOTOR

Bosch: 0001107009 | 0001107012 | 0001107013 | 0001107015 | 0001107034 | 0001107060 | 9000081004

## EQUIVALENTE / Equivalent

Bosch: 1006200042 | 1006200110 | F000AL0110 - ETE: 8104 - MYR: 0110 - Unifap: 11010

12684

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Agrole: Motor MWM - Cummins: Motores - Ford: Especial/Special Com Motores Cummins e Cummins 4BT | F100 - Gradall: Motor MWM - International: Motor MWM Maxion: Motor S4 - MWM: Especial/Special 4 e 6 cil. - ZEN: Kit Reparo 12695

## MOTOR

Prestolite: 35259430 | 35259620 | 35259630 | 35259650 | 35259660 | 35259670 | 35259690 | 35259750 | 35259760 | 35259880 | 35259900 | 35260950 | 35261070 | 35261120 | 35261155 | 35261190 | 35261355 | 35261360 | 35261420 | 35261425

## EQUIVALENTE / Equivalent

MYR: 0144 - Prestolite: KJD20 | KJD21 | K01222 | K01261 | K01349 | K01469 | K21148 | 35259465 - Unifap: 12222



12685

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Ford: Escort 1.6i, 1.8i, 2.0i | Verona 1.8i, 2.0i - Seat: Inca 1.6 EFI - Volkswagen: Logus 1.6, 1.6i, 1.8, 1.8i, 2.0, 2.0i, 2.0Mi | Pointer 1.6, 1.6i, 1.8, 1.8i, 2.0, 2.0i, 2.0Mi | Van 1.6 Mi - ZEN: Kit Reparo 12694 | Reparo 12693

## MOTOR

Bosch: 9000081001 | 9000081002

## EQUIVALENTE / Equivalent

Bosch: F000AL1015 - ETE: 8108 - MYR: 1015 - Unifap: 11015

12686

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Cummins: Motores Cummins Série B - Dimex: Ônibus - Ford: Caminhões | Pick Up F100 - Mercedes Benz: Ônibus - ZEN: Kit Reparo 12695

## MOTOR

Prestolite: 35258880 | 35258940 | 35258950 | 35258990 | 35259000 | 35259130 | 35259210 | 35259620 | 35259630 | 35259650 | 35259660 | 35259670 | 35259690

## EQUIVALENTE / Equivalent

MYR: 0149 - Prestolite: KJD08 | KJD09 | 35258853 - Unifap: 12149

12687

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Volkswagen: G. IZQ. VW Sudafrica - ZEN: Kit Reparo 12695

## MOTOR

Prestolite: 35259480

## EQUIVALENTE / Equivalent

MYR: 0146 - Prestolite: K01219 | 35259859 - Unifap: 12219

12688

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Cummins: Motores B / 4BT / 6BT / 6BTAA - Ford: Caminhões com Motores Cummins - Volkswagen: Caminhões com Motores Cummins - ZEN: Kit Reparo 12695

## MOTOR

Prestolite: 35259640 | 35259870

## EQUIVALENTE / Equivalent

Prestolite: K01343 | 35259915 - Unifap: 12343

12689

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Fiat: Palio 1.6 16v | Palio Weekend 1.6 16V | Tempra 2.0 MPI, 2.0 SPI, 2.0 8V, 2.0 16V, 2.0Turbo | Tempra Turbo 2.0 MPI 8V - ZEN: Kit Reparo 12694 | Reparo 12693

## MOTOR

Bosch: 9000081005 | 9000081008 | F000AL0100

## EQUIVALENTE / Equivalent

Bosch: F000AL1017 | F000AL1037 - ETE: 8103 - MYR: 1037 - Unifap: 11037

12690

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Audi: A3 1.8, 1.8T - Fiat: Tempra 2.0 ie SW | Tipo 1.6 ie, 1.8 ie, 2.0 ie, 2.0 16v - Seat: Alhmbra 1.8 turbo, 2.0 | Córdoba 1.8, 1.8 16v, 2.0 | Ibiza 1.8 - Volkswagen: City Golf 1.6 | Golf 1.8, 1.8 G2, 1.8 G3 | Passat 2.0 (Importado) - ZEN: Kit Reparo 12694 | Reparo 12693

## MOTOR

Bosch: 0001107007 | 0001107020 | F000AL0128

## EQUIVALENTE / Equivalent

Bosch: 1006200128 | F000AL1409 - ETE: 8106 - MYR: 0128 - Unifap: 11128

12692

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Shelhorst: Shelhorst - ZEN: Kit Reparo 12695

## MOTOR

Prestolite: 35259380 | 35259680

## EQUIVALENTE / Equivalent

Prestolite: K01212 | 35259959 - Unifap: 12212

12717

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Ford: Escort | Fiesta | Ka - ZEN: Kit Reparo 12718 | Reparo 12719

