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Schwungräder  
Flywheels  
Volants moteur  
Volantes de motor



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## DAS SCHWUNGRAD IM NUTZFAHRZEUG – AUFGABE UND SCHADENSbilder

### Beschreibung Technik

Das Schwungrad ist Schnittstelle zwischen Motor und Kupplungssystem und erfüllt mehrere Aufgaben: Bauartbedingt laufen Verbrennungsmotoren ungleichförmig. Dies umso mehr, je weniger Zylinder sie haben und je niedriger die Drehzahl ist. Gerade Nutzfahrzeug-Dieselmotoren laufen vielfach mit vergleichsweise niedriger Drehzahl oder sogar längere Zeit im Leerlauf. Das Schwungrad ermöglicht es, diesen Nachteil des Ungleichlaufes weitgehend auszugleichen: Es ist mit der Kurbelwelle verschraubt und führt durch seine Masse zu gleichmäßigerem Lauf. Daneben nimmt das aus hochwertigem Grauguss gefertigte Bauteil die Kupplung auf und ist zusammen mit der Kupplungsdruckplatte Reibpartner zur Kupplungsscheibe. Zum genauen Ausrichten der Kupplung dienen ein Zentrierrand oder Zentrierungsstifte. Auf dem äußeren Umfang des Schwungrades ist ein Zahnkranz aufgeschraubt, in den das Ritzel des Anlassers beim Motorstart eingreift. Das Zentrum des Schwungrades nimmt das Pilotlager auf, in dem sich die Getriebeeingangswelle abstützt.

Bei der Montage einer Kupplung oder von Kupplungskomponenten ist große Sorgfalt unverzichtbar. Denn es müssen alle Arbeitsschritte exakt ausgeführt werden, um spätere Schäden von vornherein ausschließen zu können. Schäden am Schwungrad beeinträchtigen die korrekte Funktion einer neu eingebauten Kupplung.



### SERVICE

- 1 Anbausatz beinhaltet:
- 1 Wellendichtring
- 1 Pilotlager
- 1 Satz Befestigungsschrauben
- 1 Satz Dehnschrauben

### FAHRZEUGE

DAF, MAN, Mercedes-Benz.  
Von 380 mm bis 430 mm Durchmesser.

# Commercial Vehicle Flywheels

## COMMERCIAL VEHICLE FLYWHEELS – FUNCTION AND DAMAGE PATTERNS



### Technical description

The flywheel is the coupling link between the engine and the clutch system and as such performs several tasks: owing to their design, internal combustion engines run unevenly. Few cylinders and low rpm amplify the effect. Commercial vehicles generally operate at low engine speeds or run idle for a prolonged period of time. The flywheel is able to smooth out uneven running characteristics. It is bolted to the crankshaft and its mass yields a more even running of the engine. In addition, the flywheel, which is made from high-grade grey cast iron, supports the clutch and, together with the clutch pressure plate, acts as the clutch disc's friction partner. A centering rim or centering pins guarantee the precise alignment of the clutch. When cranking the engine, the pinion of the starter engages with the ring gear which is shrunk on the outer circumference of the flywheel. The flywheel centre carries the pilot bearing which supports the transmission input shaft.

When replacing the clutch or clutch components, it is crucial to proceed with great caution. There are many process steps to be followed precisely in order to avoid damage from the beginning. Any damage to the flywheel impairs the correct functioning of a new clutch.

### SERVICE

1 repair kit contains:  
1 oil seal  
1 pivot bearing  
1 set clutch fixing bolts  
1 set stretch bolts

### VEHICLES

DAF, MAN, Mercedes-Benz.  
From 380 mm to 430 mm in diameter.





## Volants moteur PL

### LE VOLANT MOTEUR DANS LE VEHICULE UTILITAIRE - FONCTIONS ET DEFAUTS

#### Description technique

Le volant moteur représente l'interface entre le moteur et le système d'embrayage. Il remplit plusieurs fonctions: Les moteurs à combustion se caractérisent par un fonctionnement acyclique. Cette irrégularité est d'autant plus marquée quand le nombre de cylindres et le régime sont réduits. Les moteurs diesel des véhicules utilitaires, notamment, fonctionnent avec un régime relativement bas et même de façon prolongée au ralenti. Le volant moteur permet de compenser l'inconvénient d'un fonctionnement acyclique: il est vissé au vilebrequin, et sa masse contribue à augmenter la régularité du fonctionnement. Par ailleurs, cet élément en fonte grise de haute qualité réceptionne l'embrayage et forme avec le plateau de pression de l'embrayage une unité de friction par rapport au disque d'embrayage. Le positionnement précis de l'embrayage est assuré par un bord ou des goujons de centrage. Sur la périphérie du volant moteur est emmanchée à chaud une couronne dentée dans laquelle s'engrène le pignon du démarreur au démarrage du moteur. Le centre du volant moteur réceptionne le roulement pilote dans lequel s'insère l'arbre primaire de la boîte de vitesses.

Le montage d'un embrayage ou d'éléments d'embrayage requiert les plus grandes précautions. Il faut exécuter correctement toutes les opérations afin de pouvoir exclure des dommages dès le départ. Un endommagement du volant moteur entrave le fonctionnement du nouvel embrayage ayant été monté.



#### SERVICE

1 kit de montage comprend:  
 1 joint d'étanchéité  
 1 roulement pilote  
 1 jeu de vis de fixation  
 1 jeu de vis à dilatation

#### VEHICULES

DAF, MAN, Mercedes-Benz.  
 Diamètre de 380 mm à 430 mm.

# Volantes Motor - Vehículo Industrial

## EL VOLANTE MOTOR DE VEHÍCULOS INDUSTRIALES. FUNCIÓN Y DIAGNÓSTICO DE AVERÍAS



### Descripción Técnica

El volante motor es el interfaz entre el motor y el sistema de embrague y cumple diversas funciones: Debido a su estructura, los motores de combustión funcionan de forma irregular. Este hecho se acentúa cuanto menos cilindros tienen y cuanto menores son las revoluciones. Los motores diesel de los vehículos comerciales funcionan a revoluciones comparativamente bajas o incluso tiempos superiores sin carga. El volante motor permite compensar ampliamente esta desventaja de la marcha irregular. Está atornillado al cigüeñal y gracias a la acumulación de energía en su masa conduce a un régimen de funcionamiento regular. Asimismo, la pieza de montaje fabricada en fundición gris de primera calidad aloja el embrague y junto con el plato de presión del embrague es el responsable de la transmisión de potencia por fricción al disco de embrague.

De la orientación precisa del embrague se encargan un borde de centrado o pernos de centrado. En el contorno exterior del volante motor está fijada por calado una corona dentada, en la que encaja el piñón del motor de arranque al arrancar el motor. El centro del volante motor aloja el cojinete piloto, en el que se apoya el eje primario de la caja de cambios.

En el montaje de un embrague o de componentes del embrague es imprescindible tener gran cuidado. Ya que todas las etapas de trabajo deben realizarse de forma exacta para poder evitar averías posteriores. Los daños en el volante motor perjudican el funcionamiento correcto de un embrague recién montado.

### ASISTENCIA TÉCNICA

1 juego auxiliar contiene:  
1 anillo obturador de árbol  
1 cojinete piloto  
1 juego de tornillos de fijación  
1 juego de tornillos de dilatación

### VEHÍCULOS

DAF, MAN, Mercedes-Benz.  
De 380 mm a 430 mm de diámetro.





## 1. Kerben oder Riefen an der Zentrierung (Gehäusezentrierung)



Die Kupplung wurde vor dem Anschrauben nicht parallel auf den Zentrierrand aufgesetzt. Dies hat zur Folge, dass die Kupplungsdruckplatte verkantet und die Kupplungsscheibe nicht vollständig parallel zum Schwungrad einklemmen kann. Dadurch rutscht die Kupplungsscheibe und führt zur lokalen Erhitzung des Schwungrades, es entstehen Hitzeflecken. Das kann zum „Verglasen“ der Beläge der Kupplungsscheibe führen. Aber auch Rupfen und Trennprobleme kann dieser Einbaufehler verursachen. Daher ist das Schwungrad zu ersetzen oder zumindest zu überarbeiten, während die Kupplung und die Kupplungsscheibe ausgetauscht werden müssen.



## 2. Schwungrad durch Hitze beschädigt / Blau angelaufen; Hitzeflecken, Hitzerisse



Eine verschlissene Kupplung, Schleifenlassen der Kupplung oder Anfahren in hohem Gang sowie ein fehlerhaft eingestelltes Ausrücksystem führen zu oben genannten Schäden. Es kommt als Ursache auch eine Verunreinigung durch Öle oder Fette aufgrund eines undichten Wellendichtrings oder einer zu stark gefetteten Profilwelle in Frage. Hier muss das Schwungrad ersetzt werden. Unbedingt erforderlich ist ein neues Pilotlager. Die Kupplung und die Kupplungsscheibe sind auszutauschen. Sind Öle oder Fette die Ursache, müssen zudem die Kupplungsglocke gereinigt und die Wellendichtringe motor- und getriebeseitig erneuert werden.

## 3. Schwungradseitig Riefen auf dem Kupplungsbelag



Das Schwungrad wurde vor dem Kupplungstausch nicht gewechselt oder überarbeitet. Es weist Hitzeflecken auf und ist uneben. Daher ist es zu ersetzen oder wenigstens zu überarbeiten, während die Kupplungsscheibe ausgetauscht werden muss. Siehe auch Schadensbild „Spiegelnde Oberfläche, Riefen, Hitzerisse“.

#### 4. Zentrierstift/e, Zentrierlöcher nicht korrekt ausgerichtet



Wird die Kupplung festgeschraubt obwohl die Zentrierung inkorrekt ist, wird der Zentrierstift deformiert und der Kupplungsdeckel verbogen. In einem solchen Fall sind das Schwungrad und die Kupplung auszutauschen.

#### 5. Zentrierring teilweise ausgebrochen



Hier kommt ein Handhabungsfehler in Frage; beispielsweise wurde das Schwungrad fallen gelassen. Möglicherweise erfolgte die Kupplungsmontage auch unsauber zentriert, bzw. es sind Schmutz oder Grate am Zentrierring oder die Kupplung wurde nicht kreuzweise angezogen. Eventuell ist das Schwungrad auch verzogen. Es muss in jedem Fall ausgetauscht werden. Auch die Kupplung sollte ausgetauscht werden, da sich der Kupplungsdeckel verzogen haben kann.

#### 6. Spiegelnde Oberfläche, Riefen, Hitzerisse



Dies deutet auf übermäßige thermische Belastung hin, verursacht durch abgefahrenen Belag, fehlerhafte Kupplungsbetätigung oder Bedienfehler. Das Schwungrad muss überarbeitet oder ersetzt werden, und die Kupplungsscheibe ist zu überprüfen – wie im Schadensbild „Schwungradseitig Riefen auf dem Kupplungsbelag“ beschrieben.



#### GENERELL GILT

Die Funktion einer neuen Kupplung ist nicht gewährleistet, wenn das Schwungrad nicht ausgetauscht oder zumindest sorgfältig nachgearbeitet wurde. Dabei sind nicht nur die vorgegebenen Toleranzen exakt zu beachten, sondern auch die Anschraubflächen müssen im gleichen Maße nachgesetzt werden wie die behandelte Lauffläche. Die vom Hersteller vorgeschriebene Schwungradscheibendicke darf dabei nicht unterschritten werden.

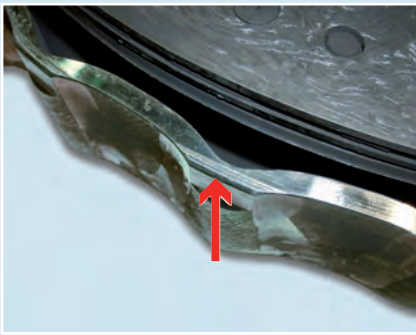


## Fault Diagnosis

### 1. Grooves and scores in the centering device (clutch cover centring)



The clutch is not located in the centring rim prior to tightening the bolts. As a result, the clutch pressure is jammed and no parallel engagement is possible between clutch pressure plate, clutch disc and flywheel. The clutch disc starts to slip, localized heat is generated and hot spots occur on the flywheel. This can lead to the “glazing” of the friction material. The inaccurate installation can also lead to clutch judder and clutch disengagement problems. Therefore, the flywheel must be replaced or at least resurfaced; the clutch pressure plate and disc must be replaced.



