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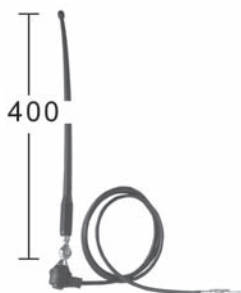
## ABBREVIATIONS:

**A**=Assortment, **AC**=Air Condition, **Alu**=Aluminium, **Amp.**=Ampere, **AT**=Automatic Transmission, **Cat.**=Catalyzer, **Cyl.**=Cylinder, **CW**=Clockwise rotation, **Eur.**=European application, **FWD.**=Front Wheel Drive, **H**=Height, **HD**=Heavy Duty construction, **HP**=Horse Power, **I.D.**=Inner Diameter, **kW.**=Kilowatt, **L.**=Length, **LHD**=Left Hand Drive, **LL.**=Lead Length, **M**=Minimum supply, **MT**=Manual Transmission, **Mtr.**=Metre, **O.D.**=Outer Diameter, **O.E.**=Original Equipment, **PS**=Power Steering, **RHD**=Right Hand Drive, **Th.**=Thickness, **V.**=Volt, **W/**=With, **W/o**=Without, **W.**=Width, **4WD.**=Four Wheel Drive, **N**=New Number.

Care is taken to ensure the accuracy of descriptions and applications of each item, but  assumes no responsibility for possible errors. O.E.M. names and numbers are used for reference purposes only.

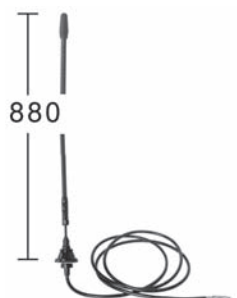
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## Aerials



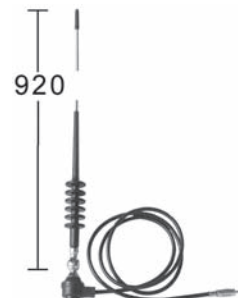
### 040077

400 mm.  
Black plastic-rubber. Removable mast.  
8 mm. hole. 0 - 180° angle.  
150 Ohm. 1.2 mtr. cable.



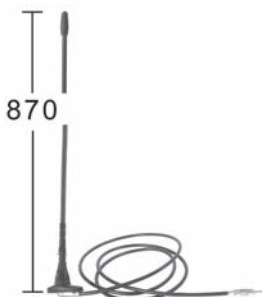
### 040182

880 mm.  
Black fibre glass. Removable mast.  
18 mm. hole. 0 - 45° angle.  
75 Ohm. 1.6 mtr. cable.



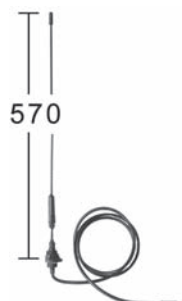
### 040178

920 mm. extended. 2 sections.  
Stainless steel.  
Black base, w/ dummy spring.  
8 mm. hole. 180° angle.  
150 Ohm. 1.2 mtr. cable.



### 040179

870 mm.  
Black fibre glass. Removable mast.  
13 mm. hole. 0 - 45° angle.  
130 Ohm. 1.6 mtr. cable.



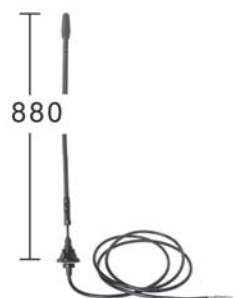
### 040190

570 mm.  
Black fibre glass. Removable mast.  
18 mm. hole. 0 - 45° angle.  
150 Ohm. 1.3 mtr. cable.



### 040183

900 mm. extended. 4 sections.  
W/ lock. Stainless steel.  
18 mm. hole. 0 - 45° angle.  
Base 34 mm. 150 Ohm. 1.2 mtr. cable.



### 040181

880 mm.  
Black fibre glass. Removable mast.  
18 mm. hole. 0 - 45° angle.  
130 Ohm. 1.6 mtr. cable.



### 040177

960 mm. extended. 2 sections.  
Stainless steel, w/ spring.  
8 mm. hole. 0 - 90° angle.  
150 Ohm. 2.1 mtr. cable.



### 040185

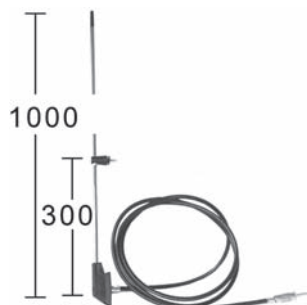
900 mm. extended. 4 sections.  
W/ lock. Black stainless steel.  
18 mm. hole. 0 - 45° angle.  
Base 28 mm. 150 Ohm. 1.2 mtr. cable.

## Aerials



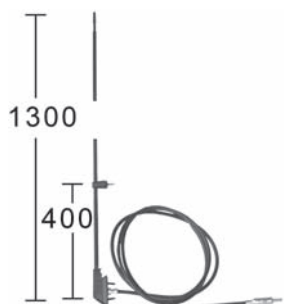
### 040186

900 mm. extended. 4 sections.  
W/ lock. Stainless steel.  
15 mm. hole. 0 - 21° angle.  
150 Ohm. 1.4 mtr. cable.



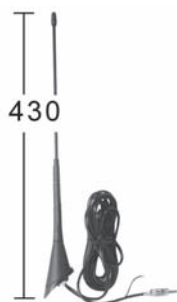
### 040180

Universal.  
1000 mm. extended. 3 sections.  
Stainless steel.  
Pillar mounting. 12 mm. hole.  
150 Ohm. 1.5 mtr. cable.



### 040191

Universal.  
1300 mm. extended. 3 sections.  
Black stainless steel.  
Pillar mounting. 12 mm. hole.  
150 Ohm. 1.5 mtr. cable.



### 040198

16 V. roof type.  
430 mm.  
14 mm. hole. 53° angle.  
4.5 mtr. cable, amplified model.  
Base 55 x 35 mm.

## Aerial Extension Leads



### 040018

L. 60 cm.

### 040019

L. 90 cm.

### 040192

L. 200 cm.

### 040094

L. 350 cm.

### 040020

L. 400 cm.

## Aerials

### Aerial Plugs & Sockets



**040095** Std pkg 10  
Female.



**040096** Std pkg 10  
Male.



**040199**  
Aerial plug, new standard (ISO).



**040200** Std pkg 10  
Adaptor, new to old plug (ISO>DIN).



**040201**  
Adaptor, old to new plug (DIN>ISO).



**040206**  
Adaptor cable DIN-ISO.



**040207**  
Adaptor cable Fakra-DIN.



**040208**  
Adaptor cable Fakra-ISO.

## Radio Accessories

### Loudspeakers In Cabinet



W/ grille

**040202**  
1" dome tweeter.  
28 mm.  
Impedance 4 Ohm.  
Max. power 110 Watt.  
W/ crossover network.  
Supplied in pairs.



**040196**  
Bass reflex.  
Impedance 4 Ohm.  
Dim: 320 x 138 x 183 mm.  
Max. power 150 Watt.  
Supplied in pairs.



**040197**  
Impedance 4 Ohm.  
Dim: 97 x 95 x 95 mm.  
Max. power 20/40 Watt.  
Supplied with mounting bracket.  
Supplied in pairs.



**040205**  
2-way asymmetric.  
Dim.: 205 x 98 x 108 mm.  
Impedance 4 Ohm.  
Max. power 70/120 Watt.  
Supplied in pairs.

**Cross reference list page 117**

## Radio Accessories

### Built-In



W/ grille

**040203**

4x6". 2-way.  
Dim.: 100 x 150 mm.  
Impedance 4 Ohm.  
Max. power 260 Watt.  
Supplied in pairs.



50 mm



W/ grille

**040193**

4" double cone.  
100 mm.  
Impedance 4 Ohm.  
Max. power 150 Watt.  
Supplied in pairs.



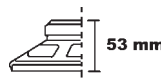
50 mm



W/ grille

**040194**

5" double cone.  
131 mm.  
Impedance 4 Ohm.  
Max. power 25/50 Watt.  
Supplied in pairs.



53 mm



W/ grille

**040204**

6". 2-way.  
162 mm.  
Impedance 4 Ohm.  
Max. power 300 Watt.  
Supplied in pairs.



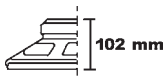
60 mm



W/ grille

**040195**

6 x 9" 4-ways.  
Impedance 4 Ohm.  
Dim.: 241 x 170 x 102 mm.  
Max. power 350 Watt.  
Supplied in pairs.



102 mm

### Loudspeaker Terminals



**040097** Std pkg 10

Angle terminal.  
DIN plug.

**Cross reference list page 117**

## Radio Accessories

### Capacitors For Car Radios



**150100** Std pkg 10  
Interference capacitor.  
2.2  $\mu$ F.  
Universal.  
Cable L. 100 mm.



**150101** Std pkg 10  
Interference capacitor.  
2.2  $\mu$ F.  
Universal w/ angled terminal.  
Cable L. 80 mm.



**150407** Std pkg 10  
Interference capacitor.  
2.2  $\mu$ F.  
Universal w/ angled terminal.  
Cable L. 40 mm.



**150408** Std pkg 10  
Interference capacitor.  
2.2  $\mu$ F.  
Universal w/ ring terminal.  
Cable L. 100 mm.

### Radio Mounting Kits Universal



**040088**  
For integral front.  
Universal snap-in for old 3-hole car radio.



**040170**  
Galvanized. W/ gasket.  
For integral front.

### Radio Boxes Universal



**040149**  
Black acryl.  
For integral front.



## CCTV Rear Observation System



### 160607

#### 5.5" Black and White Rear Observation System.

Includes:

- 5.5" CRT Black/White Monitor 12-24 V.
- Built-in loudspeaker. (Cargo 160665).
- Normal image / Mirror image select switch on monitor.
- Connection for extra camera.

Black/White Camera (Cargo 160774)

- Built-in microphone.
- Waterproof.
- Low light sensitivity - 0.1LUX for night vision.
- Wide view angle, 130° diagonal.

Connection cable (Cargo 160611)

- 20 mtr. (6pin Mini DIN)

Mounting parts & Users Manual.



### 160775

#### 7" TFT/LCD Colour Rear Vision Observation System.

Includes:

- 7" TFT/LCD Monitor (Cargo 160776).
- High quality 7" TFT/LCD (16:9) Monitor w/ On Screen Display (OSD)
- Support 4 CCD inputs.
- Support split picture (double and quad).
- Provide 2 video signal output (live and quad).
- Quad signal output can be recorded via Mobile-DVR.
- Provide designated picture when pressing "Jump" key.
- User friendly OSD control by encoder switch.
- Individually adjusted CCD mirror function through OSD.
- Provide distance gauge when shifting to reverse gear.
- Support DVD, VCD or game station connecting to AV.
- Auto turn On via trigger cable to reverse, camera 1 and 2.
- Auto NTSC/PAL detection.
- Power source 12/24 V.

Colour camera (Cargo 160609)

- Waterproof aluminium housing for protection against foul weather, shock and vibration.
- Wide view angle, 150° diagonal.
- Infrared LED's for night vision.
- Built-in microphone.
- Protection degree: IP 67.

Connection cable (Cargo 160611)

- 20 mtr. (6pin Mini DIN).

Mounting parts & User Manual.



### 160605 LHD

### 160606 RHD

#### Multimedia Rear View Mirror System - Model S12R/L.

Includes:

Rear view mirror

- 4" TFT/LCD built-in (Right/Left side) colour monitor
- Built-in loudspeaker.
- Anti-glare optical multi-layer blue glass.

Colour camera (Cargo 160609).

Switch box 12/24 V.

- W/ connections for DVD/VCD/GPS.
- Mobile phone hand free function.

Connection cable (Cargo 160612).

- 15 mtr. (6pin Mini DIN).

Mounting parts & Users Manual.



## CCTV Rear Observation System



### 160662 LHD

### 160664 RHD

#### Multimedia Rear View Mirror System - Model S12R/L

Includes:

- 4" TFT/LCD built-in (Right/Left side) colour monitor.
- Built-in loudspeaker.
- Anti-glare optical multi-layer blue glass.

Colour camera (Bumper fit) (Cargo 160610)

- Aluminium w/original anodised finish and anti-fog glass.
- 30 mm. (O.D.) x 65 mm. (L), 200 g.
- Wide view angle, 110° diagonal.
- Sensitivity < 1 LUX.
- W/ mirror function (on camera).
- Protection degree: IP 68.
- Connection: 6pin Mini DIN.

Switch box 12/24 V.

- W/ connections for DVD/VCD/GPS.
- Mobile phone hand free function.

Connection cable (Cargo 160612).

- 15 mtr. (6pin Mini DIN)

Mounting parts & User Manual

### Spare Parts



### 160776

#### High quality 7" TFT/LCD (16:9) monitor.

- Built-in controlbox.
- Standard monitor in kit Cargo 160775.



### 160665

#### 5.5" CRT B/W monitor.

- Built-in loudspeaker.
- Free voltage 12 V. - 24 V.
- Connection for 2 cameras.

Standard monitor in kit Cargo 160607.



### 160609

**Colour camera** cased in waterproof aluminium housing for protection against foul weather and shock/vibration.

- Wide view angle, 150° diagonal.
- Infrared LED's for night vision.
- Built-in microphone.
- Connection: 6pin Mini DIN.
- Protection degree: IP67.

Standard camera in following kits:

Cargo 160602, -604, -605, -606 and -775.



### 160610

**Colour camera** (Bumper fit, Build-in)

- Aluminium w/original anodised finish and anti-fog glass.
- 30 mm. (O.D.) x 65 mm. (L), 200g
- Wide view angle, 110° diagonal.
- Sensitivity < 1 LUX.
- W/ mirror function (on camera)
- Protection degree: IP 68.
- Connection: 6pin Mini DIN.

Standard camera in following kits:  
Cargo 160662, -664.



### 160774

**Black/White Camera.**

- Waterproof
- Built-in microphone
- Wide view angle, 130° diagonal.
- Low light sensitivity - 0.1LUX for night vision.
- Connection: 6pin Mini DIN.

Standard camera in kit Cargo 160607.

## CCTV Rear Observation System

## Accessories

**170942**

Magnet w/ metalbase for cameras.  
O.D. 75 mm.

**160603**

6pin Mini DIN to RCA.  
**Connection** used for connecting extra  
camera to switchbox.  
For Cargo 160602.



**Extension cables** (6pin Mini DIN)  
For following kits: Cargo 160602, -604,  
-605, -606, -607 and -775.

**160672**

6 mtr.

**160613**

10 mtr.

**160612**

15 mtr.

**160611**

20 mtr.

**160663**

Trailer cable kit.  
3.5 mtr. coiled cable (extended length).  
0.5 mtr. cable connection to monitor.  
0.5 mtr. cable connection to camera.  
(6pin Mini DIN).  
Used w/ Cargo 160602, -604, -604, -606,  
-607 and -775.

## Spare Parts for Cargo 160663

**181459**

Socket.  
Die cast aluminium.  
Screw terminals.

**181460**

Plug.  
Die cast aluminium.  
Screw terminals.

## Accessories for Cargo 160602



Used for switching between cameras.

**180206** Std pkg 10

12 V. 16 Amp.

On / off.

4 terminals.

W/ location and function light.

Fixing hole 22.1 x 44.1 mm.

Supplied w/o symbol plate.

**180207** Std pkg 10

As Cargo 180206, but  
24 V. 8 Amp.



Symbol plates for  
Cargo 180206 and 180207

Std pkg 10

**181462** Green.**181463** Red.**181464** Camera.

## Voyager CCTV Rear Observation System

### Heavy duty



#### 160567

Heavy duty observation system w/ high resolution.  
6.8" LCD flat screen colour monitor with dual camera input.  
Waterproof 1/3" CCD high resolution colour camera w/ wide viewing angle and microphone.  
Night and day mode.  
15 mtr. extension cable.  
Only 12 V. system, for 24 V. use converter Cargo 160387.

4" mounting bracket for LCD flat screen: Cargo 160568.

Incl installation instruction and mounting hardware.

### Spare Parts



#### 160576

6.8" colour monitor 12 V.  
Heavy duty monitor, build in speaker.  
Water / UV resistant housing.  
Dual camera input.  
Brightness / Contrast / Day-Night / Volume Control.



#### 160575

High resolution 1/3" colour camera.  
Lightweight aluminium die cast body.  
Waterproof.  
W/ microphone.  
Superior low-light performance.  
(Night vision).

### Accessories



#### 160577

4 camera switchbox, incl. keypad.  
For black/white and colour.



#### 160568

4" mounting bracket for LCD flat screen.



Screened camera to trailer cable w/ connector.

**160572** . B/W monitor to camera 7.7 mtr.

**160525** . B/W monitor to camera 20 mtr.

**160552** . extension cable ..... 7.7 mtr.

**160573** . extension cable ..... 15 mtr.

**160574** . extension cable ..... 23 mtr.



#### 160657

4pin Mini DIN connector to RCA.  
Makes it possible to connect a video, CD player or playstation to a Voyager system.



#### 160526

Trailer cables.  
Waterproof.  
6 mtr. to monitor, 14 mtr. to camera and 2 mtr. coiled cable. (Not extended).

## Dashboard Gauges

**160695**

Voltmeter 8-16 V.  
O.D. 52 mm.  
Black bezel and white figures.  
Clamp mount.

**160696**

Voltmeter 16-32 V.  
O.D. 52 mm.  
Black bezel and white figures.  
Clamp mount.

**160697**

Ammeter.  
O.D. 52 mm.  
30-0-30.  
Black bezel and white figures.  
Clamp mount.

**160698**

Ammeter.  
O.D. 52 mm.  
60-0-60.  
Black bezel and white figures.  
Clamp mount.

**160699**

Electrical water temperature gauge and sender.  
Dashboard gauge O.D. 52 mm.  
Black bezel and white figures.  
Clamp mount.  
Sender 1/8" NPTF.

**160700**

12 V. Electrical oil pressure gauge and sender.  
Dashboard gauge O.D. 52 mm.  
Black bezel and white figures.  
Clamp mount.  
Sender 1/8" NPTF.

**160701**

12 V. fuel gauge and sender.  
Dashboard gauge O.D. 52 mm.  
Black bezel and white figures.  
Clamp mount.

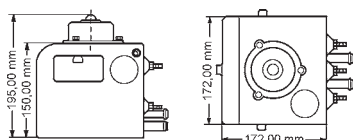
**160702**

12-28 V. hourmeter.  
O.D. 52 mm.  
Black bezel and white figures.  
Clamp mount.

**160703**

Mechanical turbo boost gauge.  
O.D. 52 mm.  
Black bezel and white figures.  
Clamp mount.

## Cabin Heaters



Complete including mounting kit  
w/ tube connection and switch.

### 060210

**Replacing** Heat-On 1531-5012.  
12 V. 6.0 kW.  
Air flow 360 m<sup>3</sup>/h.  
Water connection O.D. 16 mm.

### 060211

**Replacing** Heat-On 1531-5024.  
24 V. 6.0 kW.  
Air flow 360 m<sup>3</sup>/h.  
Water connection O.D. 16 mm.



### 060216

The heater has three 75 mm. tube connections on the air inlet side.  
There are also three 75 mm. tube connections on the outlet side.  
The water connections can be placed on either side of the heater and also be turned  
towards either the inlet or the outlet side.

**Replacing** Heat-On 3055-12.

#### Technical data:

Speed .....	1	2	3
Heating capacity / kW at 100° C TD. .	7.2	9.3	12.2
Air flow / m <sup>3</sup> / h. ....	264	357	504
Sound level / dB(A). ....	51	55	64
Power consumption / W. ....	60	77	114
Voltage / V. ....	12		
Water connection / O.D. / mm. ....	16		
Radiator .....	Copper / Brass		
Cabinet .....	Stainless steel		
Weight / kg. ....	6.3		

### 060220

**Replacing** Heat-On 3055-24.  
As Cargo 060216, but  
24 Volt.



## Cabin Heaters



### 060221

This heater is characterized by its compact modern design, the very low sound level, and the very low weight.

This versatile heater can be used in all kinds of vehicles, e.g. as auxiliary heater in buses, ambulances and vans.

**Replacing** Heat-On 640 Mojave.

#### Technical data:

12 V. (24 V. on request).

Speed .....	1	2	3
Heating capacity / kW at 100° C TD. . .	2.8	3.9	4.5
Air flow / m <sup>3</sup> / h. ....	118	194	238
Sound level / dB(A). ....	42	52	58
Power consumption / W. ....	75		
Water connection / O.D. / mm. ....	16		
Radiator .....	Copper / Aluminium		
Cabinet .....	ABS		
Dimensions .....	227 x 254 x 126 mm.		
Weight / kg. ....	2.5		

Mounting kit with wiring, switch and fuse is included.



### 060222

This cab heater is easily installed in small off road vehicles or as auxiliary heater in buses and delivery vans.

The heating cycle is controlled by means of the built-in 1/4-turn water valve and the built-in switch.

**Replacing** Heat-On 1331-12.

#### Technical data:

12 V.

Speed .....	1
Heating capacity / kW at 100° C TD. . .	1.9
Air flow / m <sup>3</sup> / h. ....	76
Sound level / dB(A). ....	63
Power consumption / W. ....	24
Water connection / O.D. / mm. ....	12
Radiator .....	Copper / Brass
Cabinet .....	Zinc plated steel w/ black polyester enamel.
Dimensions .....	267 x 106 x 135 mm.
Weight / kg. ....	3.0



### 060223

This very powerful cab heater is used for airrecirculation, and has all connections behind a cover allowing hoses and cables to be led in any direction.

It has a powerful fan (230 W.) controlled by means of a built-in 3-step switch.

The heating cycle is controlled by means of a built-in 1/4-turn water valve. Efficient distribution of the air through the adjustable air vents provides for demisting of the cab screens w/o the use of extra tubes and nozzels.

**Replacing** Heat-On 2100-12.

#### Technical data:

12 V.

Speed .....	1	2	3
Heating capacity / kW at 100° C TD. . .	4.3	6.3	9.2
Air flow / m <sup>3</sup> / h. ....	180	288	468
Sound level / dB(A). ....	48	53	64
Power consumption / W. ....	230		
Water connection / O.D. / mm. ....	16		
Radiator .....	Copper / Brass		
Cabinet .....	Zinc plated steel w/ black polyester enamel.		
Dimensions .....	310 x 210 x 130 mm.		
Weight / kg. ....	5.8		

### 060233

**Replacing** Heat-On 2100-24.

As Cargo 060223, but  
24 Volt.



## Cabin Heaters

### Spare Parts



#### 060215

**Replacing** Heat-On 1531-10.  
**Servicing** Cargo 060210 and 060211.  
Fan.

### Accessories



#### 060058

**Replacing** Heat-On 1518.  
Defroster-set for Cargo 060210 and 060211.

Contains:  
2 demist nozzels.  
2 rubber elbows.  
160 cm. tube. Hose I.D. 45 mm.



#### 060217

**Replacing** Heat-On 3050-20.  
**Servicing** Cargo 060216.  
Air inlet kit.

Contains:  
1 air return grill.  
1 inlet plate.  
3 tube connectors.  
310 cm. tube. Hose I.D. 75 mm.



#### 060218

**Replacing** Heat-On 3055-20.  
**Servicing** Cargo 060216.  
Air inlet kit for recirculation.

Contains:  
1 air return grill.  
2 connector plates.  
2 tube connectors.  
1 round air vent.  
620 cm. tube. Hose I.D. 75 mm.



#### 060219

**Replacing** Heat-On 3050-30.  
**Servicing** Cargo 060216.  
Air distribution kit.

Contains:  
3 round air vents.  
620 cm. tube. Hose I.D. 75 mm.



#### 060228

**Replacing** Heat-On 66221.  
Air vent.  
Built-in.  
O.D.: 101 mm.



#### 060229

**Replacing** Heat-On 66231.  
Air vent.  
O.D.: 101 mm.  
Hose I.D.: 70/76 mm.



#### 060230

**Replacing** Heat-On 62769.  
Air vent.  
Built-in.  
O.D.: 86 mm.



#### 060231

**Replacing** Heat-On 1418-4.  
Air vent.  
Built-in.  
O.D.: 68 mm.



#### 060232

**Replacing** Heat-On 64750.  
Long air vent.  
Dim.: 200 x 40 mm.

## Cabin Heaters

**060008**

**Replacing** Heat-On 1350-7.  
Tube connection.  
For 16 mm. heating tube I.D.

**060224**

**Replacing** Heat-On 1350-2.  
Hose connector.  
16 mm. hose connectors.

**060225**

**Replacing** Heat-On 1350-3.  
Water valve.  
12 mm. hose connectors.  
L.: 85 mm.

**060226**

**Replacing** Heat-On 1350-6.  
Water valve 3/8".  
16 mm. hose connectors.  
W/ fitting 3/8" BSP.

**060227**

**Replacing** Heat-On 1350-8.  
Water valve 1/4 turn.  
16 mm. hose connectors.  
L.: 112 mm.

**070192**

**Replacing** VW 251 965 561 B.  
Circulation Pump.  
For hose I.D. 20 mm. in and outlet.  
12 V.

## Heater Motors

**060213**

**Replacing** Heat-On 1531M-5012.  
**Servicing** Cargo 060210.  
12 V. 50 Watt.  
Shaft 6.35 x16 mm. (1/4").  
O.D. 70 mm. L. 63 mm.  
3 hole fixing.  
Two speed.

**060059**

**Replacing** Heat-On 1531M-2412.  
12 V. 24 Watt.  
Shaft 6.35 x16 mm. (1/4").  
O.D. 70 mm. L. 63 mm.  
3 hole fixing.  
Single speed.

**060214**

**Replacing** Heat-On 1531M-5024.  
**Servicing** Cargo 060211.  
24 V. 50 Watt.  
Shaft 6.35 x16 mm. (1/4").  
O.D. 70 mm. L. 63 mm.  
3 hole fixing.  
Single speed.

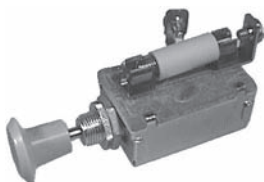
## Cabin Heaters



### 060060

**Replacing** Heat-On 1531M-2424.  
24 V. 24 Watt.  
Shaft 6.35 x 16 mm. (1/4").  
O.D. 70 mm. L. 63 mm.  
3 hole fixing.  
Single speed.

## Blower Switches



### 180125

White knob. 12 / 24 V.  
W/ resistor.  
0 - 1 - 2.  
2 screw terminals.  
Fixing hole 10.5 mm.

## Brushes for Electrical Power Steering



### 141083

Set of 4 pcs.  
**Servicing** Renault, Peugeot, Citroën.  
12.2 x 7.1 x 21.2 mm.

## Brushes for Heater Motors



### 140164

Std pkg 10 **A**  
**Servicing** Bosch, Webasto.  
8 x 10 x 19.5 mm.



### H5-6

Std pkg 10 **A**  
**Servicing** Lucas, Smith.  
6 x 6 x 11.6 mm.



### H26

Std pkg 10 **A**  
**Servicing** Webasto.  
6 x 9 x 16.5 mm.



### H54

Std pkg 10 **A**  
**Replacing** EP533BOS.  
**Servicing** Boi-Wo, Heat-on.  
5 x 6.3 x 10 mm.



### H56

Std pkg 10 **A**  
**Servicing** Elektrolux.  
5 x 6 x 13 mm.



### H106

Std pkg 10 **A**  
**Replacing** 00-14-16-31.  
**Servicing** AVOG.  
8 x 12 x 20 mm.



### PL5

Std pkg 10 **A**  
8 x 8 x 21 mm.

## Electrical Fuel Pumps

### Pressure Conversion Table

Bar	PSI	Column Fuel	Column Diesel
0.50 .....	7.2 .....	6.7 mtr. ....	5.6 mtr.
0.45 .....	6.4 .....	6.0 mtr. ....	5.0 mtr.
0.40 .....	5.7 .....	5.4 mtr. ....	4.5 mtr.
0.35 .....	5.0 .....	4.7 mtr. ....	3.9 mtr.
0.30 .....	4.3 .....	4.0 mtr. ....	3.4 mtr.
0.25 .....	3.6 .....	3.3 mtr. ....	2.8 mtr.
0.20 .....	2.9 .....	2.7 mtr. ....	2.2 mtr.
0.15 .....	2.2 .....	2.0 mtr. ....	1.7 mtr.
0.10 .....	1.4 .....	1.3 mtr. ....	1.1 mtr.
0.05 .....	0.7 .....	0.7 mtr. ....	0.6 mtr.

### Suction Pumps

To be mounted in engine compartment.  
The pump is self-priming and stops when no fuel demand exists.  
W/ electronic contacts.  
Fitting instruction included.



#### 070019

Universal, 12 V.

Inlet / outlet:  
**2 screw terminals R-1/4" at an angle of 60°.**

Fuel delivery capacity:  
**Max. 120 Litre/h.**

Pressure head:  
**Max. 0.10 bar = 1.3 mtr.**

Suction head:  
**Max. 0.20 bar = 2.7 mtr.**

**Servicing** Bobcat etc.



#### 070021

Universal, 12 V.

Inlet / outlet:  
**2 tube terminals O.D. 8 mm. swivelling approx 220°.**

Fuel delivery capacity:  
**Max. 120 Litre/h.**

Pressure head:  
**Max. 0.10 bar = 1.3 mtr.**

Suction head:  
**Max. 0.20 bar = 2.7 mtr.**

W/ waterproof electrical connections.  
VW approved for oil drain on marine engines.



#### 070184

Universal, 12 V.

Inlet / outlet:  
**2 tube terminals O.D. 8 mm. swivelling approx 220°.**

Fuel delivery capacity:  
**Max. 120 Litre/h.**

Pressure head:  
**Max. 0.10 bar = 1.3 mtr.**

Suction head:  
**Max. 0.20 bar = 2.7 mtr.**

## Electrical Fuel Pumps

### Pressure Pumps

To be mounted near the tank.  
The pump is self-priming and stops when no fuel demand exists.  
W/ electronic contacts.  
Fitting instruction included.



#### 070032

Universal. 12 V.

Inlet / outlet:  
**2 tube terminals O.D. 8 mm. swivelling approx 220°.**

Fuel delivery capacity:  
**Max. 120 Litre/h.**

Pressure head:  
**Max. 0.25 bar = 3.3 mtr.**

Suction head:  
**Max. 0.10 bar = 1.3 mtr.**

#### 070078

Universal. 12 V.

Inlet / outlet:  
**2 tube terminals O.D. 8 mm. swivelling approx 220°.**

Fuel delivery capacity:  
**Max. 125 Litre/h.**

Pressure head:  
**Max. 0.35 bar = 4.7 mtr .**

Suction head:  
**Max. 0.12 bar = 1.5 mtr.**

#### 070107

Universal. 24 V.

Inlet / outlet:  
**2 tube terminals O.D. 8 mm. swivelling approx 220°.**

Fuel delivery capacity:  
**Max. 125 Litre/h.**

Pressure head:  
**Max. 0.35 bar = 4.7 mtr.**

Suction head:  
**Max. 0.12 bar = 1.5 mtr.**



#### 070143

**Servicing** Thermo King, Carrier.

Universal. 12 V.

Inlet / outlet:  
**2 tube terminals O.D. 1/8 NPSF in and outlet.**

Fuel delivery capacity:  
**Max. 155 Litre/h.**

Pressure head:  
**Max. 0.7 bar = 7.3 mtr.**

Suction head:  
**Max. 0.12 bar = 1.5 mtr.**

#### Accessories for Cargo 070143



#### 070183

**Replacing** Thermo King 10-262.  
Filter kit.



#### 070161

12 V. 1.4-5.7 Psi. (0.1-0.4 kg.)

Inlet / outlet: 8 mm. hose connection.

Fuel delivery capacity: **80-150 Litre/h.**

**Hose Nipples  
see page 34**

## Electrical Fuel Pumps



### Interrupter Pumps

Universal

**Built in Pressure Relief:** assures an immediate return to zero pressure when the ignition is turned off.

Prevents flooding and assures satisfactory restarting on the hottest days.

Vertical mounting near tank is preferred.

The pumps are self priming.

To 1.1 mtr. fuel lift.

Inlet / outlet 1/8"-27 thread

Included Hose nipples Cargo 070009

Fitting instruction included.

Fuel delivery capacity:

**113.5 Litre/h.**

Tested at:

**+60° C.**

If higher fuel deliveries are required, two or more pumps can be manifolded in series and/or parallel hook-ups.



#### 070003

Universal.

12 V. 4-5 Psi.

#### 070004

Universal.

24 V. 4-5 Psi.

#### 070058

**Servicing** Thermo King etc.

12 V. 7-9.5 Psi.

#### 070169

Universal.

12 V. Max. 7.5 Psi.

Inlet / outlet 1/8"-27 thread.



#### 070176

Universal, high performance.

12 V.

Red dot marked.

Fuel delivery capacity: **173 Litre/h.**



#### 070134

**Servicing** New Holland.

Universal.

12 V.

Inlet / outlet 3/4" thread.

### Accessories



#### 070177

Filter.

**Servicing** 070003, 070004, 070058, 070134, 070169, 070176.



#### 070076

**Servicing** Refrigeration units etc.

12 V. 8.5-12.5 Psi. (0.6 - 0.9 kg.)

W/ integral filter.

Fuel delivery capacity: **94 Litre/h.**



### Solid State Pumps

Universal.

**Built in Pressure Relief:** assures an immediate return to zero pressure, when the ignition is turned off. Prevents flooding and assures satisfactory restarting on the hottest days.

For cars w/ fuel-pressure. Not injection.

To be mounted near the tank.

The solid state pump is self priming to 30 cm. fuel lift.

Inlet / outlet 1/8"-27 thread

Included Hose nipples Cargo 070009

W/ electronic contacts.

Fitting instruction included.



#### 070056

**Servicing** Caterpillar, IH/Case etc.

24 V. 4½-6 Psi. (0.3 - 0.45 kg.)

Fuel delivery capacity: **113.5 Litre/h.**

#### 070057

**Servicing** Thermo King etc.

12 V. 10 Psi. (0.7 kg.)

Fuel delivery capacity: **30 Litre/h.**



**Electrical Fuel Pumps**



**Fuel Pumps Posi-Flo**

(Solid state pumps).  
Universal.

**Built in Pressure Relief:** assures an immediate return to zero pressure, when the ignition is turned off. Prevents flooding and assures satisfactory restarting on the hottest days.

For cars w/ fuel-pressure. Not injection.  
To be mounted near the tank.

The solid state pump is self priming to 30 cm. fuel lift.

W/ electronic contacts.

Fitting instruction included.



**070187**

12 V. 1.5-4 Psi. (0.1 - 0.3 kg).

Inlet / outlet 1/8"-27 thread

Fuel delivery capacity: **95 Litre/h.**

Included Hose nipples Cargo 070009



**070188**

12 V. 4-7 Psi. (0.3 - 0.5 kg).

Inlet / outlet 1/8"-27 thread

Fuel delivery capacity: **132 Litre/h.**

Included Hose nipples Cargo 070009



**070189**

12 V. 1.5-4 Psi. (0.1 - 0.3 kg).

Inlet / outlet 8 mm hose I.D.

Fuel delivery capacity: **95 Litre/h.**



**070190**

12 V. 4-7 Psi. (0.3 - 0.5 kg).

Inlet / outlet 8 mm hose I.D.

Fuel delivery capacity: **132 Litre/h.**



**070191**

12 V. 7-10 Psi. (0.5-0.7 kg).

Inlet / outlet 8 mm hose I.D.

Fuel delivery capacity: **139 Litre/h.**



**Hose Nipples  
see page 34**

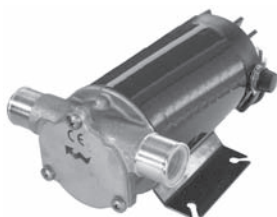
## Electrical Water Pumps



### 070192

Circulation Pump.

**Replacing** VW 251 965 561 B.  
For hose I.D. 20 mm. in and outlet.  
12 V.



Self-priming electric water pump w/ self-lubricating flexible impeller for prolonged service life and better performance. Pump body made of brass w/ stainless steel shaft and a rubber lip seal. 1/2" BSP inner thread and I.D. 25 mm. bore hose connections. Main application: as a bilge pump.

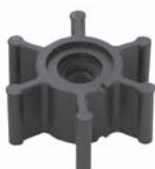
### 070144

12 V.  
Flow rate (2 mtr.) 35 Litre/min.  
Lift 8 mtr.  
Dim.: 120 x 180 mm.

### 070145

As Cargo 070144, but  
24 V.

## Spare Parts



### 070146

Impeller for Cargo 070144 and 070145.



Self-priming electric gear pump equipped w/ filter, pressure switch, non-return valve to be used as automatic pump for water pressure systems on boats, mobile homes ect. Pump body made of brass, bronze gears, stainless steel shaft and a rubber lip seal. For I.D. 14 mm. inner tubing.

### 070153

12 V.  
Flow rate (2 mtr.) 14 Litre/min.  
Lift 20 mtr.  
Dim.: 140 x 240 mm.

### 070172

As Cargo 070153, but  
24 V.

## Electrical Fluid Pumps



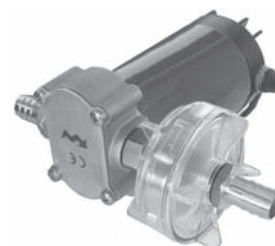
Self-priming electric pump w/ bronze gears for transfer of various liquids, complete w/ in-line filter. Pump body made of brass w/ stainless steel shaft and a rubber lip seal. 3/8" BSP w/ brass connection for I.D. 14 mm. inner tubing. Main application: Transfer of diesel fuel, water, antifreeze etc.

### 070147

12 V.  
Flow rate (2 mtr.) 14 Litre/min.  
Lift 20 mtr.  
Dim.: 140 x 160 mm.

### 070148

As Cargo 070147, but  
24 V.



Self-priming electric pump w/ bronze gears for transfer of various liquids, complete w/ in-line filter. Pump body made of brass w/ stainless steel shaft and a rubber lip seal. 1/2" BSP w/ brass connection for I.D. 16 mm. inner tubing. Main application: Transfer of diesel fuel, water, antifreeze etc.

### 070149

12 V.  
Flow rate (2 mtr.) 26 Litre/min.  
Lift 20 mtr.  
Dim.: 183 x 174 mm.

### 070150

As Cargo 070149, but  
24 V.

## Electrical Fluid Pumps



Electric gear pump particularly suitable for the transfer of lubricating oils or viscous liquids, complete w/ two brass connections for 14 mm. inner tube and one additional quick-fit for 8 mm. external tubing. The pump can be used for extracting lubricating oil out of oil sumps of engines. Pump body made of brass w/ bronze gears, stainless steel shaft and a rubber lip seal.

### 070151

12 V.  
Flow rate (8 mtr.) 60 Litre/h.  
Dim.: 90 x 140 mm.



Electric gear pump particularly suitable for the transfer of lubricating oils or viscous liquids. Professional model, complete w/ two brass connections for 14 mm. inner tube and one additional quick-fit for 8 mm. external tubing. The pump can be used for extracting lubricating oil out of oil sumps of engines. Pump body made of brass w/ bronze gears, stainless steel shaft and a rubber lip seal.

### 070152

12 V.  
Flow rate (8 mtr.) 75 Litre/h.  
Dim.: 166 x 102 mm.

### 070173

As Cargo 070152, but  
24 V.

### Spare Parts



### 070182

**Servicing** 070144, -145, -149, -150, -152.  
5.6 x 8.6 x 18.1 mm.  
Brushes.



### Accessories



### 070158

Intake Strainer.



### 070159

As Cargo 070158, but  
w/ automatic floating switch.  
Levels: Opening 57 mm.  
Closing 22 mm.

## Electrical Bilge Pumps

Completely submersible bilge pump.  
Compact design w/ ABS material housing,  
corrosion resistant.  
Shaft seal made of ceramic and graphite  
which ensures lubrication and leak  
resistance.  
Water inlet strainer slots will screen  
particles present in the bilge allowing easy  
running.  
Pump body can be dismantled by a simple  
snap-off movement for easy inspection and  
cleaning.



### 070154

12 V.  
Flow rate 18 Litre/min.  
Lift 2 mtr.  
For 20 mm. hose I.D. (3/4").  
Dim.: 75 x 92 mm.



### 070155

12 V.  
Flow rate 50 Litre/min.  
Lift 3 mtr.  
For 20 mm. hose I.D. (3/4").  
Dim.: 75 x 115 mm.



### 070156

12 V.  
Flow rate 90 Litre/min.  
Lift 4 mtr.  
For 32 mm. hose I.D. (1 1/8").  
Dim.: 120 x 160 mm.

### 070185

As Cargo 070156, but  
24 V.

Has a simple snap-on system for easy  
inspection.



### 070157

12 V.  
Flow rate 130 Litre/min.  
Lift 5 mtr.  
For 32 mm. hose I.D. (1 1/8").  
Dim.: 120 x 180 mm.

### 070186

As Cargo 070157, but  
24 V.

Has a simple snap-on system for easy  
inspection.



### Spare Parts



### 070160

Automatic floating switch for bilge pumps,  
made of corrosion resistant material for  
maximum reliability.  
Levels: Opening 57 mm.  
Closing 22 mm.

## Fuel Injection Pumps 12 V.



**070071**

**Replacing** Original fuel pump on:  
Audi and VW.  
Pressure: 1.2 bar.



**070054**

**Replacing** Original fuel injection pump on:  
Alfa Romeo, Fiat, Peugeot, Porsche,  
Saab and Volvo.  
Pressure: 2.0 - 3.5 bar.



**070061**

**Replacing** Original fuel injection pump on:  
Audi, Ford, Ferrari, Mercedes and VW.  
Pressure: 3.0 - 6.5 bar.



**070074**

**Replacing** Original fuel pump on: BMW.  
Pressure: 3.5 bar.



**070055**

**Replacing** Original fuel injection pump on:  
Ford and Mercedes.  
Pressure: 2.0 - 3.5 bar.



**070063**

**Replacing** Original fuel injection pump on:  
Volvo.  
Pressure: 3.0 - 6.5 bar.



**070075**

**Replacing** Original fuel pump on: Volvo.



**070059**

**Replacing** Original fuel injection pump on:  
Jaguar and Volvo.  
Pressure: 2.0 - 3.5 bar.



**070064**

**Replacing** Original fuel injection pump on:  
Ferrari, Ford, Mercedes and Peugeot.  
Pressure: 3.0 - 6.5 bar.



**070053**

**Replacing** Original fuel injection pump on:  
Alfa Romeo, BMW, Citroën, Fiat, Lancia,  
Opel, Peugeot, Renault, Triumph and VW.  
Pressure: 2.0 - 3.5 bar.



**070060**

**Replacing** Original fuel injection pump on:  
Audi, Peugeot, Volvo and VW.  
Pressure: 3.0 - 6.5 bar.



**070065**

**Replacing** Original fuel injection pump on:  
BMW, Ford, Mercedes, Peugeot,  
Porsche, Renault and Volvo.  
Pressure: 3.0 - 6.5 bar.

**Applications list page 77**  
**Cross reference list page 117**

## Fuel Injection Pumps 12 V.

### In-Tank Modules



#### 070079

**Replacing** Original fuel injection pump on:  
VW.  
Pressure: 1.2 bar.



#### 070080

**Replacing** 8D0 906 089 A.  
**Servicing** Audi.  
Pressure: 4.0 bar.



#### 070081

**Replacing** 1H0 919 051 AK.  
**Servicing** VW.  
Pressure: 3.0 bar.



#### 070082

**Replacing** 1H0 919 651 P.  
**Servicing** Seat, VW.  
Pressure: 3.0 bar.

*Pump only Cargo 070137.*



#### 070083

**Replacing** 1H0 919 651 C.  
**Servicing** VW.  
Pressure: 4.0 bar.



#### 070084

**Replacing** 1H0 919 051 K.  
**Servicing** VW.  
Pressure: 1.2 bar.



#### 070085

**Replacing** 1614 1 182 842.  
**Servicing** BMW.  
Pressure: 3.5 bar.



#### 070086

**Replacing** 1H0 919 651 N.  
**Servicing** Seat, VW.  
Pressure: 1.2 bar.

*Pump only Cargo 070136.*



#### 070163

**Replacing** 0986 580 310, 1525H8.  
**Servicing** Peugeot.  
Pressure: 3.0 bar.



#### 070164

**Replacing** 0986 580 256, 1525Y1.  
**Servicing** Peugeot.  
Pressure: 3.5 bar.



## Fuel Injection Pumps 12 V.



N

### 070165

**Replacing** 0986 580 259, 8200057324.

**Servicing** Renault.  
Pressure: 3.5 bar.



N

### 070166

**Replacing** 961 079 21.  
**Servicing** Citroën Xantia.  
Pressure: 3.0 bar.



N

### 070167

**Replacing** 0986 580 257, 1525Q4.

**Servicing** Peugeot.  
Pressure: 3.5 bar.



N

### 070168

**Replacing** 0986 580 174, 1525F7.

**Servicing** Citroën, Peugeot.  
Pressure: 3.0 bar.  
Diesel.



N

### 070171

**Replacing** 96VW9H307BB, 1J0919 051 B.

**Servicing** Ford, VW.  
Pressure: 3.0 bar.



N

### 070180

**Replacing** 1525 R2. 73068 01.

**Servicing** Citroën Picasso.  
Pressure: 3.0 bar.  
W/ additional heating system.  
Diesel.



N

### 070193

**Replacing** SMR439567.

**Servicing** Mitsubishi.  
Pressure: 3.6 bar.



N

### 070194

**Replacing** 0580 303 026, 1525C2, 96 305 857, 9635281380.

**Servicing** Peugeot.  
Pressure: 3.0 bar.



N

### 070196

**Replacing** 1525R4, 9639913780, 228-222-012-005C.

**Servicing** Peugeot.  
Pressure: 3.0 bar.  
Diesel.



N

### 070197

**Replacing** 1525N7, 0986 580 260.

**Servicing** Peugeot, Citroën.  
Pressure: 3.6 bar.

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**Cross reference list page 117**

## Fuel Injection Pumps 12 V.

### In-Tank Pumps



#### 070066

**Replacing** 357 906 092C.  
**Servicing** VW.  
 Original pre-feed pump.  
 Pressure: 0.24 Bar.



#### 070072

**Replacing** Original fuel pump on:  
 Seat and VW.  
 Pressure: 1.2 bar.



#### 070073

**Replacing** Original fuel pump on:  
 Seat and VW.  
 Pressure: 3.0 bar.



#### 070087

**Replacing** 17040 S01 A30.  
**Servicing** Honda.  
 Pressure: 3.0 bar.



#### 070088

**Replacing** 17040 S10 A00.  
**Servicing** Honda.  
 Pressure: 3.8 bar.



#### 070089

**Replacing** 31110-28100.  
**Servicing** Hyundai, Mazda, Mitsubishi.  
 Pressure: 3.8 bar.  
 As Cargo 070102, but  
 w/ different mounting parts.



