



RELAYS

RELAIS

RELAIS

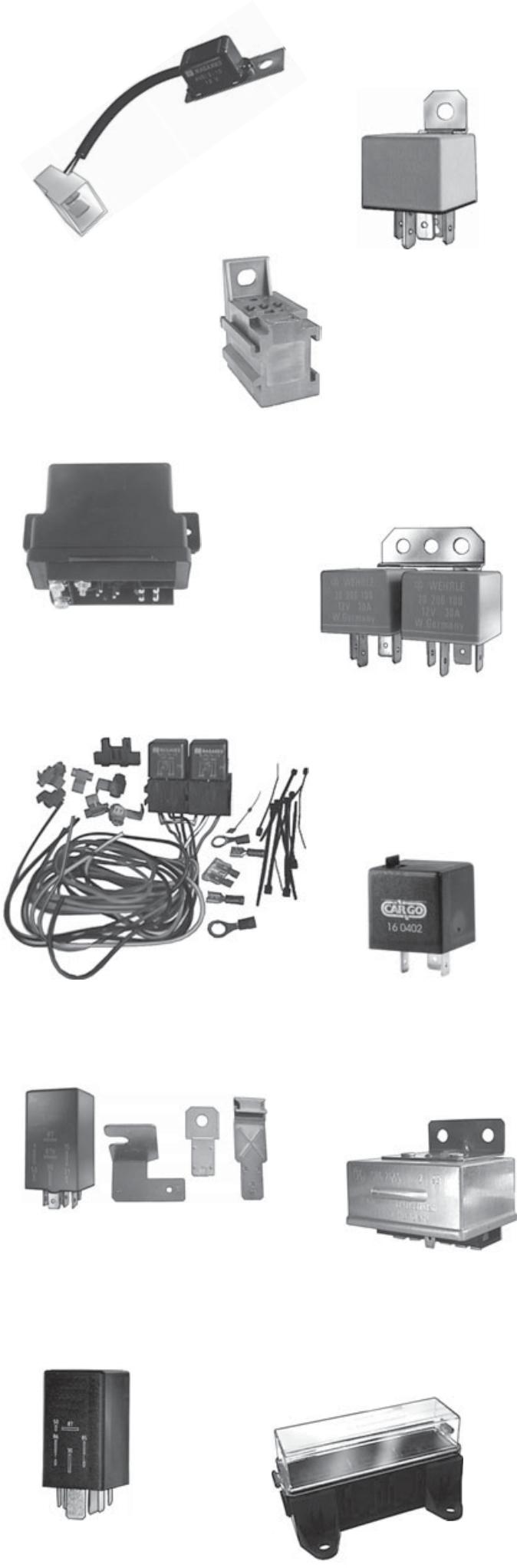
RELÈ

PART 11

3rd Edition



ISO/TS 16949:2002 certified supplier



GB

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ABBREVIATIONS:

A=Assortment, AC=Air Condition, Alu=Aluminium, Amp.=Ampere, AT=Automatic Transmission, Cat.=Catalyzer, Ch.=Chassis, Cyl.=Cylinder, CW=Clockwise rotation, Eur.=European application, FWD.=Front Wheel Drive, H=High, 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.

Bo=Bosch, Ch=Chrysler, Du=Ducellier, DR=Delco Remy, Fe=Femsa, Fo=Ford, Hi=Hitachi, Lu=Lucas, Ma=Mazda, Mi=Mitsubishi, MM=Magneti Marelli, Mo=Motorola, Mt=Magneton, ND=Nippondenso, Pa=Pal Magneton, SE=SEV, Si=Siemens, Ta=Talbot, Te=Telefunken

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

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ABKÜRZUNGEN:

A=Sortimente, **AC**=Air Condition, **Alu**=Aluminium, **Amp.**=Ampere, **AT**=Automatik Getriebe, **Cat.**=Katalysator, **Ch.**=Fahrgestell, **Cyl.**=Zylinder,
CW=Uhrzeigersinn, **Eng.**=Motor, **Eur.**=Europäische Montierung, **FWD**=Frontantrieb, **H**=Höhe, **HD**=Hochbelastbar / Schüttelfest,
HP=Pferdestärke, **I.D.**=Innendurchmesser, **kW**=Kilowatt, **L**=Länge, **LHD**=Linksgesteuert, **LL**=Kabellänge, **M**=Mindestbestellmenge,
MT=Manual Getriebe, **Mtr.**=Meter, **O.D.**=Aussendurchmesser, **O.E.**=Originalteil, **PS**=Servolenkung, **RHD**=Rechtsgesteuert, **Th.**=Dicke,
V=Volt, **W**=mit, **W/o**=ohne, **W**=Breite, **4WD**=Allradantrieb, **N**=Neue Nummer.

Bo=Bosch, **Ch**=Chrysler, **Du**=Ducellier, **DR**=Delco Remy, **Fe**=Femsa, **Fo**=Ford, **Hi**=Hitachi, **Lu**=Lucas, **Ma**=Mazda,
Mi=Mitsubishi, **MM**=Magneti Marelli, **Mo**=Motorola, **Mt**=Magneton, **ND**=Nippondenso, **Pa**=Pal Magneton, **SE**=SEV,
Si=Siemens, **Ta**=Talbot, **Te**=Telefunken

Wir haben sorgfältig versucht die Beschreibungen und Verwendungsfähigkeiten der einzelnen Teile so exakt wie möglich zu machen,
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Nachdruck verboten, auch teilweise.

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ABREVIATIONS:

A=Assortiment, **AC**=Climatisation, **Alu**=Aluminium, **Amp.**=Ampère, **AT**=Transmission automatique, **Cat.**=Catalyseur, **Ch.**=Numéro de Série,
Cyl.=Cylindre, **CW**=Rotation dans le sens des aiguilles d'une montre, **Eur.**=Application européenne, **FWD.**=Traction Avant, **H**=Hauteur,
HD=Construction de grande puissance, **HP**=Chevaux, **I.D.**=Diamètre Intérieur, **kW**=Kilowatt, **L**=Longueur, **LHD**=Conduite à gauche,
LL=Longueur du câble, **M**=Livraison minimum, **MT**=Transmission Manuelle , **Mtr.**=Mètre, **O.D.**=Diamètre Extérieur, **O.E.**=Référence d'origine,
PS=Direction Assistée, **RHD**=Conduite à droite, **Th.**=Epaisseur, **V**=Volt, **W**=avec, **W/o**=sans, **W.**=Largeur, **4WD.**=Quatre roues motrices,
NEW Nouvelle référence.

Bo=Bosch, **Ch**=Chrysler, **Du**=Ducellier, **DR**=Delco Remy, **Fe**=Femsa, **Fo**=Ford, **Hi**=Hitachi, **Lu**=Lucas, **Ma**=Mazda,
Mi=Mitsubishi, **MM**=Magneti Marelli, **Mo**=Motorola, **Mt**=Magneton, **ND**=Nippondenso, **Pa**=Pal Magneton, **SE**=SEV,
Si=Siemens, **Ta**=Talbot, **Te**=Telefunken

Une attention particulière est portée sur la précision des descriptions et des applications de chaque référence,

mais **CARGO** se dégage de toutes responsabilités en cas d'erreurs éventuelles.

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ABBREVIAZIONI:

A=Assortimenti, AC=Aira Condizionata, Alu.=Alluminio, Amp.=Ampere, AT=Trasmissione Automatica, Cat.=Catalizzato, Ch.=Chassis, Cyl.=Cilindro, CW=Rotazione Oraria, Eng.=Motore, Eur.=Applicazioni Europee, FWD=Trazione Anteriore, HD=Versione Potenziata, HP=Cavalli Vapore, ID.=Diametro Interno, kW.=Kilowatt, L=Lunghezza, LL=Lunghezza Principale, LHD=Montato a Sinistra, M=Minimo Fornibile, MT=Trasmissione Manuale, Mtr.=Metro, O.D.=Diametro Esterno, O.E.=Equipaggiamento Originale, PS=Controllo di potenza, RHD=Montato a destra, Th.=Spessore, V.=Volt, WI=Con, W/o=Senza, W.=Larghezza, 4WD=Trazione integrale, Nuovo Numero.

Bo=Bosch, Ch=Chrysler, Du=Ducellier, DR=Delco Remy, Fe=Femsa, Fo=Ford, Hi=Hitachi, Lu=Lucas, Ma=Mazda, Mi=Mitsubishi, MM=Magneti Marelli, Mo=Motorola, Mt=Magneton, ND=Nippondenso, Pa=Pal Magneton, SE=SEV, Si=Siemens, Ta=Talbot, Te=Telefunken

Si è cercato di riportare con la maggior esattezza possibile descrizioni ed applicazioni. non risponde di eventuali errori. I riferimenti originali sono riportati solo a scopo indicativo. È vietata la ristampa, anche solo parziale. Stampato in Danimarca.

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GB

Terminal Designations for Relays

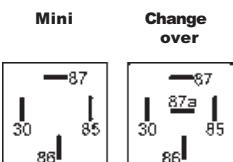
- 1 Ignition coil - Low voltage side.
- 15 Ignition controlled feed (Ignition / key switch)
- 30 Input from positive battery terminal.
- 31 Return to battery - ve (ground).
- 31b Return time to neg. battery terminal or ground.
- 50 Starter control (direct).
- 53c Electric windshield washer pump.
- 53e Wiper (brake winding).

- 85 End of winding to negative.
- 85b End of second winding.
- 86 Start of winding.
- 87 Switching relay Output (N/O contacts).
-Input (C/O contacts).
- 87a First output (break side).
- 87b Second output.
- L Control lamp.
- TD 12 V. square wave input from ECU.

GB DIN 72651

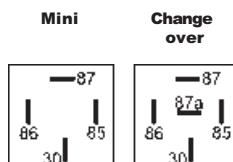
DIN 72552

- W2 1 86 Start of winding.
- W1 2 85 End of winding to negative.
- C2 3 30 Input from positive battery terminal.
- C3 4 87a 1st output (break contact side).
- C1 5 87 Switching relay - Output (N/O contacts) - Input (C/O contacts).



A

Servicing BMW, Ford, Jaguar, Opel, Volvo.



B

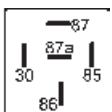
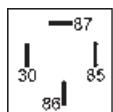
Servicing Audi, British Leyland, Citroén, DB-LKW, KHD, MAN, Massey Ferguson, Peugeot, Saab, Talbot, Volvo, VW.