### 2. Flywheel damaged by heat / discoloured blue; hot spots, thermal cracks



This damage pattern can result from a worn clutch, driver-induced clutch slip, start-off in high gear or from an ill-adjusted release system. Another cause could be contamination by oil or grease resulting from a defective shaft seal ring or an excessively greased input shaft. The flywheel must be replaced. It is imperative to install a new pilot bearing. The clutch pressure plate and disc must be replaced. If the defect is due to excessive/contaminated oil or grease, it is also necessary to clean the clutch housing as well as the shaft seal rings on both the engine and transmission side.

### 3. Scores in the clutch lining on the flywheel side



The flywheel was not replaced or resurfaced when the clutch was replaced. The flywheel surface shows hot spots and is warped. The flywheel must be replaced or at least resurfaced; the clutch disc must be replaced. Also refer to damage pattern “Reflective surface, scores, thermal cracks”.

## Fault Diagnosis

### 4. Misalignment of the centering pin/s, centering bores



Failure to centre the clutch prior to tightening it causes a deformation of the dowel pin and clutch cover. In this case, the flywheel and the clutch must be replaced.

### 5. Centering ring partially worn out



Improper handling is the likely cause of this damage pattern (the flywheel may have been dropped). Perhaps the clutch was installed off centre, there may be contaminants or burrs on the centring rim or the clutch was not tightened crosswise. It could also be that the flywheel is distorted. In any of these cases the flywheel must be replaced. It is also recommended to replace the clutch, as the clutch cover can be distorted.

### 6. Reflective surface, scores, thermal cracks



This damage signals excessive thermal load caused by worn friction linings, a defective clutch actuation system or handling error. The flywheel must be resurfaced or replaced, and the clutch disc inspected – as described in the section "Scores in the clutch lining on the flywheel side".

### THE BASIC RULE IS

The proper functioning of a newly installed clutch is not guaranteed, unless the flywheel is replaced or at least resurfaced thoroughly. Here, it is essential not only to observe the specified tolerance values, but also to re-machine the bolting surface equally to the running surface. The flywheel thickness must never be thinner than the minimum value specified by the manufacturer.



## Diagnostics des pannes

### 1. Encoches ou stries au niveau du centrage (centrage du carter)



L'embrayage n'a pas été placé parallèlement au bord de centrage avant le vissage. Il s'ensuit que le plateau de pression est désaxé et que le disque d'embrayage ne peut s'enclencher parallèlement au volant moteur. Cela entraîne un patinage du disque et une surchauffe locale du volant moteur, qui produit des taches. Ce défaut peut aboutir à une "vitrification" des garnitures du disque d'embrayage. Mais il peut aussi provoquer un broutage ou des problèmes de débrayage. Il faut par conséquent remplacer le volant moteur ou au moins le rectifier, mais obligatoirement remplacer l'embrayage et son disque.

### 2. Volant moteur endommagé par la chaleur / coloration bleue; taches ou fissures thermiques



Un embrayage usé ou qui patine ou un démarrage avec une vitesse élevée et un système de débrayage mal réglé provoquent les défauts indiqués ci-dessus. Ce défaut peut aussi provenir d'impuretés résultant de projections d'huile ou de graisse, causées par la fuite d'un joint d'étanchéité ou par un graissage excessif de l'arbre primaire de la boîte de vitesses. Il faut alors remplacer le volant moteur. Un nouveau roulement pilote est indispensable. On remplacera l'embrayage et son disque. Si l'huile ou la graisse est à l'origine du défaut, il faut en plus nettoyer la cloche d'embrayage et remplacer les joints d'étanchéité à lèvres du côté moteur et boîte de vitesses.

### 3. Stries sur la garniture d'embrayage du côté volant moteur



Le volant moteur n'a pas été changé ou rectifié avant le remplacement de l'embrayage. Il présente des taches de surchauffe et une surface inégale. Il faut donc le remplacer ou au moins le rectifier et remplacer obligatoirement le disque d'embrayage. Voir aussi défauts "Surface vitrifiée, stries, fissures thermiques".

## Diagnostic des pannes

### 4. Goujon(s) de centrage, orifices de centrage mal positionnés



Si l'on visse l'embrayage bien que le centrage soit incorrect, le goujon de centrage et le carter de l'embrayage se déforment. Dans un tel cas, il faut remplacer le volant moteur et l'embrayage.

### 5. Bord de centrage ébréché



Ce défaut résulte en général d'une manipulation incorrecte (par ex. chute du volant moteur). Il se peut que l'embrayage ait été monté sans centrage correct, ou que le bord de centrage présente des dépôts de saleté ou des bavures, ou que l'embrayage n'ait pas été serré en diagonale. Il est aussi possible que le volant moteur soit voilé. Un remplacement est toujours indispensable. Il convient aussi de remplacer l'embrayage puisque son carter peut s'être voilé.

### 6. Surface vitrifiée, stries, fissures thermiques



Ce défaut renvoie à une surcharge thermique, causée par une garniture usée, un mauvais actionnement de l'embrayage ou une commande incorrecte. Il faut rectifier ou remplacer le volant moteur et vérifier le disque d'embrayage, comme décrit au point "Stries sur la garniture d'embrayage du côté volant moteur".

### REGLES GENERALES

Le fonctionnement d'un nouvel embrayage ne sera pas garanti si le volant moteur n'a pas été remplacé ou du moins rectifié minutieusement. On tiendra compte des tolérances et on veillera à ajuster le bord de centrage dans la même proportion que la surface de frottement traitée. L'épaisseur du volant moteur ne doit pas être inférieure à la valeur prescrite par le fabricant.



## Diagnóstico de averías

### 1. Muestras o rayas en el centraje (centraje de la carcasa)



Antes de atornillar el embrague no se ha colocado de forma paralela al borde de centraje. Esto supone que la placa de presión del embrague se ladea y el disco de embrague no puede fijarse de forma completamente paralela al volante motor. Por ello, el disco de embrague se desplaza y conduce a un calentamiento local del volante motor, se generan manchas de calor. Esto puede conducir a una "vitricificación" del revestimiento del disco de embrague. Este error de montaje también puede conducir a tirones y problemas de separación. Por ello, debe reemplazarse el volante motor o, al menos, rectificarse, mientras que deben reemplazarse los discos de embrague.

### 2. Volante motor dañado por el calor/ pavonado; manchas de calor, grietas de calor



Un embrague desgastado, arrastrar el embrague o iniciar la marcha con una marcha alta, así como un sistema de desembrague ajustado de forma errónea conduce a las averías mencionadas anteriormente. También las origina la suciedad por aceites o grasas, debido a juntas de obturación de árbol no estancas o árboles de perfiles excesivamente lubricados. Debe reemplazarse el volante motor. Es imprescindible un nuevo cojinete piloto. Deben reemplazarse el embrague y el disco de embrague. Si el motivo es el aceite o la grasa, se deben limpiar las campanas del embrague y renovar los anillos de obturación del árbol del lado del motor y del cambio.

### 3. Rayas en el forro del disco de embrague por el lado del volante motor



Antes de reemplazar el embrague no se cambió y rectificó el volante motor. Presenta manchas de calor y es irregular. Por ello, debe reemplazarse o al menos rectificarse, mientras el disco de embrague debe reemplazarse. Consulte también el cuadro de averías "Superficie reflectante, muescas, grietas por calor".

## Diagnóstico de averías

### 4. El/los perno/s de centraje, taladros de centraje no están correctamente orientados.



Si se atornilla el embrague a pesar de que el centraje sea incorrecto, el perno de centraje se deformará y la tapa del embrague se curvará. En tal caso, deberán cambiarse el volante motor y el embrague.

### 5. El anillo de centraje está parcialmente roto



Aquí se trata de un fallo de manejo; por ejemplo, se ha dejado caer el volante motor. Posiblemente el montaje del embrague no se centró o hay suciedad o rebabas en el borde de centraje o el embrague no se ha colocado en cruz. Probablemente el volante motor también está deformado. En cualquier caso debe reemplazarse. El embrague también debería reemplazarse, porque la prensa del embrague puede haberse deformado.

### 6. Superficie reflectante, muescas, grietas por calor



Esto significa una carga térmica excesiva, originada por un revestimiento desgastado, accionamiento del embrague defectuoso o fallo de manejo.. El volante motor debe rectificarse o sustituirse, y el disco de embrague debe revisarse - como se describe en el cuadro de averías " Muecas en el lado del volante motor sobre el revestimiento del embrague.

### EN GENERAL ES APLICABLE

La función de un embrague nuevo no está garantizada si no se reemplaza el volante motor o, al menos, se rectifica cuidadosamente. Asimismo, no sólo deben tenerse en cuenta las tolerancias predeterminadas, sino que también las superficies de atornillado deben respetar tras el rectificado las mismas cotas contra la superficie de fricción rectificada. El grosor del volante de motor no debe rebasar en ningún caso el límite inferior especificado por el fabricante.

## Frontseiten | Front sides | Faces avant | Cara de fricción



416 0007 10



416 0008 10



416 0010 10



416 0011 10



416 0012 10



416 0013 10



416 0016 10



416 0022 10



416 0023 10

## Frontseiten | Front sides | Faces avant | Cara de fricción



416 0024 10



416 0027 10



416 0028 10



416 0029 10



416 0030 10



416 0031 10



416 0032 10



416 0070 10

## Anbausätze | Repair kits | Kits de montage | Juegos auxiliares



412 0040 10



412 0041 10



412 0042 10



412 0043 10



### Anbausätze für Schwungräder | Repair kits for flywheels Kits de montage pour volants moteur | Juegos auxiliares para volantes motor

412 0040 10 GF/380 / GF 420 / TFZ 430 MAN  
412 0041 10 GF 2/380 / TFZ 2/400  
412 0042 10 GF 380/GF 420 / TFZ 430  
Merc.-Benz  
412 0043 10 GF 2/380 / TFZ 2/400  
GF = Gussgehäuse, flaches Schwungrad  
TFZ = Tellerfeder, flaches Schwungrad,  
gezogen  
2/ = 2-Scheiben-Kupplung

412 0040 10 GF/380 / GF 420 / TFZ 430 MAN  
412 0041 10 GF 2/380 / TFZ 2/400  
412 0042 10 GF 380/GF 420 / TFZ 430  
Merc.-Benz  
412 0043 10 GF 2/380 / TFZ 2/400  
GF = Cast housing, flat flywheel  
TFZ = Diaphragm, flat flywheel, pull type  
2/ = Twin plate clutch

412 0040 10 GF/380 / GF 420 / TFZ 430 MAN  
412 0041 10 GF 2/380 / TFZ 2/400  
412 0042 10 GF 380/GF 420 / TFZ 430  
Merc.-Benz  
412 0043 10 GF 2/380 / TFZ 2/400  
GF = Carter en fonte, volant plat  
TFZ = Mécanisme à diaphragme,  
volant plat,  
2/ = Embrayage bidisque

412 0040 10 GF/380 / GF 420 / TFZ 430 MAN  
412 0041 10 GF 2/380 / TFZ 2/400  
412 0042 10 GF 380/GF 420 / TFZ 430  
Merc.-Benz  
412 0043 10 GF 2/380 / TFZ 2/400  
GF = Carcasa de fundición, volante plano  
TFZ = Diafragma, volante plano, jalón  
2/ = Embrague bidisco/doble