#### 070090

**Replacing** 31111-23001.  
**Servicing** Hyundai.  
 Pressure: 3.1 bar.



#### 070091

**Replacing** 31111-23100.  
**Servicing** Hyundai, Daewoo.  
 Pressure: 3.3 bar.



#### 070092

**Replacing** MB 698857.  
**Servicing** Mitsubishi, Isuzu.  
 Pressure: 3.8 bar.



#### 070093

**Replacing** 8-97069336-1.  
**Servicing** Honda, Isuzu, Nissan.  
 Pressure: 3.0 bar.



#### 070094

**Replacing** AOK 008.  
**Servicing** Daewoo, Kia.  
 Pressure: 3.2 bar.



#### 070095

**Replacing** 23221-50060.  
**Servicing** Lexus, Toyota.  
 Pressure: 3.8 bar.

## Fuel Injection Pumps 12 V.



### 070096

**Replacing** 23206-74140.  
**Servicing** Lexus, Toyota.  
Pressure: 3.76 bar.



### 070100

**Replacing** KL11-13-350G.  
**Servicing** Mazda.  
Pressure: 3.1 bar.



### 070104

**Replacing** 42021 AC070.  
**Servicing** Subaru.  
Pressure: 2.55 bar.



### 070097

**Replacing** 23206-35250.  
**Servicing** Lexus, Toyota.  
Pressure: 2.8 bar.



### 070101

**Replacing** MB 83 1560.  
**Servicing** Ford, Mitsubishi, Mazda, VW.  
Pressure: 3.8 bar.



### 070105

**Replacing** 15100-80C02.  
**Servicing** Suzuki.  
Pressure: 3.0 bar.



### 070098

**Replacing** B3E7-13-35ZB.  
**Servicing** Mazda.  
Pressure: 3.8 bar.



### 070102

**Replacing** MB 912304.  
**Servicing** Mitsubishi.  
Pressure: 3.8 bar.  
As Cargo 070089, but  
w/ different mounting parts.



### 070106

**Replacing** 15100-57B10.  
**Servicing** Suzuki.  
Pressure: 3.0 bar.



### 070099

**Replacing** B630-13-350B.  
**Servicing** Honda, Mazda.  
Pressure: 3.0 bar.



### 070103

**Replacing** 42021 AA020.  
**Servicing** Subaru.  
Pressure: 2.55 bar.



### 070108

**Replacing** 0986580011.  
**Servicing** Bosch, Lexus, Toyota.  
Pressure: 3.0 bar.

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**Cross reference list page 117**

## Fuel Injection Pumps 12 V.



### 070109

**Replacing** 23220-74021.  
**Servicing** Toyota.  
Pressure: 2.83 bar.



### 070113

**Replacing** 7742416.  
**Servicing** Fiat.  
Pressure: 3.2 bar.



### 070117

**Replacing** 30611490, ERJ 187.  
**Servicing** Volvo.  
Pressure: 3.0 bar.



### 070110

**Replacing** 23221-76030.  
**Servicing** Toyota.  
Pressure: 2.83 bar.



### 070114

**Replacing** AOV 081.  
**Servicing** Volvo.  
Pressure: 4.0 bar.



### 070118

**Replacing** 40 21 358.  
**Servicing** Saab.  
Pressure: 4.2 bar.



### 070111

**Replacing** ZZM4-13-350.  
**Servicing** Mazda.  
Pressure: 3.0 bar.



### 070115

**Replacing** 9480152.  
**Servicing** Volvo.  
Pressure: 2.76 bar.



### 070119

**Replacing** 898 0039.  
**Servicing** Saab.  
Pressure: 4.5 bar.



### 070112

**Replacing** 7747117.  
**Servicing** Fiat.  
Pressure: 1.2 bar.



### 070116

**Replacing** 30611491.  
**Servicing** Volvo.  
Pressure: 2.4 bar.



### 070120

**Replacing** 191 906 091B.  
**Servicing** VW.  
Pressure: 3.0 bar.

## Fuel Injection Pumps 12 V.



### 070121

**Replacing** 191 906 091 C.  
**Servicing** VW.  
Pressure: 5.0 bar.



### 070125

**Replacing** 77 00 808 949.  
**Servicing** Renault.  
Pressure: 1.2 bar.



### 070129

**Replacing** 0580 453 424, 170 425 F600.  
**Servicing** Nissan Primera.  
Pressure: 3.0 bar.



### 070122

**Replacing** 443 906 091 C.  
**Servicing** VW.  
Pressure: 6.5 bar.



### 070126

**Replacing** 75 55 130.  
**Servicing** Fiat.  
Pressure: 1.5 bar.



### 070130

**Replacing** 0580 453 329.  
**Servicing** Nissan.  
Pressure: 3.0 bar.



### 070123

**Replacing** 8 15 012.  
**Servicing** Opel.  
Pressure: 1.5 bar.



### 070127

**Replacing** 547 812.  
**Servicing** Alfa Romeo, Renault.  
Pressure: 3.0 bar.



### 070131

**Replacing** 0580 453 412, -465.  
**Servicing** Opel.  
Pressure: 3.8 bar.



### 070124

**Replacing** 8 15 019.  
**Servicing** Opel.  
Pressure: 3.5 bar.



### 070128

**Replacing** 17042-10S00.  
**Servicing** Nissan.  
Pressure: 3.0 bar.



### 070132

**Replacing** 0580 453 328.  
**Servicing** Nissan.  
Pressure: 3.0 bar.

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**Cross reference list page 117**

## Fuel Injection Pumps 12 V.



### 070133

**Replacing** 0580 453 408.

**Servicing** Fiat, Alfa Romeo, Chevrolet.

Pressure: 3.5 bar.



### 070135

**Replacing** 0580 453 016, 0580 453 017, 357 906 091.

**Servicing** VW Passat.

Pressure: 1.2 bar.



### 070136

**Servicing** VW, Seat.

Singlepoint system.

Pressure: 1.2 bar.



### 070137

**Servicing** VW, Seat.

Multipoint system.

Pressure: 3.0 bar.



### 070138

**Replacing** ERJ 197.

**Servicing** PSA, Renault, Rover Group.

Pressure: 3.1 bar.



### 070139

**Replacing** 91AB9H307.

**Servicing** Ford, Opel, PSA.



### 070140

**Replacing** 0580 453 019 E, 0580 453 021 E.

**Servicing** BMW.

Pressure: 3.0 bar.



### 070142

**Replacing** 0580 453 053, 16141 179 415.

**Servicing** BMW, Peugeot.

Pressure: 3.5 bar.



### 070170

**Replacing** 0580 453 420, 944 70 60.

**Servicing** Volvo.

Pressure: 4.0 bar.



### 070174

**Replacing** 815008.

**Servicing** Opel.

Pressure: 4.0-8.0 bar.



### 070178

**Replacing** 357906091A, 0580 453 012, -013.

**Servicing** VW.

Pressure: 3.0 bar.



### 070179

**Servicing** Audi, Seat, VW.

Pressure: 3.0 bar.



## Fuel Injection Pumps 12 V.



**070195**

**Replacing** 0580 453 081, 7.18259.50.0,  
441 906 087 E.

**Servicing** VW.

Pressure: 4.0 bar.

### Spare Parts



**070141**

Strainer.

**Servicing** Cargo 070123.

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*Cross reference list page 117*

## Hose Nipples



**070009** Std pkg 100 **A**  
Screw terminal R 1/8".  
For 6 mm. hose I.D.



**070077** Std pkg 25 **A**  
Screw terminal 1/8-27 NPTF.  
For 6 mm. hose I.D.



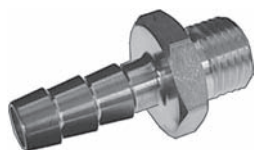
**080955** Std pkg 10 **A**  
Screw terminal 1/8-27 NPTF.  
For 8 mm. hose I.D.



**070181**  
90°.  
Screw terminal 1/8-27 NPTF.  
For 8 mm. hose I.D.



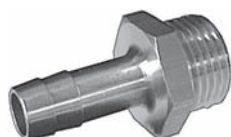
**070067** Std pkg 25 **A**  
Screw terminal R 1/4".  
For 10 mm. hose I.D.



**080857** Std pkg 10  
Screw terminal 1/2"-20 UNF.  
For 8 mm. hose I.D.



**080960** Std pkg 10 **A**  
Screw terminal 1/2"-20 UNF.  
For 10 mm. hose I.D.



**080855** Std pkg 10 **A**  
Screw terminal R 1/2".  
For 10 mm. hose I.D.



**080954** Std pkg 10 **A**  
Screw terminal M14-1.5.  
For 6 mm. hose I.D.



**080854** Std pkg 10 **A**  
Screw terminal M14-1.5.  
For 8 mm. hose I.D.



**080959** Std pkg 10 **A**  
Screw terminal M14-1.5.  
For 10 mm. hose I.D.



**080858** Std pkg 10 **A**  
Screw terminal M16-1.5.  
For 8 mm. hose I.D.



**070070** Std pkg 25  
Screw terminal M16-1.5.  
For 10 mm. hose I.D.



**080958** Std pkg 10  
Screw terminal M 18-1.5.  
For 10 mm. hose I.D.

## Relay Boxes



### 160167

Switches the voltage from 24 V. to 12 V. by 5 relays, run at 24 V. and leading 12 V. from one of the batteries or converter to the lamps on the trailer.  
*For continuous use it has to be connected with a converter.*  
Load per relay: 10 Amp.  
Wattage per relay: 250 Watt.



### 160502

For 12 V. trailer drawn by vehicles w/ 24 V. C2 controllamp for missing ground, broken bulb and wrong polarising.  
Water resistant.  
Protection degree: IP65.



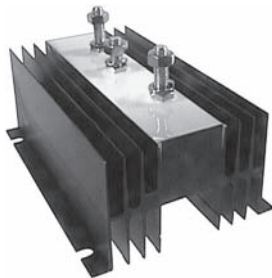
### 160717

For 12 V. trailer coupling 12 V.  
To protect/relief the wire and connection in the car.

#### Contents:

- 1.8 mtr. multi core cable.
- 7 x 1.5 mm<sup>2</sup>.
- 1 x 2.5 mm<sup>2</sup>. white (Ground).
- Mounting instructions.

## Battery Isolators



### 160342

To separate multi battery systems, when more than 1 battery is used. (eg. in caravans, electric/hydraulic equipment in trucks, industrial vehicles, boats etc.)  
6-36 V.  
Max. 70 Amp.  
Dim.: 85 x 115 x 95 mm.

### 160343

As Cargo 160342, but  
w/ external voltage sensing system.  
W/ compensate diode.

### 160398

As Cargo 160342, but  
max. 120 Amp.  
Dim.: 170 x 115 x 95 mm.

### 160399

As Cargo 160398, but  
with external voltage sensing system.  
W/ compensate diode.

This battery isolator distinguishes itself from the existing models in the marked in having an improved MOS-FET transistor circuit (0-voltage drop) in comparison with existing models in the marked. These have diodes w/ 0.8 - 1.2 voltage drop.



### 160690

12/24 V.  
100 amp.  
2 batteries.



### 160691

12/24 V.  
150 amp.  
2 batteries.



### 160692

12/24 V.  
150 amp.  
3 batteries.

## Multi Power Converter



**160579**

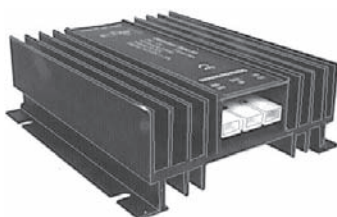
Input: ..... 36-90 V. DC.  
Output: ..... 12 V.  
Effect: ..... 6 Amp.  
Protection degree ..... IP 68  
Dimension: ..... 134 x 94 x 18 mm.



**160580**

Input: ..... 36-90 V. DC.  
Output: ..... 12 V.  
Effect: ..... 15 Amp.  
Protection degree ..... IP 68  
Dimension: ..... 134 x 94 x 48 mm.

## Voltage Converter



**160247**

24 -> 12 V.  
Type: Linear non-insulated

Input voltage: ..... 24 V. (20-32 V.)  
Output voltage: ..... 13.8 V.  
Load

continuous: ..... 8.0 Amp.  
intermittent (10 min.) ..... 10.0 Amp.  
Off load current: ..... 14 mAmp.  
Wattage: ..... 110 Watt.  
Dimension: ..... 160 x 123 x 45 mm.  
Protection against: over current, over  
heat, over voltage,  
transients and  
reverse connection.

CE-approved.

The converter is intended for use with heavy duty communication equipment or other similar equipment.

Fitting instruction included.



**160387**

24 -> 12 V.  
Type: Switch mode non-insulated

Input voltage: ..... 24 V. (20-32 V.)  
Output voltage: ..... 13.8 V.  
Load

continuous: ..... 3.0 Amp.  
intermittent (5 min.) ..... 6.0 Amp.  
Off load current: ..... 8 mAmp.  
Wattage: ..... 40 Watt.  
Dimension: ..... 68 x 87 x 50 mm.  
Protection against: over current,  
over heat, over voltage,  
transients and  
reverse connection.

CE-approved.

The converter is supplied with a unique clip mounting bracket.

The converter is intended for use with radios, cassette players or other similar equipment.

Fitting instruction included.



**160388**

24 -> 12 V.  
Type: Switch mode non-insulated

Input voltage: ..... 24 V. (20-32 V.)  
Output voltage: ..... 13.8 V.  
Load

continuous: ..... 6.0 Amp.  
intermittent (5 min.) ..... 10.0 Amp.  
Off load current: ..... 8 mAmp.  
Wattage: ..... 75 Watt.  
Dimension: ..... 90 x 87 x 50 mm.  
Protection against: over current,  
over heat, over voltage,  
transients and  
reverse connection.

CE-approved.

The converter is supplied with a unique clip mounting bracket. The converter is intended for use with radios, cassette players, CB and cell phones or other similar equipment.

Fitting instruction included.

## Voltage Converter



### 160306

24 -> 12 V.

Type: Switch mode non-insulated

Input voltage: ..... **24 V. (20-32 V.)**

Output voltage: ..... **13.8 V.**

Load

continuous: ..... **12.0 Amp.**

intermittent (5 min.) ..... **18.0 Amp.**

Off load current: ..... **8 mAmp.**

Wattage: ..... **160 Watt.**

Dimension: ..... **128 x 87 x 50 mm.**

Protection against: ..... **over current,  
over heat, over voltage,  
transients and  
reverse connection.**

CE-approved.

The converter is supplied with a unique clip mounting bracket. The converter is intended for use with heavy duty communication equipment or other similar equipment.

Fitting instruction included.



### 160389

24 -> 12 V.

Type: Switch mode non-insulated

Input voltage: ..... **24 V. (20-32 V.)**

Output voltage: ..... **13.8 V.**

Load

continuous: ..... **24.0 Amp.**

intermittent (5 min.) ..... **30.0 Amp.**

Off load current: ..... **8 mAmp.**

Wattage: ..... **330 Watt.**

Dimension: ..... **168 x 87 x 50 mm.**

Protection against: ..... **over current,  
over heat, over voltage,  
transients and  
reverse connection.**

CE-approved.

The converter is supplied with a unique clip mounting bracket. The converter is intended for use with high power audio installations and high frequency radio transmission or other similar equipment.

Fitting instruction included.



### 160390

24 -> 12 V.

Type: Switch mode insulated

Input voltage: ..... **24 V. (20-32 V.)**

Output voltage: ..... **13.8 V.**

Load

continuous: ..... **3.0 Amp.**

intermittent (5 min.) ..... **6.0 Amp.**

Off load current: ..... **8 mAmp.**

Wattage: ..... **40 Watt.**

Dimension: ..... **90 x 87 x 50 mm.**

Protection against: ..... **over current,  
over heat, over voltage,  
transients and  
reverse connection.**

CE-approved.

The converter is supplied with a unique clip mounting bracket. The converter is intended for use with the same equipment as Cargo 160387, but for systems where full isolation is required e.g. marine electrical systems and vehicles for petro-chemical transports.

Fitting instruction included.



### 160391

24 -> 12 V.

Type: Switch mode insulated

Input voltage: ..... **24 V. (20-30 V.)**

Output voltage: ..... **13.8 V.**

Load

continuous: ..... **6.0 Amp.**

intermittent (5 min.) ..... **10.0 Amp.**

Off load current: ..... **8 mAmp.**

Wattage: ..... **75 Watt.**

Dimension: ..... **128 x 87 x 50 mm.**

Protection against: ..... **over current,  
over heat, over voltage,  
transients and  
reverse connection.**

CE-approved.

The converter is supplied with a unique clip mounting bracket. The converter is intended for use with the same equipment as Cargo 160388, but for systems where full isolation is required e.g. marine electrical systems and vehicles for petro-chemical transports.

Fitting instruction included.



### 160392

24 -> 12 V.

Type: Switch mode insulated

Input voltage: ..... **24 V. (20-30 V.)**

Output voltage: ..... **13.8 V.**

Load

continuous: ..... **12.0 Amp.**

intermittent (5 min.) ..... **18.0 Amp.**

Off load current: ..... **8 mAmp.**

Wattage: ..... **144 Watt.**

Dimension: ..... **168 x 87 x 50 mm.**

Protection against: ..... **over current,  
over heat, over voltage,  
transients and  
reverse connection.**

CE-approved.

The converter is supplied with a unique clip mounting bracket. The converter is intended for use with the same equipment as Cargo 160306, but for systems where full isolation is required e.g. marine electrical systems and vehicles for petro-chemical transports.

Fitting instruction included.



### 160640

24 - 12 V.

Type: Switch mode insulated

Input voltage: ..... **24 V. (18-32 V.)**

Output voltage: ..... **12 V. (12-13.6) V.**

Load

continuous: ..... **50.0 Amp.**

intermittent (5 min.) ..... **60.0 Amp.**

Off load current: ..... **<50 mAmp.**

Wattage: ..... **600 Watt.**

Dimension: ..... **300 x 76 x 110 mm.**

Protection against: ..... **over current.**



## Voltage Converter

**160642**

12 - 24 V.

Type: Switch mode insulated

Input voltage: ..... 12 V. (12-13.6 V.)

Output voltage: ..... 24 V. (24-27.5) V.

Load

continuous: ..... 3 Amp.

intermittent (5 min.) ..... 4 Amp.

Off load current: ..... &lt;50 mAmp.

Wattage: ..... 72 Watt.

Dimension: ..... 89 x 87 x 50 mm.

Protection against: ..... over current.

**160644**

12 - 24 V.

Type: Switch mode insulated

Input voltage: ..... 12 V. (12-13.6 V.)

Output voltage: ..... 24 V. (24-27.5) V.

Load

continuous: ..... 7 Amp.

intermittent (5 min.) ..... 9 Amp.

Off load current: ..... &lt;50 mAmp.

Wattage: ..... 168 Watt.

Dimension: ..... 167 x 87 x 50 mm.

Protection against: ..... over current.

**160646**

12 - 24 V.

Type: Switch mode insulated

Input voltage: ..... 12 V. (12-13.6 V.)

Output voltage: ..... 24 V. (24-27.5) V.

Load

continuous: ..... 10 Amp.

intermittent (5 min.) ..... 13 Amp.

Off load current: ..... &lt;50 mAmp.

Wattage: ..... 240 Watt.

Dimension: ..... 217 x 87 x 50 mm.

Protection against: ..... over current.

## Inverters

## Pure Sine Wave

**160493**

12 V. DC to 230 V. AC.

Output power continuous ..... 150 Watt.

Dim.: ..... 190 x 110 x 75 mm.

Weight: ..... 1.8 kg.

**160494**

24 V. DC to 230 V. AC.

Output power continuous ..... 250 Watt.

Dim.: ..... 190 x 110 x 75 mm.

Weight: ..... 2.5 kg.

**160495**

12 V. DC to 230 V. AC.

Output power continuous ..... 500 Watt.

Dim.: ..... 275 x 155 x 96 mm.

Weight: ..... 5.1 kg.

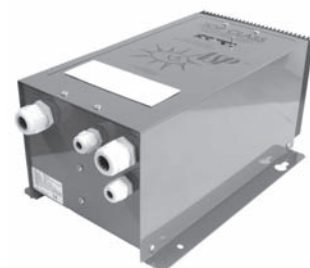
**160496**

24 V. DC to 230 V. AC.

Output power continuous ..... 700 Watt.

Dim.: ..... 275 x 155 x 96 mm.

Weight: ..... 6.8 kg.

**160498**

24 V. DC to 230 V. AC.

Output power continuous ..... 1500 Watt.

Dim.: ..... 385 x 260 x 182 mm.

Weight: ..... 16 kg.



## Inverters



**160529**

10/15 V. DC to 230 V. AC.

Output power continuous ..... **1300 Watt**  
Output power surge .... **2 sec. 2800 Watt**  
**30 sec. 1700 Watt**

Regulation .....	± 3%
DC input voltage .....	10 - 15V.
Low battery alarm .....	DC 10.5V. ± 0.5V.
Low battery shutdown ...	DC 10V. ± 0.5V.
Efficiency.....	over 95%
Input 100% load current draw ..	180Amp.
Over temperature protection .....	Yes
Cooling fan .....	Yes
Overload protection .....	Yes
Input short circuit protection .....	Yes
Dim.: .....	260 x 190 x 120 mm.
Weight: .....	6.0 kg.



**160531**

24 V. DC to 230 V. AC.

Output power continuous ..... **1400 Watt**  
Output power surge .... **2 sec. 3000 Watt**  
**30 sec. 1700 Watt**

Regulation .....	± 3%
DC input voltage .....	20 - 30V.
Low battery alarm .....	DC 21V. ± 1V.
Low battery shutdown .....	DC 20V. ± 1 V.
Efficiency.....	over 95%
Input 100% load current draw .....	90Amp.
Over temperature protection .....	Yes
Cooling fan .....	Yes
Overload protection .....	Yes
Input short circuit protection .....	Yes
Dim.: .....	260 x 190 x 120 mm.
Weight: .....	6.0 kg.



**160530**

12 V. DC to 230 V. AC.

Output power continuous ..... **2000 Watt**  
Output power surge .... **2 sec. 4000 Watt**  
**30 sec. 2500 Watt**

Regulation .....	± 3%
DC input voltage .....	10 - 15V.
Low battery alarm .....	DC 10.5V. ± 0.5V.
Low battery shutdown ..	DC 10V. ± 0.5V.
Efficiency .....	over 95%
Input 100% load current draw ..	250Amp.
Over temperature protection .....	Yes
Cooling fan .....	Yes
Overload protection .....	Yes
Input short circuit protection .....	Yes
Dim.: .....	350 x 190 x 120 mm.
Weight: .....	8.0 kg.



**160532**

24 V. DC to 230 V. AC.

Output power continuous ..... **2300 Watt**  
Output power surge .... **2 sec. 4500 Watt**  
**30 sec. 2800 Watt**

Regulation .....	<b>50 sec. 2000 Watt</b>	<b>± 3%</b>
DC input voltage .....	<b>10 - 15V.</b>	
Low battery alarm .....	<b>DC 21V.</b>	<b>± 1V.</b>
Low battery shutdown .....	<b>DC 20V.</b>	<b>± 1 V.</b>
Efficiency .....	<b>over 95%</b>	
Input 100% load current draw ..	<b>125Amp.</b>	
Over temperature protection .....	<b>Yes</b>	
Cooling fan .....	<b>Yes</b>	
Overload protection .....	<b>Yes</b>	
Input short circuit protection .....	<b>Yes</b>	
Dim.: .....	<b>350 x 190 x 120 mm.</b>	
Weight: .....	<b>8.0 kg.</b>	

## Inverters

## Modified Sine Wave

**160541**

12 V. DC to 230 V. AC.

Output power continuous ..... **150 Watt**  
 Output power surge ..... **300 Watt**  
 Regulation .....  $\pm 10\%$   
 DC input voltage ..... **10 - 15V.**  
 Low battery alarm ..... **DC 10.5V.  $\pm 0.5V$ .**  
 Low battery shutdown ... **DC 10V.  $\pm 0.5V$ .**  
 Efficiency ..... **over 90%**  
 No load current draw ..... **<1.3Amp.**  
 Input 100% load current draw **<14.8Amp.**  
 Output 100% load current draw **<0.649Amp.**  
 Over temperature protection ..... **55° $\pm 5^\circ$**   
 Cooling fan ..... **No**  
 Overload protection ..... **Yes**  
 Input short circuit protection ..... **No**  
 Dim.: ..... **182 x 104 x 58 mm.**  
 Weight: ..... **0.7 kg.**

**160542**

24 V. DC to 230 V. AC.

Output power continuous ..... **150 Watt**  
 Output power surge ..... **300 Watt**  
 Regulation .....  $\pm 10\%$   
 DC input voltage ..... **20 - 30V.**  
 Low battery alarm ..... **DC 21V.  $\pm 1V$ .**  
 Low battery shutdown ..... **DC 20V.  $\pm 1V$ .**  
 Efficiency ..... **over 90%**  
 No load current draw ..... **<1.3Amp.**  
 Input 100% load current draw **<14.8Amp.**  
 Output 100% load current draw **<0.649Amp.**  
 Over temperature protection ..... **55° $\pm 5^\circ$**   
 Cooling fan ..... **No**  
 Overload protection ..... **Yes**  
 Input short circuit protection ..... **No**  
 Dim.: ..... **182 x 104 x 58 mm.**  
 Weight: ..... **0.7 kg.**

**160543**

12 V. DC to 230 V. AC.

Output power continuous  
   Alligator clip ..... **300 Watt**  
   Cigarette plug ..... **150 Watt**  
 Output power surge ..... **600 Watt**  
 Regulation .....  $\pm 10\%$   
 DC input voltage ..... **10 - 15V.**  
 Low battery alarm ..... **DC 10.5V.  $\pm 0.5V$ .**  
 Low battery shutdown ..... **DC 10V.  $\pm 0.5V$ .**  
 Efficiency ..... **over 90%**  
 No load current draw ..... **<0.65Amp.**  
 Input 100% load current draw . **<29.5Amp.**  
 Output 100% load current draw **<1.266Amp.**  
 Over temperature protection ..... **55° $\pm 5^\circ$**   
 Cooling fan ..... **No**  
 Overload protection ..... **Yes**  
 Input short circuit protection ..... **No**  
 Dim.: ..... **232 x 104 x 58 mm.**  
 Weight: ..... **0.9 kg.**

**160544**

24 V. DC to 230 V. AC.

Output power continuous  
   Alligator clip ..... **300 Watt**  
   Cigarette plug ..... **150 Watt**  
 Output power surge ..... **600 Watt**  
 Regulation .....  $\pm 10\%$   
 DC input voltage ..... **20 - 30V.**  
 Low battery alarm ..... **DC 21V.  $\pm 1V$ .**  
 Low battery shutdown ..... **DC 20V.  $\pm 1V$ .**  
 Efficiency ..... **over 90%**  
 No load current draw ..... **<0.65Amp.**  
 Input 100% load current draw . **<29.5Amp.**  
 Output 100% load current draw **<1.266Amp.**  
 Over temperature protection ..... **55° $\pm 5^\circ$**   
 Cooling fan ..... **No**  
 Overload protection ..... **Yes**  
 Input short circuit protection ..... **No**  
 Dim.: ..... **232 x 104 x 58 mm.**  
 Weight: ..... **0.9 kg.**

**160545**

12 V. DC to 230 V. AC.

Output power continuous ..... **600 Watt**  
 Output power surge ..... **1500 Watt**  
 Regulation .....  $\pm 10\%$   
 DC input voltage ..... **10 - 15V.**  
 Low battery alarm ..... **DC 10.5V.  $\pm 0.5V$ .**  
 Low battery shutdown ... **DC 10V.  $\pm 0.5V$ .**  
 Efficiency ..... **85 - 90%**  
 No load current draw ..... **<1.35Amp.**  
 Input 100% load current draw . **82.2Amp.**  
 Output 100% load current draw **3.55Amp.**  
 Over temperature protection ..... **55° $\pm 5^\circ$**   
 Cooling fan ..... **Yes**  
 Overload protection ..... **Yes**  
 Input short circuit protection ..... **Yes**  
 Dim.: ..... **393 x 242 x 80 mm.**  
 Weight: ..... **3.1 kg.**

**160546**

24 V. DC to 230 V. AC.

Output power continuous ..... **600 Watt**  
 Output power surge ..... **1500 Watt**  
 Regulation .....  $\pm 10\%$   
 DC input voltage ..... **20 - 30V.**  
 Low battery alarm ..... **DC 21V.  $\pm 1V$ .**  
 Low battery shutdown ..... **DC 20V.  $\pm 1V$ .**  
 Efficiency ..... **85 - 90%**  
 No load current draw ..... **<0.7Amp.**  
 Input 100% load current draw . **41.1Amp.**  
 Output 100% load current draw **1.78Amp.**  
 Over temperature protection ..... **55° $\pm 5^\circ$**   
 Cooling fan ..... **Yes**  
 Overload protection ..... **Yes**  
 Input short circuit protection ..... **Yes**  
 Dim.: ..... **393 x 242 x 80 mm.**  
 Weight: ..... **3.1 kg.**

## Inverters



### 160660

12 V. DC to 230 V. AC.

Output power continuous ..... **1000 Watt**  
 Output power surge ..... **2500 Watt**  
 Regulation .....  $\pm 10\%$   
 DC input voltage ..... **10 - 15V.**  
 Low battery alarm ..... **DC 10.5V.  $\pm 0.5V$ .**  
 Low battery shutdown ... **DC 10V.  $\pm 0.5V$ .**  
 Efficiency ..... **85 - 90%**  
 No load current draw ..... **<1.35Amp.**  
 Input 100% load current draw **.135 Amp.**  
 Output 100% load current draw **5.65 Amp.**  
 Over temperature protection ..... **55° $\pm 5^\circ$**   
 Cooling fan ..... **Yes**  
 Overload protection ..... **Yes**  
 Input short circuit protection ..... **Yes**  
 Dim.: ..... **310 x 205 x 75 mm.**  
 Weight: ..... **5.0 kg.**



### 160676

24 V. DC to 230 V. AC.

Output power continuous ..... **1000 Watt**  
 Output power surge ..... **2500 Watt**  
 Regulation .....  $\pm 10\%$   
 DC input voltage ..... **20 - 30V.**  
 Low battery alarm ..... **DC 20V.  $\pm 0.5V$ .**  
 Low battery shutdown ... **DC 20V.  $\pm 1.0V$ .**  
 Efficiency ..... **85 - 90%**  
 No load current draw ..... **<0.3Amp.**  
 Input 100% load current draw ... **70 Amp.**  
 Output 100% load current draw **4.85 Amp.**  
 Over temperature protection ..... **55° $\pm 5^\circ$**   
 Cooling fan ..... **Yes**  
 Overload protection ..... **Yes**  
 Input short circuit protection ..... **Yes**  
 Dim.: ..... **310 x 205 x 75 mm.**  
 Weight: ..... **5.0 kg.**



### 160569

12 V. DC to 230 V. AC.

Output power continuous ..... **1500 Watt**  
 Output power surge ..... **3000 Watt**  
 Regulation .....  $\pm 5\%$   
 DC input voltage ..... **10 - 15V.**  
 Low battery alarm ..... **DC 10.7 V.  $\pm 0.5V$ .**  
 Low battery shutdown .. **DC 10 V.  $\pm 0.5V$ .**  
 Efficiency ..... **85 - 90%**  
 No load current draw ..... **<0.6Amp.**  
 Input 100% load current draw **.200 Amp.**  
 Output 100% load current draw **6.85 Amp.**  
 Over temperature protection ..... **55° $\pm 5^\circ$**   
 Cooling fan ..... **Yes**  
 Overload protection ..... **Yes**  
 Input short circuit protection ..... **Yes**  
 Dim.: ..... **430 x 240 x 77 mm.**  
 Weight: ..... **3.8 kg.**



### 160581

24 V. DC to 230 V. AC.

Output power continuous ..... **1500 Watt**  
 Output power surge ..... **3000 Watt**  
 Regulation .....  $\pm 5\%$   
 DC input voltage ..... **20 - 30V.**  
 Low battery alarm ..... **DC 21.5 V.  $\pm 1V$ .**  
 Low battery shutdown ..... **DC 20 V.  $\pm 1V$ .**  
 Efficiency ..... **85 - 90%**  
 No load current draw ..... **<0.3Amp.**  
 Input 100% load current draw **.100 Amp.**  
 Output 100% load current draw **6.85 Amp.**  
 Over temperature protection ..... **55° $\pm 5^\circ$**   
 Cooling fan ..... **Yes**  
 Overload protection ..... **Yes**  
 Input short circuit protection ..... **Yes**  
 Dim.: ..... **430 x 240 x 77 mm.**  
 Weight: ..... **3.8 kg.**

## Chargers

Intelligent charger that can charge 3 batteries and offers protection against overloading. This charger will load one battery to 80 % before commencing loading 2<sup>nd</sup> and 3<sup>rd</sup> battery.

When fully charged the charger switches on to monitor.

Charging will recommence when necessary.



### 160666

12 V. 20 Amp.

Input ..... 190-250 V.ac.  
Output power ..... 12 V.dc. 20 Amp.  
Voltage precharging ..... 14.4 V.  
Over temperature protection ..... Yes  
Cooling fan ..... Yes  
Overload protection ..... Yes  
Input short circuit protection ..... Yes  
Galvanic separation ..... Double  
Protection degree ..... IP 21  
Dim.: ... 277 (incl. term.) x 98 x 200 mm.  
Weight: ..... 5.0 kg.



### 160667

12 V. 30 Amp.

Input ..... 190-250 V.ac.  
Output power ..... 12 V.dc. 30 Amp.  
Voltage precharging ..... 14.4 V.  
Over temperature protection ..... Yes  
Cooling fan ..... Yes  
Overload protection ..... Yes  
Input short circuit protection ..... Yes  
Galvanic separation ..... Double  
Protection degree ..... IP 21  
Dim.: ... 277 (incl. term.) x 98 x 200 mm.  
Weight: ..... 5.0 kg.



### 160668

24 V. 15 Amp.

Input ..... 190-250 V.ac.  
Output power ..... 24 V.dc. 15 Amp.  
Voltage precharging ..... 28.8 V.  
Over temperature protection ..... Yes  
Cooling fan ..... Yes  
Overload protection ..... Yes  
Input short circuit protection ..... Yes  
Galvanic separation ..... Double  
Protection degree ..... IP 21  
Dim.: ... 277 (incl. term.) x 98 x 200 mm.  
Weight: ..... 5.0 kg.



### 160669

24 V. 20 Amp.

Input ..... 190-250 V.ac.  
Output power ..... 24 V.dc. 20 Amp.  
Voltage precharging ..... 28.8 V.  
Over temperature protection ..... Yes  
Cooling fan ..... Yes  
Overload protection ..... Yes  
Input short circuit protection ..... Yes  
Galvanic separation ..... Double  
Protection degree ..... IP 21  
Dim.: ... 277 (incl. term.) x 98 x 200 mm.  
Weight: ..... 5.0 kg.



### 160670

This display can overview up to 4 inverters / chargers.

Can overview:

- Battery capacity.
- Failure function.
- Timer to shut on/off inverter / charger.
- Remote control.
- Status history.
- Temperature.



## Fan/Heater Motors - Universal

### Single Shafts



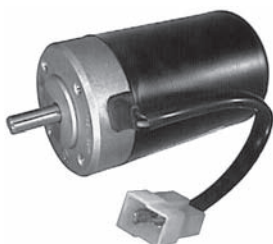
#### 160004

**Replacing** Doga 161.3101.2B.09.  
12 V.  
Shaft 6 x 20 mm.  
O.D. 61 mm. L. 74 mm.  
18 Watt at 3.500 rpm.  
3 fixing bolts.  
Single speed.



#### 160005

**Replacing** Doga 162.4102.2B.00.  
12 V.  
Shaft 8 x 22 mm.  
O.D. 60 mm. L. 121 mm.  
40 Watt at 2.000 rpm.  
Single speed.



#### 160006

**Replacing** Doga 162.4102.3B.00.  
24 V.  
Shaft. 8 x 22 mm.  
O.D. 60 mm. L. 121 mm.  
40 Watt at 2.000 rpm.  
Single speed.



#### 060213

**Servicing** Cargo 060210.  
12 V. 50 Watt.  
Shaft 6.35 x16 mm. (1/4").  
O.D. 70 mm. L. 63 mm.  
3 hole fixing.  
Two speed.



#### 060059

12 V. 24 Watt.  
Shaft 6.35 x16 mm. (1/4").  
O.D. 70 mm. L. 63 mm.  
3 hole fixing.  
Single speed.



#### 060214

**Servicing** Cargo 060211.  
24 V. 50 Watt.  
Shaft 6.35 x16 mm. (1/4").  
O.D. 70 mm. L. 63 mm.  
3 hole fixing.  
Single speed.



#### 060060

24 V. 24 Watt.  
Shaft 6.35 x16 mm. (1/4").  
O.D. 70 mm. L. 63 mm.  
3 hole fixing.  
Single speed.

**Cross reference list page 117**

## Fan/Heater Motors - Universal

### Double Shafts



#### 160250

12 V.  
2 shafts 10 x 110 mm (3/8").  
O.D. 90 mm. L. 105 mm.  
3 speed.



#### 160251

24 V.  
2 shafts 10 x 110 mm. (3/8").  
O.D. 90 mm. L. 107 mm.  
3 speed.



#### 160252

24 V.  
2 shafts 8 x 65 mm. (5/16").  
O.D. 82 mm. L. 102 mm.  
Single speed.



#### 160253

12 V.  
2 shafts 8 x 83 mm. (5/16").  
O.D. 76 mm. L. 86 mm.  
3 speed.



#### 160622

**Replacing** Bosch 0130 111 003.  
**Servicing** Massey Ferguson tractors 3070.  
12 V.  
9.6 amp. 3100 Rpm.



#### 160623

**Replacing** Bosch 0130 111 019.  
12 V.



#### 160626

**Replacing** Bosch 0130 063 015.  
**Servicing** Fiat tractors.  
12 V.



#### 160625

**Replacing** Bosch 0130 007 308.  
**Servicing** Fiat tractors.  
12 V.



#### 160674

**Replacing** Bosch 0130 007 001.  
**Servicing** MB Trucks, Valmet tractors.  
12 V.



#### 160675

**Replacing** Bosch 0130 007 015.  
**Servicing** Valmet tractors.  
12 V.  
Anti CW rotation.



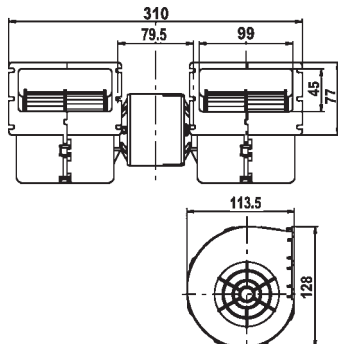
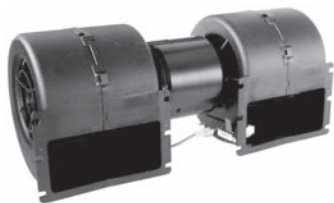
#### 160709

**Replacing** 0130 111 156,  
90 90 332 204.  
**Servicing** Kangoo, Renault.  
12 V.

**Cross reference list page 117**



## Miscellaneous Blowers



### 160483

**Replacing** Spal 008-A45-02.

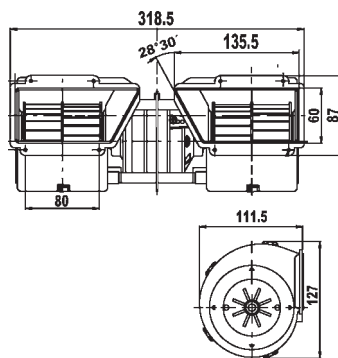
**Servicing** Cargo 060216.

12 V.

3 speed.

Air flow full speed 750 m<sup>3</sup>/H.

w/ 0 psi static pressure.



### 160510

**Replacing** Spal 005-A45-02.

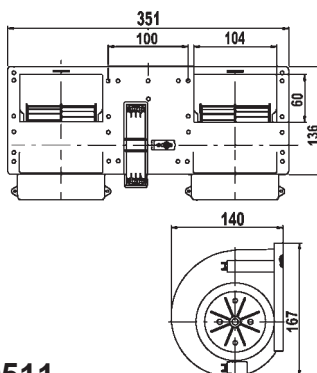
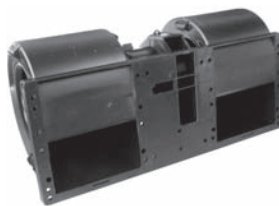
**Servicing** Ford, New Holland Wheel Loader Tractors. NH75, 85, 675E, LB115.

12 V.

3 speed.

Air flow full speed 650 m<sup>3</sup>/H.

w/ 0 psi static pressure.



### 160511

**Replacing** Spal 006-A54-22, Valeo W962011T.

**Servicing** Deutz tractors.

New Holland tractors TM, TS, TD, 40, 60 series.

12 V.

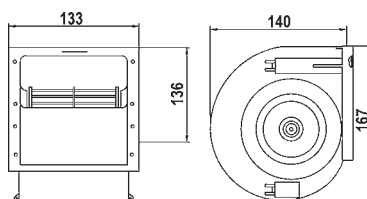
1 speed.

Air flow full speed 831 m<sup>3</sup>/H.

w/ 0 psi static pressure.

#### Attention

This model must be used w/ a static pressure higher than 0.1 psi.



### 160639

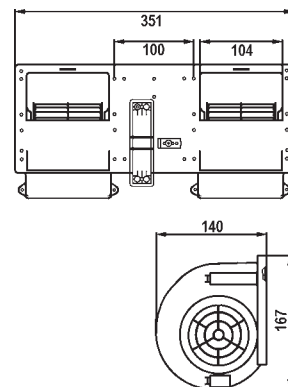
**Replacing** Spal 006-A22-26D.

12 V.

3 speed.

Air flow full speed 490 m<sup>3</sup>/H.

w/ 0 psi static pressure.



### 160647

**Replacing** Spal 006-A46-22, Ford 9968969.

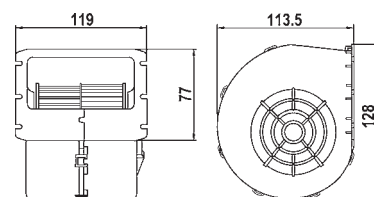
**Servicing** Ford / New Holland 555, 576, 655, 675, NH 95, LB 115.

12 V.

3 speed.

Air flow full speed 800 m<sup>3</sup>/H.

w/ 0 psi static pressure.



### 160593

**Replacing** Spal 008-A37/C-24D.

12 V.

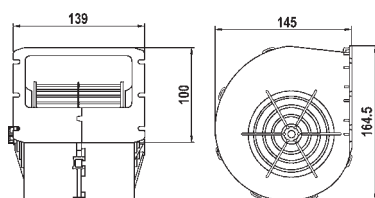
3 speed.

Air flow full speed 260 m<sup>3</sup>/H.

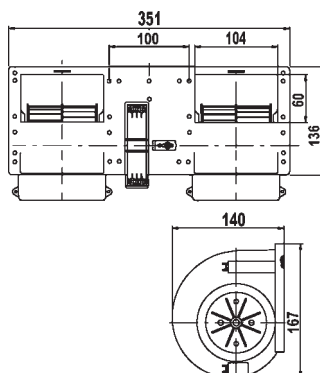
w/ 0 psi static pressure.

## Miscellaneous Blowers

N

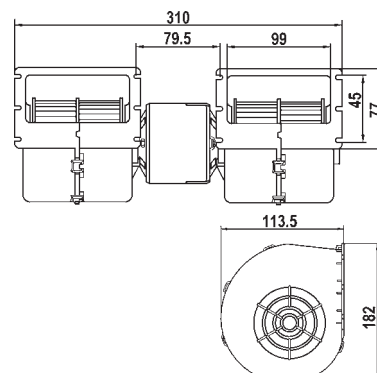
**160592**

**Replacing** Spal 009-A22-26D.  
12 V.  
3 speed.  
Air flow full speed 530 m<sup>3</sup>/H.  
w/ 0 psi static pressure.