Anschluss-Bezeichnungen für Relais
D

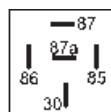
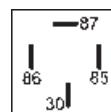
- | | |
|---|--|
| 1 Zündspule - Niederspannungsseite. | 85 Wicklungsende - Minusseite. |
| 15 Geschaltetes Plus hinter Batterie
(Ausgang Zündschalter). | 85b Ende der zweiten Wicklung. |
| 30 Eingang von B+ (direkt). | 86 Wicklungsanfang. |
| 31 Rückleitung ab B- od. Masse (direkt). | 87 Relaiskontakt bei Öffner u. Wechsler (Eingang). |
| 31b Rückleitung an B- od. Masse über Schalter od.
Relais. | 87a Erster Ausgang (Öffnerseite). |
| 50 Startersteuerung (direkt). | 87b Zweiter Ausgang. |
| 53c Elektrische Scheibenwaschpumpe. | L Kontroll-Lampe. |
| 53e Wischer (Bremswicklung). | TD 12 V. - Rechtecksigaleingang von ECU.
(Steuergerät). |

GB DIN 72651 DIN 72552

- | | | |
|-----------------|-----------|---|
| W2..... 1 | 86 | Wicklungsanfang. |
| W1..... 2 | 85 | Wicklungsende - Minusseite. |
| C2..... 3 | 30 | Eingang von B+ (direkt). |
| C3..... 4 | 87a | Erster Ausgang (Öffnerseite). |
| C1..... 5 | 87 | Relaiskontakt bei Öffner u. Wechsler (Eingang). |

Klein
Wechsler

A

Für BMW, Ford, Jaguar, Opel, Volvo.

Klein
Wechsler

B

Für Audi, British Leyland, Citroén,
DB-LKW, KHD, MAN, Massey Ferguson,
Peugeot, Saab, Talbot, Volvo, VW.

F

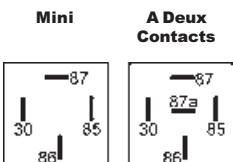
Déscription des Broches pour Relais

1 Sortie ruptureur.
15 + Contact.
30 + permanent.
31 Masse.
31b Retour de masse.
50 Démarrage.
53c Commande pompe électrique de Lave-Glaces.
53e Moteur Essuie-Glaces.

85 1ère sortie d'enroulement de relais.
85b Fin de sortie d'enroulement de relais.
86 2ème sortie d'enroulement de relais.
87 Contact Sortie - (Contact fermé) -
Sortie (Contact ouvert).
87a 1ère sortie.
87b 2ème sortie.
L Lampe Témoin.
TD Sortie séquentielle en 12 V. pour les calculateurs.

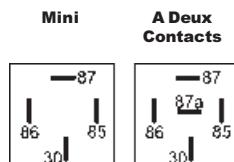
GB DIN 72651 DIN 72552

W2 1 86 2ème sortie d'enroulement de relais.
W1 2 85 1ère sortie d'enroulement de relais.
C2 3 30 + permanent.
C3 4 87a 1ère sortie.
C1 5 87 Contact Sortie - (Contact fermé) - Sortie (Contact ouvert).



A

Affection BMW, Ford, Jaguar, Opel, Volvo.



B

Affection Audi, British Leyland, Citroén,
DB-LKW, KHD, MAN, Massey Ferguson,
Peugeot, Saab, Talbot, Volvo, VW.

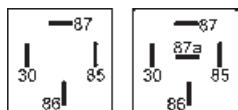
Descrizione Terminali per Relè

I

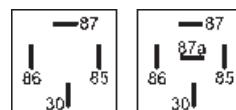
- | | |
|--|---|
| 1 Bobina accensione - Lato bassa tensione. | 85b Fine secondo avvolgimento. |
| 15 Accensione / Sottochiave. | 86 Inizio avvolgimento. |
| 30 Ingresso dal positivo. | 87 Contatto relè (uscita Normalmente Aperto) (Ingresso Normalmente Chiuso). |
| 31 Uscita negativo o massa. | 87a Prima uscita. |
| 31b Terminale uscita temporizzata. | 87b Seconda uscita. |
| 50 Starter. | L Lampada di controllo. |
| 53c Pompa lavavetri. | TD 12 V. - Ingresso onda quadra da ECU. |
| 53e Tergicristallo (avvolgimento di stop). | |
| 85 Fine avvolgimento al negativo. | |

GB DIN 72651 DIN 72552

- | | | |
|-----------------|-----------|--|
| W2..... 1 | 86 | Inizio avvolgimento. |
| W1..... 2 | 85 | Fine avvolgimento. |
| C2..... 3 | 30 | Ingresso dal positivo. |
| C3..... 4 | 87a | Prima uscita. |
| C1..... 5 | 87 | Contatto relè (uscita Normalmente Aperto) (Ingresso Normalmente Chiuso). |

Mini Scambio**A**

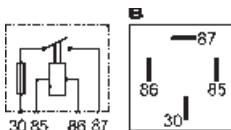
Applicazione BMW, Ford, Jaguar, Opel, Volvo.

Mini Scambio**B**

Applicazione Audi, British Leyland, Citroén, DB-LKW, KHD, MAN, Massey Ferguson, Peugeot, Saab, Talbot, Volvo, VW.

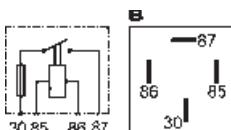
Terminal Designations
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Mini Relays



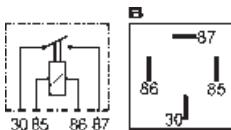
160155 A

12 V. 15 Amp. 4 terminals.
W/ insertable ATO-blade fuse.



160473 A

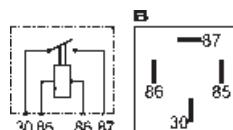
24 V. 15 Amp. 4 terminals.
W/ insertable ATO-blade fuse.



160652

6 V. 20 Amp. 4 terminals.

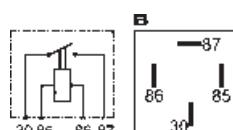
WEHRLE



160080 A

12 V. 30 Amp. 4 terminals.

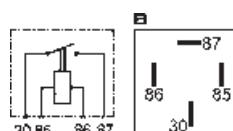
WEHRLE



160082 A

24 V. 20 Amp. 4 terminals.

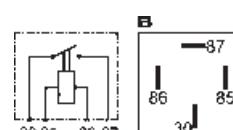
WEHRLE



160307 A

As Cargo 160082, but w/o bracket.
24 V. 20 Amp. 4 terminals.

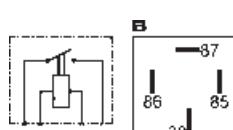
NAGAREB



160311 A

12 V. 40 Amp. 4 terminals.

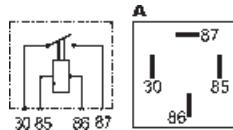
NAGAREB



160282 A

As Cargo 160311, but w/o bracket.
12 V. 40 Amp. 4 terminals.

WEHRLE



160083 A

12 V. 30 Amp. 4 terminals.

Mini Relays

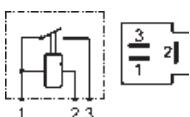
WEHRLE®

160215 A

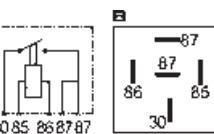
24 V. 20 Amp. 4 terminals.


160265 A

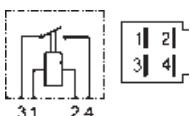
12 V. 30 Amp. 5 terminals.

XILES

160479 A

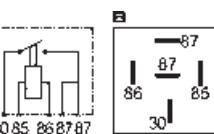
12 V. 25 Amp. 3 terminals.


160266 A

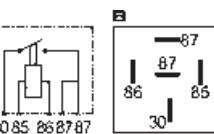
24 V. 20 Amp. 5 terminals

XILES

160480 A

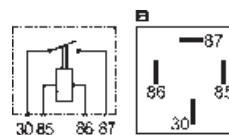
12 V. 25 Amp. 4 terminals.

WEHRLE®

160265 A

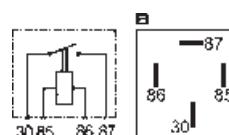
12 V. 30 Amp. 5 terminals.

WEHRLE®

160266 A

24 V. 20 Amp. 5 terminals

High Performance
WEHRLE®

160239 A

 12 V. 70 Amp. 4 terminals.
 W/ two 6.3 mm. and two 9.5 mm.
 terminals (terminals 30 and 87).

WEHRLE®

160240 A

 24 V. 30 Amp. 4 terminals.
 W/ two 6.3 mm. and two 9.5 mm.
 terminals (terminals 30 and 87).

PART 11

RELAYS

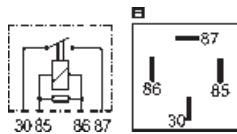


Terminal Designations
page 6 - 9

Mini Relays

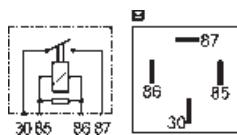
High Performance

WEHRLE



160468 A

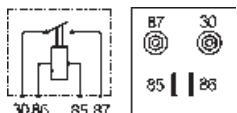
12 V. 70 Amp. 4 terminals.
W/ two 6.3 mm. and two 9.5 mm.
terminals (terminals 30 and 87).
W/o bracket, w/ resistor.



160272 A

24 V. 70 Amp. 4 terminals.
W/ two 6.3 mm. and two 9.5 mm. terminals
(terminals 30 and 87).
W/o bracket, w/ resistor.

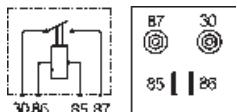
NAGARES



160477

12 V. 100 Amp. continued.
180 Amp. for 15 sec. 4 terminals.
(2 screws, 2 flat plugs).

NAGARES

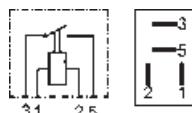
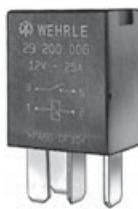


160478

24 V. 60 Amp. continued.
80 Amp. for 15 sec. 4 terminals.
(2 screw, 2 flat plug).

Micro Relays

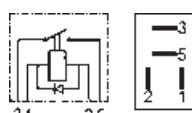
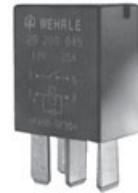
WEHRLE



160363 A

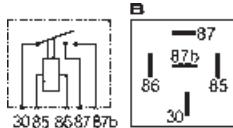
12 V. 25 Amp. 4 terminals.
W/o bracket.