## MOTOR

Ford: 96BB11000AA7119

## EQUIVALENTE / Equivalent

Unifap: UF13119

12720

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Buick: Century 3.1 L (189) V6 2001 - Cadillac: Escalade 5.3L (325) V8 2004...2005 - Fiat: Doblo 1.8 8V/1.8 16V/FLEX | Idea 1.8 8V/1.8 16V/FLEX | Palio 1.8 8V/1.8 16V/FLEX | Punto 1.8 8V/1.8 16V/FLEX | Stilo 1.8 8V/1.8 16V/FLEX | Strada 1.8 8V/1.8 16V/FLEX - General Motors/Chevrolet: Astra | Astra 1.8 e 2.0 | Avalanche 5.3L(325) V8 2004...2005 | Blazer | Blazer 2.2 e 2.4 | Celta | Corsa 1.8 | Envoy 5.3L/5.3L XL (325) V8 2004...2005 | Express Vans 4.8L(291) V8 2004...2005 | Express Vans 5.3L(325) V8 2004...2005 | Impala 3.4L(207) V6 2001 | Lumina(Sedan) 3.1L(189) V6 2001 | Malibu 3.1L(189) V6 2001 | Meriva 1.8 | Montana | Monte Carlo 3.4L(207) V6 2001 | Motor 1.8 8V SOCH e 1.8 16V DOCH (Flex) | Prisma | S10 | S10 2.2 e 2.4 | Savana Vans 4.8L (291) V8 2004...2005 | Savana Vans 5.3L/5.3L XL (325) V8 2004...2005 | Sierra Pick Up 4.8L (291) V8 2004...2005 | Sierra Pick Up 5.3L/5.3L XL (325) V8 2004...2005 | Silverado Pick Up 4.8L(291) V8 2004...2005 | Silverado Pick Up 5.3L(325) V8 2004...2005 | SSR Sport Truck 5.3L (325) V8 2004...2005 | Suburban 5.3L(325) V8 2004...2005 | Tahoe 4.8L(291) V8 2004...2005 | Trailblazer 5.3L(325) V8 2004...2005 | Vectra 2.2 | Vectra II (SOHC) 1.8/2.0/2.2 - 8V ...03/2001 | Venture 3.4L(207) V6 2001 | Yukon 4.8L (291) V8 2004...2005 | Yukon 5.3L/5.3L XL (325) V8 2004...2005 | Zafira 2.0

Isuzu: Ascender 5.3L (325) V8 2004 - Oldsmobile: Alero 3.4L (207) V6 2001 | Silhouette 3.4L (207) V6 2001 - Pontiac: Aztec 3.4L (207) V6 2001 | Grand AM 3.4L (207) V6 2001 | Grand Prix 3.1L (189) V6 2001 | Montana 3.4L (207) V6 2001 - Saab: 42925 5.3L (325) V8 2005 - Saturn: Especial/Special 2004 - ZEN: Kit Reparo 12721 | Reparo 12722

## MOTOR

General Motors/Chevrolet: 93297652 | 93297653 | 93303527 | 93304772 | 93327502 | 93374341 | 93374342 | 93384398 - Remy: 900890 | 8000006 | 8000090 | 8000158 | 8000159 | 8000188 | 8000890 | 8000891 | 8000893 | 8000944 | 8000978 | 8000981 | 9000794 | 9000846 | 9000948

## EQUIVALENTE / Equivalent

Remy: 10504495 - Unifap: 14150

12841

PLANETÁRIA

PLANETARY GEAR / ENGRANAJE PLANETARIO (REDUCTORES)

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

Volkswagen: G2 2.0 Mi 1996... | G31.8 2.0 Mi 1996... | Gol 2.0 Mi 1996... | Parati 2.0 Mi 1996... | Quantum 1.8, 2.0 Mi 1998... | Santana 1.8, 2.0 Mi 1998... | Saveiro G3 1.6/1.8/2.0 Mi 2000... - ZEN: Kit Reparo 12694 | Reparo 12693

## MOTOR

Bosch: F000AL0502 | F000AL0507

## EQUIVALENTE / Equivalent

Bosch: F000AL1181

12693

REPARO PLANETÁRIA

PLANETARY GEAR REPAIR / ENGRANAJE PARA REPARACION REDUCTORES

FOTO / Photo pg. 240

## APLICAÇÃO / Application / Aplicación

ZEN: Utilizado com Planetária ZEN 12681 | Utilizado com Planetária ZEN 12683 | Utilizado com Planetária ZEN 12685 | Utilizado com Planetária ZEN 12689 | Utilizado com Planetária ZEN 12690 | Utilizado com Planetária ZEN 12841