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

## DAF

## 85 CF

|          |          |          |             |  |  |             |
|----------|----------|----------|-------------|--|--|-------------|
| 85CF 340 | XF 250 M | 131 4029 | 416 0057 10 |  |  | 643 3088 00 |
| 85CF 380 | XF 280 M |          |             |  |  |             |
| 85CF 430 | XF 315 M |          |             |  |  |             |
| 95CF 380 | XF 280 M | 131 4029 | 416 0057 10 |  |  | 643 3088 00 |
| 95CF 430 | XF 315 M |          |             |  |  |             |
| 95CF 480 | XF 355 M |          |             |  |  |             |
| 95CF 530 | XF 390 M |          |             |  |  |             |

## MAN

## F90

|               |          |                       |               |             |  |             |
|---------------|----------|-----------------------|---------------|-------------|--|-------------|
| F01/ F02/ F03 | 16/ 19 T | D2865 LF/ LFR/ LF01.. | 51.02301.7410 | 416 0030 10 |  | 640 3020 00 |
| F04           | 19 T     | D2865 LF/ LFR/ LF01.. | 51.02301.7410 | 416 0030 10 |  | 640 3020 00 |

## F90

|               |                                      |                       |               |             |                                             |                            |
|---------------|--------------------------------------|-----------------------|---------------|-------------|---------------------------------------------|----------------------------|
| F05/ F06/ F07 | 22/ 24 T<br>25/ 26 T                 | D2865 LF/ LFR/ LF01.. | 51.02301.7410 | 416 0016 10 |                                             | 640 3020 00                |
| F04/ F08      | 22/ 24 T<br>25/ 26 T                 | D2865 LF/ LFR/ LF01.. | 51.02301.7410 | 416 0016 10 |                                             | 640 3020 00                |
| F09/ F10      | 26/ 27/ 28 T<br>30/ 32/ 33 T         | D2865 LF/ LFR/ LF01.. | 51.02301.7410 | 416 0016 10 |                                             | 640 3020 00                |
| F13/ F14      | 28/ 30/ 31/ 32 T<br>33/ 34/ 35/ 36 T | D2865 LF/ LFR/ LF01.. | 51.02301.7410 | 416 0016 10 |                                             | 640 3020 00                |
| F16           | 22/ 24/ 25 T<br>25/ 26 T             | D2865 LF/ LFR/ LF01.. | 51.02301.7410 | 416 0016 10 |                                             | 640 3020 00                |
| F18/ F19      | 24/ 26 T                             | D2865 LF/ LFR/ LF01.. | 51.02301.7410 | 416 0016 10 |                                             | 640 3020 00                |
| F21/ F22/ F23 | 19T                                  | D2840 LF01/ 04/ 06    | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |
| F25/ F28      | 22/ 24/ 25/ 26 T                     | D2840 LF01/ 04/ 06    | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |
| F29/ F30      | 26/ 27/ 32/ 33 T                     | D2840 LF01/ 04/ 06    | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |
| F32           | 32T                                  | D2840 LF01/ 04/ 06    | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |
| F36           | 22/ 24/ 25/ 26 T                     | D2840 LF01/ 04/ 06    | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |
| F39           | 24/ 26 T                             | D2840 LF01/ 04/ 06    | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |
| F51/ F52      | 16/17/ 19 T                          | D2865 LF/ LFR/ LF01.. | 51.02301.7410 | 416 0016 10 |                                             | 640 3004 00                |

## E-Serie

|          |                                              |                                                                                                    |               |             |                                             |                            |
|----------|----------------------------------------------|----------------------------------------------------------------------------------------------------|---------------|-------------|---------------------------------------------|----------------------------|
| E15      | 32/ 35/ 41 T<br>32/ 35/ 41 T<br>32/ 35/ 41 T | D2865 LF/ LFR/ LF01..                                                                              | 51.02301.7410 | 416 0016 10 |                                             | 640 3004 00                |
| E50      | 30/33 T<br>30/33 T                           | D2865 LF21-26                                                                                      | 51.02301.7439 | 416 0030 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras | 412 0040 10<br>643 3085 00 |
| E51      | 18/ 19 T                                     | D2865 LF21-26                                                                                      | 51.02301.7439 | 416 0030 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras | 412 0040 10<br>643 3085 00 |
| E52      | 19/ 21 T                                     | D2865 LF21-26                                                                                      | 51.02301.7439 | 416 0030 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras | 412 0040 10<br>643 3085 00 |
| E53      | 24/ 26/ 27 T                                 | D2865 LF21-26                                                                                      | 51.02301.7439 | 416 0030 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras | 412 0040 10<br>643 3085 00 |
| E58      | 35/ 37/ 41 T                                 | D2865 LF21-26                                                                                      | 51.02301.7439 | 416 0030 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras | 412 0040 10<br>643 3085 00 |
| E58      | 35/ 37/ 41 T<br>35/ 37/ 41 T                 | D2865 LF/ LFR/ LF01..                                                                              | 51.02301.7439 | 416 0030 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras | 412 0040 10<br>643 3085 00 |
| E59      | 33 T 6x2                                     | D2865 LF/ LFR/ LF01..                                                                              | 51.02301.7439 | 416 0030 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras | 412 0040 10<br>643 3085 00 |
| E61/ E62 | 19 T                                         | D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17                                                         | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |
| E63      | 26 T                                         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |
| E65      | 32 T                                         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |
| E67      | 28 T                                         | D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17                                                         | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |
| E68      | 41 T                                         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45                                               | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br>643 3013 00 |

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## E-Serie

|     |      |                                                                                                    |               |             |                                             |             |             |
|-----|------|----------------------------------------------------------------------------------------------------|---------------|-------------|---------------------------------------------|-------------|-------------|
| E69 | 33 T | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10 | 643 3013 00 |
|-----|------|----------------------------------------------------------------------------------------------------|---------------|-------------|---------------------------------------------|-------------|-------------|

## F2000

|               |              |                                                                                                    |                                    |                                |                                                                                            |                                |                                |
|---------------|--------------|----------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|
| T01/ T02/ T03 | 18/ 19 T     | D2865 LF21-26                                                                                      | 51.02301.7439                      | 416 0030 10                    | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras                                                | 412 0040 10                    | 643 3085 00                    |
| T04           | 18/ 19 T     | D2865 LF21-26                                                                                      | 51.02301.7439                      | 416 0030 10                    | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras                                                | 412 0040 10                    | 643 3085 00                    |
| T05/ T06/ T07 | 23/ 24/ 27 T | D2865 LF21-26                                                                                      | 51.02301.7439                      | 416 0030 10                    | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras                                                | 412 0040 10                    | 643 3085 00                    |
| T08           | 22/ 26-28 T  | D2865 LF21-26                                                                                      | 51.02301.7439                      | 416 0030 10                    | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras                                                | 412 0040 10                    | 643 3085 00                    |
| T10           | 26/27 T      | D2865 LF21-26                                                                                      | 51.02301.7439                      | 416 0030 10                    | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras                                                | 412 0040 10                    | 643 3085 00                    |
| T12           | 26/27/33 T   | D2865 LF21-26                                                                                      | 51.02301.7439                      | 416 0030 10                    | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras                                                | 412 0040 10                    | 643 3085 00                    |
| T15           | 32/ 35 T     | D2865 LF21-26                                                                                      | 51.02301.7439                      | 416 0030 10                    | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras                                                | 412 0040 10                    | 643 3085 00                    |
| T16           | 35/ 37/ 41 T | D2865 LF21-26                                                                                      | 51.02301.7439                      | 416 0030 10                    | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras                                                | 412 0040 10                    | 643 3085 00                    |
| T17           | 32 T         | D2865 LF21-26<br><br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17                                    | 51.02301.7439<br><br>51.02301.7440 | 416 0030 10<br><br>416 0031 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras<br>6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10<br><br>412 0040 10 | 643 3085 00<br><br>643 3013 00 |
| T18           | 26/ 27/ 33 T | D2865 LF21-26                                                                                      | 51.02301.7439                      | 416 0030 10                    | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras                                                | 412 0040 10                    | 643 3085 00                    |
| T20           | 19 T         | D2865 LF21-26                                                                                      | 51.02301.7439                      | 416 0030 10                    | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras                                                | 412 0040 10                    | 643 3085 00                    |
| T31/ T32      | 18 T         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440                      | 416 0031 10                    | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras                                                | 412 0040 10                    | 643 3013 00                    |
| T33           | 18/ 19 T     | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440                      | 416 0031 10                    | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras                                                | 412 0040 10                    | 643 3013 00                    |
| T34           | 18 T         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440                      | 416 0031 10                    | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras                                                | 412 0040 10                    | 643 3013 00                    |
| T36/ T37      | 26 T         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440                      | 416 0031 10                    | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras                                                | 412 0040 10                    | 643 3013 00                    |
| T38           | 26 T         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440                      | 416 0031 10                    | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras                                                | 412 0040 10                    | 643 3013 00                    |
| T39           | 26/ 27/ 28 T | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440                      | 416 0031 10                    | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras                                                | 412 0040 10                    | 643 3013 00                    |
| T40           | 26 T         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440                      | 416 0031 10                    | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras                                                | 412 0040 10                    | 643 3013 00                    |
| T42           | 26/ 33 T     | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440                      | 416 0031 10                    | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras                                                | 412 0040 10                    | 643 3013 00                    |
| T43           | 40 T         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440                      | 416 0031 10                    | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras                                                | 412 0040 10                    | 643 3013 00                    |
| T45           | 35 T         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440                      | 416 0031 10                    | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras                                                | 412 0040 10                    | 643 3013 00                    |

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## MAN

## F2000

|     |              |                                                                                                    |               |             |                                             |             |             |
|-----|--------------|----------------------------------------------------------------------------------------------------|---------------|-------------|---------------------------------------------|-------------|-------------|
| T46 | 41 T         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10 | 643 3013 00 |
| T48 | 26/ 33 T     | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10 | 643 3013 00 |
| T50 | 19 T         | D2866 LF20-25/29-31/34<br>D2866 LF25/ 38/ 39/ 40/ 45<br>D2876 LF01-03/ 06<br>D2876 LF08-10/ 14/ 17 | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10 | 643 3013 00 |
| T70 | 26/28 T      | D2840 LF20/ 21/ 23<br>D2840 LF24/ 27/ 28                                                           | 51.02301.7439 | 416 0030 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras | 412 0041 10 | 640 3046 00 |
| T72 | 26/ 33 T     | D2840 LF20/ 21/ 23<br>D2840 LF24/ 27/ 28                                                           | 51.02301.7439 | 416 0030 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras | 412 0041 10 | 640 3046 00 |
| T72 | 27/ 28/ 33 T | D2840 LF20/ 21/ 23<br>D2840 LF24/ 27/ 28                                                           | 51.02301.7439 | 416 0030 10 | 5 Nuten/ 5 grooves<br>5 rainures/ 5 ranuras | 412 0041 10 | 640 3046 00 |

## F90 Unterflur

|     |          |                    |               |             |  |  |             |
|-----|----------|--------------------|---------------|-------------|--|--|-------------|
| U20 | 14/ 17 T | D2865 LU01/ 02/ 03 | 51.02301.7410 | 416 0016 10 |  |  | 640 3020 00 |
|-----|----------|--------------------|---------------|-------------|--|--|-------------|

## L2000

|     |         |                    |               |             |  |  |             |
|-----|---------|--------------------|---------------|-------------|--|--|-------------|
| L21 | 8/ 9 T  | D0826 LFL03/ 06-10 | 51.02301.7382 | 416 0055 10 |  |  | 635 3044 00 |
| L23 | 8/ 9 T  | D0826 LFL03/ 06-10 | 51.02301.7382 | 416 0055 10 |  |  | 635 3044 00 |
| L25 | 10 T    | D0826 LFL03/ 06-10 | 51.02301.7382 | 416 0055 10 |  |  | 635 3044 00 |
| L27 | 10 T    | D0826 LFL03/ 06-10 | 51.02301.7382 | 416 0055 10 |  |  | 635 3044 00 |
| L34 | 8/ 9 T  | D0826 LFL03/ 06-10 | 51.02301.7382 | 416 0055 10 |  |  | 635 3044 00 |
| L36 | 10 T    | D0826 LFL03/ 06-10 | 51.02301.7382 | 416 0055 10 |  |  | 635 3044 00 |
| L52 | 8/ 10 T | D0826 LFL03/ 06-10 | 51.02301.7382 | 416 0055 10 |  |  | 635 3044 00 |
| L53 | 8/ 10 T | D0826 LFL03/ 06-10 | 51.02301.7382 | 416 0055 10 |  |  | 635 3044 00 |