WEHRLE

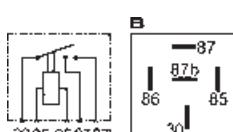


160364 A

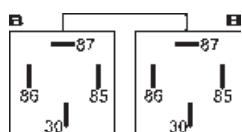
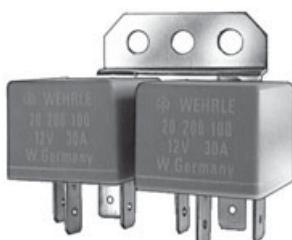
12 V. 25 Amp. 4 terminals.
W/ diode.
W/o bracket.

Double Contact Relays

160168 A

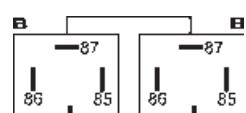
12 V. 2 x 15 Amp. 5 terminals.


160169 A

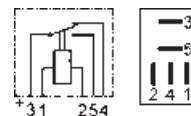
24 V. 2 x 10 Amp. 5 terminals.

Twin Relays

160267

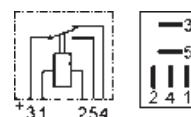
12 V. 2 x 30 Amp. 2 x 4 terminals.


160268 A

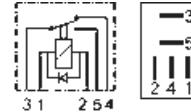
24 V. 2 x 20 Amp. 2 x 4 terminals.

Change Over Relays

160365 A

 12 V. 10/20 Amp. 5 terminals.
W/o bracket.


160368 A

 24 V. 4/10 Amp. 5 terminals.
W/o bracket.

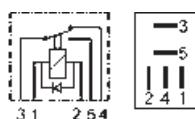

160366 A

 12 V. 15/25 Amp. 5 terminals.
W/ diode.
W/o bracket.

Terminal Designations
page 6 - 9

Change Over Relays

WEHRLE

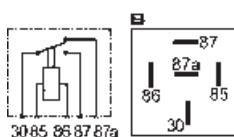


160521

24 V. 5/10 Amp. 5 terminals.
W/ diode.
W/o bracket.

N

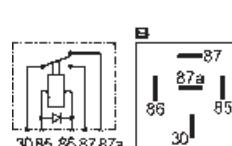
WEHRLE



160216 A

24 V. 10/20 Amp. 5 terminals.

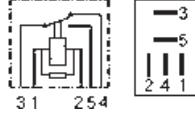
WEHRLE



160270 A

12 V. 20/30 Amp. 5 terminals.
W/ diode.

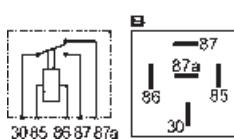
WEHRLE



160367 A

12 V. 15/25 Amp. 5 terminals.
W/ resistor.
W/o bracket.

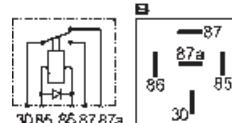
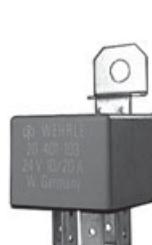
NAGARES



160308 A

12 V. 15/40 Amp. 5 terminals.
W/o bracket.

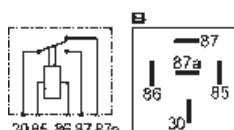
WEHRLE



160271 A

24 V. 10/20 Amp. 5 terminals.
W/ diode.

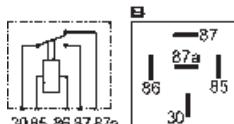
WEHRLE



160081 A

12 V. 20/30 Amp. 5 terminals.

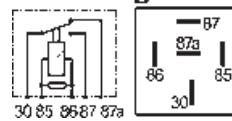
NAGARES



160337 A

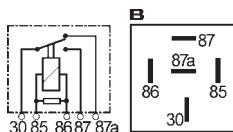
24 V. 10/22 Amp. 5 terminals.
W/o bracket.

WEHRLE

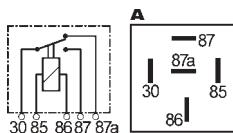


160403 A

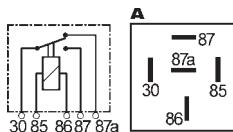
12 V. 20/30 Amp. 5 terminals.
W/ resistor.

Change Over Relays

160394

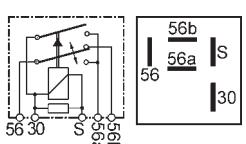
Replacing 89 9932, 89 9957.
Servicing Mercedes, Iveco.
 24 V. 40/60 Amp. 5 terminals.
 W/o bracket w/ resistor.

NAGARES

160316 A

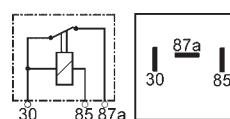
12 V. 15/40 Amp. 5 terminals.

NAGARES

160317 A

24 V. 10/22 Amp. 5 terminals.

Dip Relay
N

160654

Replacing Stribel 899202.
Servicing Audi, VW
 For headlamp dip or flasher unit (Flip Flop).
 12 V. 2x150 Watt. 5 terminals.

Switch-off Relays
WEHRLE

160404

12 V. max. 2x21 Watt. 3 terminals.
 To switch off automatically one or two rear fog light lamps, if trailer or caravan is being connected to the towing vehicle.

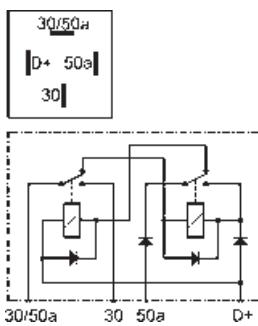
PART 11

RELAYS



Start Repeat Locking Relays

WEHRLE

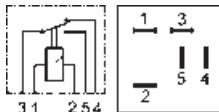


160472

24 V. 4 terminals.

Charge Relays

JIDECO



160407

Replacing Isuzu 8-94235-627-0.
12 V. 20 Amp. 5 terminals.

Relay Multi Plugs



190766 Std pkg 10
Socket. 9 terminals max.
Sockets can be built together.
5 x 6.3 mm flat plug terminals.
4 x 2.8 mm flat plug terminals.

192158

Kit set.
Contents:

1 pcs. Cargo 190766
and terminals:
5 pcs. Cargo 190252,
4 pcs. Cargo 191083.



190767 Std pkg 10
Socket. 5 terminals max.
5 x 6.3 mm flat plug terminals.

192159

Kit set.
Contents:
1 pcs. Cargo 190767
and terminals:
5 pcs. Cargo 190252.

**Relay
Multi Plugs****191752 A** Std pkg 10

Socket for micro-relay.
5 terminals max.
Sockets can be built together.
2 x 6.3 mm flat plug terminals.
3 x 4.7 mm flat plug terminals.

192161

Kit set.

Contents:

- 1 pcs. Cargo 191752
and terminals:
- 2 pcs. Cargo 190252,
- 3 pcs. Cargo 191089.

**191026** Std pkg 10

Socket. 9 terminals max.
Sockets can be built together.
2 x 9.5 mm flat plug terminals.
3 x 6.3 mm flat plug terminals.
4 x 2.8 mm flat plug terminals.

192160

Kit set.

Contents:

- 1 pcs. Cargo 191026
and terminals:
- 2 pcs. Cargo 191025,
- 3 pcs. Cargo 190252,
- 4 pcs. Cargo 191083.

Relay Boxes**191410**

4-way for standard relays.
Kit set w/ transparent lid, terminals and
terminallock.
Can be assembled in rows.
(Terminals Cargo 190252 or 191029).

**191818**

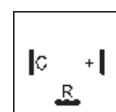
7-ways for micro-relays.
Kit set w/ transparent lid, terminals and
terminallock.
Can be assembled in rows.
(Terminals Cargo 190252 or 191029 and
191089).

Flasher Units

Terminal Designations

	D	F	J	US	GB
	+49	+	B	X / B	
	49a	C	L	L	
	C	R		P	
	31	-	E	Ground	
	C2	R2		C2	

NAGARES



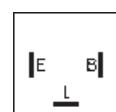
160312 A

12 V. 2/4 x 21 Watt 3 terminals.
Interchangeable with any 4 terminal device
(+, -, C, R).
For SAE standard vehicles.
(France, Italy, USA, Spain).

160313

As Cargo 160312, but
24 V. 2/4 x 21 Watt 3 terminals.

NAGARES

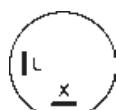
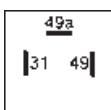


160315 A

12 V. 138 Watt 2 terminals.
Servicing Japanese vehicles.

160651

6 V. 42 Watt 3 terminals.



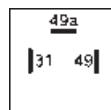
160115 A

12 V. 138 Watt 2 terminals.

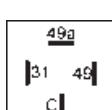


160116 A

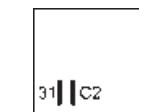
12 V. 138 Watt 3 terminals.

Flasher Units
WEHRLE

160242 A

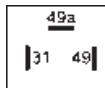
12 V. 2/4 x 21 Watt 3 terminals.
Servicing Alfa Romeo, Audi, BMW, Ford, Opel, Saab, Volvo, VW.

WEHRLE

160243 A

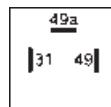
12 V. 2/4 x 21 Watt 4 terminals.
Servicing Alfa Romeo, Citroen, Fiat, Ford, Lada, Lancia, Peugeot, Renault, Saab, Vauxhall, Volvo.

WEHRLE


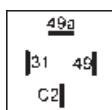
31 | C2


160475 A

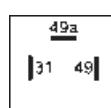
12 V. 2+1/6 x 21 Watt.
 3 terminals + 2 in top.
 For vehicles towing trailers or caravans.

WEHRLE

160474 A

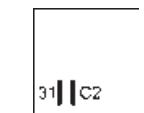
12 V. 2/4 x 21 Watt. 3 terminals.
 Height: 30 mm.
Servicing VW 76-.

WEHRLE

160244 A

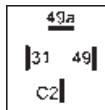
12 V. 2+1/6 x 21 Watt 4 terminals.
 For vehicles towing trailers or caravans.
Servicing Audi, BMW, Fiat, Ford, Jap. vehicles, Opel, Saab, Vauxhall, Volvo.

WEHRLE

160261

24 V. 2/4 x 21 Watt 3 terminals.



31 | C2


160402 A

12 V. 2+1 / 6 x 21 Watt
 4 terminals + 2 in top.
 Height: 30 mm.
 For vehicles towing trailers or caravans.
Servicing VW.