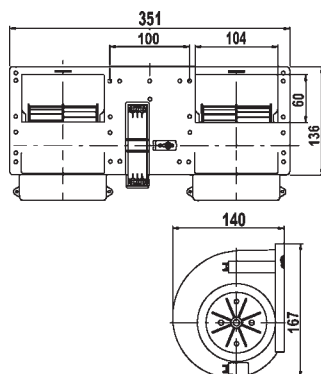
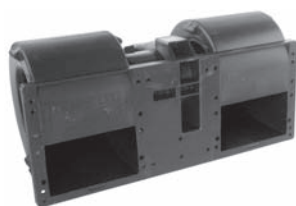
**160556**

**Replacing** Spal 006-B46-22.  
24 V.  
3 speed.  
Air flow full speed 850 m<sup>3</sup>/H.  
w/ 0 psi static pressure.

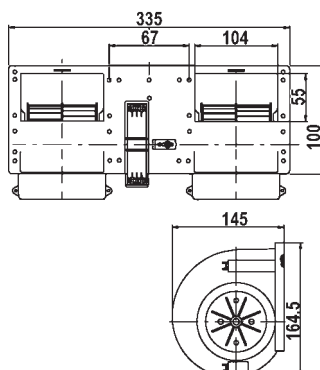
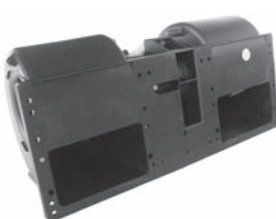
N

**160649**

**Replacing** Spal 008-B45-22.  
**Servicing** Cargo 060220.  
24 V.  
3 speed.  
Air flow full speed 750 m<sup>3</sup>/H.  
w/ 0 psi static pressure.

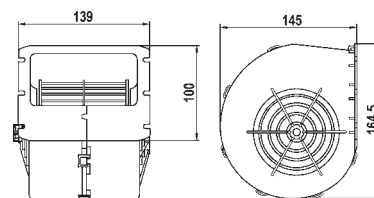
**160512**

**Replacing** Spal 006-B50-22.  
24 V.  
3 speed.  
Air flow full speed 1160 m<sup>3</sup>/H.  
w/ 0 psi static pressure.

**160557**

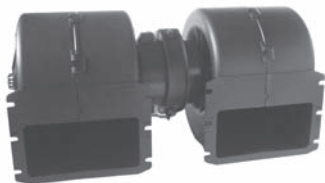
**Replacing** Spal 006-B40-22.  
24 V.  
3 speed.  
Air flow full speed 750 m<sup>3</sup>/H.  
w/ 0 psi static pressure.

N

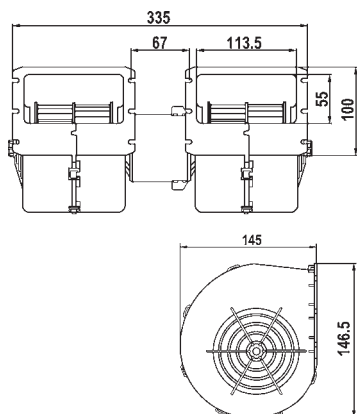
**160596**

**Replacing** Spal 006-B29-26D.  
24 V.  
3 speed.  
Air flow full speed 530 m<sup>3</sup>/H.  
w/ 0 psi static pressure.

## Miscellaneous Blowers



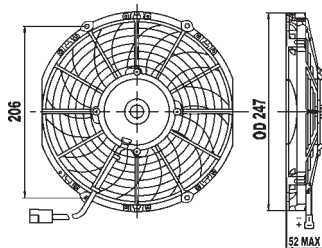
N



### 160594

**Replacing** Spal 009-B40-22.  
24 V.  
3 speed.  
Air flow full speed 1050 m<sup>3</sup>/H.  
w/ 0 psi static pressure.

## Axial Motor Fans



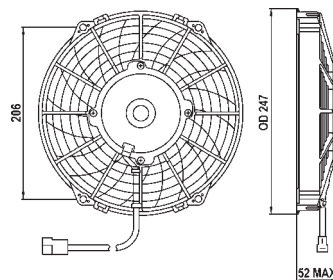
### 160537

**Replacing** Spal VA07-AP12/C58A.  
12 V.  
Fan O.D. 225 mm.  
Air flow full speed 1200 m<sup>3</sup>/H.  
Suction fan.

(Can replace: VA07-AP7/c-31A,  
VA07-AP8/c-58A, VA07-AP12/c-31A.)



N

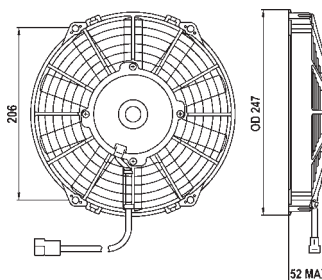


### 160597

**Replacing** Spal VA07-BP12/C58S.  
24 V.  
Fan O.D. 225 mm.  
Air flow full speed 1220 m<sup>3</sup>/H.  
Blowing fan.



N

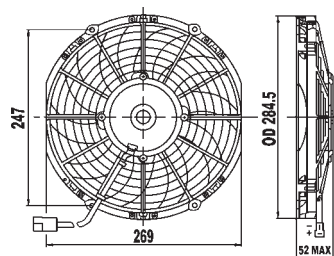


### 160588

**Replacing** Spal VA07-BP7/C31S.  
24 V.  
Fan O.D. 225 mm.  
Air flow full speed 1060 m<sup>3</sup>/H.  
Blowing fan.

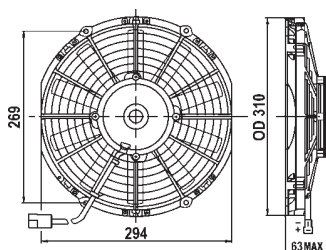
**Cross reference list page 117**

## Axial Motor Fans

**160539**

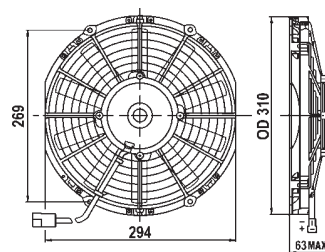
**Replacing** Spal VA11-AP7/C57A.  
12 V.  
Fan O.D. 255 mm.  
Air flow full speed 1350 m<sup>3</sup>/H.  
Suction fan.

(Can replace: VA11-AP7/c-29A,  
VA11-AP8/c-57A, VA11-AP8/c-29A.)

**160598**

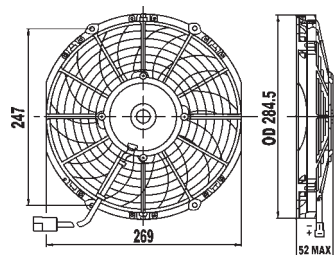
**Replacing** Spal VA09-AP12/C27A.  
12 V.  
Fan O.D. 280 mm.  
Air flow full speed 1630 m<sup>3</sup>/H.  
Suction fan.

(Can replace: VA09-AP12/c-54A,  
VA09-AP8/c-27A.)

**160599**

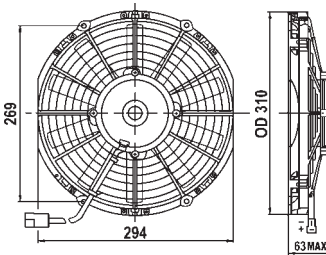
**Replacing** Spal VA09-BP12/c-54A.  
24 V.  
Fan O.D. 280 mm.  
Air flow full speed 1600 m<sup>3</sup>/H.  
Suction fan.

(Can replace: VA09-BP12/c-54A,  
VA09-BP12/c-27A, VA09-BP8/c-27A.)

**160587**

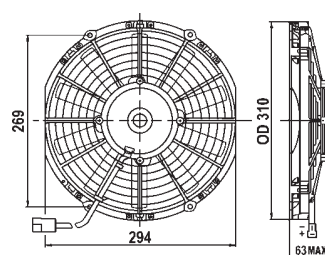
**Replacing** Spal VA11-BP12/C-57A..  
24 V.  
Fan O.D. 255 mm.  
Air flow full speed 1450 m<sup>3</sup>/H.  
Suction fan.

(Can replace: VA11-BP7/c-29A,  
VA11-BP12/c-29A.)

**160601**

**Replacing** Spal VA09-AP12/C27S.  
12 V.  
Fan O.D. 280 mm.  
Air flow full speed 1630 m<sup>3</sup>/H.  
Blowing fan.

(Can replace: VA09-AP12/c-54S,  
VA09-AP8/-27S.)

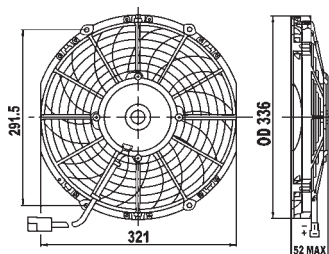
**160600**

**Replacing** Spal VA09-BP50/C27S.  
24 V.  
Fan O.D. 280 mm.  
Air flow full speed 1600 m<sup>3</sup>/H.  
Blowing fan.

(Can replace: VA09-BP12/c-54S,  
VA09-BP12/c-27S, VA09-BP8/c-27S.)



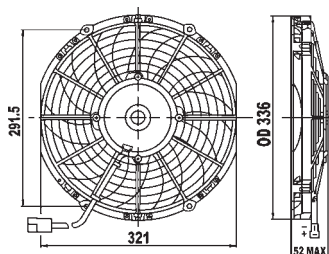
## Axial Motor Fans



### 160538

**Replacing** Spal VA10-AP10/C61A.  
12 V.  
Fan O.D. 305 mm.  
Air flow full speed 1750 m<sup>3</sup>/H.  
Suction fan.

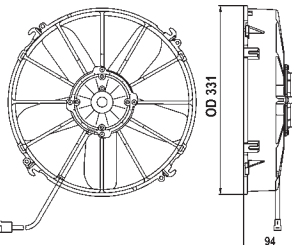
(Can replace: VA10-AP9/c-25A.)



### 160536

**Replacing** Spal VA10-AP10/C-61S.  
12 V.  
Fan O.D. 305 mm.  
Air flow full speed 1750 m<sup>3</sup>/H.  
Blowing fan.

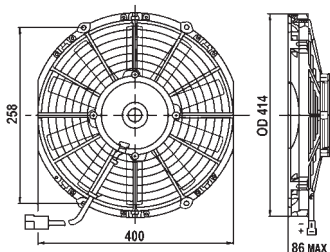
(Can replace: VA10-AP9/c-25S.)



### 160584

**Replacing** Spal VA01-BP70/LL-36A,  
VA01-BP1-36A.  
24 V.  
Fan O.D. 305 mm.  
Air flow full speed 2900 m<sup>3</sup>/H.  
Suction fan.

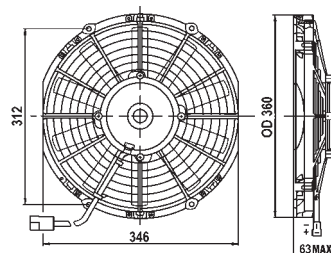
(Can replace: VA01-BP/-43A,  
VA10-BP/-61A, VA10-BP50/c-25A,  
VA10-BP10/c-61A, VA10-BP9/c-25A.)



### 160595

**Replacing** Spal VA18-BP70/LL-41MS,  
VA18-BP70-41MS.  
24 V.  
Fan O.D. 385 mm.  
Air flow full speed 4000 m<sup>3</sup>/H.  
Blowing fan.

(Can replace: VA18-BP13-42S,  
VA18-BP1-41S, VA18-BP51/c-41S, VA18-  
BP10/c-41S.)



### 160619

**Replacing** Spal VA34-BP70/LL-36S.  
24 V.  
Fan O.D. 331 mm.  
Air flow full speed 2130 m<sup>3</sup>/H.  
Blowing fan.



### 160624

**Replacing** Bosch 0130 007 304.  
12 V.  
Fan O.D. 200 mm.

**Cross reference list page 117**

## Blowers



### 160513

**Replacing** 357 820 021, 893 820 021.  
**Servicing** Audi, Seat, VW.



### 160514

**Replacing** 192 959 101.  
**Servicing** Audi, VW.  
RHD.



### 160515

**Replacing** 111 819 021 A,  
1J1 819 021 A.  
**Servicing** Audi, Seat, VW.



### 160620

**Replacing** 8D2820021.  
**Servicing** Audi, VW.  
RHD.



### 160621

**Replacing** 8A1820021.  
**Servicing** Audi, VW.



### 160516

**Replacing** 6411 385 124, -129.  
**Servicing** BMW.



### 160517

**Replacing** 6411 8 372 493,  
6411 8 390 851.  
**Servicing** BMW.



### 160518

**Replacing** 644195, 698046.  
**Servicing** Citroën, Peugeot.



### 160519

**Replacing** 644174, 698194, 698285.  
**Servicing** Peugeot.



### 160520

**Replacing** 893 819 021.  
**Servicing** Audi, VW.



### 160528

**Replacing** 79310.SR3.A01.  
**Servicing** Honda.

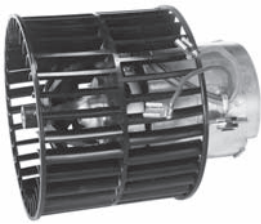


### 160540

**Replacing** 7701040540, 7701202851.  
**Servicing** Renault.



## Blowers



### 160547

**Replacing** 1808068, 43 66 746.  
**Servicing** Opel, Saab.



### 160550

**Replacing** 7 188 531.  
**Servicing** Ford.



### 160553

**Replacing** 7701035892.  
**Servicing** Renault Master.  
W/ A/C.



### 160554

**Replacing** 701 819 012B, 357 819 021.  
**Servicing** VW.



### 160555

**Replacing** 702 819 021 A.  
**Servicing** VW.  
RHD.



### 160559

**Replacing** 894 820 021.  
**Servicing** VW.  
RHD.



### 160560

**Replacing** 64 41 96, 95 65 84 43.  
**Servicing** Citroën, Peugeot.  
RHD.



### 160561

**Replacing** 64 41 93, 64 41 G4.  
**Servicing** Peugeot.  
RHD.



### 160562

**Replacing** 64 41 L0.  
**Servicing** Peugeot.  
RHD.



### 160564

**Replacing** 0028 30 15 08.  
**Servicing** Mercedes.



### 160590

**Replacing** 1H1 820 021.  
**Servicing** VW.  
RHD.



### 160591

**Replacing** 1H1 819 021.  
**Servicing** VW.

**Applications list page 77**  
**Cross reference list page 117**

## Blowers



### 160693

**Replacing** 1027753, 97BW18456AA.  
**Servicing** Ford.  
LHD.



### 160709

**Replacing** 0130 111 156,  
90 90 332 204.  
**Servicing** Kangoo, Renault.  
12 V.



### 160694

**Replacing** 1027752, 1027754.  
**Servicing** Ford.  
RHD.



### 160631

**Replacing** MB 001 830 56 08.  
**Servicing** Mercedes.



### 160710

**Replacing** 0130 111 162, 4A0 959 101A.  
**Servicing** Audi.

## Blower Resistors



### 160548

**Replacing** 1845786, 90421995.  
**Servicing** Opel, Saab, Vauxhall.  
3 speed.  
4+2 terminals.



### 160549

**Replacing** 1845 789, 90383817.  
**Servicing** Opel, Vauxhall.  
4 speed.  
5+2 terminals.



### 160565

**Replacing** 644178.  
**Servicing** Citroën, Peugeot.  
4 speed.  
4+1+1 terminals.



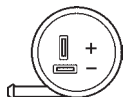
### 160566

**Replacing** 77 01 034 874, 875.  
**Servicing** Renault.  
4 speed.  
4+2 terminals.

**Applications list page 77**  
**Cross reference list page 117**

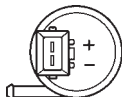
**Cross reference list page 117**

## Windscreen Washer Motors



### 160197

**Replacing** VDO 246.075/042/001.  
**Servicing** Audi, BMW, Ford, Mercedes, Opel, Porsche, VW.  
 12 V.  
 Universal.  
 Fits Cargo 160186 and 160187.



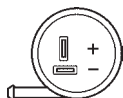
### 160378

12 V.  
 Universal.  
 As Cargo 160197, but different terminal arrangement.



### 160360

**Servicing** Cargo 160001, Rover Group, Honda.  
 12 V.



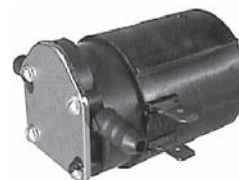
### 160198

**Replacing** VDO 246.082/003/001.  
**Servicing** Scania,  
 24 V.  
 Universal.  
 Fits Cargo 160188 and 160273.



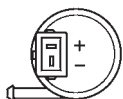
### 160379

12 V.  
 Universal.  
 As Cargo 160197, but different terminal arrangement.



### 160361

**Replacing** Original pump 115 930 290.  
 on Skoda Favorit.  
 12 V.



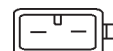
### 160377

12 V.  
 Universal.  
 As Cargo 160197, but different terminal arrangement.



### 160385

12 V.  
 Universal.  
 As Cargo 160197, but different terminal arrangement.



### 160677

**Servicing** Daewoo, Hyundai, Kia, Mazda, Mitsubishi, Toyota.  
 12 V.

**Cross reference list page 117**

## Windscreen Washer Motors

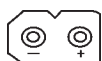
N

**160678**

**Servicing** Chrysler, Daewoo, Hyundai,  
Jeep, Kia, Toyota.  
12 V.

**160679**

**Servicing** Mercedes.  
12 V.

**160680**

**Servicing** BMW.  
12 V.

N

**160681**

**Servicing** Audi.  
12 V.

**160682**

**Servicing** Audi.  
12 V.

**160684**

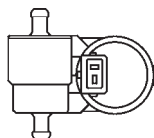
**Servicing** Citroën, Fiat.  
12 V.

N

**160583**

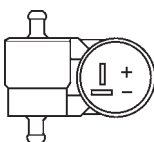
**Servicing** Mazda.  
12 V.  
Rear.

## Windscreen Washer Motors



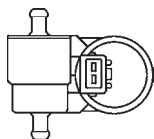
### 160380

12 V.  
Universal dual pump.



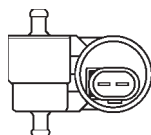
### 160381

**Servicing** Fiat, Opel, Vauxhall, VW.  
12 V.  
Universal dual pump.  
As Cargo 160380, but  
different terminal arrangement.



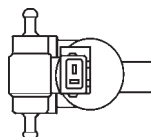
### 160382

12 V.  
Universal dual pump.  
As Cargo 160380, but  
different terminal arrangement.



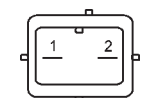
### 160383

12 V.  
Universal dual pump.  
As Cargo 160380, but  
different terminal arrangement.



### 160535

**Replacing** Ford 87AB17K624AC,  
86VB17K624AA, Hella 8TW006847-001.  
**Servicing** Ford, Mazda.  
12 Volt.  
Dual pump.



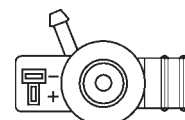
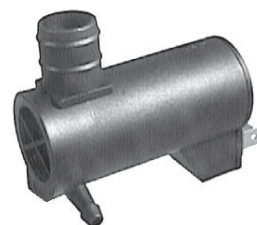
### 160629

**Replacing** 6434.60, 9612358180.  
**Servicing** Citroën, Fiat, Peugeot.  
12 V.



### 160683

**Servicing** Audi, BMW, Seat, VW.  
12 V.



### 160386

12 V.  
Universal.



### 160630

24 V.  
Universal.  
Fits Cargo 160273.

**Cross reference list page 117**

## Windscreen Washer Motors



### 160223

12 V.  
Universal.  
36 litre/h.  
For independent mounting in engine compartment.



### 160507

24 V.  
Universal.  
36 litre/h.



### 160332

12 V.  
As Cargo 160223, but  
H.D. 60 litre/h.

### 160289

24 V.  
As Cargo 160332, but  
H.D. 80 litre/h.

## Windscreen Washers



### 160001

12 V. 1.5 litre can.  
Complete w/ washer motor, jets, switch,  
cable, terminals,  
T-connector and pipe.

Washer motor: Cargo 160360.



### 160186

12 V. 1.2 litre can.  
Complete w/ washer motor, jets, switch,  
cable, terminals,  
T-connector and pipe.

Washer motor: Cargo 160386.

### 160273

24 V. 1.2 litre can.  
Complete w/ washer motor, jets, switch,  
cable, terminals,  
T-connector and pipe.

Washer motor: Cargo 160630.



### 160187

12 V. 3 litre can.  
W/ washer motor.  
W/o accessories.

Washer motor: Cargo 160360.

### 160188

24 V. 3 litre can.  
W/ washer motor.  
W/o accessories.

Washer motor: Cargo 160198.



## Jets



**160190** Std pkg 10  
Single jet, w/ wing nut.



**160192** Std pkg 10  
Double jets, w/ wing nut.



**160687**  
Single jet, w/ wing nut. Universal.  
L.: 32.5 mm.



**160685**  
Double jet, long. Universal.  
L.: 52.25 mm.



**160191** Std pkg 10  
Single jet, snap-on fitting.



**160193** Std pkg 10  
Double jets, snap-on fitting.



**160194** Std pkg 10  
Double jets, w/ nut.



**160686**  
Single jet. Universal.



**160688**  
Double jet. Universal.

## T-Connections



**160195** Std pkg 10  
W/o valve.  
For 4 mm. hose I.D.



**160196** Std pkg 10  
W/ valve.  
For 4 mm. hose I.D.



**160412** Std pkg 10  
W/o valve.  
For 4 mm. hose I.D.



**160413** Std pkg 10  
W/ valve.  
For 4 mm. hose I.D.

## Plastic Pipes



÷15° to +60° C.

Std pkg 50 mtr.

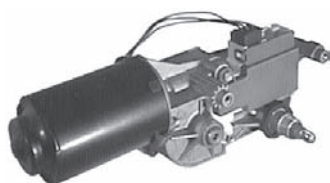
	I.D. mm.
<b>190094</b> .....	4

## Wiper Motors



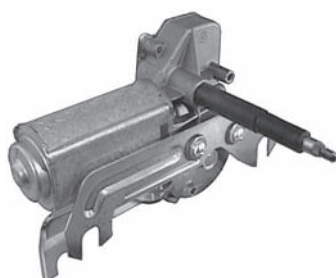
### 160150

**Servicing** Fiat 127 and Lada 2101.  
12 V.



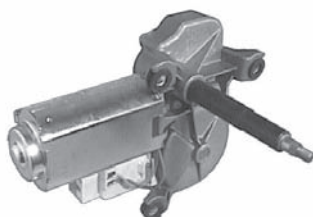
### 160376

**Replacing** Magneti Marelli 7618893,  
064342601010, TGE 426A.  
**Servicing** Fiat Uno.  
12 V.



### 160406

**Replacing** Magneti Marelli 643 405 37,  
TGE 405A, AK.  
**Servicing** Fiat Uno -89.  
Rear.  
12 V.



### 160405

**Replacing** Magneti Marelli 643 419 01,  
TGE 419A, E.  
**Servicing** Fiat Tipo, Fiat Uno 90-.  
Rear.  
12 V.



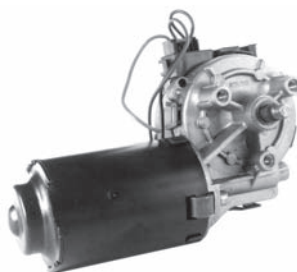
### 160395

**Replacing** Nissan 28810-G9708,  
Doga 111.9001.2B.00.

**Servicing** Nissan Patrol 86-93.  
Rear.  
12 V.

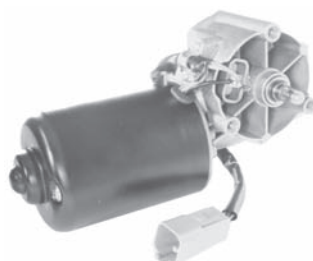
### 160396

As Cargo 160395, but  
24 V.



### 160671

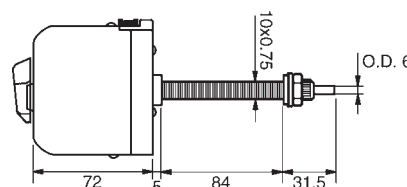
**Replacing** 9948873, Tge-422.  
**Servicing** Citroën. Fiat, Peugeot.  
12 V.  
Front.



### 160704

**Replacing** Doga 119.9046.3B 00.  
**Servicing** Scania 94-164, 95-04.  
24 V.  
AUTO stop.

## Wiper Motors - Universal



### 160031

**Replacing** SWF 402227,  
Doga 112.1380.2B.00.  
12 V. 85°.

Fitted with an interchangeable bearing  
allowing the shaft to be cut to any size.  
W/ switch. No autostop.

### 160032

**Replacing** SWF 402230,  
Doga 112.1380.3B.00.  
24 V. 85°.

Fitted with an interchangeable bearing  
allowing the shaft to be cut to any size.  
W/ switch. No autostop.

### 160033

**Replacing** SWF 402229,  
Doga 112.1580.2B.00.  
12 V. 110°.

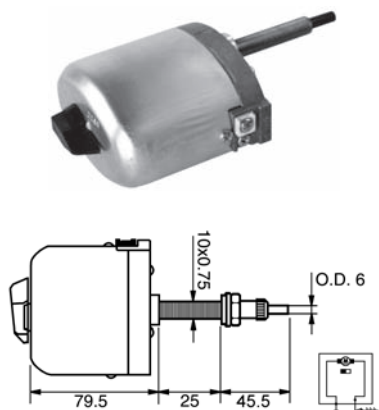
Fitted with an interchangeable bearing  
allowing the shaft to be cut to any size.  
W/ switch. No autostop.

### 160034

**Replacing** SWF 402231,  
Doga 112.1580.3B.00.  
24 V. 110°.

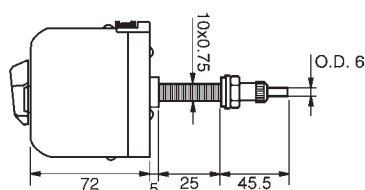
Fitted with an interchangeable bearing  
allowing the shaft to be cut to any size.  
W/ switch. No autostop.

## Wiper Motors - Universal



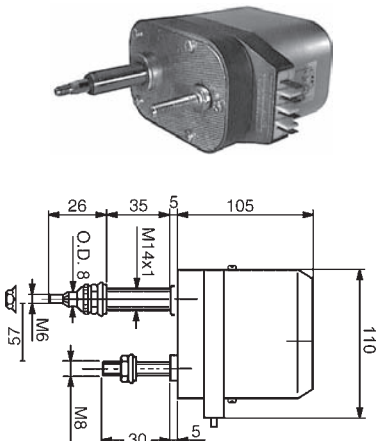
### 160506

**Replacing** Doga 112.1540.2B.00.  
12 V. 110°.



### 160558

**Replacing** Doga 112.1340.2B.04.  
Rear.  
12 V. 85°.  
Black motor.

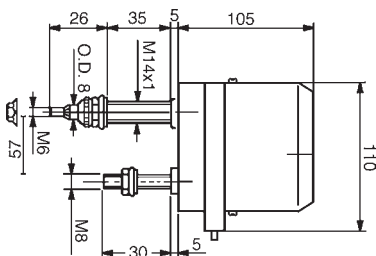
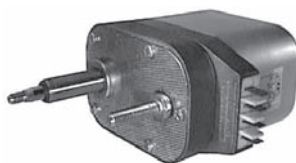


### 160290

**Replacing** Doga 113.5623.2B.10.  
12 V. 95°.  
W/ reciprocating shaft.  
Distance between shafts 57 mm.  
Automatic stop left side.  
W/o switch.

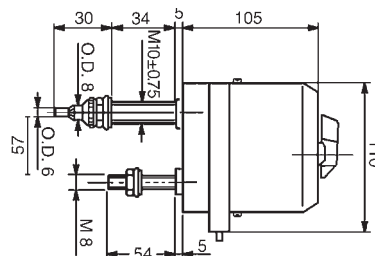
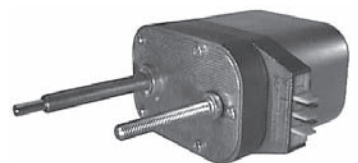
### 160291

**Replacing** Doga 113.5623.3B.10.  
As Cargo 160290, but  
24 V.



### 160357

**Replacing** Doga 113.5440.2B.00.  
12 V. 90°.  
W/ reciprocating shaft.  
Distance between shafts 57 mm.  
No autostop.  
W/ switch.

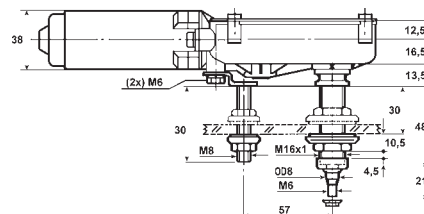
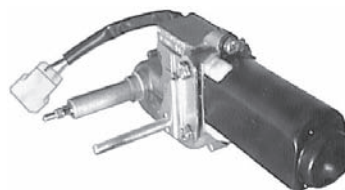


### 160292

**Replacing** Doga 113.2550.2B.00.  
12 V. 110°.  
W/ reciprocating shaft.  
Distance between shafts 57 mm.  
No autostop.  
W/ switch.

### 160293

**Replacing** Doga 113.2550.3B.00  
As Cargo 160292, but  
24 V.



### 160258

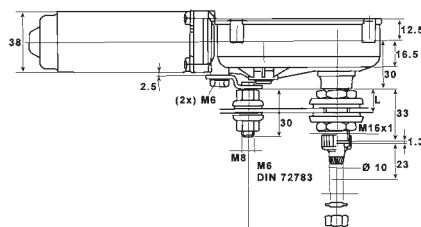
**Replacing** Doga 116.5565.2B.D0.E.  
12 V. 95°.  
W/ reciprocating shaft.  
Distance between shafts 57 mm.  
Automatic stop.  
W/o switch.

### 160408

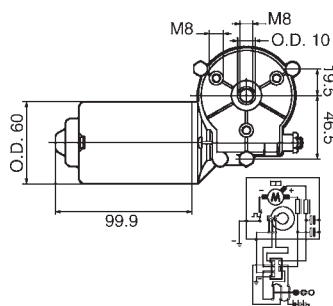
**Replacing** Doga 116.5565.3B.D0.E.  
As Cargo 160258, but  
24V.

**Cross reference list page 117**

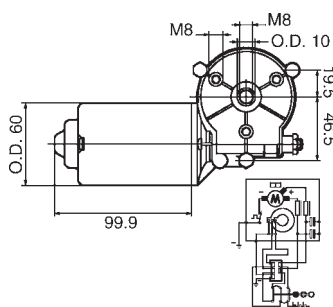
## Wiper Motors - Universal

**160659**

**Replacing** Doga 116.5365.2B.10.E.  
12 V. 85 °.  
Distance between shafts 57 mm.  
1 speed.  
6 mm. cone shaft.  
AUTO stop.

**160503**

**Replacing** Doga 111.3756.2B.00.  
12 V.  
AUTO stop.

**160504**

**Replacing** Doga 111.3756.3B.00.  
24 V.  
AUTO stop.

## Accessories

**160614**

**Replacing** 100.5050.09.00.  
Wipermotor type 111. . . .  
20 x 1.0 mm.

**160615**

**Replacing** 100.5051.09.00.  
Wipermotor type 111. . . .  
20 x 1.0 mm. and 16 x 1.0 mm.

**160616**

**Replacing** 100.5030.09.00.  
Wipermotor type 113. . . .  
20 x 0.75 mm.

**160617**

**Replacing** 100.5014.09.00.  
Wipermotor type 113. . . .  
14 x 1.0 mm.

**160618**

**Replacing** 100.5020.09.00.  
Wipermotor type 116. . . .  
16 x 1.0 mm.

**Cross reference list page 117**

## Wiper Motors - Universal

### Brushes for Wiper Motors



**SW126** Std pkg 10 **A**  
 Replacing SWF 495 299.  
 6.4 x 6.4 x 11.2 mm.

Cross reference list page 117

## Wiper Blades



For Passenger Cars



Single.

<b>160628</b>	280 mm.	(11")
<b>160633</b>	330 mm.	(13")
<b>160635</b>	350 mm.	(14")
<b>160638</b>	380 mm.	(15")
<b>160641</b>	410 mm.	(16")
<b>160643</b>	430 mm.	(17")
<b>160645</b>	450 mm.	(18")
<b>160648</b>	480 mm.	(19")
<b>160650</b>	500 mm.	(20")
<b>160653</b>	530 mm.	(21")
<b>160655</b>	550 mm.	(22")
<b>160661</b>	610 mm.	(24")



Single w/ spoiler.

<b>160741</b>	400 mm.	(16")
<b>160745</b>	450 mm.	(18")
<b>160748</b>	480 mm.	(19")
<b>160750</b>	500 mm.	(20")
<b>160753</b>	530 mm.	(21")
<b>160755</b>	550 mm.	(22")
<b>160761</b>	610 mm.	(24")
<b>160766</b>	660 mm.	(26")
<b>160771</b>	710 mm.	(28")



### 160586

Display for wiperblades, for passenger cars.



### 160711

Servicing Aerospoiler.  
 L.: 750 mm.

## DOGA

For Passenger Cars



### 160147

Assortment of D-FU-blades.  
 108 wiperblades in 16 types, covers almost 100% of vehicles made all over the world.

### 160148

Display only.



<b>D 38*</b>	380 mm.	(15")
<b>D 40*</b>	400 mm.	(16")
<b>D 47</b>	470 mm.	(19")
<b>D 53</b>	530 mm.	(21")
<b>D 55</b>	550 mm.	(22")
<b>D 60</b>	600 mm.	(24")
<b>D 70</b>	700 mm.	(28")

\* set of 2.



Set incl. 1 blade w/ spoiler and 1 standard D-blade.

**FU 45\*** 450 mm. (18")  
 \*set of 2

Applications list page 77  
 Cross reference list page 117  
 Adaptor list page 65



## Wiper Blades



<b>S 2*</b>	1 x 500 mm. (20")
	1 x 480 mm. (19")
<b>S 5</b>	1 x 558 mm. (22")
	1 x 400 mm. (16")
<b>S 6</b>	1 x 600 mm. (24")
	1 x 480 mm. (19")
<b>S 8</b>	1 x 480 mm. (19")

\* set incl. 1 blade w/ spoiler and 1 standard D-blade.

### Adaptorset for Wiper Blades



### D 135

To be used together with D-FU-blades where X or Z adaptor is recommended  
Set for 2 blades.

### DOGA / OPTIMA



Single.

<b>280</b>	1 x 280 mm. (11")
<b>330</b>	1 x 330 mm. (13")
<b>400</b>	1 x 400 mm. (16")
<b>450</b>	1 x 450 mm. (18")
<b>480</b>	1 x 480 mm. (19")
<b>500</b>	1 x 500 mm. (20")
<b>530</b>	1 x 530 mm. (21")
<b>550</b>	1 x 550 mm. (22")
<b>600</b>	1 x 600 mm. (24")
<b>650</b>	1 x 650 mm. (26")
<b>700</b>	1 x 700 mm. (28")



Single w/ spoiler.

<b>S530</b>	1 x 530 mm. (21")
<b>S550</b>	1 x 550 mm. (22")
<b>S600</b>	1 x 600 mm. (24")
<b>S650</b>	1 x 650 mm. (26")



<b>S4545*</b>	2 x 450 mm.
<b>S4848*</b>	2 x 480 mm.
<b>S5045*</b>	1 x 500 mm.
	1 x 450 mm.
<b>S5050*</b>	2 x 500 mm.
<b>S5348*</b>	1 x 530 mm.
	1 x 480 mm.
<b>S5550*</b>	1 x 550 mm.
	1 x 500 mm.
<b>S5555*</b>	2 x 550 mm.
<b>S6055</b>	1 x 600 mm.
	1 x 500 mm.

\* set incl. 1 blade w/ spoiler and 1 standard blade.

**Applications list page 77**  
**Cross reference list page 117**  
**Adaptor list page 65**

### DOGA

**For Trucks**

# = blades can be used with wiperarms Cargo 160256 , 160257, 160338, 160339, 160358, 160359, 160608, 160571, 160484 and 160485.



			Type
<b>160321 #</b>	400 mm.	(16")	P40
<b>160322 #</b>	450 mm.	(18")	P45
<b>160323 #</b>	500 mm.	(20")	P50.1
<b>160324</b>	500 mm.	(20")	P50.2
<b>160325</b>	600 mm.	(24")	P60.1
<b>160326 #</b>	600 mm.	(24")	P60.3
<b>160327 #</b>	650 mm.	(26")	P65.1
<b>160370</b>	650 mm.	(26")	P65.2
<b>160328 #</b>	700 mm.	(28")	P70
<b>160411</b>	700 mm.	(28")	P70.2
<b>160329</b>	800 mm.	(32")	P80
<b>160330</b>	1000 mm.	(40")	P100



### 160309

Display for wiperblades, for trucks.

**Applications list page 77**  
**Cross reference list page 117**  
**Adaptor list page 67**



## Wiper Blades

### Universal



#### 160019

300 mm.  
For 8 x 2 / 8 x 2.5 mm. arm.



#### 160025

360 mm.  
For 8 x 2 / 8 x 2.5 mm. arm.

#### 160026 #

400 mm.  
For 8 x 2 / 8 x 2.5 mm. arm.



#### 160028 #

330 mm.  
For 8 x 2 / 8 x 2.5 mm. arm.

#### 160035 #

350 mm.  
For 8 x 2 / 8 x 2.5 mm. arm.



**Servicing** Cargo 160484, 160485, 160486 and 160487.

#### 160488

280 mm.

#### 160489

350 mm.

#### 160490

400 mm.

#### 160491

450 mm.

#### 160492

500 mm.

## Wiper Arms



#### 160022

8 x 2 mm.  
390 mm.  
For 6 mm. shaft.

#### 160023

8 x 2 mm.  
420 mm.  
For 6 mm. shaft.

#### 160024

8 x 2.5 mm.  
450 mm.  
For 6 mm. shaft.



#### 160486

Adjustable L. 340-420 mm.  
For 8 mm. cone shaft.



#### 160487

Adjustable L. 430-500 mm.  
For 8 mm. cone shaft.

**Cross reference list page 117**

## Wiper Arms



### 160338

700 mm.  
2 arms for 8 mm. cone shaft.  
Distance between shafts 55 mm.  
Usable with wiper motor Cargo 160340 and 160345.



### 160608

L. 680 mm.  
2 arms for 8 mm. cone shaft.  
Distance between shafts 110 mm.  
**Replacing** Doga 127.1601.GA.04.



### 160257

400 mm.  
1 arm for 6 mm. cone shaft.  
1 arm for 8 mm. shaft.  
Distance between shafts 57 mm.  
Usable with wiper motor Cargo 160258, 160290, 160291, 160357 and 160408.

### 160256

450 mm.  
1 arm for 6 mm. cone shaft.  
1 arm for 8 mm. shaft.  
Distance between shafts 57 mm.  
Usable with wiper motor Cargo 160258, 160290, 160291, 160357 and 160408.

### 160358

500 mm.  
1 arm for 6 mm. cone shaft.  
1 arm for 8 mm. shaft.  
Distance between shafts 57 mm.  
Usable with wiper motor Cargo 160258, 160290, 160291, 160357 and 160408.

### 160359

550 mm.  
1 arm for 6 mm. cone shaft.  
1 arm for 8 mm. shaft.  
Distance between shafts 57 mm.  
Usable with wiper motor Cargo 160258, 160290, 160291, 160357 and 160408.

### 160339

400 mm.  
1 arm for 6 mm. shaft.  
1 arm for 8 mm. shaft.  
Distance between shafts 57 mm.  
Usable with wiper motor Cargo 160292 and 160293.



### 160571

L. 680 mm.  
2 arms for 8 mm. cone shaft.  
Distance between shafts 60 mm.  
**Replacing** Doga 127.0907.GA.04.



### 160484

Adjustable L. 340-420 mm.  
8 mm. cone shafts.  
Distance between shafts 57 mm.  
Usable w/ wiper motor Cargo 160258 and 160480.

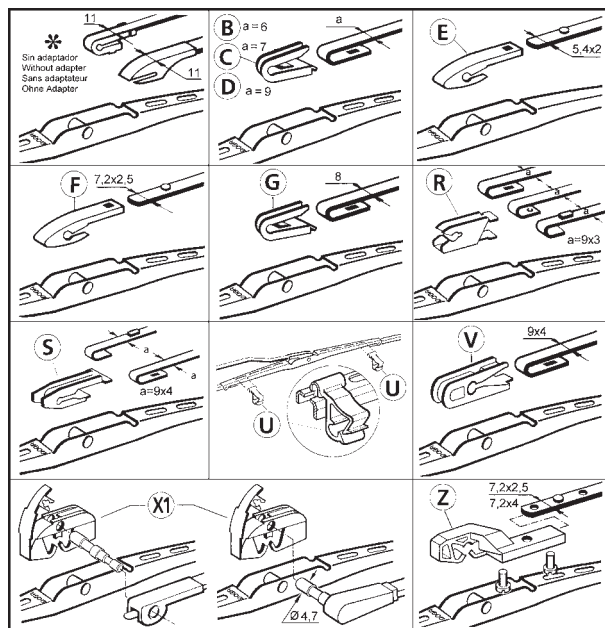
### 160485













As Cargo 160484, but  
Adjustable L. 430-500 mm.

## Adaptor List for Passenger Cars

**DOGA**

**D + S + FU**



Ref.													
			11 (*)	5,4 (E)	7,2 (F)	6 (B)	7 (C)	8 (G)	9 (D)	9x4 (V)	Ø47 (U)	7,2 (X1)	7,2 (Z)
D 38	380 mm. (15")	2			F		C	G	D			X1	Z
D 40	400 mm. (16")	2	*		F		C	G	D			X1	Z
D 45	450 mm. (18")	2	*		F			G	D			X1	Z
(a) D 47	478 mm. (19")	1							D				
D 53	530 mm. (21")	1							D	V			
D 55	558 mm. (22")	1	*					G	D	S/V			
D 60	600 mm. (24")	1							D	S/V			
S 2	500 mm. Spoiler 480 mm.	2							D	V			
S 3	558 mm. Spoiler 500 mm.	2							D	S/V	U		
S 5	558 mm. 400 mm.	2							D				
S 6	600 mm. 480 mm.	2							D	S/V			
S 8	480 mm.	1	*					G	R	S/V		X1	
S 9	530 mm. Spoiler 480 mm.	2							D	S/V			
FU 45	450 mm. Spoiler 450 mm.	2	*					G	D				
FU 48	480 mm. Spoiler 480 mm.	2	*					G	D	V			
FU 50	500 mm. Spoiler 500 mm.	2	*					G	D	S/V			
FU 53	530 mm. Spoiler 530 mm.	2							D	V			
FU 55	558 mm. Spoiler 558 mm.	2	*						D	S/V	U		

**(a) Assymetrical**

Applications list page 77

## Adaptor List for Passenger Cars










### DOGA / OPTIMA

Ref.		* No adaptor																									Z	Kit
			M5.4 x 2	M7.5 x 2.5	B6 x 2	C7 x 2.2	G8 x 3	D9 x 2.5	V9 x 4	T12 x 4	O9 x 2.5	O9 x 3	O9 x 4	U	X7.2 x 2.5	Z7.2 x 4												
280	1x180 mm (11")	*	E	F	B	C		D																				135
330	1x330 mm (13")	*	E	F		C	G	D																				135
400	1x400 mm (16")	*		F		C	G	D																				135
450	1x450 mm (18")	*					G							O														135
480	1x480 mm (19")	*												O														
500	1x500 mm (20")	*												O														
530	1x530 mm (21")													O														
S530	1x530 mm (21") (spoiler)													O														
550	1x558 mm (22")													O														136
S550	1x558 mm (22") (spoiler)													O														
600	1x600 mm (24") (spoiler)													O														133 136
S601	1x600 mm (24") (spoiler)								V1																			
650	1x650 mm (26")													O														133 136
S650	1x650 mm (26") (spoiler)													O														136
700	1x700 mm (26")														V1	T												
4040	1x400 mm (16") 1x400 mm (16")	*		F		C	G	D																				135
S4545	1x450 mm (18") (spoiler) 1x450 mm (18")	*					G							O														
S4848	1x480 mm (18") (spoiler) 1x480 mm (19")													O														
S5045	1x500 mm (20") (spoiler) 1x450 mm (18")													O														
S5050	1x500 mm (20") (spoiler) 1x500 mm (20")	*												O														
S5348	1x530 mm (21") (spoiler) 1x480 mm (19")													O														
S5550	1x558 mm (22") (spoiler) 1x500 mm (20")													O							U							
S5555	1x558 mm (22") (spoiler) 1x558 mm (22")													O							U							
6055	1x600 mm (24") 1x558 mm (22")													O														

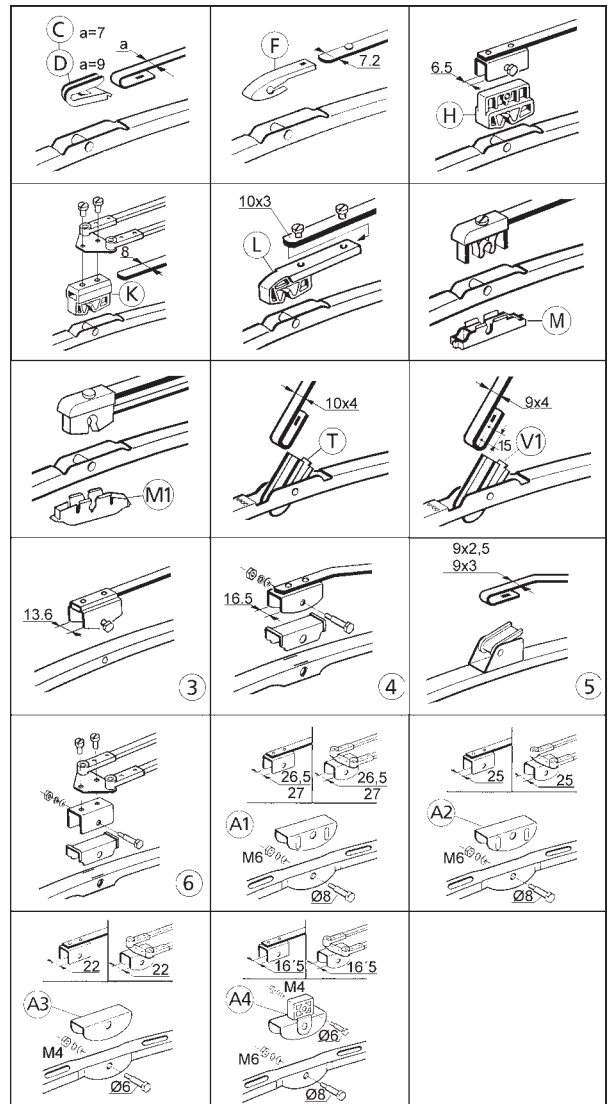
## Adaptor List For Trucks

**DOGA**

**P**

Ref.																	
	mm		7,2x 2,5	7x2,2	12x4	8x2,5	6,5	13,6	16,5	22	25	26,5 27	DOGA	10x3			
			(F)	(C)	(D) (S)	(T) (V)	(K)	(H)	(3)	(4) (A4)	(A3)	(A2)	(A1)	(K) (6)	(L)	(M) (M1)	
<b>160321</b>	400	1	F	C	D		K	H						K			
<b>160322</b>	450	1			D			H						K	L		
<b>160323</b>	500	1		C	D									K		M	
<b>160324</b>	500	1							3								
<b>160325</b>	600	1															
<b>160371</b>	600	1			5				3								
<b>160326</b>	600	1								4				6			
<b>160369</b>	600	1				T V1										M1	
<b>160327</b>	650	1								4				6			
<b>160370</b>	650	1				T V1											
<b>160328</b>	700	1								4				6			
<b>160411</b>	700	1				T V1											
<b>160329</b>	800	1								A4		A2	A1				
<b>160330</b>	1000	1									A3	A2	A1				

***All blades of the "P" range are supplied in black finish.***

**Applications list page 77**

## Axle Shift Motors

**For Eaton**



### 160102

Axle shift motor.  
24 V. 2 Speed.