## M90

|          |              |                                               |               |             |  |  |             |
|----------|--------------|-----------------------------------------------|---------------|-------------|--|--|-------------|
| M01/ 02  | 12/ 13 T     | D0826LF/ LF01/ 02/ 04-09<br>D0826LF11/ 12/ 13 | 51.02301.7389 | 416 0060 10 |  |  | 638 3091 10 |
| M03/ M04 | 14/ 15 T     | D0826LF/ LF01/ 02/ 04-09<br>D0826LF11/ 12/ 13 | 51.02301.7389 | 416 0060 10 |  |  | 638 3091 10 |
| M05/ M06 | 17/ 18 T     | D0826LF/ LF01/ 02/ 04-09<br>D0826LF11/ 12/ 13 | 51.02301.7389 | 416 0060 10 |  |  | 638 3091 10 |
| M07      | 12 T         | D0826LF/ LF01/ 02/ 04-09<br>D0826LF11/ 12/ 13 | 51.02301.7389 | 416 0060 10 |  |  | 638 3091 10 |
| M08      | 15/ 17/ 18 T | D0826LF/ LF01/ 02/ 04-09<br>D0826LF11/ 12/ 13 | 51.02301.7389 | 416 0060 10 |  |  | 638 3091 10 |
| M09      | 24 T         | D0826LF/ LF01/ 02/ 04-09<br>D0826LF11/ 12/ 13 | 51.02301.7389 | 416 0060 10 |  |  | 638 3091 10 |
| M10      | 24 T         | D0826LF/ LF01/ 02/ 04-09<br>D0826LF11/ 12/ 13 | 51.02301.7389 | 416 0060 10 |  |  | 638 3091 10 |
| M16      | 18 T         | D0826LF/ LF01/ 02/ 04-09<br>D0826LF11/ 12/ 13 | 51.02301.7389 | 416 0060 10 |  |  | 638 3091 10 |
| M19      | 24 T         | D0826LF/ LF01/ 02/ 04-09<br>D0826LF11/ 12/ 13 | 51.02301.7389 | 416 0060 10 |  |  | 638 3091 10 |

## TGA

|               |          |                                                  |               |             |  |  |                            |
|---------------|----------|--------------------------------------------------|---------------|-------------|--|--|----------------------------|
| H01/ H02/ H05 | 18 T     | D2866 LF26-28/ 32/ 36<br>D2866 LF37/ 41/ 47      | 51.02301.6033 | 416 0041 10 |  |  | 643 3201 00<br>643 3217 00 |
| H01/ H02/ H05 | 18 T     | D2876 LF04/ 05/ 07/ 11<br>D2876 LF20/ 21/ 22/ 24 | 51.02301.6033 | 416 0041 10 |  |  | 643 3207 00<br>643 3209 00 |
| H17/ H20/ H23 | 26 T     | D2866 LF26-28/ 32/ 36<br>D2866 LF37/ 41/ 47      | 51.02301.6033 | 416 0041 10 |  |  | 643 3201 00<br>643 3217 00 |
| H17/ H20/ H23 | 18 T     | D2876 LF04/ 05/ 07/ 11<br>D2876 LF20/ 21/ 22/ 24 | 51.02301.6033 | 416 0041 10 |  |  | 643 3207 00<br>643 3209 00 |
| H25           | 26/ 33 T | D2866 LF26-28/ 32/ 36<br>D2866 LF37/ 41/ 47      | 51.02301.6033 | 416 0041 10 |  |  | 643 3201 00<br>643 3217 00 |
| H28           | 33 T     | D2866 LF26-28/ 32/ 36<br>D2866 LF37/ 41/ 47      | 51.02301.6033 | 416 0041 10 |  |  | 643 3201 00<br>643 3217 00 |
| H29           | 26/ 33 T | D2866 LF26-28/ 32/ 36<br>D2866 LF37/ 41/ 47      | 51.02301.6033 | 416 0041 10 |  |  | 643 3201 00<br>643 3217 00 |
| H46           | 41/ 50 T | D2866 LF26-28/ 32/ 36<br>D2866 LF37/ 41/ 47      | 51.02301.6033 | 416 0041 10 |  |  | 643 3201 00<br>643 3217 00 |
| H51           | 18 T     | D2866 LF26-28/ 32/ 36<br>D2866 LF37/ 41/ 47      | 51.02301.6033 | 416 0041 10 |  |  | 643 3201 00<br>643 3217 00 |

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## MAN

| TGA |      |                                             |               |             |  |  |             |
|-----|------|---------------------------------------------|---------------|-------------|--|--|-------------|
| H60 | 19 T | D2866 LF26-28/ 32/ 36<br>D2866 LF37/ 41/ 47 | 51.02301.6033 | 416 0041 10 |  |  | 643 3201 00 |
| H62 | 33 T | D2866 LF26-28/ 32/ 36<br>D2866 LF37/ 41/ 47 | 51.02301.6033 | 416 0041 10 |  |  | 643 3217 00 |
| H63 | 26 T | D2866 LF26-28/ 32/ 36<br>D2866 LF37/ 41/ 47 | 51.02301.6033 | 416 0041 10 |  |  | 643 3217 00 |

## Mercedes-Benz

| ACTROS |                                                                                              |                                                                                                                                                                                  |              |             |                                                 |                                                          |                                                                                              |
|--------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|-------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Actros | BM952...<br>BM954...<br>BM950...<br>BM953...<br>BM932...<br>BM934...<br>BM930...<br>BM933... | OM 541.920/921/922/923/924/925<br>OM 541.926/927<br>OM 541.940/941/942/943<br>OM 541.944/946/947/948/970/972/976<br>OM 542.920/921/922/925/940/941<br>OM 542.942/944/960/962/964 | 541 030 0105 | 416 0029 10 | 37 Nuten/ 37 grooves<br>37 rainures/ 37 ranuras | 412 0043 10<br>412 0042 10<br>412 0042 10<br>412 0042 10 | 640 3006 18 SA504682 03<br>643 3038 00 SA504682 07<br>643 3090 00<br>643 3214 00 SA504682 04 |

## ATEGO

|       |                                                          |                                                                                                                                              |              |                            |  |  |                                                                               |
|-------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|--|--|-------------------------------------------------------------------------------|
| Atego | BM970...<br>BM972...<br>BM975...<br>BM375...<br>BM976... | OM 900.911/912/913/917/918/919<br>OM 902.916/918<br>OM 904.909/910/911/915/916<br>OM 904.917/922<br>OM 906.910/911/915/916/922<br>OM 924.920 | 906 030 3205 | 416 0056 10<br>SA505009 18 |  |  | 636 3005 09 SA591098 01<br>640 3014 09 SA504672 03<br>640 3014 19 SA504672 04 |
| Atego | BM970...<br>BM972...<br>BM975...<br>BM976...<br>BM375... | OM 900.911/912/913/917/918/919<br>OM 902.916/918<br>OM 904.909/910/911/915/916<br>OM 904.917/922<br>OM 906.910/911/915/916<br>OM 924.920     | 906 030 2005 | 416 0061 10<br>SA505009 06 |  |  | 636 3005 09 SA504672 01<br>640 3014 09 SA504672 03<br>640 3014 19 SA504672 04 |
| ATEGO | BM970...<br>BM972...<br>BM975...<br>BM976...<br>BM375... | OM 900.911/912/913/917/918/919<br>OM 902.916/918<br>OM 904.909/910/911/915/916/917<br>OM 904.922<br>OM 906.910/911/915/916<br>OM 924.920     | 906 030 2105 | 416 0070 10<br>SA505009 03 |  |  | 636 3005 09 SA504672 01<br>640 3014 09 SA504672 03<br>640 3014 19 SA504672 04 |

## AXOR

|      |                                  |                        |              |                            |  |  |                                        |
|------|----------------------------------|------------------------|--------------|----------------------------|--|--|----------------------------------------|
| Axor | BM940...<br>BM943...<br>BM942... | OM 457.937/948/956/957 | 457 030 0605 | 416 0058 10<br>SA522019 03 |  |  | 643 3090 00<br>640 3006 18 SA504682 13 |
| Axor | BM944...                         | OM 457.937/948         | 457 030 0605 | 416 0058 10<br>SA522019 03 |  |  | 643 3090 00                            |

## LK / LN2

|                      |                                  |                                                                            |                              |                            |  |             |                                                           |
|----------------------|----------------------------------|----------------------------------------------------------------------------|------------------------------|----------------------------|--|-------------|-----------------------------------------------------------|
| LK / LN2             | BM318...                         | OM 353.904/965/982                                                         | 352 030 3905                 | 416 0012 10                |  |             | 628 1584 00<br>631 3039 00<br>631 3033 00                 |
| LK / LN2             | BM381...                         | OM 357.901/918<br>OM 366.936                                               | 352 030 3905                 | 416 0012 10                |  |             | 633 2928 00                                               |
| LK / LN2             | BM615...                         | OM 356.908<br>OM 366.913/936                                               | 352 030 3905                 | 416 0012 10                |  |             | 631 2873 00                                               |
| LK / LN2             | BM650...                         | OM 356.999<br>OM 357.646                                                   | 366 030 0905                 | 416 0018 10                |  | 412 0042 10 | 643 3020 00<br>638 3028 00                                |
| LK / LN2             | BM652...                         | OM 356.987<br>OM 357.925                                                   | 366 030 0905                 | 416 0018 10                |  |             | 635 2890 00                                               |
| LK / LN2<br>T2 / LN1 | BM669...<br>BM670...<br>BM672... | OM 354.901/902/903/923/924<br>OM 354.950/952/957/958<br>OM 364.980/981/986 | 403 030 1305<br>403 030 1605 | 416 0010 10                |  |             | 631 2898 00                                               |
| LK / LN2             | BM673...<br>BM674...             | OM 904.905/906                                                             | 906 030 3205                 | 416 0056 10<br>SA505009 18 |  |             | 636 3005 09<br>636 3005 00<br>636 3001 00 SA33628         |
| LK / LN2             | BM673...<br>BM674...             | OM 904.905/906                                                             | 906 030 2005                 | 416 0061 10<br>SA505009 06 |  |             | 636 3005 09<br>636 3005 00 SA33627<br>636 3001 00 SA33628 |
| LK / LN2             | BM673...<br>BM674...             | OM 904.905/906                                                             | 906 030 2105                 | 416 0070 10<br>SA505009 03 |  |             | 636 3005 09<br>636 3005 00 SA33627<br>636 3001 00 SA33628 |
| LK / LN2             | BM674...                         | OM 354.920/921/922                                                         | 403 030 1305<br>403 030 1605 | 416 0010 10                |  |             | 633 2903 00 SA24493 01/03                                 |

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
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## Mercedes-Benz