Cross Reference List page 71

Terminal Designations
page 18

Flasher Units

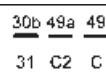
WEHRLE®



160305 A

12 V. 2+1/6 x 21 Watt 4 bullet terminals.
For vehicles towing trailers or caravans.
Servicing Mercedes.

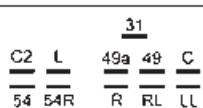
WEHRLE®



160199

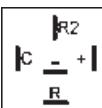
24 V. 3+1/8 x 21 Watt 6 terminals.
Servicing Mercedes etc.

STRIBEL®



W/ electronic protection against short circuits.

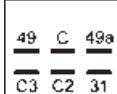
MAGIRUS®



160314 A

12 V. 2+1/6 x 21 Watt 5 terminals.
For vehicles towing trailers or caravans.
For SAE standard vehicles.
(France, Italy, USA, Spain).

WEHRLE®



160263 A

12 V. 2+1+1/8 x 21 Watt 6 terminals.
Servicing John Deere, Fendt, IH Case etc.

160281

24 V. 2+1/6 x 21 Watt 11 terminals.

Servicing Magirus, Mercedes a.o.

Replacing 0248 1968 EZ,
001 544 8332).

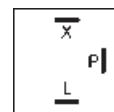
160286

24 V. 3+1/8 x 21 Watt 11 terminals.

Standard execution.

Servicing Mercedes etc.

MAGIRUS®



160341 A

12 V. 180 Watt 3 terminals.
16 Amp.

**Hazard Warning
Light Systems**

IV

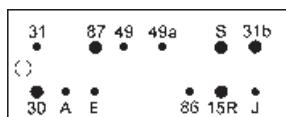
160578

12 V.

Complete set containing switch, relay and mounting bracket.

Timing Devices

- Rear window heating
- Wiper-washer system

WEHRLE**160287**

Servicing Mercedes.

Replacing 60 215 005,
Mercedes 201 821 0047.

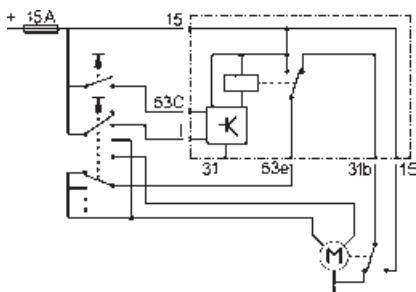
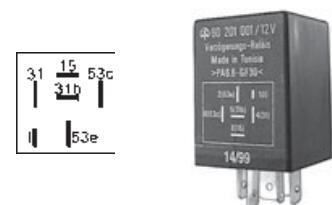
12 V.

Flasher unit 2/4 x 21 Watt.

Cross Reference List page 71

Time Delay Relays

WEHRLE

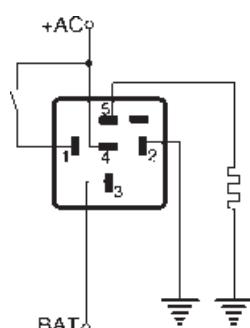


160297

Replacing 60 201 001, Opel 1238 550, GM 90 069 864, Siemens 5WK 1636, -1640.

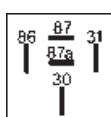
12 V. 6 terminals.
For windshield wiper and washer.
Also for universal use.
Delay on: 3.5 sec.

NAGARES



160570

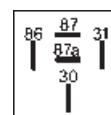
Servicing Citroën, Peugeot, Valeo.
12 V. 5 Terminals.
For rear window heater.
Also for universal use.
Delay on: 10 min.



160467

Replacing Mercedes 000 821 3347, Stribel 89 8270.
24 V. 5 terminals.
For AC-Compressor, bus doors and time delayed motors.
Delay on: 2.5 sec.

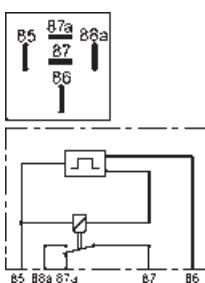
WEHRLE



160466

Replacing Mercedes 001 545 5605, Stribel 89 8211, Wehrle 51 401 004.
24 V. 5 terminals.
For AC-Compressor, bus doors and time delayed motors.
Delay on: 4 sec.

WEHRLE



160501

24 V. 5 terminals.
For AC-Compressor, bus doors and time delayed motors.
Delay on: 3 sec.

Light Delay Units**160471**

Holds the interior light on for 15 sec.
12V.

Voltage Reducer**160627**

Set w/ 2 resistors.
Reduces the voltage with 0.75 V.
Secures the lifetime of the headlight bulbs in
cars with high voltage.

Automatic Daytime Running Lights

Complete w/ relays, wires and connecting
material. Fitting instruction included.

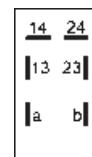
Servicing Most Eur. and Jap. vehicles.

160274

12 V.

160275

As Cargo 160274, but 24 V.

**160278**

Special relay for automatic daytime
running light (Cargo 160274).
To be used on vehicles w/ alternator
w/o diodetrio.
12 V. 6 terminals.

Acoustic Warning

Universal reminder for turning on light

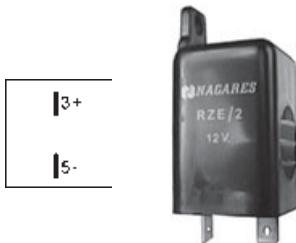
NAGARES



160276

12 V. 2 terminals.
86dB.

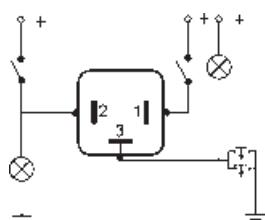
NAGARES



160347

Electronic.
72 dB.
12 V. 2 terminals.

Universal reminder for turning on and off light

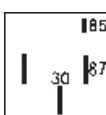


160509

Electronic.
72 dB.
12 V. 3 terminals.

Radiator Fan Relays

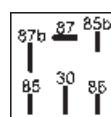
N



160637

Replacing 357906381A, 1J0906381A.
Servicing VW, VR6 models, 1.9 TDI.
12 V. 4 terminals.

Fuel Pump Relays



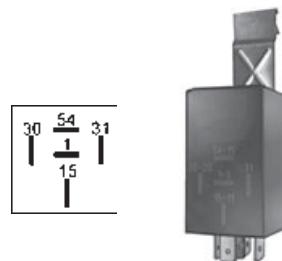
160295

Replacing 1238 966, GM 90 378 651.
Servicing Opel, Vauxhall.
12 V. 6 terminals.



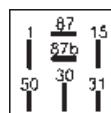
160348

Replacing 82GG-9P704AA, 6107 322.
Servicing Ford.
12 V. 5 terminals.

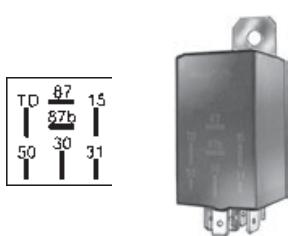


160350

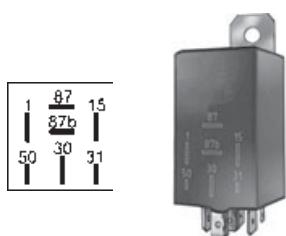
Replacing 85AG-9P704AA, 6161 570.
Servicing Ford.
12 V. 5 terminals.

Fuel Pump Relays
*Terminal Designations
page 6 - 9*

160352

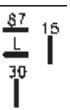
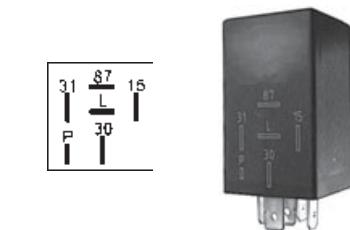
Replacing 12 38 566, GM 90 124 673.
Servicing Fiat, Ford, Opel, Renault,
 Vauxhall, Volvo, VW.
 12 V. 7 terminals.


160353

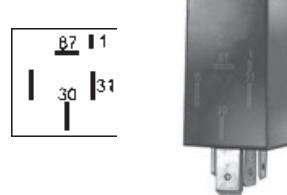
Replacing 0280 230 009.
Servicing Citroen, Fiat, Peugeot, Seat.
 12 V. 7 terminals.


160354

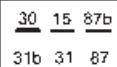
Replacing 0280 230 006.
Servicing Citroen, Fiat, Peugeot,
 Renault.
 12 V. 7 terminals.


160362

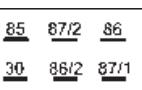
Replacing 321 906 363.
Servicing VW.
 12 V. 6 terminals.


160372

Replacing 321 906 059H,
 443 907 385C, G, H.
Servicing Audi 80 1.8, 85-91.
 12 V. 5 terminals.


160400

Replacing 3523639.
Servicing Volvo. (Engine B 230E).
 12 V. 30 Amp. 6 terminals.


160401

Replacing 3523608.
Servicing Volvo. (Engine B 230F).
 12 V. 15 Amp. 6 terminals.