### 160098

Terminal block switch.

### 160100

Std pkg 50  
Nut for terminals Cargo 160098.

## Horns



O.D. 100 mm. w/ bracket.  
2 terminals. 400 Hz.  
E-approved.

### 160059

12 V.

### 160302

24 V.



O.D. 100 mm. w/ bracket.  
2 terminals. 335 Hz.  
E-approved.

### 160335

12 V.

### 160336

24 V.

### 160393

36-48 V.



O.D. 100 mm.  
W/ bracket.  
W/ K-Jetronic connection. 335 Hz.  
E-approved.

### 160658

Replacing VW 191951113B.  
12 V.



### 160712

Replacing 191 951 221.  
Fanfare horn.  
W/ K-Jetronic connection.  
12 V.



### 160036

Twin fanfare horn, red w/ chromium  
grilles,  
410 - 510 Hz.  
W/ relay.  
12 V.  
E-approved.



Electromagnetic marine and truck horns.  
340 Hz.  
Full stainless steel for extra corrosion  
resistance.  
To be used on boats not in excess  
of 12 mtr.  
L. 455 mm.

### 160415

12 V.

### 160414

24 V.



## Horns

### Air Horns for Cars



#### 160002

Twin compressor horns, w/ parts.  
850 - 700 Hz.  
12 V.  
E-approved.



#### 160508

Dual tone compressor horn.  
825 - 670 HZ.  
24 V.

### Air Horns Marine



High quality.

#### 160634

L. 450 mm. O.D. 200 mm.  
12 V.  
630 Hz.  
Sound level: 123 Db. at 30 cm.  
In white enamel brass trumpet.  
Heavy duty compressor, w/ water separator.  
10 mtr. PVC hose and mounting accessories.  
Meets colreg. 1972 imo class.  
Regulation approvals:  
Rina ELE/35398/2.  
LLoyd's register MSA 9800031.



High quality.

#### 160632

L. 500 mm.  
24 V.  
228 Hz.  
Sound level: 111 Db. at 30 cm.  
Non corrosive trumpet.  
Approved for boats until 12 mtr.



#### 160708

Marine compressor horn.  
12 V.  
Approved for boats until 12 mtr.

Contains:

- 1 compressor horn,  
white enamel brass,  
L.: 250 mm.  
425 Hz.
- 1 compressor.
- 5 mtr. 8 mm. hose.

### Marine Air Trumpets



#### 160048

L. 352 mm.  
370 Hz.  
Chromium plated and stainless.  
To be powered by electric air compressor.  
Audibility at least 1500 mtr. over open water.  
Approved for boats until 20 mtr.

#### 160047

L. 500 mm.  
228 Hz.  
Chromium plated and stainless.  
To be powered by electric air compressor.  
Audibility at least 1500 mtr. over open water.  
Approved for boats until 20 mtr.

## Horns

### Pneumatic Horns



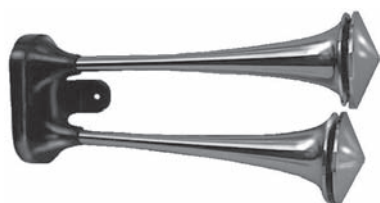
Single horn.  
Operating pressure 300 - 1200 kPa.  
For trucks equipped w/ on-board air.

#### 160355

L. 600 mm.  
210 Hz.  
E-approved.

#### 160356

L. 680 mm.  
190 Hz.



#### 160038

Twin horn.  
Operating pressure 500 - 1200 kPa.  
For trucks equipped w/ on-board air, or to be equipped with Cargo 160333 / 160334 compressor.  
L. 350 mm.  
392/415 Hz.  
E-approved.

### Accessories



**190097** Std pkg 50 mtr.  
÷15° to +60° C.  
I.D. 8 mm.



**160042** Std pkg 10  
Y-connector.  
For hose I.D. 8 mm.



**160656**  
L. 250 mm.  
424 Hz.  
In white enamel brass trumpet.



#### 160333

12 V.  
For 1, 2 and 3-tone horns.

#### 160334

As Cargo 160333, but  
24 V.

N



#### 160713

12 V.  
Excellent w/ horns type Cargo 160047 and 160048.  
Type MC-2 FALG.



#### 160213

24 V.  
Heavy Duty compressor.



#### 160039

Electric valve for pneumatic horns.  
24 V.



#### 160041

Foot air valve for pneumatic horns.  
Fittings included.

## Reversing Alarms



### 160298

12 V.  
Buzzer type, water resistant.  
Sound level: 90 Db. at 1 mtr.  
Suitable for light and medium trucks.

### 160299

As Cargo 160298, but  
24 V.



### 160689

Dual voltage 12 / 24 V.  
Waterproof.  
3200 Hz.  
Sound level: 85 Db. at 1 mtr.



### 160481

Dual voltage 12 / 24 V.  
Waterproof.  
Overvoltage protection.  
Night silent standard.  
2500 Hz.  
Sound level: 96 Db. at 1 mtr.



### 160482

Dual voltage 12 / 24 V.  
Waterproof.  
Overvoltage protection.  
Night silent standard.  
Night silent automatic override by fog lights for added safety.  
Mounting boss to fit directly onto conduit.  
900 Hz.  
Sound level: 100 Db. at 1 mtr.  
ADR approved.



### 160346

Bi-bulb.  
W/ "Beep-Beep" warning sound.  
12 V. 20 Watt halogen lamp, BA 15S.

### 160410

As Cargo 160346, but  
24 V.



### 160534

12 V.  
400 Hz.  $\pm$  100 Hz.  
Sound level: 97 Db. at 30 cm.  
Consumption: 25 mA.



### 160533

24 V.  
400 Hz.  $\pm$  100 Hz.  
Sound level: 99 Db. at 30 cm.  
Consumption 21 mA.



### 160636

48 V.  
400 Hz.  $\pm$  100 Hz.  
Sound level: 97 Db. at 30 cm.  
Consumption 18 mA.

## Cigarette Lighters

**160294**

12 V.  
Universal.  
W/o light.

---

**160300**

12 V.  
Universal.  
W/ light.

---

**160551**

24 V.  
Universal.  
W/ light.

---

**160409**

6-12-24 V.  
Universal.  
No resistance.  
W/o light.  
Socket only. W/ cap.

---



## **ASSORTMENTS**

### **PART 7** **4<sup>th</sup> Edition**



ISO/TS 16949:2002 certified supplier



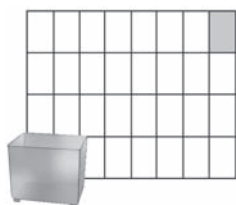
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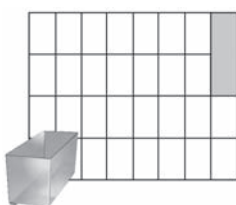
**Assortment Box and Inserts**


**200663** Std pkg 6  
Profi Service Case, empty.  
Can be divided using inserts.  
Dim.: 340 x 265 x 57 mm.  
Polypropylene (Unbreakable).

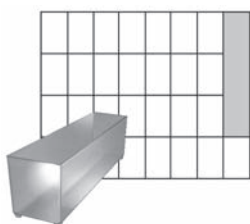
**INSERTS FOR  
ASSORTMENT BOXES  
Polypropylene  
(Unbreakable)**



**200664** Std pkg 96  
Dim.: 55 x 40 x 45 mm.



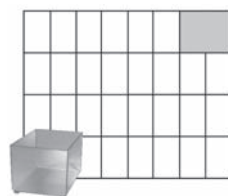
**200665** Std pkg 48  
Dim.: 110 x 40 x 45 mm.



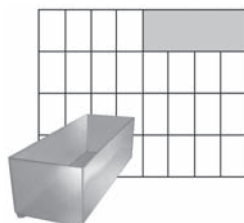
**200666** Std pkg 30  
Dim.: 165 x 40 x 45 mm.



**200667** Std pkg 24  
Dim.: 220 x 40 x 45 mm.



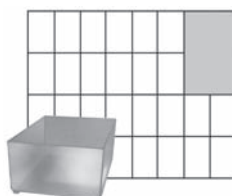
**200668** Std pkg 48  
Dim.: 55 x 80 x 45 mm.



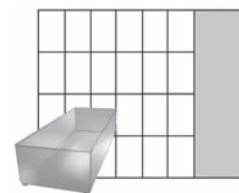
**200669** Std pkg 24  
Dim.: 55 x 160 x 45 mm.



**200670** Std pkg 15  
Dim.: 55 x 240 x 45 mm.



**200671** Std pkg 24  
Dim.: 110 x 80 x 45 mm.



**200672** Std pkg 12  
Dim.: 220 x 80 x 45 mm.



**200673** Std pkg 12  
Dim.: 110 x 160 x 45 mm.



**200676**  
Display for 4 Profi Service Cases.  
Dim.: 330 x 360 x 200 mm.



**200693**  
Display for 4 Profi service cases.  
Dim.: 313 x 373 x 265 mm.  
Can be assembled horizontally or vertically.

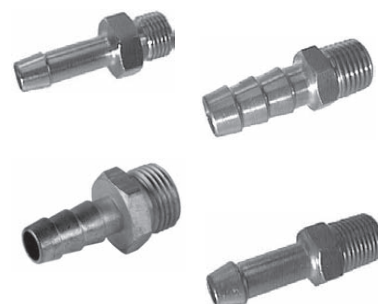
## Hose Nipples



807002

	Qty.
070009 .... R 1/8", 6.0 mm. hose I.D. ....	3
070067 .... R 1/4", 10.0 mm. hose I.D. ....	3
080855 .... R 1/2", 10.0 mm. hose I.D. ....	3
070077 .... 1/8-27 NPTF, 6.0 mm. hose I.D. ....	3
080955 .... 1/8-27 NPFT, 8.0 mm. hose I.D. ....	3
080857 .... 1/2"-20 UNF 8.0 mm. hose I.D. ....	3
080960 .... 1/2"-20 UNF, 10.0 mm. hose I.D. ....	3
080954 .... M14-1.5, 6.0 mm. hose I.D. ...	3
080854 .... M14-1.5, 8.0 mm. hose I.D. ...	3

	Qty.
080959 .... M14-1.5, 10.0 mm. hose I.D. .	3
080858 .... M16-1.5, 8.0 mm. hose I.D. ...	3
070070 .... M16-1.5, 10.0 mm. hose I.D. .	3
080958 .... M18-1.5, 10.0 mm. hose I.D. .	3



## Brushes for DC-Motors

803005

	Qty.
140164 .... 8.0 x 10.0 x 19.5 mm. ....	10
140408 .... 9.0 x 13.0 x 25.0 mm. ....	4
140410 .... 9.0 x 20.0 x 28.0 mm. ....	4
H106 .... 8.0 x 12.0 x 20.0 mm. ....	6
H26 .... 6.0 x 9.0 x 16.5 mm. ....	10
H5-6 .... 6.0 x 6.0 x 11.6 mm. ....	10
H54 .... 5.0 x 6.3 x 10.0 mm. ....	10
H56 .... 5.0 x 6.0 x 13.0 mm. ....	10
PL5 .... 8.0 x 8.0 x 21.0 mm. ....	6
SW126 .... 6.4 x 6.4 x 11.2 mm. ....	10





## **APPLICATIONS LIST**

### **PART 7** **4<sup>th</sup> Edition**



ISO/TS 16949:2002 certified supplier



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## Blowers

### Audi

A3 1.6, 1.8	09.96-	160515	1.9 TD TDi	[B4] ... 09.91-12.94	160513
1.8 T	12.96-	160515		09.91-12.94	160520
1.8 T Quattro (110 kW.)	12.96-	160515		09.91-12.94	160514 <sup>2</sup>
1.8 T Quattro (132 kW.)	12.98-	160515	2.0	[B3] ... 10.90-08.91	160621
1.9 TDi	09.96-	160515		10.90-08.91	160513
S 3 Quattro	03.99-	160515		10.90-08.91	160520
A4 1.6, 1.8, 1.8T	01.95-11.00	160515		10.90-08.91	160514 <sup>2</sup>
	01.95-11.00	160621	2.0 E	[B3] ... 08.88-10.90	160559
2.4	03.97-11.00	160621		08.88-10.90	160513
	03.97-11.00	160620 <sup>2</sup>		08.88-10.90	160520
2.6	01.95-11.00	160621		08.88-10.90	160514 <sup>2</sup>
2.8	09.95-11.00	160621	2.0 E 16V	[B3] ... 03.90-09.91	160559
1.9TDi	01.95-11.00	160621		03.90-09.91	160513
	01.95-11.00	160620 <sup>2</sup>		03.90-09.91	160520
2.5TDi	09.97-11.00	160621	2.0, 2.0 E	[B4] ... 09.91-12.94	160514 <sup>2</sup>
	09.97-11.00	160620 <sup>2</sup>		09.91-12.94	160513
Coupe 2.3	11.88-12.92	160621		09.91-12.94	160520
2.3 20V	08.90-07.91	160621		09.91-12.94	160514 <sup>2</sup>
2.6	08.92-12.96	160621	2.0 E 16V	[B4] ... 08.92-12.94	160621
2.8	09.91-12.96	160621		08.92-12.94	160513
S2	10.92-01.97	160621		08.92-12.94	160520
TT 1.8 T Quattro	10.98-	160515	S 2 Quattro	[B4] ... 02.93-12.94	160514 <sup>2</sup>
1.8 T Cabriolet (110 kW.)	01.01-	160515		02.93-12.94	160513
1.8 T Cabriolet (132 kW.)	10.99-	160515		02.93-12.94	160520
1.8 T Cabriolet (165 kW.)	10.99-	160515	2.3 E	[B4] ... 09.91-12.94	160514 <sup>2</sup>
80 1.6 [B3](51 kW.)	08.87-09.91	160513		09.91-12.94	160513
	08.87-09.91	160520		09.91-12.94	160520
	08.87-09.91	160514 <sup>2</sup>		09.91-12.94	160514 <sup>2</sup>
	08.87-09.91	160559	2.6	[B4] ... 07.92-12.94	160559
1.6 [B3](55 kW.)	09.86-08.91	160513		07.92-12.94	160621
	09.86-08.91	160520		07.92-12.94	160513
	09.86-08.91	160514 <sup>2</sup>		07.92-12.94	160520
	09.86-08.91	160559		07.92-12.94	160514 <sup>2</sup>
1.6 [B4]	09.91-12.94	160513		07.92-12.94	160559
	09.91-12.94	160520	2.6 Quattro	[B4] ... 06.92-12.94	160621
	09.91-12.94	160514 <sup>2</sup>		06.92-12.94	160513
	09.91-12.94	160559		06.92-12.94	160520
	09.91-12.94	160621		06.92-12.94	160514 <sup>2</sup>
1.6 E [B4]	06.93-12.94	160513	2.8	[B4] ... 09.91-12.94	160513
	06.93-12.94	160520		09.91-12.94	160520
	06.93-12.94	160514 <sup>2</sup>		09.91-12.94	160514 <sup>2</sup>
	06.93-12.94	160559		09.91-12.94	160621
	09.91-12.94	160621	90 2.0	[B3] ... 07.88-09.91	160513
1.6 D TD [B3]	09.86-08.91	160513		07.88-09.91	160520
	09.86-08.91	160520		07.88-09.91	160514 <sup>2</sup>
	09.86-08.91	160514 <sup>2</sup>	2.0 20V	[B3] ... 08.89-07.91	160559
	09.86-08.91	160559		08.89-07.91	160513
1.8 [B3]	10.86-01.90	160513		08.89-07.91	160520
	10.86-01.90	160520		08.89-07.91	160514 <sup>2</sup>
	10.86-01.90	160514 <sup>2</sup>	2.2 E	[B3] ... 04.87-07.91	160559
1.8 S [B3]	09.86-12.90	160513		04.87-07.91	160513
	09.86-12.90	160520		04.87-07.91	160520
	09.86-12.90	160514 <sup>2</sup>		04.87-07.91	160514 <sup>2</sup>
	09.86-10.91	160559	2.3 E	[B3] ... 03.90-07.91	160559
1.8 S (66 kW.)[B3]	09.86-10.91	160513		03.90-07.91	160513
	09.86-10.91	160520		03.90-07.91	160520
	09.86-10.91	160514 <sup>2</sup>	2.3 E 20V	[B3] ... 06.88-09.91	160514 <sup>2</sup>
1.8 S Quattro (65 kW.)[B3]	09.86-07.90	160513		06.88-09.91	160513
	09.86-07.90	160520		06.88-09.91	160520
	09.86-10.91	160514 <sup>2</sup>		06.88-09.91	160514 <sup>2</sup>
1.8 E [B3]	06.86-08.91	160513	Cabriolet 1.8	[B4] ... 01.97-08.00	160513
	06.86-08.91	160520		01.97-08.00	160520
	06.86-08.91	160514 <sup>2</sup>		01.97-08.00	160514 <sup>2</sup>
1.9 D [B3]	08.89-08.91	160513	1.9 TDi	[B4] ... 06.95-08.00	160513
	08.89-08.91	160520		06.95-08.00	160520
	08.89-08.91	160514 <sup>2</sup>		06.95-08.00	160514 <sup>2</sup>
	08.91-08.91	160559	2.0 E	[B4] ... 01.93-07.98	160559
				01.93-07.98	160513
				01.93-07.98	160520
				01.93-07.98	160514 <sup>2</sup>
				01.93-07.98	160559

## Blowers

**Audi** *continued*

2.3 E	[B4] ... 05.91-07.94	<b>160513</b>
	..... 05.91-07.94	<b>160520</b>
	..... 05.91-07.94	<b>160514<sup>2</sup></b>
	..... 05.91-07.94	<b>160559</b>
2.6	[B4] ... 06.93-08.00	<b>160513</b>
	..... 06.93-08.00	<b>160520</b>
	..... 06.93-08.00	<b>160514<sup>2</sup></b>
	..... 11.92-08.00	<b>160513</b>
	..... 11.92-08.00	<b>160520</b>
	..... 11.92-08.00	<b>160514<sup>2</sup></b>
	..... 11.92-08.00	<b>160559</b>
100 2.0,2.3,2.4D2.5TDi	[4A,C4] ... 12.90-06.94	<b>160710</b>
2.6	[4A,C4] ... 03.92-06.94	<b>160710</b>
2.8	..... 09.91-06.94	<b>160710</b>
A6 1.8,2.8	..... 12.95-02.97	<b>160710</b>
A6 1.9TDi,2.0,2.3,2.6	..... 06.94-02.97	<b>160710</b>
S2	..... 02.93-12.95	<b>160621</b>
S4	..... 09.97-11.00	<b>160621</b>
V8 3.6	..... 10.88-02.94	<b>160710</b>
4.2	..... 10.91-02.94	<b>160710</b>

2 RHD.

**BMW**

316 i	(E36) ... 09.90-02.98	<b>160516</b>
316 i Coupe	(E36) ... 09.93-04.99	<b>160516</b>
318 i	(E36) ... 12.90-02.98	<b>160516</b>
318 is	(E36) ... 03.92-04.99	<b>160516</b>
318 i Cabriolet	(E36) ... 01.94-04.99	<b>160516</b>
320 i	(E36) ... 09.90-04.99	<b>160516</b>
320 i Cabriolet	(E36) ... 12.93-04.99	<b>160516</b>
325 i	(E36) ... 09.90-04.99	<b>160516</b>
325 TD	(E36) ... 09.91-02.98	<b>160516</b>
325 TDs	(E36) ... 05.93-02.98	<b>160516</b>
325 i Cabriolet	(E36) ... 03.93-03.95	<b>160516</b>
M3 Cabriolet	(E36) ... 01.94-10.95	<b>160516</b>
M3	(E36) ... 10.92-01.95	<b>160516</b>
520 i	(100 kW.) (E39) ... 04.99-	<b>160517</b>
520 i	(110 kW.) (E39) ... 01.96-09.00	<b>160517</b>
523 i 528 i	(E39) ... 11.95-09.00	<b>160517</b>
530 D	(E39) ... 08.98-09.00	<b>160517</b>
535 i	(173 kW.) (E39) ... 04.96-03.99	<b>160517</b>
535 i	(180 kW.) (E39) ... 04.99-	<b>160517</b>
540 i	(E39) ... 04.96-	<b>160517</b>
M5	(E39) ... 10.98-	<b>160517</b>
520, 525 D	(E39) ... 02.00-	<b>160517</b>
525 TD	(E39) ... 01.97-	<b>160517</b>

**Citroën**

Berlingo 1.1 i	..... 07.96-	<b>160518</b>
	..... 07.96-	<b>160560<sup>2</sup></b>
1.4i	..... 07.96-	<b>160518</b>
	..... 07.96-	<b>160560<sup>2</sup></b>
1.8i	..... 05.97-	<b>160518</b>
	..... 05.97-	<b>160560<sup>2</sup></b>
1.9D	..... 07.96-	<b>160518</b>
	..... 07.96-	<b>160560<sup>2</sup></b>
ZX 1.4i	..... 03.91-06.97	<b>160518</b>
	..... 03.91-	<b>160560<sup>2</sup></b>
1.6i	..... 03.91-06.97	<b>160518</b>
	..... 03.91-	<b>160560<sup>2</sup></b>
1.8i	..... 07.92-06.97	<b>160518</b>
	..... 03.91-	<b>160560<sup>2</sup></b>
1.9i	..... 03.91-06.97	<b>160518</b>
	..... 03.91-	<b>160560<sup>2</sup></b>
1.9D	(47 kW.) ... 03.91-06.97	<b>160518</b>
	..... 03.91-	<b>160560<sup>2</sup></b>
1.9D	(50 kW.) ... 06.94-06.97	<b>160518</b>
	..... 03.91-	<b>160560<sup>2</sup></b>
1.9TD	..... 07.92-06.97	<b>160518</b>

	..... 03.91-	<b>160560<sup>2</sup></b>
2.0i	..... 07.92-06.97	<b>160518</b>
	..... 03.91-	<b>160560<sup>2</sup></b>
2.0i 16V	(110 kW.) ... 06.94-06.97	<b>160518</b>
	..... 03.91-	<b>160560<sup>2</sup></b>
2.0i 16V	(112 kW.) ... 07.92-10.94	<b>160518</b>
	..... 03.91-	<b>160560<sup>2</sup></b>
2.0i 16V	(120 kW.) ... 05.96-06.97	<b>160518</b>

2 RHD.

**Ford**

Mondeo 1.6, 1.8, 1.8TD, 2.0	..... 02.93-08.96	<b>160694<sup>2</sup></b>
	..... 02.93-08.96	<b>160693</b>
2.5 24V	..... 07.94-08.96	<b>160694<sup>2</sup></b>
	..... 02.93-08.96	<b>160693</b>
Mondeo II 1.6, 1.8, 1.8TD, 2.0	..... 09.96-11.00	<b>160694<sup>2</sup></b>
	..... 09.96-11.00	<b>160693</b>
2.5 24V	..... 09.96-11.00	<b>160694<sup>2</sup></b>
	..... 09.96-11.00	<b>160693</b>
2.5 ST	..... 05.99-11.00	<b>160694<sup>2</sup></b>
	..... 05.99-11.00	<b>160693</b>
Transit	..... 07.94-03.00	<b>160550</b>

**Honda**

Accord	..... 00.94-00.97	<b>160528</b>
Civic IV. 1.3i16V Hatchback (EG) [EG3]	..... 10.91-11.95	<b>160528</b>
1.4i Fastback (MA MB)	[MA8] ... 09.95-01.97	<b>160528</b>
1.5 i 16V (EG EH)	[EG8] ... 10.91-11.95	<b>160528</b>
1.5i16V Hatchback (EG)	[EG4] ... 10.91-11.95	<b>160528</b>
1.5i LSi Coupe (EJ)	[EJ2] ... 01.94-12.96	<b>160528</b>
1.5i Fastback (MA MB) VTec-E	..... 09.94-01.97	<b>160528</b>
1.6 16V Vtec (EG EH)	[EH9] ... 10.91-11.95	<b>160528</b>
1.6 VTi (EG EH)	[EG9] ... 10.91-11.95	<b>160528</b>
1.6i Coupe (EJ)	[EJ6] ... 11.95-	<b>160528</b>
1.6i Coupe (EJ)	[EJ1] ... 01.94-12.96	<b>160528</b>
1.6i Coupe VTec	..... 01.94-11.95	<b>160528</b>
1.6i Fastback (MA MB)	[MB1] ... 09.94-01.97	<b>160528</b>
1.6i Fastback (MA MB) VTec	[MB] ... 09.94-01.97	<b>160528</b>
1.6 16V Hatchback (EG) VTec	[EG] ... 10.91-11.95	<b>160528</b>
1.6 16V Hatchback (EG) VTi	[EG6] ... 10.91-11.95	<b>160528</b>
Civic V. 1.4i (EJ9 EH 3-4)	..... 11.95-02.01	<b>160528</b>
1.4i Hatchback (EJ9 EK1-3-4) [EJ9]	..... 11.95-02.01	<b>160528</b>
1.4 16V Fastback (MB)	[MB2] ... 01.97-02.01	<b>160528</b>
1.4i 16V Aerodeck (MC)	[MB8] ... 04.98-02.01	<b>160528</b>
1.5i (EJ9 EK3-4)	[EK3] ... 11.95-02.01	<b>160528</b>
1.5i Hatchback (EJ9 EK1-3-4) [EK3]	..... 11.95-02.01	<b>160528</b>
1.5 16V Fastback (MB)	[MB3] ... 01.97-02.01	<b>160528</b>
1.5 16V Aerodeck (MC)	[MB9] ... 04.98-02.01	<b>160528</b>
1.6i Hatchback (EJ9 EK1-3-4) [EK1]	..... 11.95-02.01	<b>160528</b>
1.6 VTi (EJ9 EK1-3-4)	[EK4] ... 11.95-02.01	<b>160528</b>
1.6i (EJ9 EK3-4) VTec	..... 11.95-02.01	<b>160528</b>
1.6i (EJ9 EK3-4) VTi	[EK4] ... 11.95-02.01	<b>160528</b>
1.6 16V Fastback (MB)	[MB4] ... 01.97-02.01	<b>160528</b>
1.6 16V VTi (MB)	..... 01.97-02.01	<b>160528</b>
1.6 16V Aerodeck (MC)	[MC1] ... 04.98-02.01	<b>160528</b>
1.8 16V Fastback (MB)	[MB6] ... 01.97-02.01	<b>160528</b>
1.8 16V Aerodeck (MC)	[MC2] ... 04.98-02.01	<b>160528</b>
2.0 TD Fastback (MB)	[MB7] ... 01.97-02.01	<b>160528</b>
2.0 D Aerodeck (MC)	[MC3] ... 04.98-02.01	<b>160528</b>
CR-V	..... 00.97-00.99	<b>160528</b>
Prelude	..... 00.92-00.96	<b>160528</b>

**Isuzu**

Oasis	..... 00.96-00.99	<b>160528</b>
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## Blowers

### Mercedes

Vito .....	02-96-	<b>160564</b>
Sprinter 208,212, .....	02.95-04.00	<b>160631</b>
214 .....	02.95-	<b>160631</b>
312 .....	02.95-04.00	<b>160631</b>
408,412,414 .....	02.96-	<b>160631</b>

### Opel

Astra F 1.4 i .....	09.91-01.99	<b>160547</b>
1.4 i 16V .....	02.96-09.98	<b>160547</b>
1.4 Si .....	03.92-09.98	<b>160547</b>
1.4 i 16V Cabriolet .....	01.96-03.01	<b>160547</b>
1.4 Si Cabriolet .....	05.93-03.01	<b>160547</b>
1.6 i .....	10.91-09.98	<b>160547</b>
1.6 Si .....	05.92-12.94	<b>160547</b>
1.6 i 16V .....	08.94-09.98	<b>160547</b>
1.6 i Cabriolet .....	03.93-03.01	<b>160547</b>
1.7 D .....	03.92-01.99	<b>160547</b>
1.7 TD .....	11.94-01.99	<b>160547</b>
1.7 TDS .....	03.92-09.98	<b>160547</b>
1.8 i .....	03.92-09.98	<b>160547</b>
1.8 i 16V .....	06.93-09.98	<b>160547</b>
1.8 i 16V Cabriolet .....	11.94-03.01	<b>160547</b>
2.0 i .....	09.91-09.98	<b>160547</b>
2.0 16V .....	02.95-09.98	<b>160547</b>
2.0 GSi 16V .....	09.91-01.98	<b>160547</b>
2.0 i Cabriolet .....	03.93-10.94	<b>160547</b>
Calibra 2.0 i .....	06.90-07.97	<b>160547</b>
2.0 i 16V .....	02.94-07.97	<b>160547</b>
2.0 i 16V Turbo 4X4 .....	03.92-07.97	<b>160547</b>
2.5 V6 .....	04.93-07.97	<b>160547</b>
Vectra 1.6 i .....	09.93-11.95	<b>160547</b>
1.6 i Cat .....	09.88-11.95	<b>160547</b>
1.7 D .....	07.92-11.95	<b>160547</b>
1.7 TD .....	03.90-11.95	<b>160547</b>
1.8 i Cat .....	03.90-11.95	<b>160547</b>
2.0 i 16V .....	01.89-11.95	<b>160547</b>
2.0 i 16V 4X4 .....	02.90-11.95	<b>160547</b>
2.0 i 16V Turbo 4X4 .....	06.94-11.95	<b>160547</b>
2.5 V6 .....	02.93-11.95	<b>160547</b>

### Peugeot

306 1.1 .....	06.94-	<b>160518</b>
.....	06.94-	<b>160560<sup>2</sup></b>
1.4 SL .....	06.94-	<b>160518</b>
.....	06.94-	<b>160560<sup>2</sup></b>
1.6 SR .....	06.94-10.00	<b>160518</b>
.....	06.94-	<b>160560<sup>2</sup></b>
1.8 ST .....	06.94-	<b>160518</b>
.....	06.94-	<b>160560<sup>2</sup></b>
1.8 16V .....	03.97-	<b>160518</b>
.....	03.97-	<b>160560<sup>2</sup></b>
1.9 D .....	03.98-	<b>160518</b>
.....	03.98-	<b>160560<sup>2</sup></b>
1.9 SLD .....	06.94-	<b>160518</b>
.....	06.94-	<b>160560<sup>2</sup></b>
1.9 SRDT .....	06.94-	<b>160518</b>
.....	06.94-	<b>160560<sup>2</sup></b>
2.0 ST .....	07.94-	<b>160518</b>
.....	07.94-	<b>160560<sup>2</sup></b>
2.0 .....	03.97-	<b>160518</b>
.....	03.97-	<b>160560<sup>2</sup></b>
2.0 S16 .....	06.94-	<b>160518</b>
.....	06.94-	<b>160560<sup>2</sup></b>
306 1.8 Cabriolet .....	03.94-	<b>160518</b>
.....	03.94-	<b>160560<sup>2</sup></b>
1.8 16V Cabriolet .....	07.00-	<b>160518</b>
.....	07.00-	<b>160560<sup>2</sup></b>
2.0, 2.0 16V Cabriolet .....	03.94-	<b>160518</b>

405 I 1.6 .....	(53 kW.) ...	07.87-12.92	<b>160519</b>
1.6 .....	(55 kW.) ...	07.87-06.88	<b>160519</b>
1.6 .....	(65 kW.) ...	07.87-12.92	<b>160519</b>
1.6 .....	(66 kW.) ...	10.89-12.92	<b>160519</b>
1.6 .....	(69 kW.) ...	01.87-12.92	<b>160519</b>
1.8 TD .....		03.88-12.92	<b>160519</b>
1.9, 1.9i .....	(70 kW.) ...	07.87-12.92	<b>160519</b>
1.9 1.9 4X4 .....	(80, 88 kW.) ...	07.88-12.92	<b>160519</b>
1.9 .....	(93 kW.) ...	07.87-12.93	<b>160519</b>
1.9 MI-16 .....	(108 kW.) ...	04.88-12.92	<b>160519</b>
1.9 MI-16 .....	(116 kW.) ...	07.87-11.91	<b>160519</b>
1.9 D .....	(47 kW.) ...	07.88-09.92	<b>160519</b>
1.9 D .....	(51 kW.) ...	03.88-12.92	<b>160519</b>
405 II 1.4 .....		08.92-10.95	<b>160519</b>
.....		07.92-	<b>160561<sup>2</sup></b>
1.6 .....		08.92-10.95	<b>160519</b>
.....		07.92-	<b>160561<sup>2</sup></b>
1.8 .....		08.92-10.95	<b>160519</b>
.....		07.92-	<b>160561<sup>2</sup></b>
1.9D .....	(47 kW.) ...	08.92-10.95	<b>160519</b>
.....		07.92-	<b>160561<sup>2</sup></b>
1.9D .....	(50 kW.) ...	06.94-10.95	<b>160519</b>
.....		07.92-	<b>160561<sup>2</sup></b>
1.9TD .....		08.92-10.95	<b>160519</b>
.....		07.92-	<b>160561<sup>2</sup></b>
2.0 .....		08.92-10.95	<b>160519</b>
.....		07.92-	<b>160561<sup>2</sup></b>
2.0 16V .....		06.94-10.95	<b>160519</b>
.....		07.92-	<b>160561<sup>2</sup></b>
2.0 MI-16 .....		08.92-10.95	<b>160519</b>
.....		07.92-	<b>160561<sup>2</sup></b>
2.0 T16 4X4 .....		08.92-10.95	<b>160519</b>
.....		07.92-	<b>160561<sup>2</sup></b>
406 1.6 .....		11.95-	<b>160519</b>
.....		10.95-04.99	<b>160561<sup>2</sup></b>
.....		04.99-	<b>160562<sup>2</sup></b>
1.8 .....		05.97-	<b>160519</b>
.....		10.95-04.99	<b>160561<sup>2</sup></b>
.....		04.99-	<b>160562<sup>2</sup></b>
1.8 16V .....		11.95-10.00	<b>160519</b>
.....		10.95-04.99	<b>160561<sup>2</sup></b>
.....		04.99-	<b>160562<sup>2</sup></b>
1.9 TD .....		01.96-	<b>160519</b>
.....		10.95-04.99	<b>160561<sup>2</sup></b>
.....		04.99-	<b>160562<sup>2</sup></b>
2.0 .....		11.95-	<b>160519</b>
.....		10.95-04.99	<b>160561<sup>2</sup></b>
.....		04.99-	<b>160562<sup>2</sup></b>
2.0 Turbo .....		04.96-	<b>160519</b>
.....		10.95-04.99	<b>160561<sup>2</sup></b>
.....		04.99-	<b>160562<sup>2</sup></b>
3.0 24V .....		10.96-	<b>160519</b>
.....		10.95-04.99	<b>160561<sup>2</sup></b>
.....		04.99-	<b>160562<sup>2</sup></b>
2.1TD 12V .....		01.96-	<b>160519</b>
.....		10.95-04.99	<b>160561<sup>2</sup></b>
.....		04.99-	<b>160562<sup>2</sup></b>
505 1.8 .....		09.83-10.85	<b>160519</b>
Partner 1.1, 1.4 .....		07.96-	<b>160518</b>
1.8 .....		05.97-	<b>160518</b>
1.8, 1.9D .....		06.96-	<b>160518</b>

<sup>2</sup> RHD.

## Blowers

## Renault

19 I 1.4, 1.7	(B/C53) ...01.89-04.92	160540
1.8 16V	(B/C53) ...06.89-04.92	160540
1.9 D	(B/C53) ...09.88-04.92	160540
1.7 Cabriolet	(D53) ...07.91-04.92	160540
1.8 16V Cabriolet	(D53) ...07.91-04.92	160540
1.4	(L53) ...04.89-12.89	160540
1.4 Kat	(L53) ...10.89-04.92	160540
1.7, 1.8 16V	(L53) ...10.89-04.92	160540
1.9 D	(L53) ...10.89-04.92	160540
19 II 1.4, 1.7	(B/C53) ...04.92-12.95	160540
1.8, 1.8 16V	(B/C53) ...04.92-12.95	160540
1.9 D,TD	(B/C53) ...04.92-12.95	160540
Clio I 1.2	(B/C57) ...01.96-09.98	160540
1.2	(B/C57R) ...01.91-01.96	160540
1.2, 1.4	(B/C57A-T) ...01.91-09.98	160540
1.8	(B/C57C) ...01.91-09.98	160540
1.8	(B/C578) ...08.94-09.98	160540
1.8 Rsi	(B/C57H) ...08.95-09.98	160540
1.8 Rsi	(B/C579) ...01.93-08.95	160540
1.8 16V	(C57D) ...08.91-06.94	160540
Williams	(B/C57M) ...01.94-09.98	160540
1.9 D	(B/C/S576) ...01.97-09.98	160540
Kangoo	03.98-	160709
Master	10.97-	160553
Megane 1.4 Eco	(BA0T) ...01.96-03.99	160540
1.4e	(BA0E-V) ...01.96-	160540
1.4 16V	(BA0D-BA1H) ...03.99-	160540
1.6e/i	(BA0L BA0FBA0F) ...01.96-03.99	160540
1.6 16V	(BA11) ...03.99-	160540
2.0i	(BA0G) ...01.96-	160540
2.0i	03.99-	160540
2.0 16V	(BA0H) ...07.96-	160540
1.9 D Eco dT	01.96-	160540
1.9 TDi	09.96-	160540
1.9 dTi	(BA08 BA0N) ...03.97-02.01	160540
1.4 16V Cabriolet	(EA0D) ...03.99-	160540
1.6 e Cabriolet	(EA0F) ...10.96-03.99	160540
2.0 16V Cabriolet	(IDE) ...11.99-	160540
Safrane I 2.2	04.92-07.96	160553
3.0 V6	12.92-07.96	160553
2.1 TD	11.93-07.96	160553
2.5 TD	12.92-07.96	160553
Safrane II 2.0 16V	07.96-12.00	160553
2.5 20V	07.96-12.00	160553
2.2 TD	07.96-12.00	160553
Scenic 1.4 16V	(JA0D JA1H JA0W) ...09.99-	160540
	09.96-	160563 <sup>2</sup>
1.6 16V	(JA0B JA04 JA11) ...09.99-	160540
	06.96-	160563 <sup>2</sup>
2.0 16V RX4	06.00-	160540
	06.96-	160563 <sup>2</sup>
2.0 16V	(JA1B JA1D) ...07.00-	160540
	06.96-	160563 <sup>2</sup>
2.0 16V IDE	03.00-	160540
	06.96-	160563 <sup>2</sup>
1.9 dTi	(JA0N) ...09.99-	160540
	06.96-	160563 <sup>2</sup>
1.9 dCi RX4	11.00-	160540

2 RHD.

## Saab

900 I 2.0-16	01.89-12.93	160547
2.0 S Turbo 16	07.91-12.93	160547
2.0 Turbo 16	11.85-12.93	160547
2.0 Turbo 16 S Cat	01.89-12.93	160547
2.1 -16	08.90-12.93	160547
2.0 -16 Cabriolet	01.90-06.94	160547
2.0 S Turbo 16 Cabriolet	09.91-06.94	160547
2.0 Turbo 16/S Cabriolet	11.86-06.94	160547

2.1-16	08.90-06.94	160547
900 II 2.0 i	07.93-02.98	160547
2.0 16 Turbo	07.93-02.98	160547
2.3 -16	07.93-02.98	160547
2.5 24 V6	07.93-02.98	160547
2.0 i/16 Turbo Cabriolet	12.93-02.98	160547
2.3 -16 Cabriolet	12.93-02.98	160547
2.5 24 V6 Cabriolet	12.93-02.98	160547

## Seat

Arosa 1.0, 1.4	05.97-	160590 <sup>2</sup>
1.4 16V, 14 TDi	01.00-	160590 <sup>2</sup>
1.7 SDi	08.97-	160590 <sup>2</sup>
Cordoba 1.0	09.96-06.99	160590 <sup>2</sup>
1.4i, 1.4 16V	06.94-06.99	160590 <sup>2</sup>
1.6i	02.93-06.99	160590 <sup>2</sup>
1.8i, 1.8i 16V	02.93-06.99	160590 <sup>2</sup>
1.9D, SDi	01.96-06.99	160590 <sup>2</sup>
1.9 TD, TDi	02.93-06.99	160590 <sup>2</sup>
2.0i, 2.0i 16V	02.93-06.99	160590 <sup>2</sup>
Ibiza II 1.0, 1.0i, 1.3i, 1.4i, 1.4i 16V	03.93-08.99	160590 <sup>2</sup>
1.6i, 1.8i	03.93-08.99	160590 <sup>2</sup>
1.8i 16V	11.93-08.99	160590 <sup>2</sup>
1.9D, SDi	04.93-08.99	160590 <sup>2</sup>
1.9TD, 1.9TDi	03.93-08.99	160590 <sup>2</sup>
2.0i, 2.0i 16V	03.93-08.99	160590 <sup>2</sup>
Ibiza III 1.6	08.99-02.02	160590 <sup>2</sup>
Inca 1.4i, 1.4 16V	11.95-	160590 <sup>2</sup>
1.6i	11.95-05.98	160590 <sup>2</sup>
1.7D	09.96-	160590 <sup>2</sup>
1.9D, SDi	11.95-	160590 <sup>2</sup>
Toledo I 1.6 i	05.91-03.99	160513
1.8 i	(65 kW.) ...05.91-12.96	160513
1.8 i	(66 kW.) ...11.93-12.96	160513
1.8 16V	05.91-03.99	160513
1.9 D, SDi	12.95-03.99	160513
1.9 TD	05.91-03.99	160513
1.9 TDi	(66 kW.) ...08.95-03.99	160513
1.9 TDi	(81 kW.) ...11.96-03.99	160513
2.0 i	05.91-12.96	160513
2.0 i 16V	11.93-03.99	160513
Toledo II 1.4 16V	07.99-	160515
1.6	04.99-09.00	160515
1.8 20V	04.99-	160515
1.9 TDi	04.99-	160515
2.3 V5	04.99-05.01	160515

## Skoda

Octavia 1.4	(44 kW.) ...04.99-	160515
1.4	(55 kW.) ...09.00-	160515
1.6	(55 kW.) ...09.96-09.00	160515
1.6	(74 kW.) ...02.97-	160515
1.8	09.96-	160515
1.8 T	08.97-	160515
1.8 T RS 20V	05.01-	160515
1.9 SDi	(47 kW.) ...09.96-	160515
1.9 SDi	(50 kW.) ...06.97-	160515
1.9 TDi	(66 kW.) ...09.96-	160515
1.9 TDi	(81 kW.) ...08.97-	160515
1.9 TDi 4X4	11.99-	160515
2.0	04.99-	160515

## Vauxhall

Astra		
1.4i	09.91-09.98	160547
1.4i 16V	02.96-09.98	160547
1.4S	09.91-02.98	160547
1.6i	05.92-09.98	160547
1.6Si	03.91-12.94	160547
1.6i 16V	08.94-09.98	160547
1.7 D	03.92-09.98	160547