## LK / LN2

|          |                      |                                                                                                                                                                                                                                              |              |                            |  |  |                                                                                           |
|----------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|--|--|-------------------------------------------------------------------------------------------|
| LK / LN2 | BM674...             | OM 356.911<br>OM 366.905                                                                                                                                                                                                                     | 352 030 3905 | 416 0012 10                |  |  | 631 2873 00<br>635 2890 00 SA33607 01<br>633 2903 00 SA24493 01                           |
| LK / LN2 | BM674...             | OM 366.944/945                                                                                                                                                                                                                               | 352 030 7305 | 416 0013 10                |  |  | 631 2873 00<br>633 2903 00                                                                |
| LK / LN2 | BM674...<br>BM675... | OM 356.901/907/908/911/944<br>OM 366.905/933/936/940<br>OM 357.903/962                                                                                                                                                                       | 352 030 3905 | 416 0012 10                |  |  | 633 2903 00<br>635 2890 00 SA33607 01                                                     |
| LK / LN2 | BM675...             | OM 356.908<br>OM 366.913/936                                                                                                                                                                                                                 | 352 030 3905 | 416 0012 10                |  |  | 631 2873 00                                                                               |
| LK / LN2 | BM675...             | OM 356.903/904/909/910/916<br>OM 366.907/914/918/930/931/935/937                                                                                                                                                                             | 352 030 3905 | 416 0012 10                |  |  | 631 2873 00<br>633 2903 00 SA24493 01                                                     |
| LK / LN2 | BM675...             | OM 356.901/902/903/906/908<br>OM 366.905/906/907/910/918<br>OM 366.930/932/936/944                                                                                                                                                           | 352 030 3905 | 416 0012 10                |  |  | 631 2873 00<br>633 2903 00 SA24493 01                                                     |
| LK / LN2 | BM675...             | OM 356.901/902/903/906/908<br>OM 366.905/906/907/910/918<br>OM 366.930/932/936/944                                                                                                                                                           | 352 030 3905 | 416 0012 10                |  |  | 631 2873 00<br>633 2903 00 SA24493 01                                                     |
| LK / LN2 | BM675...             | OM 356.941/944/945/947/948<br>OM 356.951/953/959<br>OM 357.900/901/902/903/906/907<br>OM 357.908/909/910/916/917/918<br>OM 357.961/962<br>OM 366.941/942/943/944/946/953<br>OM 366.962/966/967/968/969<br>OM 366.970/973/974/975/976/978/979 | 352 030 3905 | 416 0012 10                |  |  | 633 2903 00<br>635 3020 00 SA24494 01<br>635 2894 00 SA24482 01                           |
| LK / LN2 | BM676...             | OM 356.979/995                                                                                                                                                                                                                               | 352 030 7305 | 416 0013 10                |  |  | 633 2903 00<br>635 2894 00 SA24482 01<br>635 3043 00 SA24482 01                           |
| LK / LN2 | BM676...             | OM 356.946<br>OM 357.919/963<br>OM 366.945                                                                                                                                                                                                   | 352 030 7305 | 416 0013 10                |  |  | 635 2894 00                                                                               |
| LK / LN2 | BM676...             | OM 356.953<br>OM 357.903<br>OM 366.979                                                                                                                                                                                                       | 352 030 3905 | 416 0012 10                |  |  | 635 2894 00                                                                               |
| LK / LN2 | BM676...             | OM 356.941/944/945/947/948<br>OM 356.951/953/959<br>OM 357.900/901/902/903/906/907<br>OM 357.908/909/910/916/917/918<br>OM 357.961/962<br>OM 366.941/942/943/944/946/953<br>OM 366.962/966/967/968/969<br>OM 366.970/973/974/975/976/978/979 | 352 030 3905 | 416 0012 10                |  |  | 633 2903 00<br>635 3020 00 SA24494 01<br>635 2894 00 SA24482 01                           |
| LK / LN2 | BM676...             | OM 357.901/918                                                                                                                                                                                                                               | 352 030 3905 | 416 0012 10                |  |  | 633 2903 00<br>635 2860 00 SA33607 01<br>635 2894 00 SA24482 01<br>635 3020 00 SA24494 01 |
| LK / LN2 | BM676...             | OM 904.907                                                                                                                                                                                                                                   | 906 030 2105 | 416 0070 10<br>SA505009 03 |  |  | 636 3005 09<br>636 3005 00                                                                |
| LK / LN2 | BM676...             | OM 904.907                                                                                                                                                                                                                                   | 906 030 3205 | 416 0056 10<br>SA505009 18 |  |  | 636 3005 09<br>636 3005 00                                                                |
| LK / LN2 | BM676...<br>BM677... | OM 904.907                                                                                                                                                                                                                                   | 906 030 2005 | 416 0061 10<br>SA505009 06 |  |  | 636 3005 09<br>636 3005 00                                                                |
| LK / LN2 | BM677...             | OM 356.994/995/996<br>OM 366.992                                                                                                                                                                                                             | 352 030 7305 | 416 0013 10                |  |  | 635 3020 00                                                                               |
| LK / LN2 | BM677...             | OM 356.983/999<br>OM 357.920/927/932<br>OM 357.922/930/940/941/947/948<br>OM 366.999                                                                                                                                                         | 366 030 0905 | 416 0018 10                |  |  | 635 3020 00<br>638 3068 00<br>638 3028 00                                                 |
| LK / LN2 | BM677...             | OM 356.979/986/989/990<br>OM 356.991/992/993<br>OM 357.929<br>OM 366.980/988/992/993<br>OM 366.995/997                                                                                                                                       | 352 030 7305 | 416 0013 10                |  |  | 635 3020 00<br>638 3068 00<br>638 3028 00                                                 |
| LK / LN2 | BM677...             | OM 356.979/983/993<br>OM 357.921/929/932/933/942/943/944<br>OM 366.993                                                                                                                                                                       | 366 030 0905 | 416 0018 10                |  |  | 635 3020 00<br>638 3068 00                                                                |
| LK / LN2 | BM677...             | OM 356.994/995/996<br>OM 366.992/966                                                                                                                                                                                                         | 352 030 7305 | 416 0013 10                |  |  | 635 3020 00                                                                               |
| LK / LN2 | BM677...             | OM 366.962/966                                                                                                                                                                                                                               | 352 030 3905 | 416 0012 10                |  |  | 635 3020 00                                                                               |

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| LK / LN2 |          |                                                                                                                                                                                                                                              |              |             |                                             |                                           |                                                                 |
|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|---------------------------------------------|-------------------------------------------|-----------------------------------------------------------------|
| LK / LN2 | BM677... | OM 366.988/992/995/997                                                                                                                                                                                                                       | 352 030 7305 | 416 0013 10 |                                             |                                           | 635 2890 00                                                     |
| LK / LN2 | BM678... | OM 356.941/944/945/947/948<br>OM 356.951/953/959<br>OM 357.900/901/902/903/906/907<br>OM 357.908/909/910/916/917/918<br>OM 357.961/962<br>OM 366.941/942/943/944/946/953<br>OM 366.962/966/967/968/969<br>OM 366.970/973/974/975/976/978/979 | 352 030 3905 | 416 0012 10 |                                             |                                           | 633 2903 00<br>635 3020 00 SA24494 01<br>635 2894 00 SA24482 01 |
| LK / LN2 | BM678... | OM 356.903/904/909/910/916<br>OM 366.907/914/918/930/931/935/937                                                                                                                                                                             | 352 030 3905 | 416 0012 10 |                                             |                                           | 631 2873 00<br>633 2903 00 SA24493 01                           |
| LK / LN2 | BM678... | OM 356.994/995/996<br>OM 366.992                                                                                                                                                                                                             | 352 030 7305 | 416 0013 10 |                                             |                                           | 635 3020 00                                                     |
| LK / LN2 | BM678... | OM 356.901/902/903/906/908<br>OM 366.905/906/907/910/918<br>OM 366.930/932/936/944                                                                                                                                                           | 352 030 3905 | 416 0012 10 |                                             |                                           | 631 2873 00<br>633 2903 00 SA24493 01                           |
| LK / LN2 | BM679... | OM 356.979/986/989/990<br>OM 356.991/992/993<br>OM 357.929                                                                                                                                                                                   | 352 030 7305 | 416 0013 10 |                                             |                                           | 635 3020 00<br>638 3068 00<br>638 3028 00                       |
|          |          | OM 366.980/988/992/993<br>OM 366.995/997                                                                                                                                                                                                     |              |             |                                             |                                           |                                                                 |
| LK / LN2 | BM679... | OM 356.983/999<br>OM 357.920/927/932<br>OM 357.922/930/940/941/947/948<br>OM 366.999                                                                                                                                                         | 366 030 0905 | 416 0018 10 |                                             |                                           | 635 3020 00<br>638 3068 00<br>638 3028 00                       |
| MK       |          |                                                                                                                                                                                                                                              |              |             |                                             |                                           |                                                                 |
| MK       | BM650... | OM 356.999                                                                                                                                                                                                                                   | 352 030 7305 | 416 0013 10 |                                             |                                           | 643 3020 00<br>638 3028 00                                      |
| MK       | BM650... | OM 445.933                                                                                                                                                                                                                                   | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0042 10                | 643 2897 00<br>643 2921 00                                      |
| MK       | BM650... | OM 401.973/975/977/978/979<br>OM 401.984/986/989<br>OM 442.907<br>OM 356.999<br>OM 402.987<br>OM 441.905/914/916/920/923/932                                                                                                                 | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 3020 00                                                     |
| MK       | BM650... | OM 441.989/993                                                                                                                                                                                                                               | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10                | 643 2897 00<br>643 2921 00<br>638 3048 09 SA32910 08            |
| MK       | BM650... | OM 441.905/913/914/915/916/917<br>OM 441.920/923/925/926/932/933                                                                                                                                                                             | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                               | 643 3020 00                                                     |
| MK       | BM650... | OM 442.922/923/926/932/932/933<br>OM 442.906/907/909/914/920<br>OM 441.960/989<br>OM 401.973/977/978/979/984/989                                                                                                                             | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 2921 00                                                     |
| MK       | BM650... | OM 445.920/921/923/925/929/930<br>OM 445.933/937<br>OM 401.972/973/979/993                                                                                                                                                                   | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0042 10<br>412 0043 10 | 643 2897 00<br>643 2921 00<br>638 3048 09 SA32910 08            |
| MK       | BM651... | OM 356.999                                                                                                                                                                                                                                   | 352 030 7305 | 416 0013 10 |                                             |                                           | 643 3020 00<br>638 3028 00                                      |
| MK       | BM651... | OM 356.984/987<br>OM 357.915                                                                                                                                                                                                                 | 352 030 7305 | 416 0013 10 |                                             |                                           | 635 2890 00                                                     |
| MK       | BM651... | OM 401.973/975/977/978/979<br>OM 401.984/986/989<br>OM 442.907<br>OM 356.999<br>OM 402.987<br>OM 441.905/914/916/920/923/932                                                                                                                 | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 3020 00                                                     |
| MK       | BM651... | OM 401.973/974/975/977/979/984/985<br>OM 401.991/994<br>OM 445.920/924/926/929/936/938<br>OM 445.941                                                                                                                                         | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 2918 00                                                     |
| MK       | BM651... | OM 442.914/921/932/934                                                                                                                                                                                                                       | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                               | 643 2921 00                                                     |
| MK       | BM651... | OM 357.915                                                                                                                                                                                                                                   | 352 030 7305 | 416 0013 10 |                                             |                                           | 635 3043 00                                                     |
| MK       | BM652... | OM 365.987<br>OM 356.940/984<br>OM 366.952                                                                                                                                                                                                   |              |             |                                             |                                           |                                                                 |
| MK       | BM651... | OM 441.905/913/914/915/916/917<br>OM 441.920/923/925/926/932/933                                                                                                                                                                             | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                               | 643 3020 00                                                     |