160470

12 V. 10 terminals.
 W/ coldstartvalve.
 RPM-limited 6200 RPM/min.

*Applications List page 49
Cross Reference List page 71*

GB

Glow Plug Controller Descriptions

CARGO	Pre-heating time in sec. at +20°C	Postheating		Temperature measurement		Characteristic	CARGO	Pre-heating time in sec. at +20°C	Postheating		Temperature measurement		Characteristic
		W/	W/o	Int.	Ext.				W/	W/o	Int.	Ext.	
160416	< 8		✓	✓			160442	< 9		✓	✓		W/ defect warning
160417	< 13		✓	✓			160443	< 9		✓	✓		W/ defect warning
160418	< 8	✓		✓			160444	< 9		✓	✓		W/ defect warning
160419	< 6	✓		✓			160445	< 9	✓			✓	W/ defect warning
160420	< 8	✓			✓		160446	< 9	✓			✓	W/ defect warning
160421	< 4	✓			✓		160447	< 9	✓			✓	W/ defect warning
160422	< 18		✓		✓		160448	< 9	✓			✓	W/ defect warning
160423	< 14		✓	✓			160449	< 7	✓		✓		
160424	< 8		✓	✓			160450	< 9		✓	✓		W/ defect warning
160425	< 9		✓	✓			160451	< 7	✓			✓	Impulse postheating time
160426	< 7	✓		✓			160452					Technical specification on request	
160427	< 14	✓		✓			160453					Switching relay - control by ECU	
160428	< 8	✓		✓		W/ postheating cut-out	160454						
160429	< 13		✓	✓			160455						
160430	< 5	✓		✓			160456						
160431	< 10		✓	✓		Coding at plug	160457						
160432	< 7	✓		✓		W/ postheating cut-out, impulse postheating time	160458	< 12	✓			✓	
160433	< 9	✓			✓		160459					Switching relay - control by ECU	
160434	< 8	✓			✓		160460					Switching relay - control by ECU	
160435	< 12	✓		✓			160461					Switching relay - control by ECU	
160436	< 8	✓			✓	W/ postheating cut-out	160463	< 9	✓			✓	W/ defect warning
160438	< 10	✓				Impulse postheating time	160464	< 5		✓		✓	
160439	< 5	✓		✓	✓		160469	< 5	✓		✓		
160440	< 9	✓		✓	✓	✓	160705	< 9	✓			✓	
160441	< 9		✓	✓		W/ defect warning	160706	< 9	✓			✓	

Terminal Designations

15 **Ignition controlled feed** (ignition / key switch)
 30 **Feed from positive battery terminal, direct**
 31 **Earth or battery negative**
 50 **Starter feed** (direct)
 Switching relays
 85 Finish of winding (earth)
 86 Start of winding
 87 Output
 87b Second output
 A **Finish of winding** (earth)
 ALFB **Output glow plug**
 B1 **Start of winding**
 B2 **Start of winding**
 Generator and generator regulator
 B+ Battery positive, generator output
 CTN **Temperature signal**

EVKSB..... **Electrical coldstart valve**
 G **Output glow plug**
 L **Controllamp**
 LA **Controllamp**
 n.c. **No connection**
 PC **Throttle position signal**
 S **Throttle position signal**
 S1 **Output glow plug**
 S2 **Output glow plug**
 SB **Ground**
 T **Temperature signal**
 TEC **Thermo switch**
 T/NTC **Temperature signal**

Glühzeitrelais Beschreibung
D

CARGO	Vor-glühzeit in sec. bei +20° C	Nachglühzeit		Temperatur messung		Besonderheit	CARGO	Vor-glühzeit in sec. bei +20° C	Nachglühzeit		Temperatur messung		Besonderheit	
		Mit	Ohne	Int.	Ext.				Mit	Ohne	Int.	Ext.		
160416	< 8		✓	✓			160442	< 9		✓	✓			Mit Fehlererkennung
160417	< 13		✓	✓			160443	< 9		✓	✓			Mit Fehlererkennung
160418	< 8	✓		✓			160444	< 9		✓	✓			Mit Fehlererkennung
160419	< 6	✓		✓			160445	< 9	✓			✓		Mit Fehlererkennung
160420	< 8	✓			✓		160446	< 9	✓			✓		Mit Fehlererkennung
160421	< 4	✓			✓		160447	< 9	✓			✓		Mit Fehlererkennung
160422	< 18		✓		✓		160448	< 9	✓			✓		Mit Fehlererkennung
160423	< 14		✓	✓			160449	< 7	✓		✓			
160424	< 8		✓	✓			160450	< 9		✓	✓			Mit Fehlererkennung
160425	< 9		✓	✓			160451	< 7	✓			✓		Getaktete Nachglühzeit
160426	< 7	✓		✓			160452							Tech. Spezifikationen auf Anfrage
160427	< 14	✓		✓			160453							Kontrolle über elek. Steuergerät
160428	< 8	✓		✓		Mit Nachglühunterbrechung	160454							
160429	< 13		✓	✓			160455							
160430	< 5	✓		✓			160456							
160431	< 10		✓	✓		Codierung an Stecker	160457							
160432	< 7	✓		✓		Mit Nachglühunterbrechung, getaktete Nachglühzeit	160458	< 12	✓			✓		
160433	< 9	✓			✓		160459							Kontrolle über elek. Steuergerät
160434	< 8	✓			✓		160460							Kontrolle über elek. Steuergerät
160435	< 12	✓		✓			160461							Kontrolle über elek. Steuergerät
160436	< 8	✓			✓	Mit Nachglühunterbrechung	160463	< 9	✓			✓		Mit Fehlererkennung
160438	< 10	✓				Getaktete Nachglühzeit	160464	< 5		✓		✓		
160439	< 5	✓		✓	✓		160469	< 5	✓		✓			
160440	< 9	✓		✓	✓	✓	160705	< 9	✓			✓		
160441	< 9		✓	✓		Mit Fehlererkennung	160706	< 9	✓			✓		
							160707	< 9	✓			✓		

Anschluss Beschreibung

15 *Plusanschluss hinter Zündschloss*
 30 *Dauerplusleitung, Batterie + (direkt)*
 31 *Masse oder B -*
 50 *Starteransteuerung (direkt)*
 Schaltrelais
 85 Wicklungsende (Masse)
 86 Wicklungseingang
 87 Ausgang
 87b 2. Ausgang
 A *Wicklungsende (Masse)*
 ALFB *Ausgangsleitung Glühkerze*
 B1 *Wicklungsanfang*
 B2 *Wicklungsanfang*
 LIMA und LIMA-Regler
 B+ Batterie +, LIMA
 CTN *Temperatursignal*

EVKS *Elektr. Kaltstartventil*
 G *Ausgangsleitung Glühkerze*
 L *Kontroll-Lampe*
 LA *Kontroll-Lampe*
 n.c. *Nicht belegt*
 PC *Drosselklappen-Positions-Signal*
 S *Drosselklappen-Positions-Signal*
 S1 *Ausgangsleitung Glühkerze*
 S2 *Ausgangsleitung Glühkerze*
 SB *Masse*
 T *Temperatursignal*
 TEC *Temperaturschalter*
 T/NTC *Temperatursignal*

F Description des Temporisateurs de Préchauffage

CARGO	Temps de Préchauffage en sec. à +20°C	Préchauffage		Mesure de température		Caractéristique
		Avec	Sans	Int.	Ext.	
160416	< 8		✓	✓		
160417	< 13		✓	✓		
160418	< 8	✓		✓		
160419	< 6	✓		✓		
160420	< 8	✓			✓	
160421	< 4	✓			✓	
160422	< 18		✓		✓	
160423	< 14		✓	✓		
160424	< 8		✓	✓		
160425	< 9		✓	✓		
160426	< 7	✓		✓		
160427	< 14	✓		✓		
160428	< 8	✓		✓		A/ arrêt automatique de postchauffage
160429	< 13		✓	✓		
160430	< 5	✓		✓		
160431	< 10		✓	✓		Broche à détrompeur
160432	< 7	✓		✓		Delai d'impuls. de post-chauffage
160433	< 9	✓			✓	
160434	< 8	✓			✓	
160435	< 12	✓		✓		
160436	< 8	✓			✓	A/ arrêt automatique de postchauffage
160438	< 10	✓				Delai d'impuls. de post-chauffage
160439	< 5	✓		✓	✓	
160440	< 9	✓		✓	✓	Delai d'impuls. de post-chauffage
160441	< 9		✓	✓		A/ détection de défaut
160442	< 9		✓	✓		A/ détection de défaut

CARGO	Temps de Préchauffage en sec. à +20°C	Préchauffage		Mesure de température		Caractéristique
		Avec	Sans	Int.	Ext.	
160443	< 9			✓	✓	A/ détection de défaut
160444	< 9			✓	✓	A/ détection de défaut
160445	< 9		✓		✓	A/ détection de défaut
160446	< 9		✓		✓	A/ détection de défaut
160447	< 9		✓		✓	A/ détection de défaut
160448	< 9		✓		✓	A/ détection de défaut
160449	< 7	✓			✓	
160450	< 9			✓	✓	A/ détection de défaut
160451	< 7	✓			✓	Delai d'impuls. de post-chauffage
160452						Spécifications techniques sur demande
160453						Contrôle par calculateur
160454						
160455						
160456						
160457						
160458	< 12	✓			✓	
160459						Contrôle par calculateur
160460						Contrôle par calculateur
160461						Contrôle par calculateur
160463	< 9	✓			✓	A/ détection de défaut
160464	< 5		✓		✓	
160469	< 5	✓			✓	
160705	< 9	✓			✓	
160706	< 9	✓			✓	
160707	< 9	✓			✓	

Déscription des Bornes

15 + Contact
 30 + Permanent
 31 Masse
 50 Démarrage
 Contacts
 85 1ère d'enroulement de relais (Masse)
 86 2ème d'enroulement de relais
 87 Sortie
 87b 2ème sortie
 A 1ère d'enroulement de relais (Masse)
 ALFB Sortie bougie de préchauffage
 B1 Début d'enroulement
 B2 Début d'enroulement
 Alternateur et régulateur
 B+ + Permanent
 CTN Signal de Température d'Eau

EVKSB Contact de position d'accélérateur sur pompe d'injection
 G Borne Bougie de Préchauffage
 L Borne Lampe Témoin
 LA Borne Lampe Témoin
 n.c. Pas de connexion
 PC Signal la position de l'axe d'accélérateur
 S Signal la position de l'axe d'accélérateur
 S1 Borne Bougie de Préchauffage
 S2 Borne Bougie de Préchauffage
 SB Masse
 T Borne Capteur Température d'Eau
 TEC Contacteur de Thermo-ventilateur
 T/NTC Borne Capteur Température d'Eau

Descrizione Relè Controllo Candelette
I

CARGO	Preris-calda- mento in sec. +20°C	Postris- caldamento		Misurazione temperatura		Particularità	CARGO	Preris- caldamento in sec. +20°C	Postris- caldamento		Misurazione temperatura		Particularità	
		Con	Senza	Int.	Est.				Con	Senza	Int.	Est.		
160416	< 8		✓	✓			160441	< 9		✓	✓			Con segnale errore
160417	< 13		✓	✓			160442	< 9		✓	✓			Con segnale errore
160418	< 8	✓		✓			160443	< 9		✓	✓			Con segnale errore
160419	< 6	✓		✓			160444	< 9		✓	✓			Con segnale errore
160420	< 8	✓			✓		160445	< 9	✓			✓		Con segnale errore
160421	< 4	✓			✓		160446	< 9	✓			✓		Con segnale errore
160422	< 18		✓		✓		160447	< 9	✓			✓		Con segnale errore
160423	< 14		✓	✓			160448	< 9	✓			✓		Con segnale errore
160424	< 8		✓	✓			160449	< 7	✓		✓			
160425	< 9		✓	✓			160450	< 9		✓	✓			Con segnale errore
160426	< 7	✓		✓			160451	< 7	✓			✓		Tempo di postris- caldamento tattico
160427	< 14	✓		✓			160452							Specifiche tecniche su richiesta
160428	< 8	✓		✓		Con interruzione postriscaldamento	160453							Controllo elettronico (ECU)
160429	< 13		✓	✓			160454							
160430	< 5	✓		✓			160455							
160431	< 10		✓	✓		Codifica alla spina	160456							
160432	< 7	✓		✓		Con interruzione postris- caldamento, tempo di postriscaldamento tattico	160457							
160433	< 9	✓			✓		160458	< 12	✓			✓		
160434	< 8	✓			✓		160459							Controllo elettronico (ECU)
160435	< 12	✓		✓			160460							Controllo elettronico (ECU)
160436	< 8	✓			✓	Con interruzione postriscaldamento	160461							Controllo elettronico (ECU)
160438	< 10	✓				Tempo di postriscaldamento tattico	160463	< 9	✓			✓		Con segnale errore
160439	< 5	✓		✓	✓		160464	< 5		✓		✓		
160440	< 9	✓		✓	✓	Tempo di postris- caldamento tattico	160469	< 5	✓			✓		

Descrizione Terminali

15 Accensione / Sottochiave

30 Ingresso dal positivo

31 Uscita negativo o massa

50 Starter

Relè interruttori

85 Fine avvolgimento (Massa)

86 Inizio avvolgimento

87 Uscita **contatto normalmente aperto**

87b 2a Uscita.