## Blowers

1.7 TD .....	12.91-09.98	<b>160547</b>	1.8 .....	(66 kW.) ...	08.84-10.91	<b>160513</b>
1.8i .....	03.92-09.98	<b>160547</b>	.....	.....	08.84-10.91	<b>160514<sup>2</sup></b>
1.8i 16V .....	06.93-12.96	<b>160547</b>	.....	.....	08.84-10.91	<b>160559</b>
2.0i .....	03.92-09.98	<b>160547</b>	1.8 i Cat .....	.....	08.87-10.91	<b>160513</b>
2.0i 16V .....	02.95-09.98	<b>160547</b>	.....	.....	08.87-10.91	<b>160514<sup>2</sup></b>
1.4i Cabriolet .....	05.93-03.01	<b>160547</b>	1.8 Syncro .....	.....	02.86-07.91	<b>160513</b>
1.4i 16V Cabriolet .....	01.96-03.01	<b>160547</b>	.....	.....	02.86-07.91	<b>160514<sup>2</sup></b>
1.6i Cabriolet .....	03.93-03.01	<b>160547</b>	.....	.....	08.85-10.87	<b>160513</b>
1.8 16V Cabriolet .....	11.94-03.01	<b>160547</b>	.....	.....	08.84-10.91	<b>160559</b>
2.0i Cabriolet .....	03.93-10.94	<b>160547</b>	1.8 GTI .....	(79 kW.) ...	08.85-10.87	<b>160514<sup>2</sup></b>
Calibra 2.0i, 2.0i16V .....	06.90-07.97	<b>160547</b>	.....	.....	08.83-12.89	<b>160513</b>
2.0i 4X4 .....	06.90-07.97	<b>160547</b>	.....	.....	08.85-10.87	<b>160559</b>
2.0i 16V 4X4 .....	06.90-07.97	<b>160547</b>	1.8 16V .....	(95 kW.) ...	02.86-10.91	<b>160513</b>
2.0i Turbo16 4X4 .....	03.92-07.97	<b>160547</b>	.....	.....	02.86-10.91	<b>160514<sup>2</sup></b>
2.5i V6 .....	04.93-07.97	<b>160547</b>	1.8 GTI .....	(82 kW.) ...	08.83-12.89	<b>160513</b>
Cavalier 1.4 S .....	09.88-11.95	<b>160547</b>	.....	.....	08.83-12.89	<b>160514<sup>2</sup></b>
1.6i .....	09.88-11.95	<b>160547</b>	1.8 16V .....	(102 kW.) ...	02.86-06.90	<b>160513</b>
1.7D .....	07.92-11.95	<b>160547</b>	.....	.....	02.86-06.90	<b>160514<sup>2</sup></b>
1.7TD .....	09.88-11.95	<b>160547</b>	.....	.....	02.86-06.90	<b>160559</b>
1.8i Cat .....	03.90-11.95	<b>160547</b>	1.8 GTI G60 .....	.....	04.90-07.91	<b>160513</b>
2.0 16V .....	09.88-11.95	<b>160547</b>	.....	.....	04.90-07.91	<b>160514<sup>2</sup></b>
2.0i Turbo 4X4 .....	06.92-11.94	<b>160547</b>	.....	.....	04.90-07.91	<b>160559</b>
2.0 SRi 16V .....	09.93-11.95	<b>160547</b>	1.8 GTI G60 Syncro .....	.....	08.88-07.91	<b>160513</b>
2.5 V6 .....	02.93-11.95	<b>160547</b>	.....	.....	08.88-07.91	<b>160514<sup>2</sup></b>
<b>VW</b>			Golf III 1.4, 1.6, 1.8 .....	.....	10.91-08.97	<b>160590<sup>2</sup></b>
Bora 1.4 16V .....	03.00-	<b>160515</b>	.....	.....	10.91-08.97	<b>160591</b>
1.6 .....	10.98-	<b>160515</b>	2.0 .....	.....	11.91-08.97	<b>160590<sup>2</sup></b>
1.6 16V .....	05.00-	<b>160515</b>	.....	.....	11.91-08.97	<b>160591</b>
1.8 .....	10.98-	<b>160515</b>	2.0 GTI 16V .....	.....	08.92-08.97	<b>160590<sup>2</sup></b>
1.8 4Motion .....	02.99-	<b>160515</b>	2.8 VR6 .....	.....	01.92-08.97	<b>160590<sup>2</sup></b>
1.8 T .....	05.00-	<b>160515</b>	.....	.....	01.92-08.97	<b>160590</b>
1.9 SDi .....	10.98-	<b>160515</b>	Cabriolet .....	.....	07.93-05.98	<b>160590<sup>2</sup></b>
1.9 TDi .....	10.98-	<b>160515</b>	.....	.....	06.98-	<b>160590<sup>2</sup></b>
2.0 .....	10.98-	<b>160515</b>	.....	.....	06.98-	<b>160591</b>
2.0 4Motion .....	04.00-	<b>160515</b>	1.9D, TD, GTD .....	.....	11.91-08.97	<b>160590<sup>2</sup></b>
2.3 V5 .....	10.98-10.00	<b>160515</b>	.....	.....	11.91-08.97	<b>160591</b>
2.8 V6 4Motion .....	03.99-	<b>160515</b>	1.9 SDi, TDi .....	.....	09.93-08.97	<b>160590<sup>2</sup></b>
Caravelle T4 .....	07.90-	<b>160554</b>	.....	.....	09.93-08.97	<b>160591</b>
.....	07.90-	<b>160555<sup>2</sup></b>	Golf IV 1.4 16V .....	.....	08.97-	<b>160515</b>
Caddy II 1.4 .....	08.00-	<b>160590<sup>2</sup></b>	.....	.....	08.97-	<b>160591</b>
1.9D, SDi .....	11.95-	<b>160590<sup>2</sup></b>	1.6 .....	.....	08.00-	<b>160515</b>
1.9 TDi .....	09.96-	<b>160590</b>	.....	.....	08.97-02.00	<b>160591</b>
Corrado 1.8 16V .....	04.89-07.92	<b>160513</b>	1.6 16V .....	.....	02.00-	<b>160515</b>
1.8 G60 .....	09.88-09.93	<b>160513</b>	1.8 .....	.....	08.97-	<b>160515</b>
2.0 i .....	04.93-12.95	<b>160513</b>	.....	.....	08.97-	<b>160591</b>
2.0 i 16V .....	08.91-12.95	<b>160513</b>	1.8 4Motion .....	.....	05.98-	<b>160515</b>
2.9 VR6 .....	08.91-12.95	<b>160513</b>	.....	.....	05.98-	<b>160591</b>
Golf II 1.0 .....	11.83-08.85	<b>160513</b>	1.8 T .....	(110 kW.) ...	08.97-	<b>160515</b>
.....	11.83-08.85	<b>160514<sup>2</sup></b>	.....	.....	08.97-	<b>160591</b>
1.3 .....	08.83-06.87	<b>160513</b>	1.8 T .....	(132 kW.) ...	08.01-	<b>160515</b>
.....	08.83-06.87	<b>160514<sup>2</sup></b>	2.0 .....	.....	07.98-	<b>160515</b>
.....	08.83-06.87	<b>160559</b>	2.3 V5 .....	.....	08.97-	<b>160515</b>
1.3 Cat .....	06.86-12.92	<b>160513</b>	.....	.....	08.97-10.00	<b>160591</b>
.....	06.86-12.92	<b>160514<sup>2</sup></b>	1.9 SDi .....	.....	08.97-	<b>160515</b>
1.6 .....	(51 kW.) ...	<b>160513</b>	.....	.....	08.97-	<b>160591</b>
.....	10.86-12.92	<b>160514<sup>2</sup></b>	1.9 TDi .....	(66 kW.) ...	08.97-06.01	<b>160515</b>
.....	08.83-08.91	<b>160559</b>	.....	.....	04.98-06.01	<b>160591</b>
1.6 .....	(53 kW.) ...	<b>160513</b>	1.9 TDi .....	(74 kW.) ...	09.00-	<b>160515</b>
.....	02.86-10.91	<b>160514<sup>2</sup></b>	.....	.....	08.97-06.01	<b>160591</b>
.....	02.86-10.91	<b>160559</b>	Jetta II 1.3 .....	.....	01.84-06.87	<b>160513</b>
1.6 D TD .....	(40, 44, 51 kW.) ...	<b>160513</b>	1.3 Cat .....	.....	06.87-12.91	<b>160513</b>
.....	08.83-10.91	<b>160514<sup>2</sup></b>	1.6 .....	(51 kW.) ...	10.86-10.91	<b>160513</b>
.....	08.83-10.91	<b>160559</b>	1.6 .....	(53 kW.) ...	03.86-10.91	<b>160513</b>
1.6 TD .....	(59 kW.) ...	<b>160513</b>	1.6 .....	(55 kW.) ...	01.84-08.91	<b>160513</b>
.....	04.89-10.91	<b>160514<sup>2</sup></b>	1.8 .....	(62 kW.) ...	08.86-01.90	<b>160513</b>
.....	04.89-10.91	<b>160559</b>	1.8 .....	(66 kW.) ...	08.84-10.91	<b>160513</b>
1.8 .....	(62 kW.) ...	<b>160513</b>	1.8 Syncro .....	.....	08.87-07.91	<b>160513</b>
.....	08.86-01.90	<b>160514<sup>2</sup></b>	1.6 D TD .....	.....	01.84-10.91	<b>160513</b>
			Lupo 1.0 .....	.....	04.98-	<b>160515</b>
			1.2 TDi 3L .....	.....	07.99-	<b>160515</b>
			1.4 16V .....	(55 kW.) ...	04.98-	<b>160515</b>



## Blowers

**VW continued**

1.4 16V	(74 kW.)	08.99-	160515
1.4 FSi	(77 kW.)	02.01-	160515
1.4 TDi		01.99-	160515
1.6 GTi		09.00-	160515
1.7 SDi		04.98-	160515
New Beetle 1.4		11.01-	160515
1.6	(74 kW.)	10.99-09.00	160515
1.6	(75 kW.)	09.00	160515
1.8 T		10.99-	160515
1.9 TDi	(66 kW.)	01.98-02.01	160515
1.9 TDi	(74 kW.)	02.01-	160515
2.0		01.98-	160515
2.3 V5		10.00-	160515
3.2 RSi		04.00-	160515
Passat 1.6	(53 kW.)	02.88-09.91	160513
1.6	(55 kW.)	02.88-12.88	160513
1.6	(74 kW.)	10.94-08.96	160513
		10.96-11.00	160621
		10.96-11.00	160620 <sup>2</sup>
1.6 TD		08.88-09.93	160513
		08.88-09.93	160520
1.8	(55 kW.)	08.90-08.96	160513
1.8	(66 kW.)	02.88-08.96	160513
1.8	(79 kW.)	04.88-07.93	160513
1.8	(82 kW.)	04.88-07.90	160513
		10.96-11.00	160621
		10.96-11.00	160620 <sup>2</sup>
1.8 16V		04.88-12.89	160513
1.8 G60 Syncro		08.88-08.96	160513
1.9 D		05.89-10.93	160513
		05.89-10.93	160520
1.9 TD		03.91-08.96	160513
		03.91-08.96	160520
1.9 TDi	(66 kW.)	10.93-08.96	160513
1.9 TDi	(81 kW.)	03.96-08.96	160520
		10.96-11.00	160621
		10.96-11.00	160620 <sup>2</sup>
2.5TDi		09.97-09.01	160620 <sup>2</sup>
2.0	(79 kW.)	03.95-08.96	160513
	(79 kW.)	03.95-08.96	160520
2.0	(85 kW.)	02.90-08.96	160513
	(85 kW.)	02.90-08.96	160520
2.0 Syncro		10.90-08.96	160513
		10.90-08.96	160520
2.0 16V		01.94-08.96	160520
2.0 16V GT		08.88-09.93	160513
		08.88-09.93	160520
2.3 VR5		10.96-11.00	160621
		10.96-11.00	160620 <sup>2</sup>
2.8 VR6		08.88-09.93	160513
		08.88-09.93	160520
		10.96-11.00	160621
		10.96-11.00	160620 <sup>2</sup>
Polo 1.0, 1.3, 1.6 [6N1]		10.94-09.96	160590 <sup>2</sup>
		10.94-09.96	160591
1.4 [6N1]		08.95-10.99	160590 <sup>2</sup>
		07.95-10.99	160591
1.0 1.4 [6N2]		10.99-	160515
		10.99-09.01	160590 <sup>2</sup>
1.4 1.6 16V [6N2]		10.99-09.01	160515
		10.99-09.01	160590 <sup>2</sup>
1.6 16V GTi [6N2]		10.99-09.01	160590 <sup>2</sup>
1.4 TDi [6N2]		10.99-09.01	160515
		10.99-09.01	160590 <sup>2</sup>
1.7 SDi [6N1,6N2]		08.97-09.01	160590 <sup>2</sup>
		08.97-09.01	160515
		08.97-10.99	160591
1.9D, SDi [6N1,6N2]		10.94-09.01	160590 <sup>2</sup>
		10.94-09.01	160515
		10.94-10.99	160591

Transporter IV.1.9 D	07.90-	160513
	07.90-	160554
	07.90-	160555 <sup>2</sup>
1.9 TD	10.92-	160513
	10.92-	160554
	10.92-	160555 <sup>2</sup>
2.0	07.90-	160513
	07.90-	160554
	07.90-	160555 <sup>2</sup>
2.5	11.90-	160513
	11.90-	160554
	11.90-	160555 <sup>2</sup>
2.5 Syncro	10.92-	160513
	10.92-	160554
	10.92-	160555 <sup>2</sup>
2.4 D	07.90-	160513
	07.90-	160554
	07.90-	160555 <sup>2</sup>
2.5 TDi	09.95-	160513
	09.95-	160554
	09.95-	160555 <sup>2</sup>
Vento 1.4, 1.6, 1.8,	10.94-09.98	160590 <sup>2</sup>
1.4, 1.6	10.94-09.98	160591
1.8	11.91-09.98	160591
2.0	11.91-09.98	160590 <sup>2</sup>
	11.91-09.98	160591
2.8 VR6	01.92-09.98	160590 <sup>2</sup>
	01.92-09.98	160591
1.9 D, TD	11.91-09.98	160590 <sup>2</sup>
	11.91-09.98	160591
1.9 SDi	04.97-09.98	160590 <sup>2</sup>
	04.97-09.98	160591
1.9 TDi	09.93-09.98	160590 <sup>2</sup>
	09.93-09.98	160591

2 RHD.

Also see Cross Reference List page 117



## Fuel Injection Pumps 12 V.

## Alfa Romeo

Alfetta 2.0i.e.	04.83-12.84
GTV 2.0 Turbo Delta	05.76-12.81
2.0 T.S. 16V	04.95-
2.5i.e. 6	11.80-02.87
Alfa 6 2.5i.e.	09.83-12.86
Alfa 33 1.4i.e.	09.91-12.91
1.5	00.90-
1.5i.e.	06.90-10.94
1.7i.e., 16V	10.87-10.94
Alfa 75 1.6i.e.	08.89-02.92
1.8i.e.	09.88-02.92
2.0 Twin Spark	01.87-02.92
2.5 V6	09.85-02.92
3.0 V6	01.87-02.92
3.0 ES Coupe Zagato	03.89-02.92
Alfa 90 2.0i.e.	10.84-01.87
2.5i.e. V6	10.84-12.90
Alfa 145 1.3i.e.	04.94-11.96
1.7i.e. 16V	04.94-11.96
2.0i.e. 16V T.S.	10.95-02.99
Alfa 146 1.3i.e.	12.94-11.96
1.7i.e. 16V	12.94-11.96
2.0 ti 16V T.S.	10.95-04.98
Alfa 155 1.6i 16V T.S.	05.96-10.97
1.8i 16V T.S.	05.96-10.97
2.0 T.S. 16V	03.95-04.96
2.0i 16V T.S.	05.96-10.97
2.5i V6	05.96-10.97
Alfa Guilletta 2.0 Turbo Delta	04.83-06.84
Sprint 1.7i.e.	10.87-12.89
Spider 2.0i.e.	10.81-12.89
	01.90-12.94
2.0 T.S. 16V	04.95-
145 1.4 ie	00.94-00.96
1.4i 16V TS	00.96-
1.6 ie	04.94-12.94
1.6 i 16V TS	00.96-
1.7 ie 16V	00.94-00.96
1.8 i 16V TS	00.96-
2.0 i 16V TS	00.95-
146 1.4 ie	00.94-00.96
1.4 ie 16V TS	00.96-
1.6 ie	00.95-00.96
1.6 ie 16V TS	00.96-
1.7 ie 16V	00.94-00.96
1.8 ie 16V TS	00.96-
2.0 Ti 16V TS	00.95-00.98
155 1.6 i 16V TS	00.96-00.97
1.8i, 2.0i 16V TS	00.95-00.97
2.5i V6	00.95-00.97
164 3.0i 24V	00.92-

**3** *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

# Audi

80	1.6	[YS]	08.76-07.78
		[YZ]	01.79-06.82
		[ABB]	08.90-08.9
1.8		[DZ,JN,MU,PV]	01.83-08.86
		[DZ,JN]	09.86-08.91
		[KAT,PM]	03.88-08.91
1.9		[SD]	09.86-07.88
2.0	5E	[HP,JS]	08.83-07.84
2.0		[3A,AAD]	08.88-08.91
2.0	16V	[6A]	03.90-08.91
		[6A]	09.91-07.92
		[ACE]	08.92-01.96
2.2	5E	[WE]	10.80-08.83
2.2		[KL,KK]	08.82-07.84
2.3		[NG]	09.91-01.96

	2.8	09.91-01.96	070080
0700533	90 2.0	[SK,HP,JS] ... 10.84-03.87	0700603
0700533		[PS] ... 04.87-07.91	0700613
070133	2.0 20V	[NM] ... 08.88-07.91	0700613
0700533	2.2	[KX,HY] ... 10.84-03.87	0700603
0700533		[JT,KV] ... 10.84-03.87	0700613
070127		[KV] ... 04.87-09.91	0700613
0700533	2.3	[NG] ... 04.87-07.91	0700613
070127	2.3 20V	[7A] ... 08.88-07.91	0700613
070127	100 1.6	[ABB] ... 03.92-07.94	070122
0700533	1.8	[PH] ... 04.85-07.88	070122
0700533	2.0	[RT,SL,KP] ... 08.84-11.90	070122
0700533	2.0 16V	[ACE,AAD] ... 12.90-07.94	070122
0700533	2.2 5E	[WE,WC,WG] ... 01.77-07.82	0700603
0700533	2.2	[KZ,KF,WC,HX,KU,PX] ... 08.82-11.90	070122
0700533	2.3	[AAR,NF] ... 08.86-07.94	070122
0700533	200 2.2	[WC] ... 10.79-09.82	0700603
0700533		[WC,KU] ... 08.83-07.85	070122
070133	2.2 Turbo	[WJ,WS] ... 10.79-08.82	0700603
070133		[KH] ... 08.83-07.85	070122
070133	2.2 Turbo 20V	[3B] ... 03.89-12.90	070122
070133	A2 1.4	[AUA,BBY] ... 02-00-	070171
070133	Pump only (w/ modification)		070179
070133	A3 1.6	[AEH,AKL,APF] ... 09.96-08.00	070171
070133	1.8	[AGN,APG] ... 09.96-	070171
070133	1.8T	[AGU,AQA,ARZ,AUM] ... 12.96-	070171
070133	1.8T	[AJQ,APP,ARY,AUQ] ... 12.98-	070171
070133	Pump only (w/ modification)		070179
070133	A4 1.6	[ADP] ... 01.95-07.00	070080
0700533	1.8	[ADR APT AEB] ... 01.95-11.00	070080
070127	1.8	[AJL APU] ... 12.97-11.00	070080
0700533	2.4	[AGA AJG] ... 03.97-11.00	070080
0700533	2.6	[ABC] ... 01.95-11.00	070080
070133	2.8	[AAH ALG] ... 10.96-11.00	070080
070133	A6	[ADP,AEB,AHH,ABC] ... 02.95-	070080
070133	1.8	[ADR] ... 06.94-10.97	070195
070133	2.0	[ADW,ABK,ACE,ACZ] ... 06.94-10.97	070195
070133	2.6	[ACZ,ABC,] ... 06.94-12.97	070195
070133	2.8	[AEJ,AAH,ACK,] ... 06.94-10.97	070195
070133	Coupe 1.8	[JN,PV] ... 01.85-10.88	070060
070133		[DZ] ... 08.89-07.91	070122
070133	2.0 5E	[HP,JS] ... 08.83-07.88	0700603
070133	2.0	[3A,AAD] ... 05.89-07.91	070122
070133	2.0 16V	[6A,ACE] ... 01.92-	070122
070133	2.0 20V	[NM] ... 11.88-07.91	070122
070133	2.0 20V pump only	[ABK,NM] ... 08.89-12.95	070195
070133	2.2	[KX,HY,KV,JT] ... 01.84-10.88	0700603
070133		[KV] ... 11.88-07.91	070122
070133	2.2 5E	[WE,KE,KL] ... 07.81-08.84	0700603
070133	2.3, 20V	[NG,7A] ... 11.88-07.91	070122
070133	2.3, 20V	[NG,7A] ... 11.88-07.91	070195
070133	2.6	[ABC] ... 08.92-12.95	070195
070113	2.8	[AAH] ... 09.91-12.95	070195
	Cabriolet 2.0	[ABK] ... 01.93-	0700613
	2.3	[NG] ... 05.91-07.94	0700613
	2.6	[ABC] ... 01.94-	0700613
0700603	2.8	[AAH] ... 11.92-	0700613
0700613	Quattro 2.2 Turbo	[GV,WR] ... 07.80-07.87	0700603
0700613	2.2 Turbo	[RR] ... 08.89-07.91	0700613
0700603	2.3 Turbo	[MB] ... 08.87-07.89	0700613
0700613	S2 2.2 Turbo	[3B,ABY] ... 09.90-12.95	070195
0700713	S4 2.2	[AAN] ... 07.92-07.94	070195
0700613	S4 2.7 Turbo	[APB AGB] ... 10.97-	070080
0700603	V 8 3.6	[PT] ... 10.88-11.93	070122
0700613	TT 1.8T	[AJQ,AUQ,APP,ARY] ... 10.98-	070171
0700613	Pump only (w/ modification)		070179

**3** *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

**Austin** (see Rover Group)

## Fuel Injection Pumps 12 V.

### BMW

316i	[E30]	09.87-12.88	070140
316i	[E36]	09.90-12.98	070142
316i Coupe	[E36]	09.93-12.99	070142
316i Compact	[E36]	03.94-09.00	070142
318i	[E21]	08.78-12.83	070060 <sup>3</sup>
	[E30]	09.83-04.94	070140
	[E36]	12.90-12.98	070142
318i Cabriolet	[E36]	01.94-12.99	070142
318ti Compact	[E36]	10.94-09.00	070142
318is	[E30]	09.89-08.91	070140
	[E36]	03.93-02.98	070142
318is Coupe	[E36]	03.92-09.96	070142
320i	[E21]	10.75-12.83	070065 <sup>3</sup>
	[E21]	10.75-08.77	070060 <sup>3</sup>
	[E30]	09.82-04.94	070140
	[E30]	09.82-06.91	070085
	[E36]	09.90-02.98	070142
320i Cabriolet	[E36]	03.93-12.99	070142
320 Coupe	[E36]	03.92-12.98	070142
323i	[E21]	10.75-12.83	070065 <sup>3</sup>
	[E21]	01.78-08.82	070060 <sup>3</sup>
	[E30]	09.82-04.94	070053 <sup>3</sup>
	[E30]	09.83-08.86	070085
323i 2.5	[E36]	03.95-02.98	070142
323 Coupe/Cabriolet	[E36]	03.95-04.99	070142
325i	[E30]	01.83-04.94	070140
	[E36]	09.90-12.95	070142
325i Coupe	[E36]	03.92-04.99	070142
Cabriolet	[E36]	03.93-12.95	070142
328i	[E36]	01.95-02.98	070142
M 3 Evolution	[E30]	07.86-04.94	070140
518i	[E28]	10.81-12.87	070053 <sup>3</sup>
	[E34]	09.89-12.95	070074
518i Touring	[E34]	08.89-09.95	070140
	[E34]	03.93-12.95	070074 <sup>3</sup>
520i	[E12]	09.72-07.81	070065 <sup>3</sup>
	[E12]	08.76-08.82	070060 <sup>3</sup>
	[E28]	06.81-12.87	070053 <sup>3</sup>
	[E34]	01.88-12.95	070074 <sup>3</sup>
520i 24V	[E34]	10.91-09.95	070140
Touring	[E34]	11.91-12.95	070074 <sup>3</sup>
525i	[E28]	06.81-12.87	070053 <sup>3</sup>
	[E34]	01.88-12.95	070074 <sup>3</sup>
Touring	[E34]	11.91-12.95	070074 <sup>3</sup>
525i 24V	[E34]	09.89-09.95	070140
527i	[E28]	05.83-12.87	070053 <sup>3</sup>
528i	[E12]	04.77-07.81	070053 <sup>3</sup>
	[E28]	06.81-12.87	070053 <sup>3</sup>
	[E34]	01.88-12.95	070074 <sup>3</sup>
530i Touring	[E34]	09.92-12.95	070074 <sup>3</sup>
535i	[E28]	09.84-12.87	070053 <sup>3</sup>
	[E34]	01.88-12.95	070074 <sup>3</sup>
M3 Evo III	[E30]	12.89-04.90	070140
M 5 3.4i	[E28]	09.84-12.87	070053 <sup>3</sup>
3.5i	[E34]	10.88-12.95	070074 <sup>3</sup>
535i	[E34]	08.87-07.92	070074 <sup>3</sup>
538i Touring	[E34]	07.92-12.95	070074 <sup>3</sup>
540i	[E34]	09.92-12.95	070074 <sup>3</sup>
628 CSi	[E24]	09.79-04.89	070053 <sup>3</sup>
633 CSi	[E24]	09.76-04.89	070140
635 CSi	[E24]	06.78-04.89	070053 <sup>3</sup>
635 CSi (191 kW.)	[E24]	10.86-10.88	070140
635 CSi (211 kW.)	[E24]	03.84-05.89	070140
728i	[E23]	07.78-06.86	070053 <sup>3</sup>
730i	[E32]	09.86-06.94	070074 <sup>3</sup>
732i	[E23]	09.79-06.86	070053 <sup>3</sup>
733i	[E23]	05.77-08.79	070053 <sup>3</sup>
735i	[E23]	09.79-06.86	070053 <sup>3</sup>
	[E32]	09.86-06.94	070074 <sup>3</sup>
740iL	[E32]	03.92-06.94	070074 <sup>3</sup>

745i	[E23]	04.80-06.86	070053 <sup>3</sup>
Turbo	[E23]	04.80-08.86	070053 <sup>3</sup>
Z 1		07.88-06.91	070140

<sup>3</sup> Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.  
<sup>4</sup> With plastic tank.

### Chrysler

Acclaim 2.5 (Turbo) J	00.89-00.90	070119
3.0 V6 3	00.88-00.90	070119
Avenger 2.0 Y	00.95-00.98	070089
2.5 V6 H	00.95-00.98	070089
Fift Avenue 3.3 V6 R	00.90-	070119
Imperial 3.3 V6 202R	00.90-	070119
Le Baron (Turbo) C	00.90-	070119
2.5 (Turbo) J	00.89-00.90	070119
3.0 V6 181-3	00.90-	070119
New Yorker 3.0 V6 3	00.90-	070119
3.3 V6 R	00.90-	070119
Sebring 2.0 Y	00.95-00.98	070089
2.5 V6 H	00.95-00.98	070089
Sundance 2.5 (Turbo) J	00.89-00.90	070119
TC-Maserati 2.2 (Turbo)	00.88-00.90	070119
3.0 V6 3	00.90-	070119
Voyager 2.5 (Turbo) J	00.89-	070119
3.0 V6 3	00.87-00.90	070119
3.3 V6 R	00.90-	070119

<sup>3</sup> Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.

### Citroën

AX 1.1i	[HDZ, HDY]	10.89-	070126
1.4i	[KDY, KDZ]	06.88-	070126
Berlingo 1.1i	[HFX]	06.00-	070163 <sup>6</sup>
1.4i	[KFX]	07.96-	070163 <sup>6</sup>
1.4i	[KFW]	06.00-	070163 <sup>6</sup>
1.4		06.96-00.99	070138 <sup>3</sup>
1.6i 16V	[NFU]	06.00-	070163 <sup>6</sup>
1.8		06.96-00.99	070138
2.0 HDi	[RHY]	12.99-	070168 <sup>6</sup>
BX 1.4i	[KDY, KDZ]	09.88-	070126 <sup>3</sup>
1.6i	[BAY, BAZ, 180Z]	07.86-10.89	070053 <sup>3</sup>
	[B6D, B6E]	09.87-	070053 <sup>3</sup>
1.9i	[DFZ, D6A]	03.86-	070053 <sup>3</sup>
	[DKZ, D6D]	06.88-	070053 <sup>3</sup>
1.9i 16 S	[DFW, D6C]	06.87-	070053 <sup>3</sup>
C5 1.8i 16V	[6FZ]	03.01-	070167 <sup>6</sup>
	[6FZ]	03.01	070197
2.0i 16V	[RFN]	03.01-	070167 <sup>6</sup>
3.0i	[XFX]	03.01-	070167 <sup>6</sup>
	[XFX]	03.01-	070197
CX 2.3i		07.82-06.84	070053 <sup>3</sup>
2.4i	[M23-622]	06.77-06.84	070053 <sup>3</sup>
2.5i	[M25-668, -659]	07.83-12.92	070053 <sup>3</sup>
2.5i Turbo	[M25-662, -666]	06.84-12.92	070053 <sup>3</sup>
2.5i Turbo 2	[M25-667]	09.86-12.92	070054 <sup>3</sup>
Evasion, jumpy 1.8		00.96-	070113
2.0		00.94-	070113
Saxo 1.1i	[HFX]	03.00-	070163 <sup>6</sup>
1.4i	[KFW]	06.00-	070163 <sup>6</sup>
Visa 1.6 GTi		01.85-12.87	070053 <sup>3</sup>
1.6i	[180A, B6D]	01.85-03.91	070053 <sup>3</sup>
XM 2.0i	[RDZ]	05.89-06.94	070126
3.0i	[S6A]	00.89-00.93	070139
Xantia			070166 <sup>6</sup>
Xsara/Picasso 1.6i	[NFZ, NFV]	01.00-	070163 <sup>6</sup>
1.8i	[6FZ]	01.00-	070163 <sup>6</sup>
2.0i	[RFM]	03.01-	070163 <sup>6</sup>
2.0 HDi	[RHZ]	09.00-	070168 <sup>6</sup>
2.0 HDi	[RHY]	00.97-	070196
2.0 HDi With additional heating		09.00-	070180 <sup>6</sup>

## Fuel Injection Pumps 12 V.

Zx 1.1i	.....	Bo[HDZ]	...00.91-00.94
1.1i	.....	Bo[HDY]	...00.94-00.96
1.4i	.....	Bo[KDY KDX]	...00.91-00.92
1.4i	.....	[KFX]	...00.96-
1.6i	.....	Bo[BDY B4A]	...00.91-00.94
1.6i	.....	[BFZ NFZ]	...00.93-
1.8i	.....	[LFZ L6A]	...00.92-
1.9i	.....	[D6E DKZ DFY]	...00.91-
2.0i	.....	[RFX R6D]	...00.92-
2.0i 16V	.....	[RFY RFT]	...00.92-

3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.  
6 Marwal module.

## Dacia

1000-Serie 1.6 .....	02.97-
Nova 1.6 .....	05.96-

**3** *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

## Daihatsu

Applause I 1.6 16V .....	06.89-07.97
Charade IV 1.3 .....	09.96-
Charade IV 1.3 16V .....	01.93-

**3** *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

**Daewoo**

Espero .....	
1.5, 1.5, 16V .....	00.93-
1.8, 2.0 .....	00.93-
Express .....	
Le Mans 1.5, 1.5, 16V .....	00.93-
2.0 .....	00.93-
Nexia 1.5, 16V .....	00.95-00.96
Royal Salon 2.0i .....	01.88-12.89

**3** *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

## Daimler

Sovereign 2.9 .....	10.86-08.90
3.6 .....	10.86-08.89

## De Lorean

DMC - 12 2.8 ..... 10.80-10.82

## Dodge

Caravan 2.5 (Turbo) 153 J .....	00.89-
3.0 V6 3.....	00.87-00.90
3.3 V6 R .....	00.90-
Daytona 2.2 (Turbo) A , E .....	00.89-
2.5 (Turbo) J, C .....	00.89-00.90
3.0 V6 181-3 .....	00.90-
Dinasty 3.0 V6 .....	00.88-00.90
3.3 V6 .....	00.88-00.90
Ram Van 2.5 (Turbo) .....	00.87-00.90
3.0 V6 MPI .....	00.87-00.90
Ram 50 Pickup 2.4 .....	00.91-00.93
3.0 V6 .....	00.91-
Stealth 3.0 V6 .....	00.91-00.96
Shadow 2.2 (Turbo) A .....	00.89-
2.5 (Turbo) J .....	00.89-00.90
Spirit 2.5 (Turbo) J .....	00.89-00.90
3.0 V6 3 .....	00.88-00.90

**3** *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

## Ferrari

Mondial 8 .....	05.80-09.83
Quattrovalvole .....	06.82-06.85
208 Turbo .....	06.82-10.89
308 GTBi, GTSi .....	07.81-06.85
400i .....	05.79-03.85

## Fiat

Argentina 120 2.0 ie .....	06.83-11.85
2000 2.0 ie .....	06.81-05.83
Barchetta 1.8 16V .....	00.95-
Brava 95 1.4i .....	10.95-10.98
2.0 .....	06.79-12.80
Brava 1.2 16V .....	00.98-
1.8i 16V .....	00.95-
Bravo 1.4i .....	10.95-10.98
1.6, 1.8 16V .....	00.95-00.98
Cinquecento 1.1i Sporting .....	00.92-
Coupe 1.8 16V .....	00.95-02.96
1.8i 16V .....	03.96-09.96
2.0i 16V .....	04.94-09.96
2.0i 20V .....	10.96-
Elba 1.6i.e. ....	12.95-
Marea 1.4i .....	10.96-02.99
2.0i 20V .....	10.96-
1.6, 1.8 16V .....	00.96-00.99
Multipla 1.6, 16V Bip .....	00.99-
Palio 1.2, 1.5, 1.6 .....	00.96-
Panda 1.0i .....	01.86-04.92
1.0i .....	00.95-
1.0i 4x4 .....	00.87-00.91
1.1i .....	07.90-12.92
Panda Maquillage .....	
Selecta 1.1i .....	00.90-00.94
1.1i .....	00.95-
Punto 1,2 75 MPI IAW .....	00.93-00.98
1,2 16V 85 MPI IAW .....	00.97-
1.4 GT Turbo .....	00.93-00.95
Regata 75 1.5 ie .....	10.85-04.87
.....	05.87-06.90
Ritmo 75 1.5 ie .....	10.85-10.87
.....	05.87-12.88
90 1.6 ie .....	05.87-12.87
125 2.0 TC Abarth .....	07.85-09.88
130 2.0 TC Abarth .....	04.83-12.87
Tempra 1.4i .....	03.92-12.96
1.6i .....	06.90-12.96
1.8, 2.0 .....	00.90-00.96
Tipo 1.4i .....	05.89-10.95
1.6i .....	03.90-10.95
1.6i.e. ....	12.95-
1.8i .....	
2.0i .....	
Ulysse 1,8 .....	00.96-
2,0 .....	00.94-
Uno 45 1.0i .....	10.87-03.94
1.1i .....	09.89-03.94
1.3 Turbo ie .....	04.85-03.91
1.4 Turbo ie .....	09.89-12.93
70 1.4i .....	09.89-03.94
75 1.5i .....	10.85-08.87
.....	09.87-03.94
1.6i MPI .....	08.94-
X1/9 1.5 .....	09.79-12.88
124 Sport Spider 2.0 ie .....	06.79-04.85
132 2.0i .....	09.79-05.81
2000 2.0 ie .....	10.79-04.88

3 *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

## Fuel Injection Pumps 12 V.

### Ford

Aerostar 2.3 MPI [2 pcs.]	00.86-00.87	070111
.....	00.86-00.87	0700664
3.0 MPI [2 pcs.]	00.86-00.87	070111
.....	00.86-00.87	0700664
3.0 MPI	00.88-00.96	070111
4.0 MPI	00.90-00.96	070111
Bronco 4.9 MPI	00.86-00.89	0700664
5.0 MPI	00.84-00.89	0700664
5.8 MPI	00.86-00.89	0700664
Bronco II 2.3 MPI	00.86-00.88	0700664
2.9 MPI	00.86-00.88	0700664
Capri III 2.8i	01.81-04.87	0700613
Courier 1.3i	08.97-	070133
Escort 1.3, 1.4 SEFi	00.95-	070139
1.6i, XR3i	02.82-12.85	0700613
1.6 RS Turbo	01.86-07.90	0700613
1.6i EFi	00.90-00.92	070111
1.6 EFi 16V	00.92-00.94	070139
1.6, 1.8 16V SEFi	00.95-	070139
1.6 (AAL,ABL)	10.98-07.00	070089
1.6 16V (ANL)	02.99-07.00	070089
1.6, 1.8 XR3i 16V	00.95-	070139
1.6,1.8 16V (GAL,AAL,ABL)	01.95-10.98	070089
1.6,1.8 16V (GAL,AFL)	01.95-02.99	070089
1.8 16V	00.92-00.94	070118
2.0 RS	00.91-00.92	070118
RS 2.0 16V SEFi	00.95-	070139
2.0 SW	00.97-	070139
2.0i ZX2	00.97-	070139
Fiesta 1.0i	05.96-	070133
1.1i	00.93-00.95	070139
1.3i	05.96-	070133
1.6 XR2i	00.89-00.92	070111
1.6 S	00.89-00.91	070111
1.6 (Turbo)	00.90-00.92	070118
Focus 1.4i 16V	10.98-	070089
1.4, 1.6 16V SEFi	00.98-	070139
1.8, 2.0 16V SEFi	00.98-	070139
Galaxy 2.0i	[NSE] ... 11.95-03.00	070081
2.0i	[NSE] ... 11.95-03.00	070171
2.3	[Y5B] ... 01.97-	070081
2.3 16V	[Y5B,E5SA] ... 01.97-	070171
2.8 V6	[AAA] ... 11.95-04.00	070081
2.8i V6	[AAA] ... 11.95-04.00	070171
Granada 2.0i	04.85-02.92	0700553
2.4i	09.86-12.94	0700553
2.8i	10.76-08.77	0700653
2.8i Turnier (78/82)	08.77-08.85	0700613
2.8i V6	04.85-08.87	0700553
2.8i V6	[ALY] ... 04.00-	070171
2.9i	09.86-12.94	0700553
Ka 1.0i	03.97-	070133
1.3i	03.97-	070133
1.3i	09.96-	070089
Mondeo 1.8 2.0 16V	00.93-00.96	070118
1.6 16V	00.93-00.96	070111
1.6, 1.8, 2.0 16V	00.96-	070139
Orion 1.6i	09.83-03.86	0700613
1.6i EFi	00.90-00.92	070111
1.6i (86)	01.86-07.90	0700613
1.8 16V	00.92-00.93	070118
Puma 1.4 16V	00.98-	070139
1.4 16V	11.97-	070089
1.7 16V	00.97-	070139
Scorpio 2.0i	04.85-02.92	0700553
2.0 V6	00.92-00.96	070089
2.9 V6	00.92-00.96	070089
2.9 V6 24V	00.92-00.96	070089
2.4i	09.86-02.92	0700553
2.8i, XR4i, 4x4i	04.85-11.86	0700553

2.9i, 24V	04.91-02.92	0700553
Sierra 2.0i, Turnier	03.85-02.93	0700553
1.8i EFi	00.92-00.93	070111
2.0i	00.89-00.93	070118
2.0 RS Cosworth	11.87-02.93	0700613
2.8i XR4, Turnier	08.82-08.88	0700613
2.9i, XR4, Turnier	01.87-02.93	0700553

3 Inline pump for K-Jetronic,KE-Jetronic,L-Jetronic.  
4 Pre feed pump (for 2 pump system).

### FSO

Polonez 1.6 Atu	00.96-	070126
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3 In-Tank pump.