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
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| MK |                                  |                                                                                                                              |              |             |                                             |                                           |                                                         |
|----|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|---------------------------------------------|-------------------------------------------|---------------------------------------------------------|
| MK | BM652...                         | OM 356.999<br>OM 441.916/920/932                                                                                             | 352 030 7305 | 416 0013 10 |                                             |                                           | 643 3020 00                                             |
| MK | BM652...                         | OM 356.999<br>OM 401.973/975/977/978/979<br>OM 401.984/986/989<br>OM 402.987<br>OM 441.905/914/916/920/923/932<br>OM 442.907 | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 3020 00                                             |
| MK | BM652...                         | OM 445.926                                                                                                                   | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 3230 00                                             |
| MK | BM652...                         | OM 401.973/977/978/979/984/989<br>OM 441.960/989<br>OM 442.906/907/909/914/920<br>OM 442.922/923/926/932/932/933             | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 2921 00                                             |
| MK | BM652...                         | OM 445.920/921/923/925/929/930<br>OM 445.933/937<br>OM 401.972/973/979/993                                                   | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0042 10<br>412 0043 10 | 643 2897 00<br>643 2921 00<br>638 3048 09 SA32910 08    |
| MK | BM652...                         | OM 445.920/921/923/925/929/930<br>OM 445.933/937<br>OM 401.972/973/979/993                                                   | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0042 10<br>412 0043 10 | 643 2897 00<br>643 2921 00<br>638 3048 09 SA32910 08    |
| MK | BM652...                         | OM 440.909                                                                                                                   | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                               | 643 2921 00                                             |
| MK | BM652...                         | OM 441.905/923/960/981/986/989                                                                                               | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 3020 00                                             |
| MK | BM652...                         | OM 441.960/962/981/983/986/989<br>OM 445.920/939                                                                             | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                               | 643 2897 00<br>643 2921 00                              |
| MK | BM652...                         | OM 441.960                                                                                                                   | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                               | 643 2921 00                                             |
| MK | BM652...                         | OM 442.906/907/909/914/922/923/932                                                                                           | 447 030 1805 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 2921 00                                             |
| MK | BM652...                         | OM 442.906/907/914/922/923<br>OM 442.932/935                                                                                 | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                               | 643 2921 00                                             |
| MK | BM652...                         | OM 445.926                                                                                                                   | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 3230 00                                             |
| MK | BM652...<br>BM653...             | OM 441.905/912/920/923/924                                                                                                   | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                               | 643 3020 00                                             |
| MK | BM652...<br>BM653...<br>BM654... | OM 401.973/974/975/977/979/984/985<br>OM 401.991/994<br>OM 445.920/924/926/929/936/938<br>OM 445.941                         | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 2918 00                                             |
| MK | BM652...<br>BM653...<br>BM654... | OM 401.972/973/977/975/978/979<br>OM 401.980/989/991/993<br>OM 445.920/924/926/927/929<br>OM 445.936/937/940                 | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                | 643 2918 00<br>638 3048 09 SA32910 08                   |
| MK | BM652...<br>BM654...             | OM 442.907/914                                                                                                               | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                               | 643 3020 00                                             |
| MK | BM652...<br>BM653...<br>BM654... | OM 441.960/962/981/983<br>OM 441.986/987/989/991<br>OM 445.920/939                                                           | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10                | 643 2897 00<br>638 3048 09 SA32910 01/06                |
| MK | BM652...<br>BM654...             | OM 441.960<br>OM 442.914/922/932                                                                                             | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10                | 643 2921 00<br>638 3048 09 SA32910 01/06                |
| MK | BM652...<br>BM653...             | OM 356.984/987<br>OM 357.915                                                                                                 | 352 030 7305 | 416 0013 10 |                                             |                                           | 635 2890 00                                             |
| MK | BM653...                         | OM 442.914/921/932/934                                                                                                       | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                               | 643 2921 00                                             |
| MK | BM653...                         | OM 441.923/960/981                                                                                                           | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10                | 643 2897 00<br>643 3020 00<br>638 3048 09 SA32910 01/06 |
| MK | BM653...<br>BM654...             | OM 401.973/977/978/979/984/989<br>OM 441.960/989<br>OM 442.906/907/909/914/920<br>OM 442.922/923/926/932/932/933             | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 2921 00                                             |
| MK | BM653...<br>BM654...             | OM 401.973/975/977/979                                                                                                       | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                | 643 3020 00<br>643 2918 00<br>638 3048 09 SA32910 08    |
| MK | BM653...<br>BM654...<br>BM652... | OM 441.986/987/989/991<br>OM 445.920/921/922/929<br>OM 401.972/979/993                                                       | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                | 643 2897 00<br>638 3048 09 SA32910 08                   |

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### MK

|    |                                  |                                                                                                                              |              |             |                                             |             |             |
|----|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|---------------------------------------------|-------------|-------------|
| MK | BM653...<br>BM654...<br>BM652... | OM 401.973/975/977/978/979<br>OM 401.984/986/989<br>OM 442.907<br>OM 356.999<br>OM 402.987<br>OM 441.905/914/916/920/923/932 | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10 | 643 3020 00 |
|----|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|---------------------------------------------|-------------|-------------|

### NG

|    |                                              |                                                                |                              |             |                                             |                                           |                                                          |
|----|----------------------------------------------|----------------------------------------------------------------|------------------------------|-------------|---------------------------------------------|-------------------------------------------|----------------------------------------------------------|
| NG | BM380...<br>BM381...<br>BM383...<br>BM385... | OM 353.943/944/945/946/964                                     | 352 030 3905                 | 416 0012 10 |                                             |                                           | 631 3033 00                                              |
| NG | BM380...<br>BM381...<br>BM383...<br>BM385... | OM 353.950/951/952/953/954<br>OM 353.970/971/975               | 352 030 3905                 | 416 0012 10 |                                             |                                           | 633 2928 00                                              |
| NG | BM383...<br>BM385...                         | OM 402.910/911/919/923/927/928                                 | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10                               | 638 2966 00                                              |
| NG | BM385...                                     | OM 353.944/946                                                 | 352 030 3905                 | 416 0012 10 |                                             |                                           | 631 3039 00<br>631 3033 00                               |
| NG | BM387...<br>BM389...                         | OM 402.906/912/916/926                                         | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10                               | 638 2966 00                                              |
| NG | BM387...<br>BM389...<br>BM391...<br>BM393... | OM 403.916/931/932/935                                         | 403 030 1405                 | 416 0007 10 |                                             | 412 0042 10                               | 642 3054 00                                              |
| NG | BM393...                                     | OM 402.912/916/924                                             | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10                               | 638 2966 00                                              |
| NG | BM391...<br>BM395...                         | OM 402.906/912/916/926                                         | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10                               | 638 2966 00                                              |
| NG | BM395...                                     | OM 403.916/931/932/935                                         | 403 030 1405                 | 416 0007 10 |                                             | 412 0042 10                               | 642 3054 00                                              |
| NG | BM615...                                     | OM 366.960                                                     | 352 030 3905                 | 416 0012 10 |                                             |                                           | 633 2903 00                                              |
| NG | BM615...                                     | OM 442.907                                                     | 442 030 0205                 | 416 0011 10 |                                             | 412 0042 10                               | 642 3050 00 SA25019 11                                   |
| NG | BM615...                                     | OM 421.906<br>OM 422.913                                       | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0043 10<br>412 0042 10                | 638 2966 00<br>642 2895 00                               |
| NG | BM615...                                     | OM 422.923                                                     | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10                               | 638 2966 00<br>638 3025 00<br>642 2895 00                |
| NG | BM615...                                     | OM 422.913                                                     | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0042 10                | 642 3050 00<br>638 3025 00                               |
| NG | BM615...                                     | OM 441.905/914/917/919<br>OM 422.907/913<br>OM 421.905/906/909 | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0043 10<br>412 0042 10<br>412 0042 10 | 638 2966 00<br>642 2925 00<br>638 3069 00                |
| NG | BM616...                                     | OM 366.906                                                     | 352 030 3905                 | 416 0012 10 |                                             |                                           | 631 3045 00                                              |
| NG | BM616...<br>BM617...                         | OM 421.905/906/909<br>OM 422.907/913<br>OM 441.905/914/917/919 | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0043 10<br>412 0042 10<br>412 0042 10 | 638 2966 00<br>642 2925 00<br>638 3069 00                |
| NG | BM616...<br>BM617...                         | OM 366.906/909                                                 | 352 030 3905                 | 416 0012 10 |                                             |                                           | 631 2873 00                                              |
| NG | BM616...<br>BM617...                         | OM 366.951/952/983<br>OM 362.906/909                           | 352 030 7305                 | 416 0013 10 |                                             |                                           | 635 2894 00<br>635 3020 00                               |
| NG | BM616...<br>BM617...<br>BM619...             | OM 422.909/912                                                 | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10                               | 638 2927 00<br>638 3025 00<br>642 3054 00<br>642 3050 00 |
| NG | BM617...                                     | OM 441.906/907                                                 | 403 030 1405                 | 416 0007 10 |                                             | 412 0042 10                               | 638 2966 00<br>638 3069 00<br>642 2925 00                |
| NG | BM619...                                     | OM 422.909/912                                                 | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10                               | 638 2927 00<br>638 3025 00<br>642 3054 00<br>642 3050 00 |
| NG | BM619...                                     | OM 366.951/952/983<br>OM 362.906/909                           | 352 030 7305                 | 416 0013 10 |                                             |                                           | 635 2894 00<br>635 3020 00                               |
| NG | BM619...                                     | OM 441.905/914/917/919<br>OM 422.907/913<br>OM 421.905/906/909 | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0043 10<br>412 0042 10<br>412 0042 10 | 638 2966 00<br>642 2925 00<br>638 3069 00                |
| NG | BM620...                                     | OM 422.905/906/911                                             | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                | 642 3054 00<br>638 3002 00                               |

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## Mercedes-Benz

| NG |                                                                      |                                                                                                                                          |                              |             |                                             |                                                          |                                                                                      |
|----|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------|---------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------|
| NG | BM620...                                                             | OM 422.952/954/956/957/958<br>OM 423.905/906/907/908<br>OM 442.950/952                                                                   | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                                              | 642 3028 00                                                                          |
| NG | BM620...<br>BM621...                                                 | OM 422.953/955/959                                                                                                                       | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10                                              | 638 3002 00                                                                          |
| NG | BM621...                                                             | OM 421.905/906/909<br>OM 422.907/913<br>OM 441.905/914/917/919                                                                           | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0043 10<br>412 0042 10<br>412 0042 10                | 638 2966 00<br>642 2925 00<br>638 3069 00                                            |
| NG | BM621...                                                             | OM 422.907/911/913/916                                                                                                                   | 442 030 1905                 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                               | 642 3054 00<br>642 3050 00<br>638 3002 00 SA32370 04                                 |
| NG | BM621...                                                             | OM 423.905/907<br>OM 442.950/952/962                                                                                                     | 422 030 0505                 | 416 0028 10 |                                             | 412 0042 10<br>412 0043 10                               | 642 3028 00<br>638 3002 00 SA32370 01                                                |
| NG | BM621...                                                             | OM 442.906/907                                                                                                                           | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0043 10                                              | 638 3002 00                                                                          |
| NG | BM621...<br>BM620...<br>BM622...<br>BM623...<br>BM624...<br>BM625... | OM 422.905/906/907/906/910/911<br>OM 422.913/914/916/919/920/921                                                                         | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                                              | 642 3054 00                                                                          |
| NG | BM621...<br>BM622...<br>BM623...<br>BM624...                         | OM 422.952/954/956/957/958<br>OM 423.905/906/907/908<br>OM 442.950/952                                                                   | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                                              | 642 3028 00                                                                          |
| NG | BM621...<br>BM623...<br>BM624...                                     | OM 422.905/907/911/913/916/919<br>OM 421.905/907<br>OM 441.906                                                                           | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                                              | 642 3054 00<br>642 3050 00                                                           |
| NG | BM623...<br>BM624...                                                 | OM 422.953/955/959                                                                                                                       | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10                                              | 638 3002 00                                                                          |
| NG | BM624...                                                             | OM 442.950/952                                                                                                                           | 422 030 0505                 | 416 0028 10 |                                             | 412 0042 10                                              | 642 3054 00                                                                          |
| NG | BM624...                                                             | OM 442.950                                                                                                                               | 422 030 0505                 | 416 0028 10 |                                             | 412 0043 10                                              | 638 3002 00<br>638 2961 00 SA32370 06                                                |
| NG | BM625...                                                             | OM 442.950/952/959                                                                                                                       | 422 030 0505                 | 416 0028 10 |                                             | 412 0042 10<br>412 0043 10                               | 643 2917 00<br>638 3048 09 SA32910 01                                                |
| NG | BM625...                                                             | OM 442.920/959                                                                                                                           | 442 030 0205                 | 416 0011 10 |                                             | 412 0042 10                                              | 642 3054 00                                                                          |
| NG | BM646...<br>BM645...                                                 | OM 442.951/953/980                                                                                                                       | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10                                              | 638 3002 00                                                                          |
| NG | BM645...<br>BM646...<br>BM647...<br>BM648...<br>BM649...             | OM 442.950/952/958/962                                                                                                                   | 422 030 0505                 | 416 0028 10 |                                             | 412 0043 10                                              | 638 2961 00                                                                          |
| NG | BM645...<br>BM646...<br>BM648...<br>BM649...                         | OM 442.951/953/980                                                                                                                       | 422 030 0505                 | 416 0028 10 |                                             | 412 0043 10                                              | 638 3001 00                                                                          |
| NG | BM655...<br>BM656...                                                 | OM 441.989<br>OM 443.940                                                                                                                 | 422 030 0505                 | 416 0028 10 |                                             | 412 0042 10                                              | 643 2921 00                                                                          |
| NG | BM658...                                                             | OM 442.944                                                                                                                               | 442 030 1905                 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                               | 643 2917 00<br>638 3048 09 SA32910 01                                                |
| SK |                                                                      |                                                                                                                                          |                              |             |                                             |                                                          |                                                                                      |
| SK | BM625...                                                             | OM 441.982/985                                                                                                                           | 442 030 0205                 | 416 0011 10 |                                             | 412 0042 10                                              | 643 2897 00                                                                          |
| SK | BM625...                                                             | OM 440.975/982/983<br>OM 442.989                                                                                                         | 442 030 0205                 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10<br>412 0043 10                | 643 2917 00<br>638 3048 09 SA32910 01/06<br>643 3015 00 SA33613                      |
| SK | BM625...                                                             | OM 440.979<br>OM 441.986/988/990/992/993/998                                                                                             | 442 030 0205                 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10                               | 643 2897 00<br>638 3048 09 SA32910 01/06                                             |
| SK | BM625...                                                             | OM 440.970/971/973/978<br>OM 440.979/980/981/982/983/984/985<br>OM 440.990/991<br>OM 442.971/985/989/992/997                             | 442 030 0205                 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10<br>412 0043 10<br>412 0043 10 | 643 2917 00<br>643 3015 00<br>640 3005 00 SA32903 01/12<br>638 3048 09 SA32910 01/06 |
| SK | BM625...                                                             | OM 401.972/979/981/986/987/993<br>OM 402.978/996<br>OM 440.982<br>OM 441.986/996/998<br>OM 445.920/922/929/930/931/937/939<br>OM 446.927 | 442 030 1905                 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                               | 643 2897 00<br>638 3048 09 SA32910 01                                                |