A **Fine avvolgimento** (Massa)

ALFB **Uscita candeletta**

B1 **Inizio avvolgimento**

B2 **Inizio avvolgimento**

Generatore e regolatore generatore

B+ Batteria +, generatore

CTN **Segnale temperatura**

EVKSB..... Valvola elettrica partenza a freddo

G Uscita candeletta

L Lampada di controllo

LA Lampada di controllo

n.c. Non connesso

PC Segnale posizione farfalla

S Segnale posizione farfalla

S1 Uscita candeletta

S2 Uscita candeletta

SB Massa

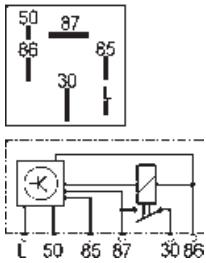
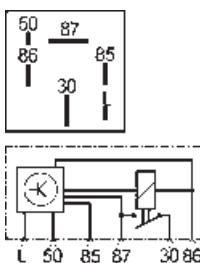
T Segnale temperatura

TEC Interruttore temperatura

T/NTC Segnale temperatura

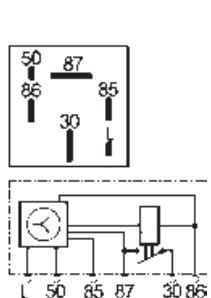
Glow Plug Controller and Terminal
Designations page 26 - 29

Glow Plug Controllers



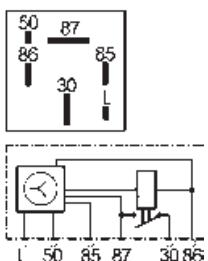
160416

Replacing 1238565.
Servicing Ford, Opel, Vauxhall.
12 V.
6 terminals.



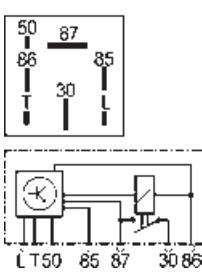
160417

Replacing 5000 409614.
Servicing Renault.
12 V.
6 terminals.



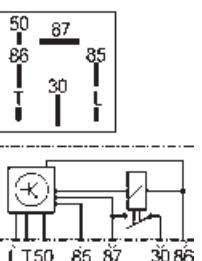
160418

Replacing 6132248.
Servicing Ford.
12 V.
Post heating type.
6 terminals.



160420

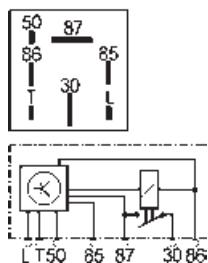
Replacing 0250 201 933, 0333 402 512, 171911261A.
Servicing Audi, Seat, VW.
12 V.
Post heating type.
7 terminals.



160421

Replacing 0281 003 099, 191911261A.
Servicing Audi, VW.
12 V.
Post heating type.
7 terminals.

Glow Plug Controllers

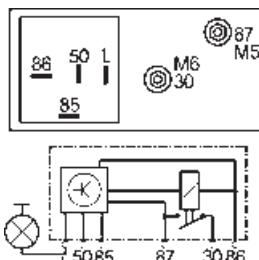


160422

Replacing 321 191 261C.
Servicing VW.

12 V.

7 terminals.

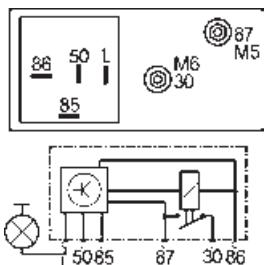


160424

Replacing 0250 201 952, 0333 402 509, 598111.
Servicing Citroen, Fiat, Iveco, Nissan, Peugeot, Renault, Rover.

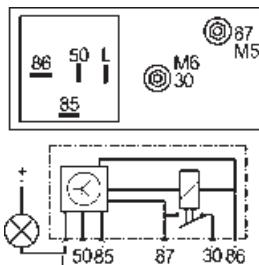
12 V.

6 terminals.



160423

Replacing 0333 402 501, 5981.10.
Servicing Alfa Romeo, Citroen, Fiat, Peugeot.
12 V.
6 terminals.

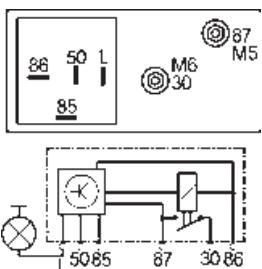


160425

Replacing 0333 402 513, 0333 402 524, 7700 757 776.
Servicing Alfa Romeo, Renault.
12 V.
6 terminals.

Glow Plug Controller and Terminal
Designations page 26 - 29

Glow Plug Controllers



160426

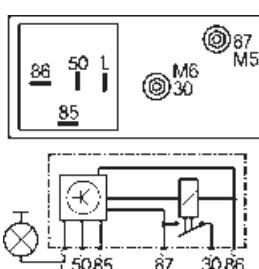
Replacing 46428175, 59737540, 75896560, 76647630.

Servicing Fiat.

12 V.

Post heating type.

6 terminals.



160428

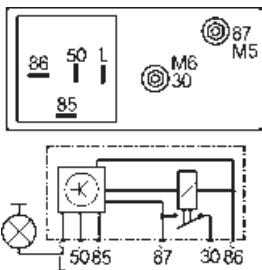
Replacing 0333 402 520, 162064501000, 4686062.

Servicing Alfa Romeo, Chrysler.

12 V.

Post heating type.

6 terminals.



160427

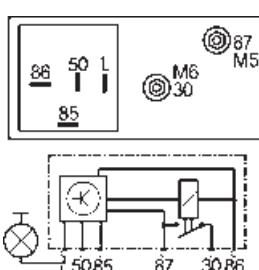
Replacing 5946920, 061830058020.

Servicing Fiat, Seat.

12 V.

Post heating type.

6 terminals.



160429

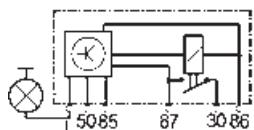
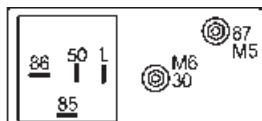
Replacing 7700 733 390.

Servicing Renault.

12 V.

6 terminals.

Glow Plug Controllers



160430

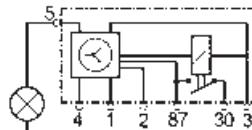
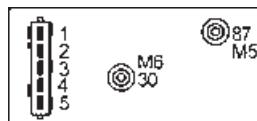
Replacing 0333 402 525.

Servicing Leyland, Rover

12 V.

Post heating type.

6 terminals.



160432

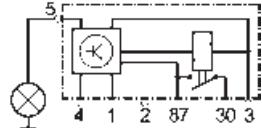
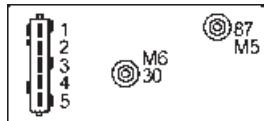
Replacing 0281 003 005, 598119, 961416778.

Servicing Fiat, Peugeot.

12 V.

Post heating type.

7 terminals.



1=85/31 2=n.c. 3=86/15 4=50 5=Controllamp

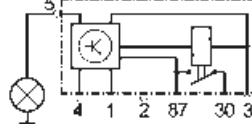
160431

Replacing 598116, 9611751080, 245609.

Servicing Citroen, Renault.

12 V.

7 terminals.



1=85/31 2=T/NTC 3=86/15 4=50 5=Controllamp

160433

Replacing 46414088, 7735921.

Servicing Citroen, Fiat.

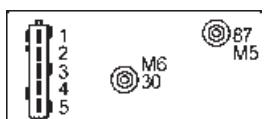
12 V.

Post heating type.

7 terminals.

Glow Plug Controller and Terminal
Designations page 26 - 29

Glow Plug Controllers



1=85/31 2=T/NTC 3=86/15 4=50 5=Controllamp

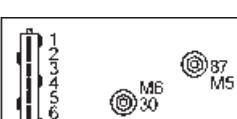
160434

Replacing 0281 003 006, 0281 003 012, 598124.
Servicing Citroen, Fiat, Peugeot.

12 V.

Post heating type.

7 terminals.



1=85/31 2=T/NTC 3=86/15 4=50 5=Controllamp 6=n.c. 7=S

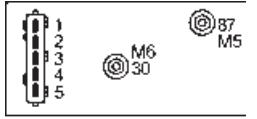
160436

Replacing 0281 003 009, 5981121.
Servicing Citroen, Rover.

12 V.

Post heating type.

9 terminals.



1=85/31 2=n.c. 3=86/15 4=50 5=Controllamp

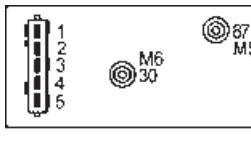
160435

Replacing 43423043, 46423043.
Servicing Citroen, Fiat, Lancia.

12 V.

Post heating type.

7 terminals.

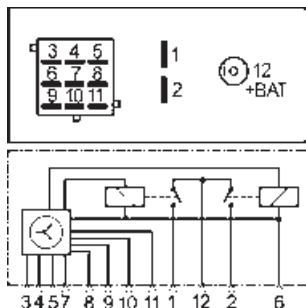


1=85/31 2=T/NTC 3=86/15 4=50 5=Controllamp

160453

Replacing 5981.31.
Servicing Citroen, Peugeot.
12 V.
Post heating type.
7 terminals.