### Honda

Accord 2.2i 16V (CB7)	01.90-03.93	070089
2.2i ES	09.93-02.98	070089
2.2	00.94-00.97	070088
2.7	00.95-00.97	070088
Civic 1.5	00.88-00.91	070099
.....	00.92-00.95	070087
1.6	00.88-00.91	070099
.....	00.92-	070087
1.5 VTEC	00.92-00.95	070133
1.5i 16V	00.91-00.95	070089
1.6i 16V	00.91-00.95	070089
1.6 VTEC	00.92-00.99	070133
1.6i Coupe 16V	00.94-00.97	070089
CR-V I 2.0 16V (RD,RD1,RD3)	10.95-00.99	070133
2.0 16V (RD,RD1,RD3)	01.99-	070089
CR-V 2.0	00.97-00.98	070088
.....	00.97-00.99	070089
Integra 1.8 16V VTEC	00.94-00.99	070133
Legend 3.2 24V	00.93-00.96	070089
Odyssey 2.2i 16V	00.94-00.96	070089
2.3	00.98-	070133
Passport 2.6	00.94-00.97	070093
3.2	00.94-00.97	070089
Prelude 2.2	00.97-00.99	070133

3 Inline pump for K-Jetronic,KE-Jetronic,L-Jetronic.

### Hyundai

Accent 1.5 8V, 12V, 16V	00.94-00.99	070089
Elantra 1.6	00.92-00.95	070089
1.8	00.93-00.99	070089
Excel 1.5	00.90-00.93	070090
.....	00.93-00.94	070091
S coupe 1.5	00.91-00.93	070090
.....	00.93-00.94	070091
1.5i	00.90-00.95	070094
1.5 (Turbo)	00.91-00.95	070094
1.8 16V	00.97-00.99	070089
2.0 16V	00.97-04.02	070089
Sonata 2.0	00.93-00.98	070089
3.0	00.93-00.98	070089
Tiburon 1.8	00.97-	070089
2.0	00.97-	070089

3 Inline pump for K-Jetronic,KE-Jetronic,L-Jetronic.

### Innocenti

Elba 1.4ie	00.93-00.97	070126
1.5ie	00.92-00.93	070126
1.6ie	00.93-00.97	070126

3 Inline pump for K-Jetronic,KE-Jetronic,L-Jetronic.



## Fuel Injection Pumps 12 V.

**Isuzu**

Amigo 2.6 .....	00.89-00.95
Impulse 1.6 .....	00.91-00.92
1.8 .....	00.90-00.92
Nor.Cab 2.6 .....	00.90-
Oasis 2.2, 2.3 .....	00.96-00.97
Pick-Up 2.3 .....	00.94-00.95
2.6 .....	00.90-00.95
Rodeo 2.6 .....	00.94-00.95
3.2 V6 .....	00.95-00.97
Stylus 1.6 .....	00.91-00.93
1.8 .....	00.91-00.93
Trooper 2.6 .....	00.88-00.91
Trooper II 3.2, 3.5 V6 .....	00.92-00.99

### 3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.

# Jaguar

XJ 5, 5.3 .....	05.79-12-83
XJ 6, S, SC 2.9, 3.6 .....	10.86-08.90
XJ 6 4.0 .....	09.89-09.94
4.2 .....	05.77-10.86
XJ 12, S, 5.3 .....	07.81-09.94

## Kia

Beka .....	
Capital 1.5, 1.8 .....	00.90-00.95
Capito .....	
Clarus 1.8i .....	10.95-
1.8, 2.0 .....	00.96-00.98
2.0i .....	06.95-
Concord .....	
Potentia 2.0i .....	02.94-
Sportage 2.0i .....	07.93-

**3** *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

## Lada

Samara ..... 00.93-

**3** *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

# Lancia

Beta HPE, Trevi, Coupe 2.0i.e. ....	05.80-12.84	<b>070053<sup>3</sup></b>
Dedra 1.6i .....	08.89-10.94	<b>070126</b>
1.6 SPI .....	00.89-00.94	<b>070126</b>
1.8 .....	00.94-00.95	<b>070113</b>
1.8 16V .....	00.96-	<b>070113</b>
2.0 16V .....	00.94-	<b>070113</b>
Delta 1.4i .....	01.93-00.96	<b>070126</b>
1.5i .....	12.85-10.87	<b>070053<sup>3</sup></b>
1.6 ie .....	00.86-00.92	<b>070113</b>
1.6i .....	01.93-	<b>070126</b>
1.6 SPI .....	00.93-00.96	<b>070126</b>
1.6 HF Turbo .....	06.83-04.86	<b>070053<sup>3</sup></b>
1.6 16V .....	00.96-	<b>070113</b>
1.8 .....	00.95-	<b>070113</b>
Gamma Berlina Coupe 2.5ie. ....	06.80-12.84	<b>070053<sup>3</sup></b>
Kappa 2.0i 20V .....	11.94-06.98	<b>070133</b>
2.4i 20V .....	11.94-06.98	<b>070133</b>
Prisma 1.5ie .....	12.85-12.86	<b>070053<sup>3</sup></b>
Y10 1.0 Turbo .....	03.85-02.89	<b>070053<sup>3</sup></b>
1.0i .....	10.87-02.92	<b>070126</b>
1.1i .....	01.89-12.95	<b>070126</b>
1.1ie 4WD .....	00.89-00.92	<b>070126</b>
Y12 16V .....	00.97-	<b>070113</b>
Y14 1.4i 12V .....	01.96-	<b>070126</b>
Z 2.0 ie .....	00.94-	<b>070113</b>

### 3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.

**Lexus**

ES 250 2.5i .....	00.90-00.91	<b>070108</b>
ES 300 3.0i .....	00.92-00.99	<b>070097</b>
GS 300 3.0i .....	00.93-00.99	<b>070095</b>
GS 300 3.0 24V .....	00.93-00.97	<b>070089</b>
LS 300 3.0i .....	00.92-00.97	<b>070097</b>
SC 300 3.0i .....	00.92-00.97	<b>070095</b>
SC 300 Coupe .....	00.92-00.97	<b>070089</b>
SC 400 4.0i .....	00.90-00.92	<b>070096</b>
.....	00.92-00.97	<b>070095</b>
SC 400 Coupe .....	00.92-00.97	<b>070089</b>
LS 400 4.0i .....	00.90-00.98	<b>070096</b>
.....	00.99-	<b>070095</b>
LS 400 4.0 32V .....	00.90-00.94	<b>070089<sup>3</sup></b>
LX 450 4.5i .....	00.96-00.97	<b>070095<sup>3</sup></b>
LX 470 4.7i .....	00.99-	<b>070095<sup>3</sup></b>

**3** *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

**Mazda**

323 1.6i .....	00.86-00.91	070099
.....	00.92-00.94	070098
1.6 16V .....	00.92-00.94	070089
323 C IV 1.6 16V (BG) .....	03.91-10.94	070133
IV 1.6 16V (BG) .....	03.91-10.94	070089
1.8 16V 4WD (BG) .....	11.91-12.93	070133
1.8 16V GT .....	09.89-03.93	070133
323 F IV 1.6 16V (BG) .....	03.91-10.94	070133
1.8 16V (BG) .....	08.89-07.94	070133
323 S IV 1.6 16V (BG) .....	08.89-10.94	070133
1.8 16V GT (BG) .....	06.89-10.94	070133
626 2.0i .....	00.86-00.87	070099
.....	00.93-00.97	070100
.....	00.93-00.97	070133
2.0 16V .....	00.91-00.95	070089
2.5 24V .....	00.91-00.95	070089
.....	00.95-00.97	070133
2.2i .....	00.88-00.92	070099
.....	00.93-00.97	070100
2.5i .....	00.93-00.97	070100
929 3.0 V6 .....	00.92-00.95	070089
Millenia 2.5i V6 .....	00.95-00.98	070089
MPV 3.0 V6 .....	00.96-00.98	070089
MX 3 1.6i .....	00.92-00.95	070098
1.6 16V .....	00.92-00.95	070089
1.8i .....	00.92-00.94	070098
MX5 Mialta 1.6 16V .....	00.93-00.93	070089
1.8 16V .....	00.94-00.97	070089
MX5 II 1.6 16V (NB) .....	05.98-	070133
1.8 16V (NB) .....	05.98-	070133
MX6 2.0i .....	00.93-00.97	070100
2.0 16V .....	00.93-00.94	070089
.....	00.95-00.97	070133
2.2i .....	00.88-00.92	070099
2.5i .....	00.93-00.97	070100
2.5 24V .....	00.93-00.94	070089
.....	00.95-00.97	070133
Navajo 4.0 V6 .....	00.90-00.94	070111
Protege 1.5i .....	00.95-00.97	070101
1.8i .....	00.92-00.97	070101
B2300 2.3i .....	00.94-00.97	070111
3.0i .....	00.94-00.97	070111
B2500 2.5 .....	00.98-	070133
B4000 4.0i .....	00.94-00.97	070111

3 *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic*

## Fuel Injection Pumps 12 V.

### Mercedes

190 E	(201)	10.82-08.86	0700611
1.8	(201)	04.90-08.93	0700613
2.0	(201)	09.85-08.93	0700613
2.3	(201)	09.85-08.93	0700613
2.3-16V	(201)	04.84-08.88	0700613
2.5-16V	(201)	09.86-08.93	0700552
2.6	(201)	09.86-08.93	0700552
200 E, TE	(124)	06.85-08.93	0700621
E	(124)	07.93-06.98	0700613
CE Coupe	(124)	09.89-06.93	0700613
TE	(124)	07.93-05.96	0700552
220 TE	(124)	09.92-06.93	0700552
E	(124)	07.93-06.98	0700613
TE	(124)	07.93-05.96	0700552
230 E	(124)	12.84-08.93	0700611
E, TE	(123)	04.80-08.86	0700613
TE	(124)	09.85-08.92	0700611
CE	(123-124)	04.80-08.92	0700613
260 E	(124)	12.84-06.93	0700552
SE	(126)	09.85-06.91	0700613
280 E, TE	(123)	02.76-11.85	0700653
	(124)	09.92-06.96	0700552
SE	(140)	06.93-09.98	0700552
CE, SE, SEL	(123)	08.76-11.85	0700653
	(126)	09.79-08.85	0700613
SL, SLC	(107)	08.74-07.85	0700613
SL	(129)	07.93-05.98	0700552
300 E	(124)	01.85-08.92	0700552
E-24	(124)	09.89-08.92	0700552
TE	(124)	01.86-06.93	0700552
E 4Matic	(124)	07.93-06.95	0700552
CE Coupe	(124)	03.87-08.92	0700552
CE-24 Cabriolet	(124)	09.89-06.93	0700552
SE, SEL	(140)	03.91-05.93	0700552
SE, SEL, SL	(107-126)	09.85-06.91	0700613
SL, SL-24	(129)	03.89-09.93	0700621
320 E, TE	(124)	09.92-06.93	0700552
	(124)	07.93-05.96	0700552
CE Coupe	(124)	09.92-06.93	0700552
E Cabriolet, Coupe		07.93-06.98	0700552
SE	(140)	06.93-09.98	0700552
SL	(129)	07.93-05.98	0700552
350 SE, SEL	(116)	03.76-03.80	0700653
SL, SLC	(107)	05.71-05.80	0700613
380 SE, SEL, SEC	(126)	12.79-08.85	0700613
SL, SLC	(107)	03.80-08.85	0700613
400 E	(124)	09.91-06.93	0700552
SE, SEL	(140)	02.91-05.93	0700552
420 E	(124)	07.93-06.95	0700552
SE, SEL, SEC	(126)	09.85-06.91	0700552
SL	(107)	01.86-08.89	0700552
SE	(140)	06.93-09.98	0700552
CL	(140)	09.96-	0700552
450 SL, SLC	(107)	01.73-10.80	0700613
SLC 5.0	(107)	09.77-05.80	0700613
SE, SEL	(116)	12.75-04.80	0700653
SEL 6.9	(116)	07.75-03.80	0700653
500 E	(124)	01.91-06.95	0700552
SE, SEL, SEC	(126)	12.79-06.91	0700613
SLC	(107)	03.80-08.85	0700613
SE, SEL, SEC	(140)	02.91-05.93	0700552
SE, Coupe	(140)	06.93-09.98	0700552
SL	(107)	05.80-08.89	0700552
	(129)	03.89-05.98	0700552
CL	(140)	09.96-	0700552
560 SEC, SEL	(126)	10.85-06.91	0700552
SL	(107)	09.85-08.89	0700552
600 SE, SEL, SEC	(140)	04.91-05.93	0700552
SE	(140)	06.93-09.98	0700552
SL	(129)	07.92-09.98	0700552

CL	(140)	09.96-	0700552
C 36 AMG	(202)	01.94-05.97	0700552
280	(202)	03.93-05.97	0700552
E 36 AMG	(124)	03.94-06.98	0700552
GE 200	(463)	01.90-07.93	0700552
230	(463)	09.89-10.94	0700552
	(460)	02.82-08.92	0700613
	(461)	04.92-06.96	0700552
280	(460)	11.79-11.89	0700613
300	(463)	08.93-10.94	0700552
500	(463)	08.93-10.94	0700552

1 When using two pumps, select reference Cargo 070055.

2 When using two pumps, select reference Cargo 070055 or Cargo 070062.

### Mitsubishi

Carisma 1.6, 1.8 GDi	00.96-01.99	070193
Colt 1.5i	00.91-00.96	070089
1.5i 16V	00.91-00.96	070089
1.6 16V	04.92-04.96	070089
1.8i 16V	00.91-04.96	070089
Diamante 3.0 V6	00.92-00.97	070089
3.5 V6	00.92-00.97	070089
Eclipse 1.8i 16V	00.91-00.98	070089
2.0	00.95-00.98	070101
2.0 (Turbo)	00.95-00.97	070133
2.4	00.96-00.96	070101
Expo 1.8	00.92-00.96	070101
2.4	00.92-00.96	070089
Expo LRV 1.8	00.92-00.96	070089
2.4	00.92-00.96	070089
Galant 2.0	00.91-00.93	070101
	11.92-08.96	070089
2.4	00.94-00.97	070101
2.4 V6 24V	11.92-08.96	070089
2.5	00.95-00.97	070101
Lancer 1.3	06.92-	070089
Mirage 1.5	00.91-00.92	070101
	00.93-00.96	070102
1.6	00.91-00.92	070101
1.8	00.93-00.96	070102
Montero 3.0	00.94-00.97	070089
2.4	00.97-00.98	070089
3.5	00.94-00.97	070089
Pajero II 3.0 V6	12.90-12.95	070089
3.0 V6 24V	06.94-05.97	070089
Pick-up 2.4	00.91-00.96	070089
3.0	00.92-00.95	070089
Wagon 3.0	00.93-00.95	070089
3000 GT 3.0	00.91-00.96	070092
	00.96-00.97	070101
DOHC (w/o Turbo)	00.91-00.99	070089
SOHC	00.97-00.99	070089

3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.

### Nissan

Altima 2.4i	00.93-00.95	070128
2.4	00.96-00.99	070089
Axxess 2.4	00.89-00.90	070093
D 21 Pickup 2.4 12V	00.95-00.97	070089
Frontier 2.4 16V	00.98-00.99	070086
Maxima QX 3.0 V6 24V	00.95-00.98	070089
2.0 (A32)	02.95-08.00	070133
3.0 (A32)	01.95-12.96	070133
Micra 1.0 16V	08.92-	070128
1.3i 16V	08.92-	070128
Pathfinder 3.3 V6	09.97-	070089
Pick up 2.4i 12V	04.92-02.98	070089
Primera 1.6i 16V	05.95-05.96	070128
1.6i 16V	06.96-	070089
2.0i 16V	06.90-05.96	070128



## Fuel Injection Pumps 12 V.

2.0i 16V .....	06.96-
Quest 3.0 V6 .....	00.88-00.90
Sentra 1.6 16V .....	00.95-00.99
2.0 16V .....	00.95-00.99
Serena 1.6i 16V .....	07.92-08.97
2.0i 16V .....	07.92-08.97
Terrano II 2.4i 12V .....	02.93-05.96
.....	05.96-
Vanette 1.6i 16V .....	07.92-08.97
Van 2.4 .....	00.87-00.90
200 SX 1.6 .....	00.95-00.98
2.0 .....	00.95-00.98
240 SX 2.4 .....	00.89-00.94

**3** *Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.*

## Opel

Ascona 1.6i .....	[LC,NZ] ...	09.86-08.88
1.6i .....		09.87-08.88
2.0 E, 400 E .....		08.79-08.81
1.8i .....		09.82-08.88
2.0i .....		09.86-08.88
Astra F 1.4i SE, MPI .....	[SE] .....	03.92-03.96
F 1.4i .....	[NZ] .....	09.91-
F 1.4i 16V .....	[XE] .....	04.96-
F 1.6i .....	[SZ,LZ2,SZR,NZ] .....	09.91-
.....	[SZR] .....	03.98-
F 1.6i, 1.6i 16V .....	[SE,XEL] .....	03.92-
F 1.8i, 1.8i 16V .....	[NZ,SE,XEL,XE] .....	09.91-00.98
F 2.0i, 2.0i 16V .....	[NE,XEV,XE,LN] .....	09.91-00.98
G 1.2 16V MPI .....		00.98-
G 1.4 16V MPI .....		00.98-
G 1.6 8V,16V .....	(74 kW.) .....	00.98-
G 1.8 16V .....	(85 kW.) .....	00.98-
G 2.0 16V .....	(100 kW.) .....	00.98-
Calibra 2.0i , 2.0i 16V, Turbo .....		06.90-03.97
2.5i .....		04.93-03.97
Commodore 2.5 E .....		05.81-12.82
Corsa 1.0i .....	[XE] .....	03.97-
1.2i .....	[NZ] .....	09.90-03.93
.....	[XE] .....	09.97-
.....	[NZ,SZ] .....	03.93-
1.3i .....	[N] .....	09.85-03.93
1.3i .....		09.86-09.90
1.4i .....	[NZ] .....	01.90-03.93
.....		01.90-03.93
1.4 Si .....		09.91-03.93
1.4i .....	[SZ,NZ] .....	03.93-
1.4 Se .....		03.93-
1.4i 16V .....	[SEL,XE] .....	09.94-
1.6i, Si .....	[XE] .....	05.88-03.93
1.6i .....	[NZ] .....	04.89-03.93
1.6i, 1.6i 16V .....	[SEL,XE] .....	03.93-
Combo 1.4 SE .....		07.94-
Fontera 2.0 .....		00.91-
2.2 16V .....		00.95-
2.4i .....		03.92-10.98
Kadett 1.3i .....		09.85-08.91
1.4i .....		01.90-08.91
1.6i .....		09.86-08.91
1.6i .....	[NZ] .....	09.87-08.91
1.8i, GSi .....		09.84-08.91
1.8i .....		09.90-08.91
1.8 E, GT/E .....		02.83-08.86
1.9 GT/E .....		09.75-07.79
2.0i, 2.0i 16V .....		09.86-08.91
2.0 E Rallye, GT/E .....		08.77-07.79
Manta 1.9i .....		09.75-07.77
2.0i .....		08.77-08.88
Monza 2.0i .....		03.83-10.84
2.2i .....		11.84-08.86
2.5i .....		05.81-08.88

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3.0i .....	02.78-08.86
<b>Omega 1.8i .....</b>	<b>09.86-03.94</b>
2.0i .....	09.86-03.94
2.0i, 2.0i 16V .....	01.94-
2.4i .....	09.88-03.94
2.5i 24V .....	01.94-
2.6i .....	09.90-03.94
3.0i 24V .....	01.94-
3000, 3000 24V .....	03.87-03.94
3.0i 2.4V .....	01.94-
<b>Rekord 1.8i .....</b>	<b>05.85-08.86</b>
2.0i .....	09.77-10.84
2.2i .....	11.84-08.86
<b>Senator 2.0i .....</b>	<b>03.83-10.84</b>
2.2i .....	11.84-08.87
2.5i .....	05.81-08.87
.....	09.87-12.89
3.0i .....	02.78-08.87
.....	09.87-09.93
<b>Tigra 1.4i 16V .....</b>	<b>[XE] ... 09.94-</b>
1.4i 16V .....	09.94-08.00
1.6i 16V .....	[XE] ... 09.94-
1.6i 16V .....	09.94-08.00
<b>Vectra 1.6i .....</b>	<b>[SZ,LZ2,NZ,NZ2] ... 09.88-08.95</b>
1.8i .....	[NZ] ... 03.90-08.95
2.0i .....	[NE,SEH] ... 09.88-08.95
2.0i 16V, Turbo .....	[XE,V,XE,XEJ,LN] ... 09.92-08.95
2000 16V .....	09.89-08.92
2.5i .....	[XE] ... 02.93-08.95
<b>Vectra B 1.6, 1.8 16V .....</b>	<b>00.95-</b>
2.0 8V, 16V .....	00.95-
2.2 16V .....	00.95-
2.5 V6 .....	00.95-
<b>Zafira 1.6 16V .....</b>	<b>00.98-00.99</b>
1.8 16V .....	00.98-00.99
1.6, 1.8 16V .....	00.99-

### 3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic

## Peugeot

106	1.3i	.....	[MFZ]	...00.93-00.96
	1.4i	.....	[KFZ K6B]	...00.91-00.96
	1.6i	.....	[NFZ NFY]	...00.93-00.96
205	1.0i	.....	[CDZ,CDY]	...07.92-
	1.1i	.....	[HDZ,HDY]	...07.89-
	1.4i	.....	[KDX,KDY,KDZ]	...08.88-
	1.6i	.....	[BDY]	...05.90-
	1.6i	.....		...00.86-00.94
	1.9i	.....		...00.86-00.96
206	1.1i	.....	[HFY,HFZ]	...06.98-
	1.1i	.....	[HFX]	...03.00-
	1.4i	.....	[K6C,KFX]	...06.98-
	1.4i	.....	[KFW]	...03.00-
	1.6i	.....	[NFZ]	...06.98-
	1.6i 16V	.....	[NFU]	...03.00-
	1.6i 16V	.....	[NFU]	...09.00-
	2.0i S16	.....	[RFN]	...01.99-
	2.0i S16	.....	[RFR]	...01.99-09.00
	2.0i S16	.....	[RFN]	...10.00-
	2.0HDi	.....	[RHY]	...04.99-
305	1.9i	.....	[DFZ]	...10.82-07.90
306	1,1	.....	[HDZ,HDY]	...01.93-03.97
	1.4	.....	[KDX]	...01.93-02.97
	1.4	.....	[KFX]	...00.96-00.97
	1.6	.....	[NFZ]	...00.93-00.97
	1.8	.....	[LFZ]	...00.93-00.97
	2.0	.....	[RFX R6D]	...00.93-00.97
	2.0 16V	.....	[RFY RFT ]	...00.93-00.97
	2.0 16V	.....	[RFS]	...00.96-00.97
	2.0 HDi	.....	[RHY]	...00.97-
307	1.4i	.....	[KFW]	...08.00-
	1.6i 16V	.....	[NFU]	...08.00-

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070167<sup>6</sup>

## Fuel Injection Pumps 12 V.

### Peugeot *continued*

2.0i 16V	[RFN]	08.00-
309 1.1i	[HDZ,HDY]	10.90-12.93
1.4i	[KDY,KDZ]	10.88-12.93
1.6i	[BDY,BDZ]	07.89-12.93
1.9i	[DDZ]	07.88-12.93
405 1.8i		06.92-04.97
1.9i, 1.9i 16V		07.87-04.97
2.0i, Mi16		06.92-04.97
406 1.6	[BFZ]	07.95-00.97
1.8 8V/16V		07.95-00.97
	[6FZ]	10.00-05.04
2.0 16V	[RFV]	07.95-00.97
	[RFN]	08.00-05.04
	[RFR]	01.99-08.00
2.0 HDi	[RHZ]	10.98-03.99
2.2	[3FZ]	07.00-05.04
3.0 24V		07.95-00.97
	[XFZ]	10.96-05.04
3.0 V6	[XFX]	03.00-05.04
504 2.7i V6		08.77-06.83
505 2.0i		08.79-12.89
2.2i		05.81-10.84
2.2i, 2.2i Turbo		10.82-12.93
2.8i V6		06.86-12.93
604 2.7 V6 Ti		08.77-05.83
2.8i V6		06.83-06.86
605 2.0i	[RDZ]	06.89-06.94
3.0	[S6A]	00.89-00.93
607 2.0i 16V	[RFN]	03.00-
2.0 HDi	[RHZ]	03.00-
2.2i 16V	[3FZ]	03.00-
2.2 HDi	[4HX]	03.00-
3.0i	[XFX]	03.00-
806 1.8 LFW		00.96-05.98
2.0 8V /16V		05.94-00.98
Partner 1.1i	[HFX]	09.00-
1.4	[KFW]	09.00-
1.4		00.96-00.00
1.6i 16V	[NFU]	09.00-
1.8		00.96-00.00
2.0 HDi	[RHY]	12.99-

3 In-Tank pump.  
5 Bosch module.  
6 Marwal module.

### Porsche

911 2.7, S		09.75-06.77
3.0 Carrera		09.75-06.77
3.0 SC		07.77-08.80
		07.80-08.83
3.0 Turbo		01.75-06.80
3.2 Carrera		08.83-08.89
3.3 Turbo		10.77-08.92
3.6 Turbo		02.93-08.94
924 2.0		01.76-08.85
2.0 Turbo		07.80-06.83
2.5, S		07.81-07.88
928 4.5		05.77-07.82
4.7		05.77-06.80
4.7 S		09.79-07.83
		08.83-07.86
5.0 S		12.84-07.86
5.0 CS, S4		08.86-07.91
944 2.5, S		07.81-07.88
2.5 Turbo		08.85-07.91
2.7		11.88-08.89
3.0 S2		12.88-07.91
968 3.0		08.91-11.95

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### Renault

Alpine 2.5i Turbo		03.85-12.92
3.0i Turbo		03.91-
Clio 1.2i		06.90-03.94
1.2, 1.4, 1.8 MPI		00.93-00.96
1.4i		06.90-03.96
1.8i		06.90-03.96
Clio II 1.2i	[D7F744,746,764]	03.98-
1.2i	[D7F726,746]	10.99-
1.2i 16V	[D4F712,714]	03.00-
1.4i 16V	[K4J710,712,713]	08.00-
1.4i 16V	[K4J711]	06.01-
1.6i	[K4M744,745]	06.01-
2.0i 16V	[F4R732,736]	06.01-
Espace 2.0i		06.87-12.90
		01.91-
2.0	[F3R]	00.97-00.00
2.2i		07.86-12.90
		01.91-
2.9i		01.91-
3.0 12V	[Z7X775]	00.97-00.00
Express Extra, Rapid 1.4		03.86-05.87
Fuego 1.6i Turbo		02.82-10.85
2.2i		10.83-10.85
Kangoo 1.2 MPI		10.98-
Laguna 1.8, 2.0 MPI		00.94-
Megane 1.6, 2.0 MPI		00.96-
R5 1.4i, 1.4 Turbo		10.84-12.96
1.4 Turbo 2		12.79-12.85
1.7i		06.86-12.96
R9 1.4i		06.87-03.91
1.4 Turbo		09.84-03.91
1.7i		09.84-03.91
R11 1.4i		06.87-03.93
1.4 Turbo		09.83-03.91
1.7i		10.83-03.91
R18 1.6 Turbo Berline, Break		10.80-09.85
2.2i Break		10.83-02.86
R19 1.2i		05.92-
1.4, 1.4i		09.88-09.92
		07.92-
1.7i		09.88-
1.8i, 16V		06.89-09.92
1.8i		05.92-
R21 1.7i		03.86-12.95
2.0i		07.86-12.95
2.0i Turbo		04.87-03.93
2.2i		07.86-12.95
R25 2.0i		06.87-12.92
2.2i		01.84-12.92
2.5i Turbo		10.84-12.92
2.7i		01.84-08.89
2.7i V6		00.84-00.89
2.9i		10.86-12.92
R30 2.7i		10.78-12.83

3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.  
4 Pre feed pump (for 2 pump system).  
6 Marwal module.

### Rover Group

#### Austin, MG, Morris, Rover, Triumph

25 1.4 MPI		10.00-
1.6, 1.8 MPI		10.00-
45 1.4 MPI		10.00-
1.6, 1.8 MPI		10.00-
200 1.4 MPI		04.96-09.00
1.6, 1.8 MPI		04.96-09.00
214 1.4i 8V/16V MPI		00.92-
216 1.4i 8V/16V MPI		00.91-00.93
2.0 GT 16V MPI		00.91-00.93
220 2.0 GT 16V MPI		00.93-

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## Fuel Injection Pumps 12 V.

400 1.4 MPI	04.96-09.00
1.6, 1.8 MPI	04.96-09.00
414 1.4i 16V MPI	00.93-00.95
820 Si	00.86-00.91
Metro 1.3, 1.3 Turbo	10.80-04.90
Maestro 2.0i	10.84-08.88
2.0i	09.88-
Montego 2.0i, 2.0i Turbo	04.84-08.88
2.0i	09.88-
Triumph 3500 Vitesse	10.82-10.92
Triumph TR 7 2.0	05.77-
Range Rover 3.5i	06.70-09.90

3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.

### Saab

9-3 2.0i	00.99-
99 EMS	01.76-08.81
900i	09.78-08.83
2.0 16V	09.88-00.89
16V	09.85-08.92
2.0i, 2.1i, 2.5i	00.90-00.98
9000 CD 2.0 Turbo	09.89-12.89
16V	12.85-08.93
2.0i	-00.89
2.0i, 2.3i, 3.0i	00.90-00.98

3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.

### Seat

Alhambra 1.8 Turbo 20V	[AJH] ... 10.97-
1.8 T	[AJH,AWC] ... 10.97-
2.0	[ADY] ... 04.96-
2.0i	[ADY,ATM] ... 04.96-
2.0i	[ABF] ... 08.96-06.00
2.8 V6	[ALY] ... 06.00-
Arosa 1.0	[AER,ANV,AHT] ... 05.97-
1.0	[ALD,ALL,AUC] ... 05.97-
1.4	[AEX,APQ,ANW] ... 05.97-
1.4	[AKV,AKK,AUD] ... 05.97-
Pump only (w/ modification)	
Cordoba 1.4i	[ABD] ... 11.95-
1.4i	[AEX] ... 06.94-06.99
1.6i	[AEE] ... 02.93-06.99
1.6 SPI	[ABU 1F] ... 00.93-00.99
1.8i	[ADZ] ... 11.94-
2.0i	[2E] ... 02.93-06.99
2.0i	11.95-
Vario 1.6 SPI	[1F] ... 00.96-00.99
Ibiza 1.0	[1043 AAU] ... 00.95-00.96
	[AAU] ... 00.93-00.95
1.2i	12.89-05.93
1.2i [021A]	00.89-00.93
1.3i	[AAV] ... 00.93-00.94
1.4i	[ABD] ... 11.95-
1.5i	10.86-05.93
1.6i SPI	[1F] ... 00.94-00.97
1.7i	01.91-05.93
1.8i	[ADZ] ... 11.94-00.97
2.0i	11.95-
Inca 1.6 SPI	[1F] ... 00.95-00.97
Leon 1.4 16V	[APE,AHW,AXP,BCA] ... 11.99-
1.6	[AKL,AEH] ... 11.99-
1.6 16V	[ATN,AUS,AZD,BCB] ... 09.00-
1.8 20V	[AGN,APG] ... 11.99-
1.8 20V T	[APP,AUQ] ... 11.99-
Malaga 1.2i	12.89-12.93
1.5i	10.86-12.93
1.7i	01.91-12.93
Marabella 900i	00.97-

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Toledo 1.6	05.91-
1.6 [EZ, ABN Carburator]	00.91-00.93
1.6 SPI	[1F] ... 00.96-00.99
1.8	05.91-04.97
1.8 16V	[KR] ... 05.91-11.92
	[PL] ... 05.91-03.94
	05.91-00.94
1.8 SPI	[RP ABS ADZ] ... 00.96-00.97
2.0	05.91-06.96
2.0 16V	[ABF] ... 03.94-00.98

3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.  
4 Pre feed pump (for 2 pump system).

### Skoda

Fabia 1.0	[ARV,ATY,AQV] ... 12.99-08.02
1.4	[ATZ,AME,AQW] ... 09.00-
1.4	[AZE,AZF] ... 08.00-08.02
1.4 16V	[AUA,AUB] ... 12.99-
2.0	[AQY,AZL] ... 12.99-
Felicia Pump only (w/ modification)	
Octavia 1.6	[AEH,AKL] ... 02.97-
1.6	[AEE] ... 09.96-09.00
1.8	[AGN] ... 09.96-
1.8 T	[AGU,ARZ,ARX,AUM] ... 08.97-
2.0	[AQY,APK,AZH,AEG] ... 04.99-
Pump only (w/ modification)	

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070066<sup>4</sup>  
070086  
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### Subaru

Forester 2.5 4WD	00.98-00.99
Justy 1.2i 4WD	00.91-00.94
Legacy 2.2	00.90-00.96
(4WD)	00.95-00.96
2.5	00.96-
Impreza 1.6i	06.98-12.00
1.8	00.93-00.96
2.2	00.95-00.97
2.2i 4WD	00.93-00.99
2.5 4WD	00.98-00.99
Outback 2.2 4WD	00.97-00.99

3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.

### Suzuki

Balero 1.6 16V	00.95-00.98
Balero Wagon 1.6 16V	00.95-00.98
Samurai 1.3	00.90-00.95
Sidekick 1.6	00.89-00.95
1.6	00.96-00.97
1.8	00.96-00.97
Swift 1.3i 16V MPI	00.89-00.94
Vitara 1.6 8V	00.87-00.97
1.6 16V	00.87-00.97
X90 1.6 16V Cabriolet	00.95-00.98

3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.

### Triumph (see Rover Group)

### Toyota

Avensis 1.6i 16V	10.97-
1.8i 16V	10.97-
2.0i 16V	10.97-
Camry 2.0i	00.86-00.88
	00.88-00.91
2.2i	00.92-00.97
2.5i	00.88-00.91
3.0i	00.92-00.97
Carina E 1.6i 16V	12.92-
1.8i 16V	12.94-
2.0i 16V	12.92-

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## Fuel Injection Pumps 12 V.

### Toyota *continued*

Celica 1.6i .....	00.90-00.93	<b>070108</b>
1.8i .....	00.94-00.97	<b>070109</b>
2.0i .....	00.86-00.89	<b>070096</b>
2.2i .....	00.90-00.93	<b>070108</b>
.....	00.94-00.97	<b>070109</b>
Corolla 1.6i .....	00.87-00.98	<b>070097</b>
.....	00.90-00.97	<b>070108</b>
1.8i .....	00.93-00.98	<b>070097</b>
.....	00.93-00.95	<b>070108</b>
Cressida 3.0i .....	00.89-00.92	<b>070096</b>
Land Cruiser 4.0i .....	00.88-00.90	<b>070097</b>
4.5i .....	00.93-00.97	<b>070095</b>
4.5i 24V .....	00.92-	<b>070089</b>
MR 2 1.6i .....	00.85-00.95	<b>070097</b>
Paseo 1.5i .....	00.92-00.95	<b>070097</b>
.....	00.95-00.97	<b>070109</b>
1.5i 16V .....	00.95-	<b>070089</b>
Pick-up 2.4i .....	00.84-00.95	<b>070097</b>
3.0i .....	00.88-00.95	<b>070097</b>
3.0i V6 .....	00.92-00.95	<b>070089</b>
Previa 2.4i .....	00.94-00.95	<b>070095</b>
..... (E-series) .....	00.94-00.95	<b>070110</b>
2.4i .....	00.92-	<b>070109</b>
2.4i .....	00.92-00.93	<b>070097</b>
Supra 3.0i .....	00.86-00.92	<b>070096</b>
.....	00.94-00.98	<b>070095</b>
3.0 Turbo .....	00.94-00.97	<b>070089</b>
Tercel 1.5i .....	00.91-00.94	<b>070097</b>
.....	00.95-00.97	<b>070109</b>
T100 2.7i .....	00.94-00.98	<b>070097</b>
3.0i .....	00.93-00.94	<b>070097</b>
3.4i .....	00.95-00.96	<b>070097</b>
4Runner 2.4i .....	00.85-00.95	<b>070097</b>
2.7i .....	00.96-00.98	<b>070097</b>
3.0i .....	00.88-00.95	<b>070097</b>
3.4i .....	00.96-00.98	<b>070097</b>

3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.

### Vauxhall

Astra 1.4i .....	[SE] ... 03.92-	<b>070124</b>
.....	[NZ] ... 09.91-	<b>070123</b>
.....	01.90-08.91	<b>070174</b>
1.6i .....	[SE] ... 03.92-	<b>070124</b>
.....	[NZ] ... 09.91-	<b>070123</b>
.....	01.91-08.93	<b>070174</b>
1.6i Kat .....	10.87-02.93	<b>070174</b>
..... (G)[SZR] ...	03.98-	<b>070123</b>
1.8 GTE .....	05.83-08.91	<b>0700533</b>
2.0 GTE .....	09.86-08.91	<b>0700533</b>
2.0i, 2.0i 16V .....	[SE, XE] ... 09.91-	<b>070124</b>
Astravan III 1.4i .....	01.91-10.94	<b>070174</b>
Belmont 1.8i .....	09.86-09.93	<b>0700533</b>
Calibra 2.0i, 16V, Turbo .....	03.90-03.97	<b>0700533</b>
2.5i .....	04.93-03.97	<b>0700533</b>
Carlton 1.8i .....	09.86-10.94	<b>0700533</b>
2.0i .....	09.86-10.94	<b>0700533</b>
Cavalier 1.6i .....	(III)[SZ, LZ2, NZ] ... 09.88-08.95	<b>070123</b>
1.8i .....	09.86-08.88	<b>0700533</b>
..... (III)[NZ] ...	09.88-08.95	<b>070123</b>
2.0i .....	09.86-08.88	<b>0700533</b>
Cavalier II 1.6i .....	08.86-08.88	<b>070174</b>
Corsa 1.0i .....	[XE] ... 03.97-	<b>070124</b>
1.2i .....	[XE] ... 09.97-	<b>070124</b>
..... [NZ, SZ] ...	03.93-	<b>070123</b>
1.4i .....	[NZ, SZ] ... 03.93-	<b>070123</b>
1.4i, 1.4i 16V .....	[SEL, XE] ... 11.94-	<b>070124</b>
1.4i Si .....	[SE] ... 08.93-	<b>070124</b>
1.6i, 1.6i 16V .....	[SEL, XE] ... 08.93-	<b>070124</b>
Frontera 2.4i .....	03.92-10.98	<b>070174</b>

Nova 1.3i .....	09.89-03.93	<b>070174</b>
1.4i .....	01.90-03.93	<b>070174</b>
Royale 3.0i .....	10.78-12.86	<b>0700533</b>
Tigra 1.4i 16V .....	[XE] ... 11.94-	<b>070124</b>
1.6i 16V .....	[XE] ... 11.94-	<b>070124</b>

3 Inline pump for K-Jetronic, KE-Jetronic, L-Jetronic.

### Volga

3110 2.3 16V .....	01.95-	<b>0700543</b>
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### Volvo

240 2.0i .....	[B19E] ... 09.76-07.84	<b>0700653</b>
.....	[B200E] ... 08.84-07.92	<b>0700603</b>
2.0i Turbo .....	08.81-07.84	<b>0700603</b>
2.1i .....	[B21E] ... 08.74-07.82	<b>0700653</b>
.....	08.81-07.84	<b>0700543</b>
2.1i Turbo .....	08.80-07.86	<b>0700603</b>
2.3i .....	[B23E] ... 03.79-07.84	<b>0700653</b>
.....	08.84-03.86	<b>0700543</b>
.....	[B230E] ... 08.84-07.92	<b>0700603</b>
2.7i .....	[B27E] ... 08.79-07.80	<b>0700653</b>
2.8i .....	[B28E] ... 08.80-07.84	<b>0700603</b>
.....	[B280E] ... 08.85-	<b>0700603</b>
260 2.7i .....	[B27E] ... 08.74-07.80	<b>0700653</b>
2.8i .....	[B28E] ... 08.80-07.84	<b>0700603</b>
2.8i, Coupe .....	08.80-07.82	<b>0700603</b>
340 2.0i .....	[B200E] ... 08.84-07.88	<b>0700543</b>
360 2.0i .....	[B19E] ... 08.82-07.84	<b>0700543</b>
.....	[B200E] ... 08.84-07.89	<b>0700543</b>
440 1.8i .....	[B18E, F, FT, U] ... 00.87-	<b>070114</b>
2.0i .....	[B20F] ... 00.87-	<b>070114</b>
1.7i (Turbo) .....	00.92-00.96	<b>070114</b>
460 1.8i .....	[B18E, F, FT, U] ... 00.87-	<b>070114</b>
2.0i .....	[B20F] ... 00.87-	<b>070114</b>
480 1.8i .....	[B18E, F, FT, U] ... 00.87-	<b>070114</b>
2.0i (Turbo) .....	00.92-00.96	<b>070114</b>
2.0i .....	[B20F] ... 00.87-	<b>070114</b>
740 2.0i .....	[B19E] ... 08.83-07.84	<b>0700633</b>
.....	[B200E] ... 08.84-07.91	<b>0700603</b>
2.0i Turbo .....	04.84-07.84	<b>0700633</b>
.....	08.84-07.92	<b>0700543</b>
2.3i .....	[B23E] ... 08.83-07.85	<b>0700633</b>
.....	[B230E] ... 08.84-07.91	<b>0700603</b>
2.3i Turbo .....	08.84-07.91	<b>0700543</b>
2.3i 16V .....	08.88-	<b>0700593</b>
760 2.0i Turbo .....	08.84-07.89	<b>0700543</b>
2.3i Turbo .....	04.83-07.92	<b>0700543</b>
2.8i .....	[B28E] ... 02.82-04.86	<b>0700633</b>
780 2.0i Turbo .....	01.86-07-90	<b>0700543</b>
850 2.0i, 2.2i, 2.5i .....	00.91-	<b>070115</b>
940 2.0i .....	[B200E] ... 09.90-08.91	<b>0700603</b>
2.0i Turbo .....	09.91-08.97	<b>0700543</b>
2.3i Turbo .....	09.90-08.97	<b>0700543</b>
940 .....		<b>070170</b>
960 2.0i 16V Turbo .....	09.91-08.97	<b>0700543</b>
2.3i Turbo .....	09.91-08.97	<b>0700543</b>
S40 1.6i, 1.8i, 2.0i .....	00.95-	<b>070116</b>
.....	00.95-	<b>070117</b>
S70 2.0i, 2.3i, 2.5i .....	00.97-	<b>070115</b>
S90 3.0i .....	01.97-	<b>0700593</b>
V40 1.6i, 1.8i, 2.0i .....	00.96-	<b>070116</b>
.....	00.96-	<b>070117</b>
V70 2.0i, 2.3i, 2.5i .....	00.97-	<b>070115</b>
V90 3.0i .....	01.97-	<b>0700593</b>

3 In-Tank pump.



## Fuel Injection Pumps 12 V.

VW					
Beetle 1.6 .....	08.74-12.79	0700533	.....	01.84-07.87	0700664
Beetle New 1.6 .....	10.99-09.00	070171	..... [RP,PB,PF,1P,RV] ...	02.87-07.92	0700733
1.8T .....	10.99-	070171	1.8i GTX, -16V .....	08.85-	0700663
2.0 .....	01.98-	070171	..... [PL] .....	08.86-10.91	070120
Pump only (w/ modification) .....		070179	..... [KR] ...	08.86-10.91	070121
Bora 1.4 16V .....	03.00-	070171	.....	08.86-10.91	0700664
1.6 .....	10.98-	070171	Passat 1.6i .....	05.79-07.80	0700603
1.8 .....	10.98-	070171	.....	10.93-12.96	070082
2.0 .....	10.98-	070171	1.6 .....	[AEK] ...	070081
2.3 V5 .....	10.98-10.00	070171	1.8i .....	[JN,DZ] ...	0700603
2.8 V6 .....	03.99-	070171	.....	02.92-12.96	070086
Pump only (w/ modification) .....		070179	..... [AAM] ...	02.92-12.96	070084
Caddy 1.6 .....	[1F] ... 00.95-	070086	..... [PB,PF] ...	04.88-07.90	070178
1.8i .....	08.85-	0700603	1.8i .....	[1F,AAM,RP-Kat,ABS] ...	070135
Corrado 1.8i 16V .....	[KR] ... 09.88-07.92	070121	1.8i 16V .....	[KR] ... 04.88-07.92	070121
1.8i G60 .....	[PG] ... 09.88-09.93	070073	..... [PL] .....	08.86-10.91	070120
2.0i 16V .....	[9A] ... 08.91-	070121	.....	04.88-07.92	0700664
.....	08.91-00.94	0700664	2.0i .....	[HP,JS] ...	0700603
Golf I 1.6i .....	[EG] ... 06.76-07.82	0700603	.....	10.93-12.96	070082
1.8i .....	[DX,JJ] ... 08.82-07.83	0700603	..... [2E] ...	02.90-08.96	070081
.....	08.82-00.92	0700664	..... [2E] ...	03-90-09.94	070178
1.8i Cabriolet .....	[JH,KT] ... 08.82-08.93	0700603	2.0i 16V .....	[9A] ... 08.88-09.93	070121
.....	08.82-08.93	0700664	.....	08.88-09.93	0700664
1.8 .....	[AAM] ... 00.93-	070086	2.2i .....	[KX,HY,KV,JT] ...	0700603
1.8 .....	[ABS] ... 00.94-00.95	070086	2.8i VR6 .....	10.93-12.96	070083
1.8 .....	[ADZ] ... 00.94-	070086	Polo 1.05 .....	[AAU AAK] ...	070071
Golf II 1.3i .....	[NZ] ... 02.87-07.92	070073	1.3 .....	[AAV] ...	070071
1.8i .....	[GX,RD] ... 01.84-07.88	070120	1.3i .....	[NZ 3F] ...	070071
.....	00.84-07.88	0700664	1.3i G40 85KW .....	[PY ] ...	0700664
..... [9A] ...	01.90-12.91	070120	Polo IV 6N 1.0 .....	[AER ... 00.94-00.95	070081
..... [GX] ...	01.84-07.88	070120	(6K) .....	[1F] ... 00.94-00.96	070086
..... [HT] ...	01.85-07.85	070120	1.4 16V .....	[AFH] ...	070081
..... [RD] ...	08.85-10.87	070120	1.6 .....	[AEE] ...	070081
1.8 SPI .....	[RP] ... 00.87-00.91	070072	(6K) 1.4 .....	[AEX] ...	070081
.....	[PF,PB,1H,PG,1P] ... 01.87-10.91	070073	(6K) 1.6 .....	[AFT] ...	070081
.....	[EV,GZ] ... 01.84-07.87	070121	Santana 2.0i .....	[HP,JS] ...	0700603
.....	01.84-07.87	0700664	2.2i .....	[WE] ...	0700603
1.8 GTI .....	[EV] ... 11.84-	0700603	Scirocco 1.5i .....	10.76-09.80	0700603
1.8 GTI, 16V .....	08.83-	0700663	1.6i .....	[EG] ...	0700603
.....	[PL] ... 02.86-10.91	070120	1.8i .....	[DX,JH,JJ,KT] ...	0700603
.....	[KR] ... 02.86-10.91	0701213	.....	08.82-07.92	0700664
.....	02.86-00.91	0700664	1.8i 16V .....	[PL,KR] ...	0700603
G60 .....	[PG] ... 00.90-00.91	070073	.....	10.85-07.92	0700664
Rally .....	[1H, PG] ... 00.89-00.91	070073	Sharan 1.8T 20V .....	09.97-	070171
Golf III 1.4i .....	[AEX] ... 10.91-06.94	070084	2.0 .....	09.95-	070171
.....	00.94-00.95	070086	2.0 .....	[ADY] ...	070081
.....	[ABD] ... 07.94-06.95	070079	2.8 VR6 .....	[AAA] ...	070081
1.6i .....	[AEA,ABU,AEE] ... 09.92-06.94	070084	2.8 VR6 .....	09.95-04.00	070171
.....	[AEA] ... 07.94-06.95	070079	Vento 1.4i .....	01.92-07.94	070086
.....	00.94-	070086	.....	[ABD] ...	070079
.....	07.94-06.97	070081	.....	00.94-00.95	070086
1.8i .....	[AAM] ... 01.92-07.94	070084	.....	11.91-09.98	

**Fuel Injection Pumps 12 V.****VW continued**

Transporter T4 1.8 .....	[PD] ... 12.90-07.92	<b>070178</b>
2.0 .....	[AAC] ... 09.90-04.02	<b>070178</b>
2.5 .....	[AAF] ... 11.90-12.93	<b>070178</b>
Lupo 1.0 .....	04.98-	<b>070171</b>
1.4 16V 100 HP .....	08.99-	<b>070171</b>
1.4 16V 75 HP .....	04.98-	<b>070171</b>
Pump only (w/ modification) .....		<b>070179</b>
LT 28, 31, 35, 40, 2.4i .....	10.88-	<b>070073</b>

**3** In-Tank pump.

**4** Pre feed pump (for 2 pump system).

**Also see Cross Reference List page 117**



## DOGA / OPTIMA Wiper Blades for Passenger Cars

		Front	Driver	Passenger	Rear
<b>Alfa Romeo</b>					
Alfa 6	00.79-	S4545			
33	00.84-00.92		450	450	400
33	00.93-		480	480	
75	00.86-		450	450	
90	00.84-		450	450	
145	00.95-		S550	180	
146	00.95-		S550	480	
147	01.01-		550	400	
155	04.92-	S5348			
156	01.97-		S550	530	
164	00.89-		S530	530	
166	10.98-		530	480	
Alfasud	00.72-00.83		400	400	
Alfasud Sprint	00.83-		400	400	
Alfetta	00.81-	4040			
Guilietta	00.81-	4040			
GTV	09.74-08.87	4040			
GTV 6	00.94	S5550			
Spider	00.71-04.95	4040			
Spider	05.95	S5550			
SZ Zagato	00.89		500	500	
<b>Alfa Romeo</b>					
10	06.80	4040			330
240-244D	04.78	4040			330
320D	04.78	4040			330
<b>Aston Martin</b>					
DB 7	0.95		S530	530	
<b>Audi</b>					
80	00.72-00.78	4040			
80	00.83		530	530	
90	00.85		500	500	
100	00.82-00.88		500	500	450
100	00.89	S5555			
200	00.83		500	500	
A2	02.00	700			
A3	09.96-	S5348			
A4	01.95-11.00		S530	500	
A4 Avant	00.95-00.01		S530	500	400
A6	01.95-	S5555			
A6 Avant	00.96	S5555			400
A8	06.94-01.01		S530	530	
Cabriolet	05.95	S5555			
Coupe	00.89-	S5555			550
Coupe GT	00.80-00.83		450	450	450
Coupe GT, Quattro	00.83-00.89		500	500	480
Quattro	00.80-00.83		450	450	450
RS 2 Avant	05.95		S530	530	400
S2	00.91-		500	500	
S4	00.91-		500	500	
S6	05.95-	S5555			
S8	09.97-	S5555			
TT	11.98-		S530	530	
V8	00.91-		500	500	
<b>Austin</b>					
1000	00.86-		280	280	
Maestro	00.84	S5050			450
Metro	00.80-	4040			400
Mini/Cooper	00.59		280	280	
Montego	00.84-		500	500	
<b>Autobianchi</b>					
A112	00.71-00.85		280	280	
Y10	00.85-00.92	450			330