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| SK |                      |                                                                                                                                                                                                                                                                                                                              |               |             |                                             |                                                          |                                                                                      |
|----|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|---------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------|
| SK | BM655...             | OM 401.972/979/981/986/987/993<br>OM 402.978/996<br>OM 440.982<br>OM 441.986/996/998<br>OM 445.920/922/929/930/931/937/939<br>OM 446.927                                                                                                                                                                                     | 442 030 1905  | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                               | 643 2897 00<br>638 3048 09 SA32910 01                                                |
| SK | BM655...             | OM 402.971/972/973/975/977/978<br>OM 402.982/983/985/986/987/989<br>OM 402.990/996<br>OM 423.905/907<br>OM 440.970/971/973/975/976/978/979<br>OM 440.980/981/982/984/985/987/990<br>OM 442.944/963/976/989/993/997<br>OM 446.920/922/924/925/926/927/928<br>OM 446.929/930/931/933/936/939/940<br>OM 446.942/943/945/946/948 | 442 030 1905  | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10<br>412 0043 10                | 643 2917 00<br>643 3015 00<br>638 3048 09 SA32910 01<br>640 3005 00                  |
| SK | BM655...             | OM 402.971/972/973/975/977/978<br>OM 402.982/983/985/986/987/989<br>OM 402.990/996<br>OM 423.905/907<br>OM 440.970/971/973/975/976/978/979<br>OM 440.980/981/982/984/985/987/990<br>OM 442.944/963/976/989/993/997<br>OM 446.920/922/924/925/926/927/928<br>OM 446.929/930/931/933/936/939/940<br>OM 446.942/943/945/946/948 | 442 030 1905  | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10<br>412 0043 10                | 643 2917 00<br>643 3015 00<br>638 3048 09 SA32910 01<br>640 3005 00                  |
| SK | BM655...             | OM 440.979<br>OM 441.986/988/990/992/993/998                                                                                                                                                                                                                                                                                 | A442 030 0205 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10                               | 643 2897 00<br>638 3048 09 SA32910 01/06                                             |
| SK | BM655...             | OM 440.970/973<br>OM 442.944/964/966/976/985<br>OM 442.989/997/998                                                                                                                                                                                                                                                           | 442 030 0205  | 416 0011 10 |                                             | 412 0043 10<br>412 0042 10<br>412 0043 10                | 640 3005 00<br>643 3015 00<br>638 3048 09 SA32910 01                                 |
| SK | BM655...             | OM 440.940<br>OM 442.906/943/944/963/964<br>OM 442.965/968/976/977                                                                                                                                                                                                                                                           | 442 030 0205  | 416 0011 10 |                                             | 412 0042 10                                              | 643 2917 00                                                                          |
| SK | BM655...             | OM 440.970/971/973<br>OM 442.984/985/989/992/997/998<br>OM 446.920/922                                                                                                                                                                                                                                                       | 442 030 1905  | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                               | 643 3015 00 SA32903 12<br>640 3005 00                                                |
| SK | BM655...             | OM 440.940<br>OM 442.943/944/963/964/965<br>OM 442.944/963/964/976                                                                                                                                                                                                                                                           | 442 030 0205  | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10<br>412 0043 10                | 643 2917 00<br>638 2961 00 SA32911 01<br>638 3048 09 SA32910 01/06                   |
| SK | BM655...<br>BM656... | OM 440.970/971/973/978<br>OM 440.979/980/981/982/983/984/985<br>OM 440.990/991<br>OM 442.971/985/989/992/997                                                                                                                                                                                                                 | 442 030 0205  | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10<br>412 0043 10<br>412 0043 10 | 643 2917 00<br>643 3015 00<br>640 3005 00 SA32903 01/12<br>638 3048 09 SA32910 01/06 |
| SK | BM656...             | OM 441.905/914/923/926                                                                                                                                                                                                                                                                                                       | 442 030 0205  | 416 0011 10 |                                             | 412 0042 10                                              | 643 3020 00                                                                          |
| SK | BM655...             | OM 441.986/989<br>OM 442.906/907/908/916/923/925                                                                                                                                                                                                                                                                             | 442 030 1905  | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                                              | 643 2921 00                                                                          |
| SK | BM655...             | OM 441.986/996<br>OM 445.920/939                                                                                                                                                                                                                                                                                             | 442 030 0205  | 416 0011 10 |                                             | 412 0042 10                                              | 643 2897 00<br>643 2917 00                                                           |
| SK | BM655...             | OM 442.906/907/908/923/925/926<br>OM 442.942/966                                                                                                                                                                                                                                                                             | 442 030 0205  | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10                               | 643 2921 00<br>643 2917 00<br>638 3048 09 SA32910 01/06                              |
| SK | BM656...             | OM 401.975/984/989<br>OM 445.924/925/933                                                                                                                                                                                                                                                                                     | 442 030 1905  | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                               | 643 2918 00<br>638 3048 09 SA32910 06                                                |
| SK | BM656...             | OM 401.972/979/981/986/987/993<br>OM 402.978/996<br>OM 440.982<br>OM 441.986/996/998<br>OM 445.920/922/929/930/931/937/939<br>OM 446.927                                                                                                                                                                                     | 442 030 1905  | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                               | 643 2897 00<br>638 3048 09 SA32910 01                                                |
| SK | BM656...             | OM 402.971/972/973/975/977/978<br>OM 402.982/983/985/986/987/989<br>OM 402.990/996<br>OM 423.905/907<br>OM 440.970/971/973/975/976/978/979<br>OM 440.980/981/982/984/985/987/990<br>OM 442.944/963/976/989/993/997<br>OM 446.920/922/924/925/926/927/928<br>OM 446.929/930/931/933/936/939/940<br>OM 446.942/943/945/946/948 | 442 030 1905  | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10<br>412 0043 10                | 643 2917 00<br>643 3015 00<br>638 3048 09 SA32910 01<br>640 3005 00                  |

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
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| SK |                      |                                                                                                                                                                                                                                                                                                                              |              |             |                                             |                                                                         |                                                                                               |
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| SK | BM656...             | OM 440.970/971/973<br>OM 442.984/985/989/992/997/998<br>OM 446.920/922                                                                                                                                                                                                                                                       | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                                              | 643 3015 00 SA32903 12<br>640 3005 00                                                         |
| SK | BM656...             | OM 441.905/923                                                                                                                                                                                                                                                                                                               | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                                                             | 643 3020 00                                                                                   |
| SK | BM656...             | OM 441.986/989<br>OM 442.906/907/908/916/923/925<br>OM 442.989/997                                                                                                                                                                                                                                                           | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                                                             | 643 2921 00                                                                                   |
| SK | BM656...             | OM 442.908/909                                                                                                                                                                                                                                                                                                               | 447 030 1805 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                                              | 643 2921 00<br>638 3048 09 SA32910 01                                                         |
| SK | BM656...             | OM 442.944/963/976/989/997                                                                                                                                                                                                                                                                                                   | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                                                             | 643 2917 00                                                                                   |
| SK | BM656...             | OM 440.940<br>OM 442.906/943/944/963/964<br>OM 442.965/968/976/977                                                                                                                                                                                                                                                           | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                                                             | 643 2917 00                                                                                   |
| SK | BM657...             | OM 440.970/971/973<br>OM 442.984/985/989/992/997/998<br>OM 446.920/922                                                                                                                                                                                                                                                       | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                                              | 643 3015 00 SA32903 12<br>640 3005 00                                                         |
| SK | BM657...             | OM 440.970/978/981                                                                                                                                                                                                                                                                                                           | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10                                              | 643 2917 00<br>643 3015 00<br>640 3005 00 SA32903 01/12                                       |
| SK | BM657...             | OM 440.940<br>OM 442.906/943/944/963/964<br>OM 442.965/968/976/977                                                                                                                                                                                                                                                           | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                                                             | 643 2917 00                                                                                   |
| SK | BM657...             | OM 446.920/922/924/925/926/927/928<br>OM 446.929/930/931/933/936/939/940<br>OM 446.942/943/945/946/948<br>OM 402.971/972/973/975/977/978<br>OM 402.982/983/985/986/987/989<br>OM 402.990/996<br>OM 440.970/971/973/975/976/978/979<br>OM 440.980/981/982/984/985/987/990<br>OM 423.905/907<br>OM 442.944/963/976/989/993/997 | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10<br>412 0043 10                               | 643 2917 00<br>643 3015 00<br>638 3048 09 SA32910 01<br>640 3005 00                           |
| SK | BM658...             | OM 440.970/978/981                                                                                                                                                                                                                                                                                                           | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10                                              | 643 2917 00<br>643 3015 00<br>640 3005 00 SA32903 01/12                                       |
| SK | BM658...             | OM 402.971/972/973/975/977/978<br>OM 402.982/983/985/986/987/989<br>OM 402.990/996<br>OM 423.905/907<br>OM 440.970/971/973/975/976/978/979<br>OM 440.980/981/982/984/985/987/990<br>OM 442.944/963/976/989/993/997<br>OM 446.920/922/924/925/926/927/928<br>OM 446.929/930/931/933/936/939/940<br>OM 446.942/943/945/946/948 | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10<br>412 0043 10                               | 643 2917 00<br>643 3015 00<br>638 3048 09 SA32910 01<br>640 3005 00                           |
| SK | BM658...             | OM 440.970/971/973<br>OM 442.984/985/989/992/997/998<br>OM 446.920/922                                                                                                                                                                                                                                                       | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                                              | 643 3015 00 SA32903 12<br>640 3005 00                                                         |
| SK | BM658...             | OM 440.940<br>OM 442.906/943/944/963/964<br>OM 442.965/968/976/977                                                                                                                                                                                                                                                           | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10                                                             | 643 2917 00                                                                                   |
| SK | BM658...             | OM 440.940<br>OM 442.943/944/963/964/965<br>OM 442.944/963/964/976                                                                                                                                                                                                                                                           | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10<br>412 0043 10                               | 643 2917 00<br>638 2961 00 SA32911 01<br>638 3048 09 SA32910 01/06                            |
| SK | BM658...             | OM 442.944/963/976/989/997                                                                                                                                                                                                                                                                                                   | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                                                             | 643 2917 00<br>643 3015 00 SA33617 01                                                         |
| SK | BM658...<br>BM659... | OM 440.970/973<br>OM 442.944/964/966/976/985<br>OM 442.989/997/998                                                                                                                                                                                                                                                           | 442 030 0205 | 416 0011 10 |                                             | 412 0043 10<br>412 0042 10<br>412 0043 10                               | 640 3005 00<br>643 3015 00<br>638 3048 09 SA32910 01                                          |
| SK | BM658...<br>BM659... | OM 442.903/923/989/994/997                                                                                                                                                                                                                                                                                                   | 442 030 0205 | 416 0011 10 |                                             | 412 0043 10<br>412 0042 10<br>412 0043 10<br>412 0042 10<br>412 0043 10 | 640 3005 00<br>643 3015 00<br>638 3048 09 SA32910 01<br>643 2917 00<br>638 2961 00 SA32911 01 |