Glow Plug Controllers



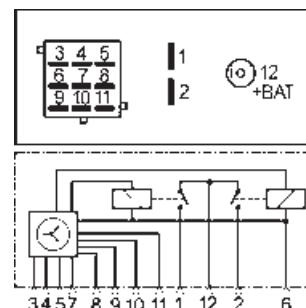
1=87(plug 1+2) 2=87b(plug 3+4) 3=n.c. 4=PC 5=T/NTC
 6=86/15 7=50 8=Controllamp 9=EVKSB 10=85/31 11=Clim 12=30

160438

Replacing HDC 124, 7700790579, 7700851443.
 Servicing Renault.

12 V.

Post heating type.
 12 terminals.



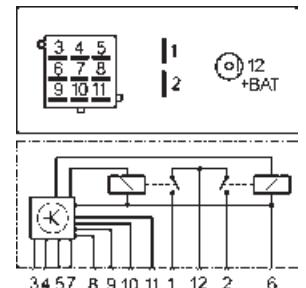
1=87(plug 1+2) 2=87b(plug 3+4) 3=S2 4=PC 5=CTN
 6=86/15 7=50 8=Controllamp 9=S1 10=85/31 11=Clim 12=30

160440

Replacing 7700869 319.
 Servicing Renault.

12 V.

Post heating type.
 12 terminals.



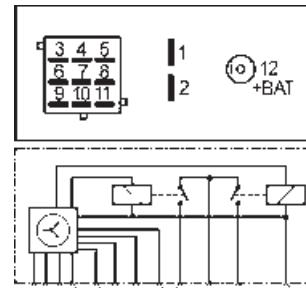
1=87(plug 1+2) 2=87b(plug 3+4) 3=ALFB 4=PC 5=T/NTC
 6=86/15 7=50 8=Controllamp 9=EVKSB 10=85/31 11=Clim 12=30

160439

Replacing 7700 863 626, 7700 102 036.
 Servicing Renault.

12 V.

Post heating type.
 12 terminals.



1=87(plug 1+2) 2=87b(plug 3+4) 3=ALFB 4=PC 5=T/NTC 6=86/15
 7=50 8=Controllamp 9=EVKSB 10=85/31 11=Clim 12=30/+BAT.

160452

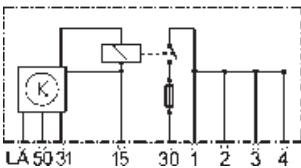
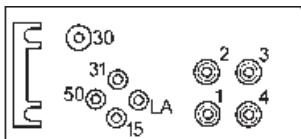
Replacing 7700 870 715, 7700870 715/A, 7700 870 715/B.
 Servicing Renault.

12 V.

12 terminals.

Glow Plug Controller and Terminal
Designations page 26 - 59

Glow Plug Controllers

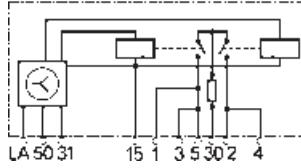
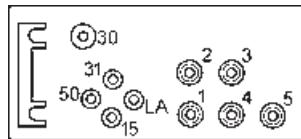


160441

Replacing 0333 402 505, 0333 402 506, 002 545 0532.
Servicing Mercedes.

12 V.

9 terminals.

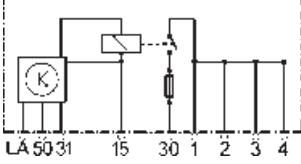
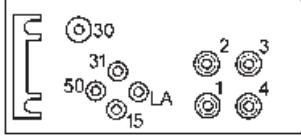


160443

Replacing 0333 402 507, 0333 402 508, 001 545 9832.
Servicing Mercedes.

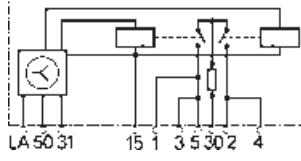
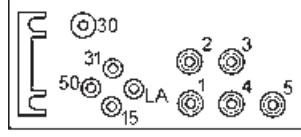
12 V.

10 terminals.



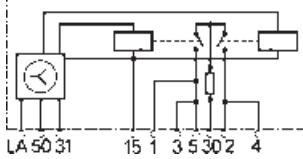
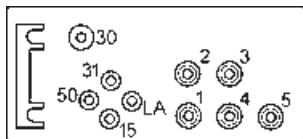
160442

As Cargo 160441, but w/ fixing on opposite side.



160450

As Cargo 160443, but w/ fixing on opposite side.

Glow Plug Controllers

160449

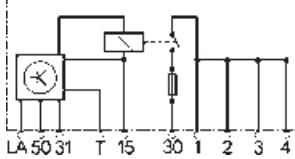
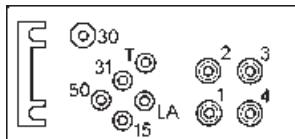
Replacing 0281 003 096, 025 545 5432.

Servicing Mercedes.

12 V. Post heating type.

Exchange Cargo 160441 and 160443 in connection with change to post heating glow plug.

10 terminals.


160445

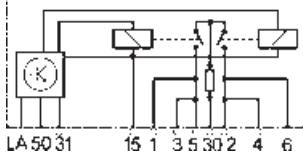
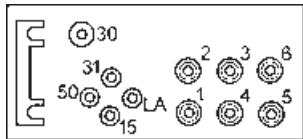
Replacing 007 545 9832.

Servicing Mercedes.

12 V.

Post heating type.

10 terminals.

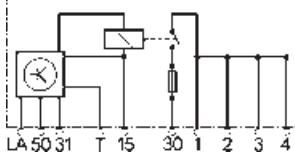
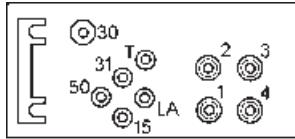

160444

Replacing 005 452 4532, 003 545 2532.

Servicing Mercedes.

12 V.

11 terminals.


160446

Replacing 008 545 0032.

Servicing Mercedes.

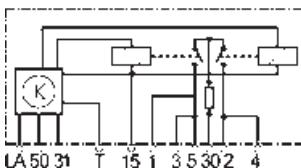
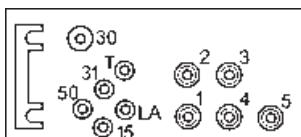
12 V.

Post heating type.

10 terminals.

Glow Plug Controller and Terminal
Designations page 26 - 29

Glow Plug Controllers



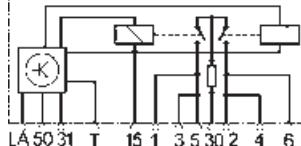
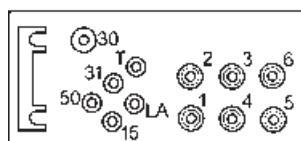
160447

Replacing 007 545 9932.

Servicing Mercedes.

12 V.

11 terminals.



160448

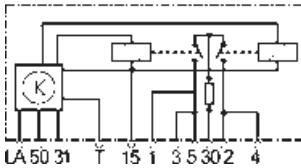
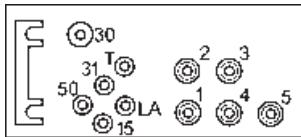
Replacing 007 545 1632.

Servicing Mercedes.

12 V.

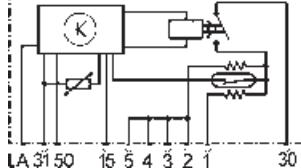
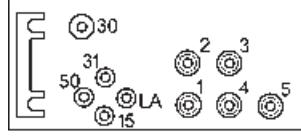
Post heating type.

12 terminals.



160446

As Cargo 160447, but w/ fixing on the opposite side.
12 V.



160455

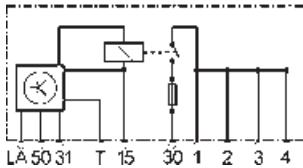
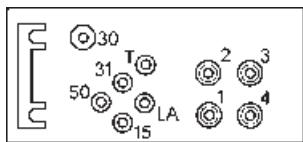
Replacing 003 545 1032.

Servicing Mercedes.

12 V.

10 terminals.

Glow Plug Controllers

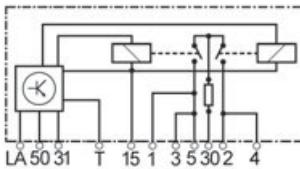
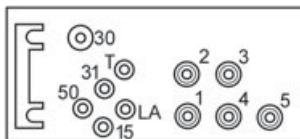

160705

Replacing 012 545 8832

Servicing Mercedes

12 V.

10 terminals

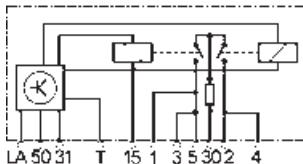
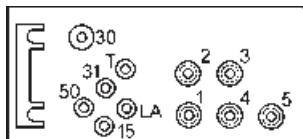

160707

Replacing 018 545 7232

Servicing Mercedes

12 V.

11 terminals

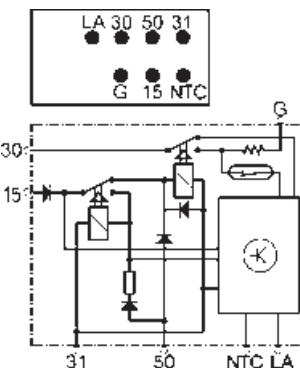
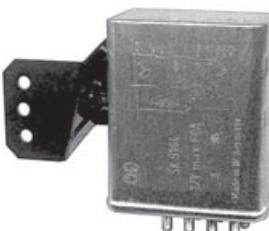

160706

Replacing 012 545 8932

Servicing Mercedes

12 V.

11 terminals


160454

Replacing 001 545 2232.

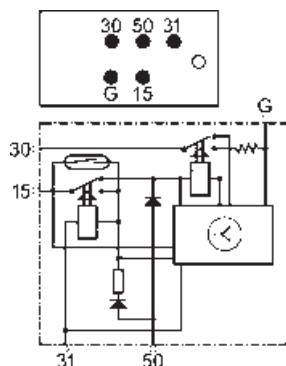
Servicing Mercedes.

12 V.

7 terminals.