## DOGA / OPTIMA Wiper Blades for Passenger Cars

		Front	Driver	Passenger	Rear
<b>BMW</b>					
Compac(E36)	00.95-06.01	S5050			450
Compac(E46)	06.01		S530	530	450
M3 (E30)	00.86-04.91		500	500	
M3 (E36)	04.91-00.00		S530	500	
M3 Cabrio (E36)	00.95-	S5550			
M6	00.84-		450	450	
3 (E21)	00.79-00.83	S4545			
3 Touring (E30)	00.83-00.95		500	500	450
3 Touring (E36)	00.91-00.00		S530	500	330
3 Touring (E46)	02.98-		550	550	280
3 Cabrio	04.00-		530	530	
5 (E28)	04.79-02.88	S4545			
5 (E34)	02.88-11.95		S601	600	
6 (E24)	00.79-00.93	S4545			
6 Csi	00.84-		450	450	
7 (E23)	00.79-00.86	S4545			
7 (E32)	00.86-10.94		S601	600	
7 (E38)	10.94-11.01		S601	600	
8 (E31)	00.89-		S601	600	
X5	05.00	6055			450
Z1	00.89		500	500	
Z4	04.03		S530	500	
<b>Cadillac</b>					
Seville	00.98-	S5555			
<b>Chatenet</b>					
Stella			500	500	280
<b>Chevrolet</b>					
Alero	03.99-		550	400	
Blazer	02.98-		500	500	
Blazer Trail	09.01-		550	550	400
Corvette/ Cabrio	09.97-		550	550	
Tahoe	12.99-		550	550	400
Trans sport	02.98-		600	600	400
<b>Chrysler-Jeep</b>					
300M	10.98	6055			
Cherokee/Grand Chreokee	00.91-03.97		500	500	
Cherokee	04.97-04.00		450	450	
Cherokee	04.00-	S4848			
Grand Cherokee	04.97-		S530	530	
Grand Voyager	01.96-		700	700	400
Le Baron	00.93-		450	450	
Neon	11.94-04.99	S5045			
Neon	05.99		550	480	
PT Cruiser	06.00-		500	530	400
Saratoga	00.93		450	450	
Sebring/ Cabrio	04.01-	S5555			
Stratus	00.96-	S5555			
Viper	07.97-		400	400	
Voyager	00.91-12.95		550	450	
Voyager	01.96-		700	700	400
Wrangler	00.91-11.96		280	280	
Wrangler	11.96-		330	330	
<b>Citroën</b>					
Ax	00.86-	550			400
Axel	00.86-		500	500	
Bx	00.83-		500	500	480
Berlingo	09.96-		550	550	400
Berlingo Van	09.96-		550	550	330
C3	05.02-		S600	450	
C5	03.01-		S650	480	
C5 Break	06.01-		S650	480	
C8	09.02-		S650	S650	
C15	00.84-	480			
C25	00.81-		500	500	
C35	00.81-		500	500	

## DOGA / OPTIMA Wiper Blades for Passenger Cars

		Front	Driver	Passenger	Rear
CX .....	00.74-	600			400
Dyane 6 .....	00.80		280	280	
Evasion .....	00.95-		650	500	400
GS/GSA/GSX .....	00.75-		400	400	400
Jumper .....	05.95-		550	550	
Jumpy .....	00.95-		650	500	
LN/LNA .....	00.76-		330	330	330
Pluriel .....	05.03-		S550	450	
Saxo .....	04.96	S5045			400
Visa/Visall .....	00.78-	480			480
Xantia .....	04.93-08.97				
S600 .....	500	480			
Xantia II .....	09.97-		S600	480	480
Xantia II Familiar .....	09.97-		S600	480	400
Xm .....	00.90-	S5555			450
Xsara .....	09.97-	S5555			450
Xsara Picasso .....	12.99-		650	650	
ZX .....	04.91-	550			450
<b>Daewoo</b>					
Aranos .....	00.95-		450	450	
Compact .....	05.97-		500	500	450
Evanda .....	12.02-		550	500	
Kalos .....	11.02		550	400	
Lanos .....	06.97-		480	480	480
Leganza .....	10.97-		550	480	
Matiz .....	09.98-		530	400	330
Nexia .....	00.95-		450	450	450
Nubria .....	09.97-06.03		500	500	
Nubria .....	06.03-		550	480	
Nubria Wagon .....	05.97-		500	500	400
Tacuma .....	10.00		600	480	400
<b>Daihatsu</b>					
1000 .....	00.78-		400	400	
Applause .....	00.93-		400	400	
Berlina 1000 .....			280	280	
Charade .....	00.87-00.93		400	400	
Charade .....	00.93-		480	450	400
Charmant .....	00.78-00.82		330	330	
Charmant .....	00.82-		400	400	
Coupe-Domino .....	00.78-		400	400	
Feroza .....	00.93-		400	400	330
F20 taft .....	00.78-		400	400	
Hijet .....	00.95-		400	330	
Rocky .....	00.93-		400	400	400
Terios .....	04.97-		500	330	280
<b>Fiat</b>					
127 .....	00.78-		330	330	400
128 .....	00.70-		330	330	
131 .....	00.74-		330	330	
132 .....	00.72-		330	330	
2000 sport .....	00.77-		330	330	
Argenta .....	00.81-		400	400	
Barchetta .....	05.95-	S4848			
Brava/Bravo .....	00.95-		550	480	
Cinquecento .....	00.92-05.95		480	480	280
Coupe .....	05.94-		530	480	480
Croma .....	00.86-	S5050			480
Doblo .....	03.01-		550	450	
Doblo cargo .....	03.01-		550	450	
Ducato .....	00.95-		550	550	
Duna .....	01.87-		450	450	
Fiorino .....	00.95-	450			
Marea .....	01.97-		550	400	
Multipia .....	01.99-	6055			
Palio Weekend .....	02.98-		600	450	
Panda .....	00.80		400		330
Punto .....	00.94-11.99		550	400	

**DOGA / OPTIMA Wiper Blades for Passenger Cars**
**Fiat continued**

		Front	Driver	Passenger	Rear
Punto .....	11.99-		550	450	
Regata .....	00.84-		400	400	400
Ritmo .....	00.78-		400	400	400
Seicento .....	04.98-		480	480	
Scudo .....	00.95-		650	500	
Stilo .....	10.01-		S550	480	
Stilo Multiwagon .....	03.03-		S550	480	
Strada .....	00.81-		400	400	400
Tipo .....	00.88-00.92	S4848			400
Ulysse .....	00.95-11.02		650	500	400
Uno .....	00.83	480			330

**Ford**

Capri .....	00.74-00.80		330	330	450
Cortina .....	00.79-00.82		450	450	
Cougar .....	11.98-	S5550			550
Escort MK II .....	00.75-00.80	S4545			
Escort MK III .....	00.79-	S4545			400
Escort MK VI .....	00.90-	S4545			450
Explore .....	00.91-12.94		450	450	
Explore .....	00.95-		450	450	
Fiesta .....	00.76-00.89		330	330	400
Fiesta .....	00.89-00.96	S4545			400
Fiesta .....	00.96-11.01		480	480	500
Fiesta .....	11.01-		S550	400	280
Focus .....	11.98-		S550	480	400
Focus Stationcar .....	11.98-		S550	480	280
Fusion .....	11.02-		S550	400	280
Galaxy .....	00.95-00.01		700	700	400
Ghia .....	00.74-00.80		330	330	450
Granada .....	00.72-	S4545			400
Ka .....	10.96-	S4545			400
Maverick .....	00.93-00.98	S4545			330
Maverick .....	02.01	S4848			
Mondeo .....	03.93-11.00	S5050			450
Mondeo Stationcar .....	03.93-11.00	S5050			330
Mondeo .....	11.00-	S5550			
Mondeo Stationcar .....	11.00-	S5550			280
Orion .....	00.83-	S4545			
Probe .....	00.95-	S5050			500
Puma .....	10.97-	S4848			480
Ranger .....	11.99-		450	450	
Scorpio .....	00.85-	S4545			450
Sierra .....	00.82-	S4545			450
Taurus .....	00.79-		450	450	
Turneo .....	00.95-		550	550	
Transit .....	00.95-00.00		550	550	
Transit .....	03.00-		700	600	

**Gallopier**

Exceed .....	05.98-		400	400	330
Santamo .....	11.98-		550	450	400

**Honda**

Accord .....	00.76-00.90		400	400	450
Accord .....	00.91-10.98	S5550			
Accord .....	11.98-03.03		550	480	
Accord 4 doors .....	03.03-	S650		330	
Accord Coupe .....	00.93-02.98		550	480	
Accord Coupe .....	02.98-	S550		450	
Accord Toure .....	03.03-	S650		330	
Civic .....	00.72-00.86		330	330	
Civic .....	00.86-00.88		400	400	
Civic .....	00.89-00.92		480	480	450
Civic .....	00.93-12.94		500	450	450
Civic .....	00.93-12.94		500	450	450
Civic 3 doors .....	01.95-09.01	S5045			400
Civic 5 doors .....	01.95-09.01	S5045			450
Civic 4 doors .....	09.01-		530	480	
Civic coupe .....	09.01-		530	480	

## DOGA / OPTIMA Wiper Blades for Passenger Cars

		Front	Driver	Passenger	Rear
Concerto .....	00.91- .....		450 .....	450 .....	450
CRV (1) .....	11.97-04.02 .....	S4848 .....			280
CRV (2) .....	04.02- .....		530 .....	500 .....	280
CRX .....	00.92- .....	S5045 .....			450
HRV .....	03.99- .....		500 .....	400	
Jazz .....	04.02- .....		500 .....	330	
Legend .....	00.93- .....	S5045 .....			
Logo .....	03.99- .....		500 .....	400	
NXS .....	00.95- .....	S5050 .....			
Prelude .....	00.79-00.88 .....		400 .....	400 .....	400
Prelude .....	00.89-00.92 .....	S4545 .....			
Prelude .....	00.93-12.96 .....	S5045 .....			480
Prelude .....	01.97- .....	S5045 .....			480
Quintet .....	00.81- .....		400 .....	400	
S2000 .....	10.99- .....		400 .....	500	
Stream .....	06.01- .....		600 .....	330	
<b>Hyundai</b>					
Accent .....	01.95- .....	S5045 .....			480
Atos .....	02.98- .....		500 .....	400 .....	330
Coupe .....	00.96-02.02 .....	S550 .....		450 .....	550
Coupe .....	02.02- .....	S550 .....		450 .....	500
Elantra .....	06.00- .....		500 .....	450 .....	500
Getz .....	11.02- .....		550 .....	330 .....	330
H1 .....	01.97- .....		S650 .....	500 .....	400
Lantra .....	00.92- .....		500 .....	450	
Lantra Sw .....	09.98- .....		500 .....	450 .....	330
Matrix .....	06.01- .....		550 .....	400 .....	330
Pony .....	00.77-00.90 .....		400 .....	400	
Pony .....	00.90- .....		450 .....	450	
S Coupe .....	00.92-00.96 .....		450 .....	450	
Santa Fe .....	02.01- .....		550 .....	500 .....	330
Sonata .....	00.92-10.98 .....		500 .....	450	
Sonata .....	11.98- .....		550 .....	500	
Terracan .....	02.02- .....		550 .....	500 .....	400
Trajet .....	03.00- .....		650 .....	550 .....	400
XG .....	02.99- .....		550 .....	500	
<b>Innocenti</b>					
990 .....	00.86- .....		450 .....	480 .....	330
A40S .....	00.89- .....		330 .....	330 .....	330
Mini/Cooper 1300 .....	00.72- .....		280 .....	280	
Mini DeTomaso .....	00.86- .....		280 .....	280	
Mini DeTomaso Turbo .....	00.89- .....		330 .....	330 .....	330
Minidiesel .....	00.86- .....		280 .....	280 .....	330
<b>Isuzu</b>					
D-Max .....	05.03- .....		550 .....	480	
Trooper .....	10.87-12.91 .....		450 .....	450 .....	400
Trooper .....	04.00- .....		500 .....	500 .....	400
<b>Jaguar</b>					
S-Type .....	06.01- .....	S600 .....		480	
XJ .....	00.75-00.79 .....		330 .....	330	
XJ .....	00.79-00.95 .....		450 .....	450	
XJ .....	00.95-03.03 .....		530 .....	530	
XJ-S Convertible .....	00.86- .....		330 .....	330	
XJ-S Coupe .....	00.75- .....		400 .....	400	
XK Convertible .....	03.96- .....		S530 .....	530	
X-Type .....	06.01- .....		S550 .....	480	
<b>Kia</b>					
Carens .....	08.99-07.02 .....		600 .....	480 .....	330
Carens .....	07.02- .....		600 .....	450 .....	330
Carnival .....	03.99- .....		600 .....	600 .....	450
Clarus .....	10.96- .....		530 .....	480	
Magentis .....	05.01- .....		530 .....	500	
Opirus .....	10.03- .....		S600 .....	450	
Pride .....	10.96- .....		450 .....	450 .....	400
Rio .....	09.00- .....		530 .....	450 .....	400

**DOGA / OPTIMA Wiper Blades for Passenger Cars**
**Kia continued**

		Front	Driver	Passenger	Rear
Sephia .....	00.95-00.97 .....		530 .....	480 .....	
Sephia II .....	00.97- .....		530 .....	480 .....	
Shuma .....	00.98- .....		530 .....	480 .....	450
Sorento .....	07.02- .....		S600 .....	450 .....	330
Sportage .....	00.95- .....		500 .....	500 .....	400
Pregio .....	10.96- .....		530 .....	450 .....	450

**Lada**

1200-1600 .....	00.72- .....		330 .....	330 .....	
Niva .....	00.78- .....		330 .....	330 .....	280

**Lancia**

A112 .....	00.78- .....		330 .....	330 .....	
Dedra .....	00.90- .....		500 .....	480 .....	
Delta .....	00.80-00.84 .....	4040 .....			400
Delta .....	00.85-00.92 .....	S4545 .....			450
Delta .....	00.93- .....	S5348 .....			530
Gamma .....	00.78-00.84 .....	4040 .....			
Gamma .....	00.85- .....		450 .....	450 .....	
K .....	00.95- .....		600 .....	500 .....	
Lybra .....	07.99- .....		S550 .....	530 .....	
Lybra SW .....	07.99- .....		S550 .....	530 .....	
Phedra .....	11.02- .....		S650 .....	S650 .....	
Prisma .....	00.85- .....	S4545 .....			
Thema .....	00.85- .....		500 .....	500 .....	
Thesis .....	01.02- .....		650 .....	530 .....	
Trevi .....	00.80- .....	4040 .....			
Y10 .....	00.85-00.92 .....	450 .....			330
Ypsilon .....	10.02- .....		S600 .....	400 .....	
Ypsilon .....	02.96-10.02 .....		550 .....	400 .....	
Z .....	04.95- .....		650 .....	500 .....	400

**Land Rover**

88,109 .....	00.63-00.82 .....		280 .....	280 .....	280
88,109 .....	06.82-09.83 .....		330 .....	330 .....	280
88,109 .....	10.83- .....		280 .....	280 .....	280
Defender .....	00.90- .....		330 .....	330 .....	330
Discovery .....	00.90-12.97 .....		450 .....	450 .....	330
Freelander .....	01.98- .....		550 .....	530 .....	
Range Rover .....	00.85-00.90 .....	4040 .....			400
Range Rover .....	00.90.00.94 .....		450 .....	450 .....	400
Range Rover .....	00.95-03.02 .....		550 .....	550 .....	480

**Lexus**

GS .....	08.97- .....		S600 .....	500 .....	
IS .....	04.99- .....		S550 .....	480 .....	
IS Sport Cross .....	10.01- .....		S550 .....	480 .....	
RX .....	06.03- .....		S650 .....	S550 .....	
SC .....	08.01- .....		S600 .....	500 .....	

**Ligier**

JS16 .....	00.94- .....	600 .....			
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**Maserati**

228 .....	00.89- .....	S5050 .....			
420-430 .....	00.89- .....	S5050 .....			
Ghibli .....	00.93- .....	S5050 .....			
Plus .....	00.89- .....	S5050 .....			
Quattroporte .....	00.95- .....		S530 .....	530 .....	
Shamal .....	00.93- .....	S5050 .....			
Spider .....	00.93- .....		500 .....	500 .....	

**Mazda**

121 .....	00.76- .....	4040 .....			
2 .....	04.03- .....		600 .....	400 .....	
323 .....	00.77-00.80 .....		330 .....	330 .....	
323 .....	00.81-00.86 .....	4040 .....			
323 .....	00.86-00.92 .....	S4545 .....			450
323 .....	00.93-00.98 .....		S530 .....	450 .....	400
323F .....	00.98- .....		530 .....	480 .....	330



## DOGA / OPTIMA Wiper Blades for Passenger Cars

		Front	Driver	Passenger	Rear
6 5 doors .....	06.02-		S550	450	500
6 4 doors .....	06.02		S550	450	
6 Wagon .....	11.02-		S550	450	
616 .....	00.77-00.80		330	330	
626 .....	00.78-00.86	4040			
626 .....	00.86-00.91	S4545			450
626 .....	04.92-00.97		S530	500	
626 Hatchback .....	05.97-		530	480	500
626 Station Wagon .....	02.98-		530	480	330
808 .....	00.77-00.80		330	330	
818 .....	00.77-00.80		330	330	
929 .....	00.78-00.86	4040			
929 .....	00.86-	S4545			
B-2500 .....	06.99-		450	450	
B-2500 Pick-up .....	06.99-		450	450	
Demio .....	08.98-		500	400	
Mpv .....	06.97-09.99		550	550	400
Mpv .....	09.99-		600	600	400
MX 3 .....	00.93-		S530	450	530
MX .....	00.93-		450	450	
MX 6 .....	00.93-		500	500	
Premacy .....	07.99-		600	400	330
RX 2 .....	00.77-00.80		330	330	
RX 3 .....	00.77-00.80		330	330	
RX 4 .....	00.74-00.82	4040			
RX 5 .....	00.76-	4040			
RX 7 .....	00.78-00.86	4040			400
RX 7 Cabriolet .....	00.93-		S5050		500
RX 7 Coupe .....	00.89-		S5555		550
RX 8 .....	07.03-		S5045		
Tribute .....	03.00-		S4848		280
Xedos .....	00.93-		S530	500	
Xedos 9 .....	07.93-		500	500	
<b>Mercedes Benz</b>					
200, 300 (W123) .....	00.76-00.85	S5050			
200, 300 CE (C123 ) .....	00.77-00.85	S5050			
A Class (W168) .....	07.97-		S650	S600	330
C Class (W203) .....	05.00-		S600	500	
CLK Class (C208) .....	00.97-05.02	600			
E Class (W210) .....	00.95-03.02	650			400
E Class Touring (S210) .....	00.96-03.03	650			400
G Class (M460) .....	00.80-08.93	4040			400
G Class (M463) .....	08.93-	4040			400
M Class (W163) .....	03.98-	S5555			400
MB 100 .....	00.87-		550	550	
S Class (W126) .....	00.80-06.91	S5555			
S Class (W220) .....	10.98-09.01		700	700	
SLK (R170) .....	11.94-	S5555			
Sprinter .....	00.95-	6055			
V Class .....	10.96-		650	550	450
Vaneo .....	11.01-		S650	S600	400
Vito .....	02.96-		650	550	
<b>MG</b>					
TF .....	06.01-	S5050			
ZR .....	06.01-	S4545			450
ZS .....	06.01-		500	450	
ZT .....	06.01-	S5555			
<b>Microcars</b>					
Zeus .....		450			
<b>Mini</b>					
One, Cooper .....	09.01-		450	480	

**DOGA / OPTIMA Wiper Blades for Passenger Cars**
**Mitsubishi**

		Front	Driver	Passenger	Rear
3000 GT .....	00.93- .....		S530 .....	500 .....	
Carisma .....	10.96- .....		S530 .....	500 .....	500
Colt .....	00.71-00.78 .....		330 .....	330 .....	
Colt .....	00.78-00.95 .....	4040 .....			
Colt .....	00.95- .....		500 .....	400 .....	330
Eclipse .....	00.93- .....	S5050 .....			
Galant .....	00.71-00.77 .....		330 .....	330 .....	
Galant .....	00.79-00.86 .....	4040 .....			
Galant .....	00.87-00.90 .....	4040 .....			
Galant .....	00.90-00.92 .....		480 .....	450 .....	
Galant .....	00.92-08.96 .....		S530 .....	450 .....	550
Galant .....	08.96- .....		S550 .....	450 .....	
Galant Wagon .....	00.93- .....		S550 .....	450 .....	400
L-200 .....	09.96-11.01 .....		480 .....	480 .....	
L-200 .....	11.01- .....		480 .....	450 .....	
Lancer .....	00.71-00.78 .....		330 .....	330 .....	
Lancer .....	00.78- .....	4040 .....			
Lancer Evo VII .....	02.01- .....		600 .....	450 .....	
Montero/Pajero .....	00.86-00.90 .....	4040 .....			330
Montero/Pajero .....	00.91-08.97 .....	S4848 .....			400
Montero/Pajero .....	09.97-04.00 .....	S4848 .....			400
Montero/Pajero .....	04.00- .....		500 .....	500 .....	400
Montero IO .....	10.99- .....		450 .....	480 .....	400
Montero sport .....	11.98- .....	S5050 .....			400
Outlander .....	04.03- .....		550 .....	450 .....	
Space Gear .....	05.95- .....		S530 .....	450 .....	330
Space Runner .....	00.95- .....		550 .....	400 .....	400
Space Star .....	06.98- .....		S530 .....	450 .....	330
Starion .....	00.82- .....	4040 .....			400
Strada L-200 .....	00.95-08.96 .....	4040 .....			

**Nissan**

100 NX .....	00.91- .....	S5348 .....			500
120-160 .....	00.78-00.82 .....	4040 .....			
200 SX .....	00.86-00.94 .....		500 .....	480 .....	480
200 SX .....	00.95- .....		S550 .....	530 .....	480
300 ZX .....	00.86-00.94 .....		500 .....	480 .....	480
300 ZX .....	00.95- .....		S550 .....	530 .....	530
Almera .....	10.95-03.00 .....	S5348 .....			330
Almera 3/5 doors .....	03.00- .....		530 .....	400 .....	480
Almera 4 doors .....	07.00- .....		550 .....	400 .....	
Almera Tino .....	08.00- .....		650 .....	450 .....	500
Bluebird .....	00.78-00.86 .....	4040 .....			
Bluebird .....	00.89- .....		480 .....	480 .....	480
Cherry .....	00.85- .....		500 .....	500 .....	
Maxima .....	00.89-00.94 .....		S530 .....	500 .....	
Maxima .....	00.95- .....		S650 .....	400 .....	
Micra .....	01.93-04.98 .....		500 .....	450 .....	450
Micra .....	05.98-02.03 .....	S5045 .....			400
Micra .....	02.03- .....		S530 .....	450 .....	
Pathfinder .....	01.99- .....		550 .....	530 .....	280
Patrol .....	00.79-00.86 .....		400 .....	400 .....	280
Patrol .....	00.86-00.89 .....		450 .....	450 .....	280
Patrol .....	00.89- .....		450 .....	450 .....	330
Patrol GR .....	02.93-05.98 .....		450 .....	450 .....	280
Patrol GR .....	05.98- .....		480 .....	500 .....	330
Pick-up .....	07.98- .....		480 .....	480 .....	
Prairie .....	00.83-00.85 .....	4040 .....			
Prairie .....	00.85- .....	4040 .....			400
Primastar .....	09.02- .....		S600 .....	500 .....	400
Primera .....	00.91-00.95 .....	S5348 .....			530
Primera .....	00.96-04.02 .....		S530 .....	500 .....	530
Primera .....	04.02- .....		S650 .....	480 .....	
Primera Sport Wagon .....	00.98-04.02 .....		S530 .....	500 .....	400
Primera Sport W .....	04.02- .....		S650 .....	480 .....	
Serena .....	10.92- .....		600 .....	600 .....	400
Stanza .....	00.81- .....	4040 .....			
Sunny .....	00.78-00.85 .....	4040 .....			
Sunny .....	00.85-00.89 .....		500 .....	480 .....	330
Sunny .....	00.89-00.90 .....	S5050 .....			450

## DOGA / OPTIMA Wiper Blades for Passenger Cars

		Front	Driver	Passen	
Sunny SW	00.86-		500	480	480
Terrano	00.89-01.93	S4848			
Terrano II	02.93-		S530	500	330
Vanette	00.81-00.84	4040			
Vanette	00.85-		450	450	400
Vanette Cargo	00.95-		600	600	400
Violet	00.78-00.79	4040			
X-Trail	07.01		S600	600	400
<b>Opel</b>					
Agila	04.00-	S5045			330
Ascona	00.75	S4545			480
Astra	00.91-00.97	S4545			450
Astra Caravan	00.92-	S4545			450
Astra Coupe	10.00-		500	480	
Diplomat	00.73-		500	500	
Calibra	00.90-	S4848			480
Combo	03.02-		500	400	330
Commodore	00.72-	S4545			
Corsa	00.82-03.93		450	450	330
Corsa	04.93-12.96		450	450	330
Corsa 3 doors	00.97-09.00		450	450	400
5 doors	00.97-09.00		450	450	330
Corsa	10.00-	S5045			
Corsa combo	00.95-		450	450	
Fontera	00.92-11.98		480	480	280
Fontera	11.98-		480	480	330
GT	09.68-	4040			
Kadett	00.67-00.79	4040			
Kadett	00.79-00.84	4040			400
Kadett	00.85-	S4545			400
Meriva	04.03-		600	600	
Monterey	00.93-	S5050			400
Monza	00.77-	S4545			480
Movano	01.99-		600	600	
Omega	00.77-00.86		450	450	
Omega	00.87-00.94		480	480	330
Omega	00.95-		S600	480	400
Omega Sport Wagon	00.97-		S600	480	330
Rekord	00.72-	S4545			
Senator	00.77-00.89	S4545			
Senator	00.89-		480	480	
Signum	04.03-		S600	480	
Sintra	00.97-		600	600	400
Tigra	00.95-	S4545			500
Vectra	00.88-00.89		450	450	
Vectra	00.89-00.96		480	480	480
Vectra	12.96-04.02	S4848			480
Vectra	04.02-		S600	480	
Vectra Sport Wagon	00.97-	S4848			330
Vivaro Combi	08.01-		S600	530	
Zafira	04.99-		600	600	
<b>Peugeot</b>					
104	00.72-		330	330	330
106	00.91-00.94	S4545			400
106	00.95-	S5045			400
204	00.71-00.81		330	330	
205	00.83-		450	450	400
206	10.98		S600	450	
206 SW	05.02-		S600	450	
304	00.71-00.81		330	330	
305	00.78-	4040			
306	03.93-	S5550			500
307	06.01		S650	650	
307 SW	05.02		650	650	
309	00.86-	S4545			450
405	10.88-11.95	S5555			
406	11.95-	6055			

**DOGA / OPTIMA Wiper Blades for Passenger Cars**
**Peugeot** *continued*

		Front	Driver	Passenger	Rear
406 Coupe	00.97-		S650	500	
406 SW	10.96-	6055			
504	00.68-00.80	4040			
504	00.81-	4040			
505	00.79-	S4545			450
604	00.75-	S4545			
605	08.89-		550	550	
607	02.00-		S650	S530	
806	00.95-		650	500	400
807	10.02		S650	S650	
Boxer	00.95-		550	550	
Expert	00.95-		650	500	400
Partner	09.96-		550	550	400

**PGO**

Speedster II			280	280	
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**Piaggio**

Porter	00.95-	4040			
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**Porsche**

911	00.68-09.97		330	330	400
911	09.97-		S550	530	
914	00.70-		330	330	
924	00.75-	S4848			480
928	00.77-		450	450	
928	00.85-	S4848			
944	00.75-	S4848			480
Boxster	09.96-		S550	530	

**Reliant**

Rialto	00.82-		330	330	
Scimitar	00.66-		330	330	

**Renault**

Alpine 1600	00.75-00.78		330	330	
Alpine A110	00.71-	4040			
Alpine A610	04.91-	S5555			
Avantime	09.01-		650	450	
Clio I	00.90-00.94	S4545			
Clio I	00.95-04.98	S5050			400
Clio II	05.98-06.01		530	450	
Clio II	06.01-		S530	450	
Espace I	00.84-03.89		550	550	400
Espace II	04.89-00.97		600	600	400
Espace III	00.98-11.02		650	450	
Express	00.86-		450	450	
Fuego	00.80-		500	500	480
Kangoo 4 doors	00.98-		500	500	
Kangoo 5 doors	11.97-		500	500	400
Laguna	01.94-00.01		600	450	550
Laguna II	00.01-		S600	500	
Laguna II Grandtour	00.01-		S600	500	
Mascott	01.99-		600	600	
Master	07.98-		600	600	
Megane	10.02-		S600	450	
Megane Coupe	02.95-10.02	S5550			
Megane Grandtour	11.03-		S600	450	
R4	00.70-		280	280	
R5	00.73-00.78		280	280	280
R5	00.79-00.84		330	330	330
R5	00.85-		450	450	400
R6	00.69-00.82		330	330	
R7	00.78-		330	330	
R8	00.63-		330	330	
R9	00.81-	4040			
R10	07.69-		330	330	
R11	00.83-	4040			480
R12	10.69-	4040			330
R14	00.76-	4040			400

## DOGA / OPTIMA Wiper Blades for Passenger Cars

		Front	Driver	Passenger	Rear
R15 .....	00.71-00.80 .....	4040			
R16 .....	00.65-00.79 .....		330	330	
R17 .....	00.71-00.80 .....	4040			
R18/Break .....	00.78- .....	4040			
R19 .....	06.88- .....	S5050			480
R20 .....	00.75-00.83 .....		450	450	
R21 .....	-00.89 .....	S5050			
R21 .....	04.89- .....	S5050			
R21 5 doors .....	05.89- .....	S5050			480
R21 Nevada .....	-04.89 .....	S5050			450
R21 Nevada .....	05.89- .....	S5050			450
R25 .....	05.89- .....	S5555			550
R30 .....	00.75-00.83 .....		450	450	
Safrane .....	00.96- .....		S601	S601	550
Savanna .....	04.89- .....	S5050			450
Spider .....	01.97- .....	550			
Traffic .....	03.01- .....		600	530	
Twingo .....	00.93- .....	650			
<b>Rolls-Royce</b>					
Corniche .....	00.71- .....		330	330	
Silver Spirit .....	00.81- .....	S4545			
Silver Spur .....	00.81- .....	S4545			
Silver Shadow .....	00.65- .....		330	330	
<b>Rover</b>					
2400/2600 .....	00.84- .....	S4545			
25 .....	02.00- .....	S4545			450
3500/ Vanden Plas .....	00.85- .....	S4545			
45 .....	02.00- .....		500	450	
75 .....	02.99- .....	S5555			
MGF .....	04.96- .....	S5050			
Serie100 .....	00.93- .....	4040			400
Serie200 .....	00.85-02.00 .....	S4545			450
Serie400 .....	00.93-00.96 .....	S4545			450
Serie400 .....	01.97-02.00 .....	S5045			450
Serie600 .....	00.95- .....	S5550			
Serie800 .....	00.89-04.92 .....	S4848			
Serie800 .....	04.92- .....	S5050			
<b>Saab</b>					
900 .....	00.78-00.94 .....	4040			
900 .....	00.95- .....		530	530	500
900 T16 Cabrio .....	00.86-00.94 .....	S4545			
9000 .....	00.84- .....		S530	530	530
9-3 .....	03.98- .....		530	530	500
9-5 .....	10.97- .....	S5555			
<b>Seat</b>					
124 .....	00.72- .....		330	330	
127 .....	00.81- .....		330	330	400
128 Sport .....	00.77-00.79 .....		330	330	
131 .....	00.75-00.81 .....		330	330	400
131 .....	00.81-00.84 .....	4040			400
132 .....	00.73-00.83 .....		330	330	
133 .....	00.74- .....		330	330	400
1430 .....	00.68-00.72 .....		330	330	
850 .....	00.68-00.74 .....		280	280	
850 .....	00.74- .....		330	330	
Alhambra .....	00.95-00.01 .....		700	700	400
Arosa .....	06.97- .....	S5348			280
Cordoba .....	01.94-00.99 .....		S530	450	
Cordoba .....	12.02- .....	S5348			
Cordoba .....	00.99-00.02 .....	S5045			
Cordoba vario .....	00.99- .....		S530	450	280
Fura .....	00.81 .....		330	330	400
Ibiza I .....	00.84-00.88 .....	450			450
Ibiza II .....	00.89-00.92 .....	500			450
Ibiza III .....	00.92-04.99 .....	S5050			330
Ibiza IV .....	05.99-03.02 .....	S5348			330

## DOGA / OPTIMA Wiper Blades for Passenger Cars

### Seat *continued*

		Front	Driver	Passenger	Rear
Ibiza V .....	03.02- .....	S5348			330
Inca .....	00.95- .....		530	450	450
Leon .....	10.99- .....	S5348			400
Malaga .....	00.85-00.88 .....	4040			
Malaga .....	00.89- .....	S4545			
Marabella .....	00.83- .....	400			330
Panda .....	00.83- .....	400			330
Ritmo .....	-00.83 .....		330	330	400
Ritmo .....	00.84- .....	4040			400
Ronda .....	00.82-00.83 .....		330	330	400
Ronda .....	00.84- .....	4040			400
Terra .....	00.87- .....	400			
Toledo .....	00.91-11.98 .....	S5050			
Toledo .....	12.98- .....	S5348			

### Skoda

105 .....	00.76- .....	4040			
120 .....	00.76- .....	4040			
120-130 .....	00.86- .....	4040			
136 rapid .....	00.81- .....	4040			
Fabia 4 / 5 doors, Combi .....	12.99- .....	S5348			
Favorit .....	00.90-00.92 .....		450	450	400
Favorit .....	00.93- .....		500	500	400
Felicia .....	04.95- .....		500	500	400
Octavia .....	00.96- .....	S5348			
Octavia Combi .....	07.98- .....	S5348			330

### Smart

Roadster Cabrio/Coupe .....	04.03- .....		500	450	
Smart .....			530	530	330

### Ssangyong

Family .....		S4848			280
Korando .....	00.96- .....		450	450	280
Musso .....	00.95-00.97 .....	S5050			330
Musso .....	00.98- .....		500	450	330
Rexton .....	07.02- .....		500	500	330

### Subaru

1600 .....	00.80- .....	4040			
Forrester .....	00.98- .....	S5348			400
Impreza / SW .....	00.93-12.00 .....		S530	450	400
Impreza/ SW .....	12.00- .....		S550	400	400
Justy 12 .....	00.86-00.88 .....	4040			400
Justy .....	00.89- .....		450	400	400
Legacy .....	00.91-00.94 .....		500	450	400
Legacy .....	02.97- .....		550	500	
Legacy SW .....	12.98- .....		550	500	400
Leone 4WD .....	00.80- .....	4040			
Outback .....	03.99 .....		550	500	400
SVX .....	00.93- .....		550	500	450
Swingback .....	00.79- .....	4040			

### Suzuki

Alto .....	00.81-00.96 .....		330	330	
Alto .....	00.96- .....		480	400	330
Baleno .....	00.95- .....	S5045			400
Baleno SW .....	00.95- .....	S5045			280
Carry .....	05.99- .....	4040			
Grand Vitara .....	11.98- .....		480	480	400
Ingis .....	10.00- .....		480	450	330
Jimny .....	11.98- .....		450	400	280
Liana .....	07.01- .....		550	450	330
Samurai .....	00.81- .....		280	280	330
SC100 .....	00.80- .....		330	330	
Swift .....	00.85-00.88 .....	4040			
Swift .....	00.88- .....		530	450	400
Vitara 3 doors, T Duro/Met .....	00.88-00.90 .....	4040			
Vitara JHT .....	00.90- .....		450	450	330
Vitara V .....	00.90- .....		450	450	400



## DOGA / OPTIMA Wiper Blades for Passenger Cars

		Front	Driver	Passenger	Rear
Wagon R	06.98-05.00		500	450	280
Wagon R	05.00-	S5045			330
<b>Talbot</b>					
1100-1200	00.75-		330	330	
1307-1309	00.75-	4040			400
1510	00.79-	4040			
Horizon	00.78-	4040			
Murena	00.80-		500	500	
Rancho	00.77-		330	330	
Samba	00.81-	4040			330
Solara	00.79-	4040			
Tagora	00.79-00.82	S4545			
Tagora	00.82-	S4848			
<b>Toyota</b>					
4-Runner	00.93-	4040			
Aveis	01.98-04.03		S530	450	
Avensis 4 / 5 doors	04.03-		S600	400	
Avensis Verso	08.01-		S550	400	
Avensis Vagon	04.03-		S600	400	
Camry	10.92-	S5348			
Carina	00.78-00.81	4040			
Carina II	00.81-05.88		S530	450	500
Carina E 5 doors	04.92-		S530	450	500
Celica	00.78-00.87	4040			
Celica	00.90-00.94	S5045			530
Celica	00.94-01.00	S5348			500
Corolla	00.75-00.79		330	330	
Corolla	00.79-00.81	4040			
Corolla	00.81-00.87	4040			
Corolla	00.92-00.97	S5045			400
Corolla 3 doors	00.97-01.02	S5045			400
Corolla 5 doors	00.97-01.02	S5045			500
Corolla 3 / 5 doors	01.02-		S550	450	
Corolla Familiar	00.98-01.02		500	450	330
Corolla Verso	01.02-		S550	400	
Corona	00.75-00.79	4040			
Corona	00.79-	4040			400
Cressida	00.79-	4040			
Crown	00.79-	4040			
Hilux	00.82-00.97	4040			
Hilux	01.97-02.02	S4545			
Hilux	02.02-		400	330	
Land Cruiser	00.78-00.82		330	330	
Land Cruiser	00.82-00.90	4040			330
Land Cruiser	00.90-00.96		450	450	330
Land Cruiser	00.96-02.03	S4848			330
Land Cruiser 100	01.98-	6055			400
MR2	05.00-		S600	480	
Paseo	09.96-	S5045			
Picnic	02.99-		S600	330	400
Prius II	02.04-		600	400	
Rav-4	06.94-00.00	S5045			330
Rav-4	00.00		600	480	
Starlet	00.96-	S5045			400
Supra	00.87-00.92	4040			400
Tercel	00.82-00.86	4040			400
Yaris	04.99-		530	330	
<b>Triumph</b>					
Acclaim	00.81-	4040			
Spitfire	00.65-00.81		280	280	
<b>Vauxhall</b>					
Astra	00.80	4040			480
Charlton	00.78-	S4545			
Chevette	00.75-	4040			
Royale	00.78-	S4545			
Viceroy	00.78-	S4545			

## DOGA / OPTIMA Wiper Blades for Passenger Cars

### Volkswagen

		Front	Driver	Passenger	Rear
411-412	00.68-	4040			
Beetle I	00.69-00.72		330	330	
Beetle II	00.72-00.85		280	280	
Bora	01.99-	S5348			
Caddy	00.95-	S5045			
California	00.95-		S530	530	400
Caravelle	00.95-		S530	530	400
Corrado	00.89-00.92		480	480	450
Corrado	00.93-	S4848			480
Derby	00.77-	4040			
Golf I	00.74-00.83	4040			400
Golf II	00.84-10.91	S4545			400
Golf III	11.91-08.97	S5348			330
Golf Variant	07.93-04.99	S5348			400
Golf IV	08.97-00.02	S5348			330
Golf IV Variant	00.02-	S5348			380
Jetta	00.79-00.88	4040			
Jetta	00.89-	S4545			
Lupo	11.98-00.02	S5348			280
LT	00.82-04.96		480	480	
LT	04.96-	6055			
New Beetle	05.99-		S530	530	
Passat I	00.73-00.80	4040			400
Passat II	00.80-00.88	S4545			400
Passat III	00.88-00.92		S530	530	
Passat IV	00.93-00.96		S530	S530	
Passat V	00.97-01.01		S530	530	
Passat Variant	00.97-01.01		S530	530	400
Polo I	10.81-00.94	4040			280
Polo II	00.95-10.01	S4848			280
Santana	00.81-	S4545			
Scirocco	00.74-00.81	4040			400
Scirocco	00.81-	S4848			400
Sharan	00.95-00.01		700	700	400
Taro	00.95-	4040			
Transporter	00.95-		S530	530	400
Vento	04.92-	S5348			

### Volvo

66	00.76-00.81	4040			
240, 245	00.83-	4040			330
242, 244, 262, 264, 265	00.74-	4040			
340, 343, 345, 360	00.82-		450	450	
440, 460	00.89-		S530	530	
480ES	00.86-		500	500	
740, 760	00.83-00.88		450	450	330
740, 760	00.89-	S5050			330
850	10.93-00.96		S530	500	
850 SW	10.93-00.96		S530	500	400
940	00.91-	S5050			
S, V40	00.96-		S530	500	
S60	03.00-		S600	530	
C70	09.97-		S530	530	
S, V70	00.96-		S530	530	400
V70	03.00-		S600	530	400
S80	10.98-04.03		S600	530	
S, V90	00.96-		530	530	330
XC70	09.00-		S600	530	
XC90	10.02-	6055			

Also see Cross Reference List page 117

## DOGA

## Wiper Blades for Trucks

### AEBI

TP 27, TP 45, TP 65 ..... 160323

### Alfa Romeo

Autocarro 1000 ..... 160322

### Auwärter

Economy 0614 ..... 160369

### Avia

1000, 1250, 2000 ..... 160323

1600, 3600, 5600 ..... 160322

### Bedford

Astra Van ..... 160322

Midi Van ..... 160322

Serie TK ..... 160323

TK, K, 3-12t ..... 160321

TM ..... 160324

TM (D-Kab) ..... 160371

### Berna

Motor Front. .... 160321

Cab. Front. .... 160326

### Bova

Motor Front. .... 160329

Cab. Front. .... 160330

### Chrysler

Voyager, Gran Voyager ..... 160411

### Citroën

480 DI, 700 DI, 800 DI ..... 160321

C 15 ..... 160322

C 22, C 25, C 35 ..... 160323

Jumper ..... 160323

### DAF

CF 65, 75, 85 ..... 160369

5.120, 130, 150, 160 ..... 160324

700 DE, 900 DD, DE, 1100 DD ..... 160323

700 DE, 900 DE, 1100 DD ..... 160326

900, 1500 Turbo, FA 1500 DT ..... 160326

1300 Turbo ..... 160326

1700, 1900, 2105 ..... 160323

2005, 2200, 2205 ..... 160321

2100, 2300, 2500 Turbo ..... 160323

2300, 2305, 2505, 2525, 2800, 2805 ..... 160323

2300 Turbu, 2700 ATi, 2900, 3300 ..... 160323

2800, 3600 Turbo, Serie 400 ..... 160323

FA 100 CN ..... 160324

45.120, 130, 150, 160 ..... 160324

### Daihatsu

F 20 Taft ..... 160321

### Dodge

Comander, Serie 100 ..... 160371

Express ..... 160325

G 75, 76 ..... 160371

Maxiload VC 4, VC 8, CE 16 ..... 160321

Mods. cabina abatible ..... 160322

Serie 100 ..... 160325

100 S ..... 160326

Space Van ..... 160321

WCAS 541, WCFS 562, 415 ..... 160321

### Drögmöller

E 290, 300, 310, 320, 330, 430, ..... 160330

Supercomet, Aufbau, Scania K 110 ...

E 420, 440 Sup. .... 160328

### EBRO

Autocares 100/8 D, 65/7 D ..... 160328

D 154 ..... 160322

E 35 F, E 60 F ..... 160322

E 154 ..... 160322

F 260, F 275, F 350 ..... 160323

JX 20 Trade 2.0, 2.8 ..... 160323

L 35, L 45, L 60, L 80 ..... 160322

M 100, M 125, M 140 ..... 160323

P 137, P 170, P 200, P 260, P 320 ..... 160323

Serie C, D, E ..... 160321

### ERF

Couchette, EC Olympic ..... 160325

### Fendt

F 275 GT ..... 160323

### Fiat (see Iveco Group)

### Ford

Cargo 0709, 0711, 0813, 0915, 1013, 1015, ..... 160371

1113, 1115, 1313, 1315, 1318, 1318 R .