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| SK |                      |                                                                                                                                                                                                                                                                                                                              |              |             |                                             |                                           |                                                                     |
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| SK | BM658...<br>BM659... | OM 440.940/970/973<br>OM 441.998<br>OM 445.929<br>OM 442.942/944/959/963/964/966<br>OM 442.976/989/994/997                                                                                                                                                                                                                   | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10<br>412 0043 10 | 643 2917 00<br>638 3048 09 SA32910 01<br>638 2961 09 SA32911 01     |
| SK | BM658...<br>BM659... | OM 442.906/907/908/916/923/925<br>OM 442.989/997<br>OM 441.986/989                                                                                                                                                                                                                                                           | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 2921 00                                                         |
| SK | BM659...             | OM 401.972/979/981/986/987/993<br>OM 402.978/996<br>OM 440.982<br>OM 441.986/996/998<br>OM 445.920/922/929/930/931/937/939<br>OM 446.927                                                                                                                                                                                     | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                | 643 2897 00<br>638 3048 09 SA32910 01                               |
| SK | BM659...             | OM 401.979<br>OM 402.982<br>OM 441.998<br>OM 442.906/90/925/942/966<br>OM 445.920/929/930/931                                                                                                                                                                                                                                | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10                | 643 2921 00<br>638 3048 09 SA32910 01                               |
| SK | BM659...             | OM 402.971/972/973/975/977/978<br>OM 402.982/983/985/986/987/989<br>OM 402.990/996<br>OM 423.905/907<br>OM 440.970/971/973/975/976/978/979<br>OM 440.980/981/982/984/985/987/990<br>OM 442.944/963/976/989/993/997<br>OM 446.920/922/924/925/926/927/928<br>OM 446.929/930/931/933/936/939/940<br>OM 446.942/943/945/946/948 | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10<br>412 0043 10<br>412 0043 10 | 643 2917 00<br>643 3015 00<br>638 3048 09 SA32910 01<br>640 3005 00 |
| SK | BM659...             | OM 440.979<br>OM 441.986/988/990/992/993/998                                                                                                                                                                                                                                                                                 | 442 030 0205 | 416 0011 10 |                                             | 412 0042 10<br>412 0043 10                | 643 2897 00<br>638 3048 09 SA32910 01/06                            |
| SK | BM659...             | OM 440.970/973<br>OM 442.944/964/966/976/985<br>OM 442.989/997/998                                                                                                                                                                                                                                                           | 442 030 0205 | 416 0011 10 |                                             | 412 0043 10<br>412 0042 10<br>412 0043 10 | 640 3005 00<br>643 3015 00<br>638 3048 09 SA32910 01                |
| SK | BM659...             | OM 442.944/963/976/989/997                                                                                                                                                                                                                                                                                                   | 442 030 1905 | 416 0022 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10                               | 643 2917 00<br>643 3015 00 SA33617 01                               |

## VARIO

|       |                                  |                |              |                            |  |  |                            |
|-------|----------------------------------|----------------|--------------|----------------------------|--|--|----------------------------|
| Vario | BM668...<br>BM670...<br>BM669... | OM 904.908     | 906 030 3205 | 416 0056 10<br>SA505009 18 |  |  | 636 3001 00<br>636 3005 09 |
| Vario | BM668...<br>BM670...<br>BM669... | OM 904.908/923 | 906 030 2005 | 416 0061 10<br>SA505009 06 |  |  | 636 3001 00<br>636 3005 09 |

## Unimog

|        |                                                          |                                                                                      |              |                            |                                             |  |                                                  |
|--------|----------------------------------------------------------|--------------------------------------------------------------------------------------|--------------|----------------------------|---------------------------------------------|--|--------------------------------------------------|
| Unimog | BM403...<br>BM406...<br>BM413...<br>BM416...<br>BM417... | OM 314.917<br>OM 352.903<br>OM 353.901/902/940/980                                   | 352 030 3905 | 416 0012 10                |                                             |  | 628 1403 09 SA35814 05<br>628 1404 09 SA35814 18 |
| Unimog | BM424...<br>BM425...<br>BM435...<br>BM436...             | OM 353.940/958/961/962/973<br>OM 353.980/995                                         | 352 030 3905 | 416 0012 10                |                                             |  | 633 1401 09 SA35741 03                           |
| Unimog | BM405...                                                 | OM 904.927/928                                                                       | 906 030 2105 | 416 0070 10<br>SA505009 03 |                                             |  | 636 3014 09                                      |
| Unimog | BM405...                                                 | OM 904.927/928                                                                       | 906 030 3205 | 416 0056 10<br>SA505009 18 |                                             |  | 636 3014 09                                      |
| Unimog | BM427...                                                 | OM 366.947/948/955/956<br>OM 357.912                                                 | 352 030 7305 | 416 0013 10                |                                             |  | 633 1407 09 SA35741 11<br>635 1402 09 SA35741 13 |
| Unimog | BM437...<br>BM427...                                     | OM 356.956/957/980/981/997/998<br>OM 357.913/924/945<br>OM 366.963/984<br>OM 382.950 | 352 030 7305 | 416 0013 10                |                                             |  | 635 1402 09 SA35741 13                           |
| Unimog | BM427...                                                 | OM 356.956<br>OM 366.949                                                             | 352 030 7305 | 416 0013 10                |                                             |  | 633 1407 09 SA35741 12<br>635 1402 09 SA35741 13 |
| Unimog | BM427...                                                 | OM 356.956<br>OM 357.913<br>OM 366.948                                               | 447 030 1805 | 416 0023 10                | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras |  | 633 1407 09<br>635 1402 09 SA35741 13            |

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
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## Mercedes-Benz

## Unimog

|        |          |                    |              |             |  |  |                         |
|--------|----------|--------------------|--------------|-------------|--|--|-------------------------|
| Unimog | BM442... | OM 353.949/957/976 | 352 030 7305 | 416 0013 10 |  |  | 633 1401 09 SAT35741 03 |
|        | BM443... | OM 366.954/958/977 |              |             |  |  | 635 1402 09 SAT35741 07 |

## MB-Trac

|         |                      |                                  |              |             |  |  |                            |
|---------|----------------------|----------------------------------|--------------|-------------|--|--|----------------------------|
| MB-Trac | BM440...             | OM 314.956/957<br>OM 364.908/909 | 352 030 3905 | 416 0012 10 |  |  | 630 1397 09                |
| MB-Trac | BM442...<br>BM443... | OM 353.949/957/976               | 352 030 3905 | 416 0012 10 |  |  | 633 1401 09<br>635 1402 09 |

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## MAN

### BUSE BUSES BUS AUTOBUSES

|     |                   |                                                   |               |             |                                             |             |             |
|-----|-------------------|---------------------------------------------------|---------------|-------------|---------------------------------------------|-------------|-------------|
| 474 | 22/ 24.330-420    | D2866 LOH 20-26/ 30/ 31                           | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10 | 643 3218 00 |
| A03 | Lions Star        | D2866 LOH 20-26/ 30/ 31                           | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10 | 643 3218 00 |
| A03 | FRH 322/ 352/ 402 |                                                   |               |             |                                             |             |             |
| A03 | FRH 422/ 462      |                                                   |               |             |                                             |             |             |
| A13 | Lions Coach       | D2866 LOH 20-26/ 30/ 31                           | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10 | 643 3219 00 |
| A13 | RH 352/ 402/ 422  |                                                   |               |             |                                             |             |             |
| A51 | 18.310/ 350/ 370  | D2866 LOH 20-26/ 30/ 31                           | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10 | 643 3218 00 |
| A51 | 18.400/ 420/ 460  | D2866 LOH27_29/ 32/ 33<br>D2866 LOH34/ 35/ 37/ 38 | 51.02301.6033 | 416 0041 10 |                                             |             |             |
| A55 | 18310             | D2866 LOH 20-26/ 30/ 31                           | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10 | 643 3233 00 |
| A82 | 18.310/ 350/ 360  | D2866 LOH 20-26/ 30/ 31                           | 51.02301.7440 | 416 0031 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0040 10 | 643 3218 00 |
| A82 | 18.400/ 410       |                                                   |               |             |                                             |             |             |

## Mercedes-Benz

### BUSE BUSES BUS AUTOBUSES

|       |                      |                              |                              |             |                                             |             |                            |
|-------|----------------------|------------------------------|------------------------------|-------------|---------------------------------------------|-------------|----------------------------|
| O 301 | BM697...             | OM 366.917                   | 352 030 3905                 | 416 0012 10 |                                             |             | 631 2873 00                |
| O 301 | BM697...             | OM 366.917/965               | 352 030 3905                 | 416 0012 10 |                                             |             | 633 2903 00                |
| O 303 | BM301...             | OM 403.918                   | 403 030 1405                 | 416 0007 10 |                                             | 412 0042 10 | 642 3055 00                |
| O 303 | BM600...             | OM 442.910/911/918/919/939   | 442 030 0205                 | 416 0011 10 |                                             | 412 0042 10 | 643 2921 00                |
| O 303 | BM600...             | OM 441.908/909               | 442 030 0205                 | 416 0011 10 |                                             | 412 0042 10 | 643 3020 00                |
| O 303 | BM300...             | OM 421.951<br>OM 422.908/917 | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10 | 642 3051 00                |
| O 303 | BM300...             | OM 422.951/963               | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10 | 642 3031 00<br>642 3026 00 |
| O 303 | BM300...<br>BM600... | OM 421.908                   | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10 | 643 3020 00                |
| O 307 | BM307...             | OM 407.915/916/918           | 447 030 1805                 | 416 0023 10 | 6 Nuten/ 6 grooves<br>6 rainures/ 6 ranuras | 412 0042 10 | 642 3109 00                |
| O 307 | BM307...             | OM 407.905                   | 403 030 1305<br>403 030 1605 | 416 0008 10 |                                             | 412 0042 10 | 642 3109 00                |
| O 340 | BM600...             | OM 441.994/995               | 442 030 0205                 | 416 0011 10 |                                             | 412 0042 10 | 643 2918 00                |
| O 404 | BM356...             | OM 442.930/931               | 442 030 0205                 | 416 0011 10 |                                             | 412 0042 10 | 643 2921 00                |