## MOTOR

Bosch: 0001107007 | 0001107009 | 0001107015 | 0001107020 | 0001108026 | 0001108048 | 0001108136 | 0001108146 | 0001108154 | 0001108159 | 0001109040 | 9000081001 | 9000081005 | 9000081006 | 9000081007 | 9000081008 | F000AL0100 | F005M00012 | F005M00014

## EQUIVALENTE / Equivalent

Bosch: 1006200110 | 1006200123 | 1006200128 | F000AL1015 | F000AL1017 | F000AL1019 - MYR: 7056 - Unifap: R0056

12694

REPARO PLANETÁRIA

PLANETARY GEAR REPAIR / ENGRANAJE PARA REPARACION REDUCTORES

FOTO / Photo pg. 241

APLICAÇÃO / Application / Aplicación

ZEN: Utilizado com Planetária ZEN 12681 | Utilizado com Planetária ZEN 12683 | Utilizado com Planetária ZEN 12685 | Utilizado com Planetária ZEN 12689 | Utilizado com Planetária ZEN 12690 | Utilizado com Planetária ZEN 12841

MOTOR

Bosch: 0001107007 | 0001107009 | 0001107015 | 0001107020 | 0001108026 | 0001108136 | 0001108146 | 0001108154 | 0001108159 | 0001109040 | 9000081001 | 9000081005 | 9000081006 | 9000081007 | 9000081008 | F000AL0100 | F005M00012 | F005M00014

EQUIVALENTE / Equivalent

Bosch: 1006200110 | 1006200123 | 1006200128 | F000AL1015 | F000AL1017 | F000AL1019 - MYR: 7080 - Unifap: R0080

12695

REPARO PLANETÁRIA

PLANETARY GEAR REPAIR / ENGRANAJE PARA REPARACION REDUCTORES

FOTO / Photo pg. 241

APLICAÇÃO / Application / Aplicación

ZEN: Utilizado com Planetária ZEN 12675 | Utilizado com Planetária ZEN 12682 | Utilizado com Planetária ZEN 12686 | Utilizado com Planetária ZEN 12687 | Utilizado com Planetária ZEN 12688 | Utilizado com Planetária ZEN 12692

MOTOR

Prestolite: 35258040 | 35258490 | 35258540 | 35258580 | 35258660 | 35258690 | 35258710 | 35258820 | 35258880 | 35258940 | 35258950 | 35258960 | 35259430 | 35259650 | 35259660 | 35259670 | 35259690 | 35259750 | 35259760 | 35259880 | 35259900 | 35260940 | 35260950 | 35261070 | 35261120 | 35261155 | 35261190 | 35261355 | 35261360 | 35261420 | 35261425

EQUIVALENTE / Equivalent

MYR: 7147 - Prestolite: K01265 - Unifap: R0082

12718

REPARO PLANETÁRIA

PLANETARY GEAR REPAIR / ENGRANAJE PARA REPARACION REDUCTORES

FOTO / Photo pg. 241

APLICAÇÃO / Application / Aplicación

ZEN: Utilizado com Planetária ZEN 12717

EQUIVALENTE / Equivalent

Ford: 96BB11000AA7119 - Unifap: R0084

12719

REPARO PLANETÁRIA

PLANETARY GEAR REPAIR / ENGRANAJE PARA REPARACION REDUCTORES

FOTO / Photo pg. 241

APLICAÇÃO / Application / Aplicación

ZEN: Utilizado com Planetária ZEN 12717

EQUIVALENTE / Equivalent

Ford: 96BB11000AA7119 - Unifap: R0059

12721

REPARO PLANETÁRIA

PLANETARY GEAR REPAIR / ENGRANAJE PARA REPARACION REDUCTORES

FOTO / Photo pg. 241

APLICAÇÃO / Application / Aplicación

ZEN: Utilizado com Planetária ZEN 12720

MOTOR

Remy: 9000794 | 9000846

EQUIVALENTE / Equivalent

Unifap: 0088 | R0088

12722

REPARO PLANETÁRIA

PLANETARY GEAR REPAIR / ENGRANAJE PARA REPARACION REDUCTORES

FOTO / Photo pg. 241

APLICAÇÃO / Application / Aplicación

Remy: Planetária 9000846 - ZEN: Planetária 12720

MOTOR

Remy: 9000794 | 9000846

EQUIVALENTE / Equivalent

Unifap: 0063 | R0063

**12786**

REPARO PLANETÁRIA

PLANETARY GEAR REPAIR / ENGRANAJE PARA REPARACION REDUCTORES

FOTO / Photo pg. 241

**APLICAÇÃO / Application / Aplicación**

Nissan: Nissan V16 | Sentra II

**MOTOR**

Bosch: 0001107011 | 0001107039

**EQUIVALENTE / Equivalent**

Bosch: 1005821321 | 1006200063 - Unifap: UFP0060





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