Cargo 1824, 1924, 1928, 2614, ..... 160371

3424, 4028 ..... 160371

Courier ..... 160323

FT 9, FT 190 ..... 160323

Serie A ..... 160324

..... 160323

H ..... 160322

H Transcont ..... 160371

Tourneo ..... 160323

Transit FT 9, 80, 100, 130, 190 ..... 160323

Transit ..... 160323

### Freight-Rover

Serie 300 ..... 160323

### GME

Midi ..... 160322

Rascal ..... 160321

### Hanomag-Henschel

F 20, 25, 30, 35 ..... -00.74 160321

F 40, F 85 ..... 00.71-00.74 160322

F 161-F 203, F 141-F 500, ..... 160323

F 161 K-F 221 K ..... 00.72- 160323

Transporter TN ..... 00.76- 160323

### Hyundai

H 100 ..... 00.95- 160322

### Ikarus

386, 396, 61, 415, 435, Scania K 112 ..... 160330

397.07, Midibus 405 ..... 00.94- 160329

IK 190, 271, 521, 557, 577, 543.30 ..... 00.73- 160328

### International

CO Transtar 11 ..... 00.74- 160322

### IPV (Mafsa)

85 TT, 110 TT ..... 160321

UT 115, 4 T 115, 177 T, 180 R ..... 160322

## DOGA

## Wiper Blades for Trucks

**Iveco Group****Fiat Magirus, OM**

13, 16-65/10, 75/16, 79/14, 80/13, M 100	00.83-	160326
40 NC, 40 NC 35	00.77-	160321
50, 55, 65, 70, 75, 80, 80 NT, 90 NC	00.72-00.77	160322
50, 55, 65, 70, 75, 80, 90, 100, 170 C/N/L	00.77-	160322
50 F8, 100 F13, 159 F17, 20, 160F	00.78-	160322
60, 79 F 10.13, 65, 75, 90 PC	00.76-	160322
60/8, 65/60.10, 65/10, 79/10, 79/12	00.83-	160322
65 NC 10	00.80-	160322
79.75/14, 90/13, 95/14, 109/14, 109/14.1	00.83-	160322
79.14, 79/60, 79/60.14, 79/75, 79/75.10	00.83-	160322
80, 90 F 13	00.72-	160322
80.14 HW, 8016 HW, 110.14	00.83-	160321
90 M, 130 M, 160 M, 320 M	-00.78	160323
90 M, M 6 FK, 160 M 13 FS	00.79-	160326
115/14, 115/14.1, 115/17, 115/17.1	00.83-	160322
120 D, 135 D, 160 D, 170 D	-00.74	160323
130, Serie 160 (O.M.)	00.83-	160322
135/14, 135/14.2, 135/14 BOM, 135/17,		
135/17.2, 135/17.R.R 1,		
135/17.R 1 RIDEM	00.83-	160322
135/17, 145/17 T, Engine front	00.88-	160326
145/17	00.86-	160322
156 D, 180 D, 186 D, 210 D	-00.70	160323
160.R 81 Turbo		160330
165/24, 165/24.R.R 1	00.83-	160322
170 F	00.76-00.77	160322
170 F, NT, 330 F 35	00.77-	160326
170 L, R, TL, TR	00.75-00.79	160328
170 NC	00.76-	160322
170 NT, 170 OM 35	00.75-	160322
170 OM 35	00.79-	160326
175/04, 175/17	00.86-	160322
175/17, 24 T, Engine front	00.88-	160326
180, 190, 260, 4 A, C, N, L, T	00.77-	160322
180, 300, 308 L, 418 AC, 418 AL	00.72-00.77	160322
180.24-240.38		160327
190, 260	00.72-00.77	160322
190, 220, 240.30, 240.38, 260, 330.35	00.83-	160327
190 F, PAC	00.77-	160326
190 OM 35 T	00.79-	160326
190/20 N, 24, 25 AN, 26 N, 26 Turbo,		
30, 32 AH, 33, 33 T, 38, 42, 42 T	00.83-	160326
190/24, 26 T, 30, 32 T, 36, 42,		
Cab. front, Turbo star	00.88-	160326
190.35, 190 F 35 T, 220.35 T, 240.35		160327
220/36 T, cab. front, 38, 38 T	00.88-	160326
232/AHT	00.83-	160326
240/36 Turbo star	00.88-	160326
260 SH, 170	00.81-	160328
260/25 AH, AN, 26 H, 32 AH	00.83-	160326
260/30, 330/30 T, Cab. front	00.88-	160326
280 Avant	00.81-	160323
300 P		160327
305 GT, 308 L, 480 AL, AC	00.77-	160326
310 D, 470, 480 AC/AL, M 120 R	00.78-	160326
315.8.17, 370, Domino, 471, 571, 671	00.82-	160330
320 M	00.79-	160326
330/30 T Cab. front	00.88-	160326
330/36 AHT	00.83-	160326
370.12.76	00.76-	160328
370	00.81-00.82	160329
470, 570, 670, 12.25, N 120 R 81 Turbo	00.81-	160329
619, 684, 697	00.77-	160326
Daily	00.80-	160325
Diono, Cerbiatto, Orsotto		160321
Ducato	00.82-00.94	160323
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Eikher Schlepper	00.75-	160321

Euro Cargo (6-10 T), Eurostar,		
Eurotech, Eurotrakker	00.91-	160370
Lupetto, Titano N 150, NS 150		160321
M 80 D, M 100 D, M 110 D, M 120 D	-00.75	160321
M 130 D, M 160 D, M 170 D, M 232 D,		
M 256 D	00.77-	160326
M 130 D, M 160 D, M 170 D, M 310 D	00.75-	160325
M 170 SH, M 200 SH 110 U	00.73-00.78	160328
M 200 L, R, T, M 230 L, R, T	00.75-00.78	160328
M 232 D	00.71-00.74	160325
M 260 L	00.77-	160328
M 270 D	00.75-00.78	160325
	00.77-00.78	160326
M 2000 12 M Turbo	00.81-	160330
M 2000 HD	00.82-	160330
MS 200, 300 Midliner	00.79-	160323
NKW 80/13, 80/16	00.82-	160327
Talento	00.89-	160323
Turbo, Turbo Star, Turbo Tech	00.91-	160371

**Kässbohrer**

Flexmobil	00.85-	160323
PB 36.170 DR-39.170 DR	00.81-	160327
PB 42.240 D	00.88-	160329
Pistenbully	00.80-	160327
S 9-S 14, S 80-S 150	00.87-	160323
S 80, 110, 120, 130, 150	-00.77	160323
S 130 S, 140 ES	00.77-	160326
S 208 A	00.80-	160329
S 210 H, Real, S 215 HM Optimal,		
S 210 H, HD, S 215 Int., S 213 HR-S		
215 RL Rational, S 215 UL-SG 221 UL		
Regional, SG 215, S 216 HDS Royal,		
S 216 HDS International, Conceptbus		160330
S 211-S 215 H/HD	00.77-	160330
S 211, S 213 HR, S 215 H, S215 HD,		
S 215 HM		160330
S 213 HE	00.87-	160329
S 215 RL, S 216 HDH, S 215 UL,		
S 216 HDS		160330
SG 215 SL, SG 219 SL, S 300 NC		160330
S 228 DT Internal/Imperial		160329
S 228 DT, S 300 N	00.92-	160329
U 80 (ONV)	00.80-	160329
Standard Bus	00.78-	160330

**Kia**

Besta	00.79-	160322
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**Leyland**

19/28 Roadtrain, 26-26 Scammel	00.84-	160371
7/10 CWT Van	00.72-	160321
Atlanteam Bus, National, Triton	00.77-	160371
Bison, Buffalo, Linx	00.65-00.77	160324
Bison 2, Optopus 2	00.78-	160371
Cruiser, Freight, Landtrain, Olympia,		
Roadtrain, Construct.	00.80-	160371
Marathon, Marathon 2	00.74-	160371
RR. T 350, T 45, T 45T	00.84-	160371
Royal Tiger B 54	00.83-	160330
Serie 300	00.86-	160323

**Mack**

MS 200, 300 Midliner	00.79-	160323
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**Magirus** (see Iveco)**Man-Büssing**

1 M/V 160, 230 R 14	00.72-00.75	160323
4.70 F, 5.70 F, 6.90 F, 7.90 F, 7.136, 9.136 F		160321

**DOGA**

## Wiper Blades for Trucks

5.126 F, 6.126 F, 7.126 F, 8.126 F,	
8.160 F, 9.160 F, 9.186 F, 10.126 F ...	00.67-
6.90, 8.90, 8.136 FZ, 9.136/10.136 F .....	00.80-
6.100, 8.100, 8.150, 9.150, 10.150 .....	00.88-
7.126 F-32.280 H, DH .....	-00.79
12.152 FL-17.232 FL, (M90)	
19.242-48.462 (F90) .....	00.86-
12.170 F, 14.192 F, 19.361 F, FLT,	
41.321/VFAK .....	00.85-
12.192 F, 38.320 F, DT, FT, FNL,	
FVLS, U, UK, UNL .....	-00.74
12.192 F .....	00.74-
17.240, 19.240, 29.281, 19.321,	
26.240, 26.281, 32.281, 32.321,	
Cab. Semi Front .....	00.88-
32.291, DFAK, 32.331 DFA .....	00.86-
D 80, G 80, S 80 .....	-00.84
D 80, G 80, S 80, Ü 80, NL 202 (ÜNV II) ..	00.84-
Economy Bus .....	
F 2000 .....	00.95-
(M90) .....	00.88-
NG 272, NM 152 .....	00.89-
RÜ 240, SÜ 242, SR 292 R, SR 362 FRH	00.85-
Serie G 90 .....	00.91-
SD 200, SL 200, SÜ 240 .....	-00.84
SG 192, SL 160, SL 192 .....	-00.76
SG 220, SG 240 .....	00.81-
SG 242/SG 292 (ÖNV II) .....	00.85-
SL 202, SÜ 240, SÜ 242 .....	00.85-00.87
SR 240, SRR 280, SR 280 H .....	00.77-
SR 292 R, SR 362 FRH .....	00.85-
SR 321 FHR .....	00.81-
ÜL 272 .....	00.87-

## Mazda

E 200 .....	00.84-
Series B, E .....	00.95-
T 2500, T 3000 .....	00.81-

## Mercedes

206, 207, 306, 307 .....	00.71-00.77
206, 207, 306, 307 .....	00.73-00.77
207 D, 208, 307 D, 308 .....	00.77-00.82
209 D, 309 D, 407 D, 408, 409 D, 410 .....	00.83-
210, 310 .....	00.82-
307 D, 407 D, 409 D, 608 D, 0309 .....	00.85-
509 D, 609 D, 709 D, 809 D .....	00.86-
613 D .....	-00.85
709, 711 D, 809, 811 D .....	
813, 913 .....	-00.84
814, 817, 914, 1114, 1117, 1314 .....	00.84-
1013, 1017, 1213, 1217, 1219 .....	00.75-
1013 L, 1113, 1213 .....	00.76-00.84
1222 .....	00.83-
1320 L-S .....	00.85-
1413, 1613 .....	-00.84
1414, 1417, 1617 .....	00.84-
1419, 1619, 2219 .....	-00.83
1422, 1425 S, 1622, 1625, 1922 K, 2225 ..	00.83-
1618 .....	00.95-
1619 L .....	-00.77
1626, 1632, 1719 .....	00.73-
1633, S, 1933 S, 1938, S, 2233, S,	
1928, 1933 S, 2628 .....	00.80-
1935, 1944, 2035 .....	00.86-
1936, 2233, 2636, 3336 .....	00.81-
1938 S-3850 AS .....	00.85-
2032, 2224, 2232 .....	00.73-
2219 L .....	-00.76
2238, S, 2633, 2638 .....	00.80-
2635, 2644 .....	00.86-

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Atego .....	00.98-
L-Q 310 .....	00.80-
MB 90, 100, 130, 140, 150, 170, 180 ...	-00.86
MB 100, 120, 140, 160, 180, D .....	00.87-
MB Trac 65/70 .....	-00.75
MB Trac 700, 800, 900 .....	00.81-
O 301-LN 2 .....	00.85-00.86
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O 303 .....	00.74-00.79
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.....	-00.93
O 309 D, L 406 D, L 407 D .....	00.74-
O 310 .....	00.80-
O 402, O 405, O 407 (ÖNV II) .....	00.85-
O 407 Ü .....	00.87-
O 408 .....	00.89-
O 614 D .....	00.89-
City Liner 809, 1524 .....	00.95-
Powerliner 1820-1834, 2031-3350, Fredliner, Roadliner, Proliner .....	00.95-
Series 300 D, 400 D .....	00.91-
Series LK, LN (709-1320) .....	00.84-00.86
Series LK (507D-709D-817D-1520D) .....	00.86-
Serie SK 1013-3336 (Typ 641/649) .....	00.89-
U 45, 52, 54, 55, 60, 66, 72, 80 .....	00.66-00.76
U 80 - 1700 L .....	
U 84, 100, 110, 508 D .....	00.69-00.76
U 90, 125 .....	00.69-00.77
U 600, U 800 .....	00.77-
U 900, 1000, 1100 .....	-00.87
U 1000, U 1100, U 1250, U 1300, U 1500, U 1700 .....	00.76-

## Mitsubishi

Canter 35, 46, 50 .....	00.80-
Fuso .....	00.76-
L 200, L 300 .....	00.80-

## Neoplan

N 407SKI, N 409, Standardlinie SL II, Überland SU, Linien Schubgel SG, SUG, N 424/N 426 .....	00.81-
Cityliner .....	-00.82
N 116 .....	00.82-
N 116, Spaceliner N 117/Reisebus, Clubliner N 122/2, Skyliner N 122, Jumbocruiser N 138 .....	00.86-
Combiliner .....	
N 316 .....	
D.SD/2-SD/3, Standard Kleinbus, N 407 SKI, N 409, Linien S.SG, SÜG ..	00.81-
Jetliner .....	00.81-
N 208-N 216, N 416 M/MMK, Clubliner N 122/2 .....	00.81-
Jumbocruiser N 138 .....	
Kombi Metroliner N 316 .....	00.85-
N 4007-N 4021 .....	00.87-
Omnibus .....	00.76-00.81
Skyliner 122/3, Spaceliner, N 117/2, 3 ....	00.88-
Standardlinie SL II, Überland SÜ, Linien, Standardbus N 409 .....	00.87-
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Unibus N 906, N 907, Cityliner N 116H, SD/2-SD/3 N 12/4, N 4010 NF, N 4014 NF DE, N 4020 NF .....	

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## Wiper Blades for Trucks

**Nissan**

ECO-T (100,135) .....	00.96-	<b>160323</b>
Mods. L .....		<b>160322</b>
Mods. M, Trade 2.0, 2.8 .....		<b>160323</b>
Vanette .....	00.81-00.84	<b>160321</b>
.....	00.85-	<b>160322</b>

**OM** (see Iveco)**Opel**

Combo .....	00.95-	<b>160322</b>
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**Pegaso**

217, 415, 515 .....	00.85-	<b>160321</b>
1061, 1063, 1064, 1066, 2011,		
2040, 2041, 3060, 3075 .....		<b>160321</b>
1080, 1083, 1086, 1135, 1145,		
1180, 1183, 1184, 1186, 1187,		
1190, 2080, 2082, 2089, 2135,		
2180, 2181, 2182, 2189, 2190,		
3088, 3180, 3181, 3188, 3189 .....	-00.85	<b>160323</b>
1214, 1216, 1217, 1223, 1231,		
1234, 1234 R, 1331, 1431, 1434,		
2217, 2323, 2331, 2431 .....	00.85-	<b>160323</b>
Autobuses 5023, 5031, 5062, 5080 .....		<b>160322</b>
Autobuses 6420 .....	00.85-	<b>160328</b>
Autocares S 215, 5036 S/1, 6046/1, .....		
6100 S .....	00.85-	<b>160330</b>
Autocares 5031, 5123 .....	00.85-	<b>160328</b>
Duty .....	00.91-	<b>160325</b>
Ekus .....	00.86-	<b>160323</b>
Furgón Capitone 75.35, 1215.9,		
Combi 75.28, Furgón 75.32, 1210.6,		
100.35, cab. doble 100.50 .....		<b>160323</b>
Mider .....	00.91-	<b>160323</b>

**Peugeot**

Boxer .....	00.95-	<b>160323</b>
J 5 .....	00.82-	<b>160323</b>
J 7, J 9 .....	00.74-	<b>160321</b>

**Renault**

Express .....	00.86-	<b>160322</b>
Master .....	00.82-	<b>160326</b>
.....	00.95-	<b>160325</b>
Trafic .....	00.95-	<b>160323</b>

**R.V.I.** (Renault, Berliet, Saviem)

10 K, 880 K, 30 KV .....	00.69-00.73	<b>160322</b>
90 B, 130 B, 140 B, 150 B-T 3,		
JK-JN 55, 60, 65, 75, 80, 85,		
90, 95, J, S, C (Serie) .....	00.75-	<b>160323</b>
180 K, 350 K, 350 KE .....		<b>160322</b>
350, 950 KB, KBT .....	00.73-00.75	<b>160322</b>
951 KB, KBT, GC, GF, GR, 190 .....	00.75-	<b>160322</b>
9000 .....		<b>160321</b>
15168 HA, 19168 H 17 .....	00.75-	<b>160321</b>
26240 DHPM, 32256 DHA .....	00.74-	<b>160321</b>
Autocares D 300 .....	00.85-	<b>160330</b>
Cruiser 2, 3, SGMV 6 .....		<b>160371</b>
B 70 .....	00.82-	<b>160326</b>
Bus D 300 .....	00.85-	<b>160330</b>
D 45 GT, 53 M, 105 M .....	00.65-00.70	<b>160321</b>
D 170.14, D 170.17, D 210.20, D 230.20, .		
D 230.26, D 270.34, D 270 T, D 320.34,		
D 320.37, D 320.38, D 320 T .....		<b>160322</b>
DR 340.20, DR 340.26, DR 340.35,		
DR 340.38, DR 340 T .....		<b>160323</b>
DG 290-T .....		<b>160326</b>
E 7 C, L, M, N .....	00.77-	<b>160326</b>
FB/FC 30 Furgón .....	00.79-	<b>160326</b>

FR 1 (GT), R 312 .....	00.83-	<b>160330</b>
G 45, G 105 .....		<b>160326</b>
GAK, GB 0 .....	00.61-	<b>160321</b>
GB (Serie), Berliet-Saviem .....	00.71-00.78	<b>160321</b>
GBC, 8, 8 M 3 .....	00.65-00.71	<b>160321</b>
GBE, GBH, GBK, GCK, GFK 10 .....	00.68-00.74	<b>160321</b>
GL, GLC, GLM, GLR .....	00.62-00.75	<b>160321</b>
GR 205, 260, 280, 305, 320, GRH 230 .....	00.70-00.75	<b>160322</b>
L 62, L 64 (Serie) .....	-00.78	<b>160321</b>
Manager (Serie G) .....	00.94-	<b>160369</b>
Master .....	00.82-	<b>160326</b>
(Serie G) .....	00.94-	<b>160369</b>
Messenger (Serie B) .....	00.89-	<b>160325</b>
Midliner (Serie S, M) .....	00.94-	<b>160369</b>
MS 250 .....	00.80-	<b>160323</b>
OK 12 V, 05 K, OR 35 .....		<b>160322</b>
PH 3, PH 4, PH Airland .....		<b>160322</b>
PM, PMH .....	00.63-	<b>160321</b>
PR (Serie) .....		<b>160326</b>
PR 10, 12, 14, 110 .....		<b>160371</b>
PR 100, 100 MI, 180 .....	00.83-	<b>160328</b>
PR 100.2 .....	00.88-	<b>160328</b>
PS 30 .....	00.77-	<b>160323</b>
R 310, R 360, R 370 .....	00.80-	<b>160323</b>
R 310, R 310T, R 360, R 360T .....	00.83-	<b>160322</b>
S 5, 6, 7, 8 .....	-00.75	<b>160321</b>
S 90, S 130, S 150, S 170 .....	00.75-	<b>160323</b>
S 100, S 110, S 130, S 150, S 170 .....	-00.88	<b>160325</b>
S 130/11/13/109, S 170/14, Turbo .....	00.82-	<b>160322</b>
S 170.15 (Gama) .....		<b>160323</b>
SB 2, SG 1, SG 2, SG 3, SG 4, SG 5 .....	00.62-	<b>160321</b>
SC 10 .....	00.77-	<b>160328</b>
Serie AE .....	00.91-	<b>160324</b>
Serie B, T 35 D .....	00.89-	<b>160325</b>
Serie D Turbo .....	00.83-	<b>160322</b>
Serie G, GD .....	00.91-	<b>160324</b>
Serie R .....	00.91-	<b>160323</b>
SM 5, 6, 7, 8 .....	00.68-	<b>160321</b>
SM 10, SM 12 .....	-00.75	<b>160323</b>
SM 10, SM 12, SM 13 .....	00.75-	<b>160323</b>
SM 170, 200, 240, 250, 260, 280,		
300, 320, 340 .....	-00.79	<b>160323</b>
S-SP 5, S-SP 6, S 7, S-SP 8 .....	00.75-	<b>160323</b>
Serie AE Magnum .....	00.91-	<b>160328</b>
Stradir LNXLO, XL 50 .....	00.60-00.71	<b>160322</b>
T 1400 D .....	00.91-	<b>160323</b>
TAK .....	00.66-	<b>160321</b>
TBH 12, 260, 280, TB o 15 M .....		<b>160322</b>
THR 305, 320, 350 .....	-00.75	<b>160322</b>
TBK, TCK, TLM, TLR, TR, TRK .....	00.62-	<b>160321</b>
TLM 10, 12, 15, TLR 250, 260, 280, 300 ..		<b>160322</b>
TR 260, 280, 300, 305, 320 .....	00.70-00.75	<b>160322</b>
TP 2, TP 3, TRB, TRM 4000, 9000 .....		<b>160321</b>
Tracer .....		<b>160330</b>
Cruiser 2, 3, SGMV 6 .....		<b>160371</b>

**Saurer**

D 90, F, N, D 330 B, Cab. front .....	00.77-	<b>160326</b>
Engine front .....	00.72-	<b>160321</b>
Standardbus .....		<b>160326</b>

**Sava**

211, 221, S 211, S 213, S 350 A, 400 F,		
S 411, S 450, 504 A, S 511, A 551 ....		<b>160321</b>
LDO 5, Cosmos 5721, 5723 .....	00.76-	<b>160322</b>
S 350 A, S 400 F, S 450, S 504, 212 .....	00.76-	<b>160322</b>



**DOGA**

## Wiper Blades for Trucks

## Scania

112 .....	00.86-
2000, 2200, 3500 .....	00.74-
BR 85, CR 85 Super .....	00.73-
BR 116 .....	00.79-
C 145 .....	00.71-
Cabinas mods. CP, CR CT .....	00.95-
CN 112, 116 .....	00.84-
CR 76, 110 Bus .....	00.75-
G, P, R, T82, T92, T112, T142 .....	-00.88
K 113 CL .....	00.88-
L, LB, LBS, LBT, LB 81, LS 86 .....	00.75-00.80
L, LB, LS, LBS 140, Super .....	-00.77
L, LS 140, LBT 140, LB 81, LT 146, Super	
L, LS 140, LT 146, 146 KT .....	00.77-
LB, LBS, LBT 110 .....	-00.74
LB 80, LB 85, Super .....	-00.75
LS 141 .....	00.77-00.80
LT 111, Super .....	00.75-00.80
Series 93, 113, 143 .....	00.88-

**Seat**

Inca (driver side) .....	00.95-	<b>160323</b>
(passenger side) .....	00.95-	<b>160322</b>
Trans, Terra .....		<b>160321</b>

## Setra-Kässbohrer

Pistenbully .....	00.80-	<b>160321</b>
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## Steyr-Daimler-Puch

9 S 14-16 S 21 .....	00.86-	<b>160323</b>
19 S 24-40 S 37 .....	00.87-	<b>160323</b>
145, 791 .....	00.78-	<b>160323</b>
561, 691 .....	00.84-00.86	<b>160323</b>
590, 591, 690, 691, Pinzgauer, Veb (4x4) .		<b>160322</b>
790, 890, 990, 1290, 1390, 1490, 1890 .....	00.74-	<b>160323</b>
791, 891, 991, 1291, 1491, 1891, 2891 .....	00.80-	<b>160323</b>
City Bus CS 6 F 55 .....	00.75-	<b>160328</b>

## Tatra

613 .....	00.76-	160321
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## Titan

TF 3000 (10x8) .....	160325
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## Toyota

Dyna, Hi-Ace, Hilux, Lite-Ace .....	00.79-	<b>160321</b>
Dyna .....	00.95-	<b>160321</b>
Hi-Ace .....	00.95-	<b>160323</b>

**URO**

TT U 12, TT U 14 .....	160322
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## Van Hool

Alizée T 815 H, Astromega TD 824 .....	00.86-	<b>160330</b>
Standardbus .....		<b>160326</b>

**Volvo**

BM, LM, 845/1240 .....	00.70-00.72	<b>160321</b>
B 10 M, B 12 .....		<b>160329</b>
M/C 10 M .....	00.86-	<b>160330</b>
CH 230 .....		<b>160325</b>
F, FB 86 .....	00.73-	<b>160322</b>
F, FB 88, F 89, G 88, G 89 .....		<b>160322</b>
F 6, F 7, F 10, F 12, F 16 .....	00.77-	<b>160325</b>
F 85, 86, 88, 89 .....	00.72-	<b>160322</b>
F 406, 407, 408, 409, 609, 610, 611, 613, 614, 616 .....	00.75-00.85	<b>160325</b>
FH 12, FH 16 .....	00.95-	<b>160370</b>
FL 4, 408, 611, 614, 616 .....	00.85-	<b>160326</b>
FL 6, FS 7 .....	00.95-	<b>160369</b>

FL 7, FL 10, FL 12 .....	00.95-	<b>160411</b>
N 7 (4X2), Turbo 6 .....	00.80-	<b>160321</b>
N 7, N 10, N 12 .....	00.74-	<b>160321</b>

**VW**

6.90 F - 10150 FK .....	00.79-	<b>160323</b>
Bully .....	-00.83	<b>160323</b>
Caddy (driver side) .....	00.95-	<b>160323</b>
(passenger side) .....	00.95-	<b>160322</b>
Danbury .....	00.80-	<b>160322</b>
LT 28, LT 55 .....	00.75-00.82	<b>160323</b>
LT .....	00.91-	<b>160322</b>
Transp., Bus .....	00.67-00.79	<b>160321</b>
.....	00.79-	<b>160322</b>

**Also see Cross Reference List page 117**

Patient Information	
1. Name	
2. Age	
3. Sex	
4. Address	
5. Phone	
6. Email	
7. Insurance	
8. Referral	
9. History	
10. Physical	
11. Labs	
12. Imaging	
13. Treatment	
14. Follow-up	
15. Notes	



## **CROSS REFERENCE LIST**

### **PART 7** **4<sup>th</sup> Edition**



ISO/TS 16949:2002 certified supplier



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<b>AC DELCO</b>		<b>Cargo</b>		<b>Cargo</b>		<b>Cargo</b>		<b>Cargo</b>	
FE20015-12B1	070174	0580254017	070122	0580254991	070122	0580463011	070053		
		0580254019	070122	0580254992	070122	0580463012	070053		
<b>ACE</b>		0580254020	070122	0580254996	070065	0580463013	070053		
S-5350	150407	0580254023	070122	0580303005	070194	0580463014	070053		
<b>ALFA ROMEO</b>		0580254024	070122	0580303025	070198	0580463015	070053		
547812	070127	0580254025	070122	0580303026	070194	0580463016	070053		
605183220	070054	0580254026	070122	0580310006	070195	0580463017	070053		
605219920	070054	0580254031	070122	0580310007	070195	0580464008	070053		
605376110	070127	0580254032	070122	0580313034	070170	0580464010	070053		
605460910	070053	0580254033	070121	0580314068	070195	0580464011	070053		
113540402100	070054	0580254034	070122	0580453012	070178	0580464013	070053		
116110402100	070053	0580254035	070122	0580453013	070178	0580464014	070053		
116460102100	070054	0580254036	070122	0580453016	070135	0580464015	070053		
116460402100	070054	0580254037	070122	0580453017	070135	0580464016	070053		
119110402100	070053	0580254038	070122	0580453019	070140	0580464017	070054		
		0580254039	070122	0580453021	070140	0580464019	070053		
		0580254040	070122	0580453041	070195	0580464020	070054		
		0580254041	070122	0580453045	070125	0580464021	070054		
		0580254042	070122	0580453046	070195	0580464022	070054		
		0580254043	070122	0580453053	070142	0580464023	070053		
		0580254909	070060	0580453054	070195	0580464024	070054		
		0580254910	070061	0580453058	070195	0580464025	070054		
		0580254911	070062	0580453060	070195	0580464027	070054		
		0580254921	070061	0580453070	070195	0580464028	070054		
		0580254922	070061	0580453076	070053	0580464029	070059		
		0580254927	070061	0580453081	070195	0580464030	070062		
		0580254928	070061	0580453328	070132	0580464032	070053		
		0580254929	070061	0580453329	070130	0580464033	070053		
		0580254930	070061	0580453330	070128	0580464034	070062		
		0580254931	070060	0580453332	070128	0580464037	070054		
		0580254932	070060	0580453402	070097	0580464038	070053		
		0580254934	070075	0580453408	070133	0580464039	070059		
		0580254935	070063	0580453412	070131	0580464040	070062		
		0580254937	070060	0580453420	070170	0580464041	070062		
		0580254941	070061	0580453423	070129	0580464042	070054		
		0580254942	070061	0580453424	070129	0580464044	070054		
		0580254943	070061	0580453427	070133	0580464045	070054		
		0580254945	070061	0580453460	070133	0580464048	070053		
		0580254946	070062	0580453465	070133	0580464050	070053		
		0580254948	070063	0580453485	070129	0580464055	070059		
		0580254949	070060	0580453486	070129	0580464056	070059		
		0580254951	070062	0580453502	070126	0580464069	070054		
		0580254952	070061	0580453507	070123	0580464070	070053		
		0580254956	070061	0580453508	070126	0580464995	070074		
		0580254957	070060	0580453509	070123	0580810046	070053		
		0580254958	070060	0580453514	070126	0584640020	070053		
		0580254959	070060	0580453516	070123	0986580011	070108		
		0580254960	070060	0580453906	070071	0986580012	070096		
		0580254961	070060	0580453911	070127	0986580013	070089		
		0580254962	070060	0580453914	070073	0986580174	070168		
		0580254963	070060	0580453915	070073	0986580256	070164		
		0580254964	070060	0580453916	070071	0986580260	070197		
		0580254965	070060	0580453917	070071	9580810046	070053		
		0580254966	070060	0580453918	070071				
		0580254967	070060	0580453919	070071	<b>CHEVROLET</b>			
		0580254968	070060	0580453920	070072	93238459	070133		
		0580254969	070060	0580453921	070072				
		0580254970	070060	0580453922	070073	<b>CHRYSLER</b>			
		0580254971	070060	0580453923	070073	4419618	070119		
		0580254972	070060	0580453924	070072	4762964	070089		
		0580254973	070061	0580453925	070072	4798941	070089		
		0580254974	070061	0580453928	070071	5217852	070119		
		0580254975	070064	0580453929	070071	5217855	070119		
		0580254976	070065	0580453933	070072	5217856	070119		
		0580254980	070060	0580453935	070124	52018387	070089		
		0580254981	070060	0580453966	070124	52018390	070089		
		0580254982	070065	0580453976	070124	52018391	070089		
		0580254984	070065	0580453981	070124	52018796	070089		
		0580254988	070122	0580453984	070124	AW332718	070089		
		0580254989	070122	0580453985	070124	AW334174	070089		
		0580254990	070065	0580463010	070053	AW337327	070089		

# CROSS REFERENCE LIST



<b>CHRYSLER</b>	<b>Cargo</b> <i>continued</i>
AW362718	070089
MB658436	070089
MB678038	070089
MB698623	070089
MB831333	070089
MB959847	070089
MR134284	070089
MR134806	070089
MR241080	070089
MR241351	070089
MR241394	070089

<b>DAEWOO</b>	
92927023	070053

<b>DAIHATSU</b>	
23100-87737-000	070088
23210-87103-000	070088

<b>DELCO REMY USA</b>	
15-8345	160250

<b>DOGA</b>	
280	280
330	330
400	400
450	450
480	480
500	500
530	530
550	550
600	600
650	650
700	700
6055	6055
100.5003.09.00	160616
100.5014.09.00	160617
100.5020.09.00	160618
100.5050.09.00	160614
100.5051.09.00	160615
111.9001.2B.00	160395
111.3756.2B.00	160503
111.3756.3B.00	160504
112.1340.2B.04	160558
112.1380.2B.00	160031
112.1380.3B.00	160032
112.1540.2B.00	160506
112.1580.2B.00	160033
112.1580.3B.00	160034
113.2550.2B.00	160292
113.2550.3B.00	160293
113.5440.2B.00	160357
113.5623.2B.10	160290
113.5623.3B.10	160291
116.5365.2B.10.E	160659
116.5565.2B.D0.E	160258
116.5565.3B.D0.E	160408
119.9046.3B.00	160704
127.0907.GA.04	160571
127.1601.GA.04	160608
133.9001.UC.04	530
133.9002.UC.04	S530
133.9003.UB.04	S5348
133.9004.UC.04	S550
133.9005.UC.04	550
133.9006.UB.04	S5555
133.9012.UC.04	600
133.9013.UC.04	S600
133.9014.UC.04	650
133.9015.UC.04	S650

	<b>Cargo</b>
133.9020.UC.04	500
133.9022.UC.04	480
133.9024.UC.04	700
133.9027.UC.04	450
133.9032.UB.04	S4545
133.9033.UB.04	S4848
133.9034.UB.04	S5045
133.9035.UB.04	S5050
133.9036.UB.04	S5550
133.9037.UB.04	6055
134.9001.UC.04	400
134.9002.UC.04	280
134.9003.UC.04	330
161.3101.2B.09	160004
162.4102.2B.00	160005
162.4102.3B.00	160006
B280	280
B330	330
B400	400
B450	450
B480	480
B500	500
B530	530
B530S	S530
B550	550
B550S	S550
B600	600
B600S	S600
B650	650
B650S	S650
B700	700
FU48	S4848
FU50	S5050
P100	160330
P40	160321
P45	160322
P50.1	160323
P50.2	160324
P60.1	160325
P60.2	130326
P60.3	160326
P60.4	160369
P65	160327
P65.1	160327
P65.2	160370
P70	160328
P702	160411
P80	160329
S4545	S4545
S4848	S4848
S5045	S5045
S5050	S5050
S530	S530
S5348	S5348
S550	S550
S5550	S5550
S5555	S5555
S600	S600
S650	S650

<b>FACET</b>	
40107	070191
40164	070056
40185	070057
50104	070189
50106	070190
50107	070191
60104	070187
60106	070188
476088	070004
476459	070169

	<b>Cargo</b>
40159E	070058
476087E	070003
Q-40104	070189
Q-40106	070188

<b>FERRARI</b>	
113976	070064
119291	070061
129343	070122

<b>FIAT</b>	
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4384372	160327
4421193	070053
4429209	070053
4460210	070053
4460464	070053
4460646	070053
5979027	160197
6081037	070053
7554136	070054
7555130	070126
7597693	070054
7618893	160376
7635535	070053
7742416	070113
7747117	070112
7750715	070113
7760923	070112
7789626	070133
7796614	070124
7799543	070126
44606460	070053
46443793	160197
60518322	070054
60537611	070127
60546091	070053
60779188	070054
60808979	160197
82308678	070053
99488730	160671
464806070	070133
606591690	070133
9612358180	160629
9635281380	070194
AEF068	070113
AEF091	070112
MMS070	070112
MMS075	070112
MSS071	070113
MSS072	070094
MSS076	070113
TGE422L	160671

<b>FORD</b>	
1027752	160694
1027753	160693
1027754	160694
1054409	070133
1613157	070061
1652613	160535
1958438	160197
6106539	070061
6127983	070055
6127985	070055
6150295	070061
6153469	160535
6158319	070055
6165570	070055
6165571	070055
6443306	070139

	<b>Cargo</b>
6443333	070139
6882135	160693
6882136	160694
7003178	160535
7188531	160550
7188532	160550
9968969	160647
75TM9350AA	070065
78GB9350AA	070064
82GB9350AA	070061
83BB9350AA	070061
84BB9350AA	070061
85BB9350AA	070055
85GB9350BA	070055
85GB9350AA	070055
86BB9350AA	070055
86GB9350BA	070055
86VB17K624AA	160535
87AB17K624AC	160535
91AB9H307	070139
92VW8502AA	070192
93BW18456BB	160694
95NW18456BB	160550
95NW18456CB	160550
95VW8502BA	070192
95VW8502AA	070192
96VW9H307BB	070171
96VW9H307CB	070171
97BW18456BA	160694
97BW18456AA	160693
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E89Z9H307D	070111
F0TZ-9H307L	070111
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F2VY9A407A	070089
F75Z9A407BA	070089
F75Z9A407DA	070089
F75Z9A407EA	070089
F75Z9A407FA	070089
F75Z9A407AA	070089
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F75Z9H307KB	070089
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F7UZ9A407CB	070089
F7UZ9A407DA	070089
F7UZ9H307BC	070089
F7UZ9H307CC	070089
F7UZ9H307DB	070089
F7UZ9U307CC	070089
F7UZ9U307DB	070089
YM219H307CA	070171

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25164855	070089
30010245	070089
30013078	070089
30014333	070089
30018727	070089
30019572	070089
90449576	160547
90450963	160547
90450980	160547
90504705	160547
90506193	160547



90589511 .....	<b>Cargo</b> 160547	17040-S10-A00 .....	<b>Cargo</b> 070088	31538 .....	<b>Cargo</b> 070123	9704020000 .....	<b>Cargo</b> 070113
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94384528 .....	070089	17040-SR2-A32 .....	070089	31539 .....	070127	064342601010 .....	160376
94856915 .....	070089	17040-SR2-A50 .....	070089	31540 .....	070073	519722009901 .....	070167
815012(1) .....	070123	17040-SR3-A31 .....	070087	31540 .....	070073	519730069981 .....	070166
<b>HEAT-ON</b>		17040-SRI-A31 .....	070087	31542 .....	070071	519730149901 .....	070168
1331 .....	060222	17040-SS8-A00 .....	070089	31542 .....	070071	519730689900 .....	070163
1518 .....	060058	17040-ST7-A31 .....	070087	31543 .....	070124	519732009903 .....	070164
62769 .....	060230	17040-ST7-A32 .....	070087	31543 .....	070124	519746659900 .....	070165
64750 .....	060232	17040-ST7-L00 .....	070089	31544 .....	070124	GA2001 .....	070167
66221 .....	060228	17040-ST7-L30 .....	070087	31544 .....	070124	GA2002 .....	070163
66231 .....	060229	17040-ST7-L31 .....	070087	31545 .....	070122	GA2005 .....	070164
1331-12 .....	060222	17040-SV1-A30 .....	070088	31545 .....	070122	GA2009 .....	070165
1350-2 .....	060224	17040-SV1-A31 .....	070088	31547 .....	070113	SUA142 .....	070166
1350-3 .....	060225	17040-SV1-L00 .....	070088	31547 .....	070113	SUA377 .....	070168
1350-6 .....	060226	17040-SV1-L01 .....	070088	31548 .....	070112	<b>MARWAL</b>	
1350-8 .....	060227	17040-SV4-A30 .....	070089	31548 .....	070112	7220000 .....	070167
1418-4 .....	060231	17040-SV5-A30 .....	070089	31550 .....	070122	7300601 .....	070166
1531-10 .....	060215	17040-SW5-A30 .....	070088	31550 .....	070122	7301306 .....	070198
1531-5012 .....	060210	17040-SW5-A31 .....	070088	31554 .....	070126	7301401 .....	070168
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1531M-5024 .....	060214	1770A-SR0-A00 .....	070087	5-86202235-0 .....	070089	09730689900 .....	070163
2100-12 .....	060223	79310-SR3-A01 .....	160528	8-94384528-0 .....	070092	<b>MAZDA</b>	
2100-24 .....	060233	<b>HUCO</b>		8-94384528-1 .....	070092	B3C7-13-350 .....	070089
3050-20 .....	060217	133000 .....	070032	8-94479418-1 .....	070089	B3E7-13-350 .....	070089
3055-12 .....	060216	133010 .....	070021	8-94479418-2 .....	070092	B3E7-13-350A .....	070089
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640 MOJAVE .....	060221	133020 .....	070078	8-97041876-1 .....	070089	B61P-13-350B .....	070089
<b>HELLA</b>		138200 .....	160245	8-97041876-3 .....	070089	B61P-13-ZE0 .....	070089
87W006847-001 .....	160535	138231 .....	160246	8-97065370-2 .....	070093	B630-13-350B .....	070099
8EW009100-151 .....	160693	138261 .....	160247	8-97069336-1 .....	070093	B6BF-13-35Z .....	070089
8EW009100-161 .....	160694	<b>HYUNDAI</b>		8-97118512-0 .....	070089	B6BG-13-35Z .....	070089
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8EW009100-251 .....	160547	31110-28300 .....	070089	<b>JAGUAR</b>		BP02-13-35ZD .....	070099
8EW009100-301 .....	160515	31111-22050 .....	070089	73351 .....	070059	BPE8-13-350 .....	070089
8EW009100-311 .....	160520	31111-23001 .....	070090	CAC2263 .....	070053	BPE8-13-35Z .....	070089
8EW009100-321 .....	160554	31111-23100 .....	070091	CAC4269 .....	070053	F201-13-350F .....	070099
8EW009100-331 .....	160555	31111-23300 .....	070089	CBC5656 .....	070059	F201-13-350H .....	070099
8EW009100-351 .....	160516	31111-28150 .....	070089	CBC5657 .....	070053	FEH2-13-350 .....	070099
8EW009100-371 .....	160517	31111-28300 .....	070089	DBC2482 .....	070059	JE45-13-35ZB .....	070089
8EW009100-461 .....	160513	31111-37150 .....	070089	<b>KIA</b>		JE47-13-35ZA .....	070089
8EW009143-161 .....	160540	31111-37200 .....	070089	0K0451335ZA .....	070131	JE48-13-35ZC .....	070089
8EW009143-401 .....	160528	31111-37250 .....	070089	AOD009 .....	070094	KL11-13-350G .....	070100
8EW009159-051 .....	160559	31111-37300 .....	070089	AOK008 .....	070094	KL12-12-350G .....	070100
8TW004223-031 .....	160197	AOH021 .....	070090	AOK099 .....	070094	KL12-13-350H .....	070100
8TW005206-031 .....	160381	<b>INTER MOT</b>		MSS108 .....	070094	KL22-13-350 .....	070098
8TW005206-051 .....	160382	14013 .....	160324	MSS122 .....	070094	KL47-13-350 .....	070089
8TW005496-0051 .....	160198	31500 .....	070074	<b>LANCIA</b>		KL47-13-35ZB .....	070089
8TW006849-001 .....	160386	31502 .....	070125	60537612 .....	070127	KLK1-13-35Z .....	070089
9XX009122-001 .....	160548	31503 .....	070113	4460646(1) .....	070053	ZZL0-13-350A .....	070111
9XX009122-011 .....	160549	31503 .....	070113	<b>LUCAS</b>		ZZL0-13-350B .....	070111
<b>HERTH-BUSS</b>		31508 .....	070059	TGE405A .....	160406	ZZM0-13-350 .....	070111
J1602042 .....	070108	31508 .....	070059	TGE405AK .....	160406	ZZM1-13-350 .....	070111
J1608015 .....	070106	31510 .....	070189	TGE419A .....	160405	ZZM4-13-350 .....	070111
<b>HONDA</b>		31510 .....	070062	TGE419E .....	160405	ZZM5-13-350 .....	070111
14040-SR1-A30 .....	070089	31522 .....	070053	TGE426A .....	160376	<b>MERCEDES BENZ</b>	
14040-SS8-A00 .....	070089	31522 .....	070053	<b>MAGNETI MARELLI</b>		0008601326 .....	160197
14040-SS8-A02 .....	070089	31523 .....	070061	64340537 .....	160406	0008602026 .....	160197
17040-S01-A30 .....	070087	31523 .....	070061	64341901 .....	160405	0008603326 .....	160197
17040-S02-L00 .....	070087	31526 .....	070054	7747117000 .....	070112	0008603526 .....	160197
17040-S04-G30 .....	070087	31526 .....	070054	7750715000 .....	070113	0012012000 .....	070192
17040-S04-L00 .....	070089	31535 .....	070140			0018305608 .....	160631
17040-S04-SG40 .....	070087	31535 .....	070140			0020911301 .....	070065

# CROSS REFERENCE LIST



## MERCEDES BENZ

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A0020918901 .....	070061
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A0028301508 .....	160564
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MB831562 .....	070089
MB831691 .....	070089
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MB912304 .....	070102
MB913663 .....	070089
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MB927016 .....	070089
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MR124881 .....	070089
MR124999 .....	070089
MR134804 .....	070101
MR134868 .....	070101
MR208665 .....	070089
MR241083 .....	070089
MR325884 .....	070089
MR831562 .....	070089
MR912304 .....	070089
SMR439567 .....	070193

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17040-8B005 .....	070089
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17042-0F300 .....	070132
17042-0W000 .....	070089
17042-0W005 .....	070089
17042-10S00 .....	070128
17042-1C600 .....	070130
17042-1E400BC .....	070128
17042-1W210 .....	070089
17042-2B500 .....	070089
17042-30R00 .....	070093
17042-30R11 .....	070093
17042-31008 .....	070088
17042-31U00 .....	070089
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17042-85L00 .....	070093
17042-8B000 .....	070089
25060-35F00 .....	070093

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28810-G9709 .....	160396

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815008 .....	070174
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6441L0 .....	160562
7910246476(1) .....	070065
91538806(1) .....	070053
95658443(2) .....	160560

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9999163575 .....	070060

## ROLLS ROYCE

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006-B46-22	160556	42021FA001	070104	23214-06010	070097	698059	160553
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VA04-BP01-37A	160589	1510050G00	070089	23220-43070	070096	883977	160519
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VA07-AP12C-31A	*160537	1510057B00	070106	23220-70120	070096	W962011T	160511
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VA09-AP8C-27A	*160598	1510061A01	070106	23221-46010	070095	246083002014G	160382
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VA09-AP12C-27S	*160600	1510061AA0	070089	23221-46070	070089	E22041056Z	070082
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VA10-AP9C-25A	*160538	402229	160033	<b>UNIPOINT</b>		171955651	160197
VA10-AP9C-25S	*160536	402230	160032	WB-1011S	160628	191906090	070073
VA10-BP-61A	*160584	402231	160034	WB-1013S	160633	191951221	160712
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VA11-AP7C-29A	*160539	4161493	070118	WB-1018S	160645	357819021	160554
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VA18-BP51C-41S	*160595	8981664	070119	WB-1819S	160748	477906091	070122
VA18-BP70LL-41MS	160595	9321621	070118	WB-1820S	160750	811906091	070071
VA18-BP70LL-41MA	160777	9321712	070118	WB-1821S	160753	867906091	070071
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431906091B	070060	13336679	070054					
431906091C	070060	30611161	070116					
431906091D	070060	30611490	070117					
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