Glow Plug Controller and Terminal
Designations page 26 - 29

Glow Plug Controllers



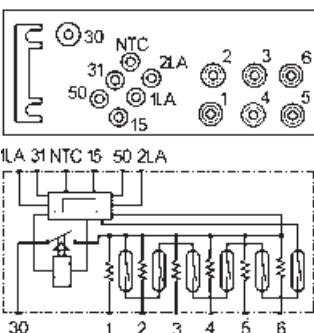
160456

Replacing 001 545 1832.

Servicing Mercedes.

12 V.

5 terminals.



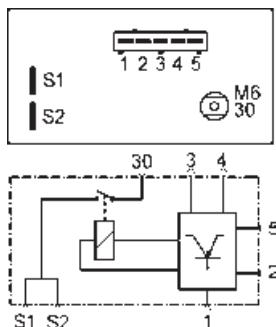
160457

Replacing 1 285 085.

Servicing BMW.

12 V.

13 terminals.



1=85/31 2=T/NTC 3=86/15 4=50 5=Controllamp
M6=30 S1=87 S2=87a

160451

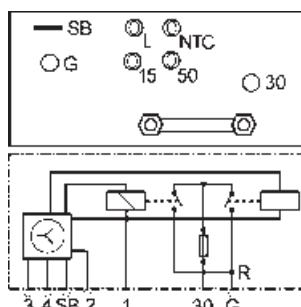
Replacing 7700 866 727.

Servicing Renault.

12 V.

Post heating type.

8 terminals.



1=L 2=NTC 3=50 4=15 SB=31 G=87

160458

Replacing 1363438, 9162987.

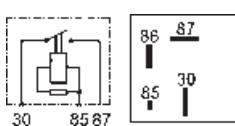
Servicing Volvo.

12 V.

7 terminals.

Post heating type.

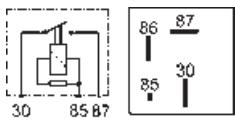
Glow Plug Controllers


160459
Replacing 357 911 253A.

Servicing VW.

12 V. 4 terminals.

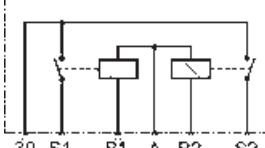
UWD type.


160460
Replacing 357 911 253.

Servicing VW.

12 V. 4 terminals

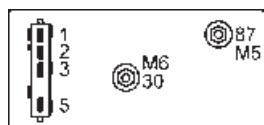
For engines w/ electronic diesel control (EDC).


A=85/31 B1=86 B2=86a S1=87 S2=87a M6=30/+Bat.
160461
Replacing 7700 107 794, 7700 867 558C, 30872555.

Servicing Renault, Volvo.

12 V.

6 terminals.

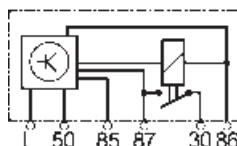
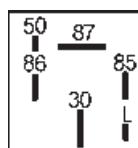

160464
Replacing 46438456.

Servicing Alfa Romeo, Citroen, Fiat, Lancia, Peugeot, Renault.

For engines w/ electronic diesel control (EDC).

12 V.

6 terminals.


160469
Replacing 93BB 6M092AA, BA.

Servicing Ford

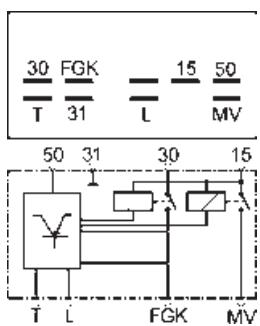
12 V.

6 terminals.

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Cross Reference List page 71***

Glow Plug Controller- and Terminal
Designations page 26 - 29

Glow Plug Controllers



160462

Replacing 98 411 034, 99 484 736.

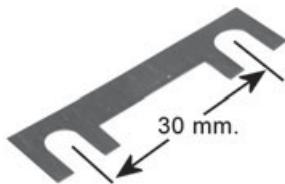
Servicing Iveco.

12 V.

9 terminals.

For flame start system.

Fuses



Strip type.

Small size.

DIN 72581.

Std pkg 10

Amp.

191184	A	30
191185	A	40
191186	A	50
191187	A	60
191188	A	80
191189	A	100
192338	.....	150



ASSORTMENTS

SORTIMENTE

ASSORTIMENTS

ASSORTIMENTI

PART 11

3rd Edition



ISO/TS 16949:2002 certified supplier

GB

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F

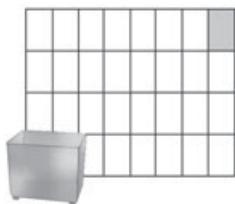
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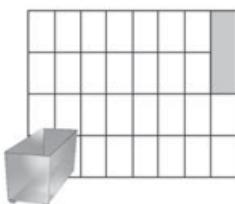
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Contenuto

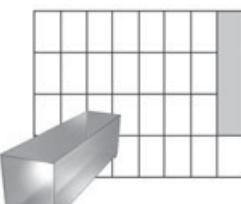
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811004	Micro Relè	46		
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Assortment Box and Inserts**200663** Std pkg 6Profi Service Case, empty.
Can be divided using inserts.
Dim.: 340 x 265 x 57 mm.
Polypropylene (Unbreakable).**INSERTS FOR
ASSORTMENT BOXES**
**Polypropylene
(Unbreakable)****200664** Std pkg 96

Dim.: 55 x 40 x 45 mm.

**200665** Std pkg 48

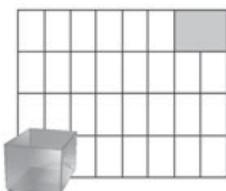
Dim.: 110 x 40 x 45 mm.

**200666** Std pkg 30

Dim.: 165 x 40 x 45 mm.

**200667** Std pkg 24

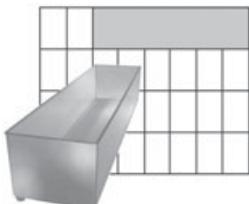
Dim.: 220 x 40 x 45 mm.

**200668** Std pkg 48

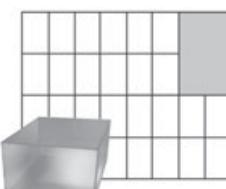
Dim.: 55 x 80 x 45 mm.

**200669** Std pkg 24

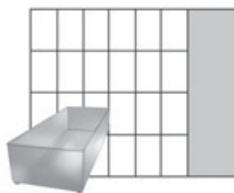
Dim.: 55 x 160 x 45 mm.

**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.

PART 11 ASSORTMENTS



Mini Relays 12 V.

	Qty.
160080	30 Amp. 4 terminals
160081	20/30 Amp. 4 terminals
160083	30 Amp. 4 terminals
160155	15 Amp. 4 terminals
160168	2 x 15 Amp. 5 terminals
160239	70 Amp. 4 terminals
160265	30 Amp. 5 terminals
160270	20/30 Amp. 5 terminals
160282	40 Amp. 4 terminals
160308	20/30 Amp. 5 terminals
160403	15/40 Amp. 5 terminals
160468	70 Amp. 4 terminals

811001



Mini Relays 12 - 24 V.

	Qty.
160080	12 V. 30 Amp. 4 terminals
160081	12 V. 20/30 Amp. 5 terminals ..
160082	24 V. 20 Amp. 4 terminals
160083	12 V. 30 Amp. 4 terminals
160155	12 V. 15 Amp. w/ fuse 4 term....
160168	12 V. 2 x 15 Amp. 5 terminals ..
160169	24 V. 2 x 10 Amp. 5 terminals ..
160215	24 V. 20 Amp. 4 terminals
160216	24 V. 10/20 Amp. 5 terminals ..
160239	12 V. 70 Amp. 4 terminals
160240	24 V. 40 Amp. 4 terminals
160265	12 V. 30 Amp. 5 terminals
160266	24 V. 20 Amp. 5 terminals
160270	12 V. 20/30 Amp. 5 terminals ..

811002



Mini Relays 24 V.

	Qty.
160082	20 Amp. 4 terminals
160215	20 Amp. 4 terminals
160307	20 Amp. 4 terminals
160266	20 Amp. 5 terminals
160240	40 Amp. 4 terminals
160272	70 Amp. 4 terminals
160169	2x10 Amp. 5 terminals
160268	2x20 Amp. 2x4 terminals
160216	10/20 Amp. 4 terminals
160271	10/20 Amp. 5 terminals
160317	10/20 Amp. 5 terminals
160337	10/22 Amp. 5 terminals

811003



Micro Relays

	Qty.
160363	25 Amp. 4 terminals
160364	Normally open w/ diode
160365	Change over 12 V. 10/20 Amp. ..
160366	Change over w/ diode
160367	Change over w/ resistor
160368	Change over 24 V. 4/10 Amp. ..
160521	5/10 Amp. 5 terminals
191089	Terminal 4.7 mm. 0.5-1.0 mm ² . 100
190868	Terminal 6.3 mm. 0.5-1.0 mm ² . 100
190252	Terminal 6.3 mm. 1.0-2.5 mm ² . 100
191752	Relay multi plug

✓ 811004



O.E.M. names and numbers are used for reference purposes only.

Flasher Units 12 V.
811005

	Qty.	
160115	1	138 Watt. 2 terminals
160116	1	138 Watt. 3 terminals
160242	1	2/4 x 21 Watt. 3 terminals
160243	1	2/4 x 21 Watt. 4 terminals
160244	1	2 + 1/6 x 21 Watt. 4 terminals
160263	1	2 + 1 + 1/8 x 21 Watt. 6 term....
160305	1	2 + 1/6 x 21 Watt. 4 bull. term... .
160312	1	2/4 x 21 Watt. 3 terminals
160314	1	2 + 1/6 x 21 Watt. 5 terminals
160315	1	2/4 x 21 Watt. 3 terminals
160341	1	180 Watt. 3 terminals
160402	1	2 + 1/6 x 21 Watt. 4+2 term....
160474	1	2/4 x 21 Watt. 3 terminals


Special Fuses
804032

Type	Amp.	Qty.	Type	Amp.	Qty.		
191152	..... Pink	30	5	191251	..... Orange	40	5
191153	..... Green	40	5	191252	..... Red	50	5
191154	..... Yellow	60	5	191253	..... Blue	60	5
191155	..... Pink	30	5	191254	..... Beige	70	5
191156	..... Yellow	60	5	191255	..... Natural	80	5
191157	..... Black	80	5	191256	..... Violet	100	5
191184	..... Strip	30	10				
191185	..... Strip	40	10				
191186	..... Strip	50	10				
191187	..... Strip	60	10				
191188 Strip	80	10				
191189 Strip	100	10				
191249 Yellow	20	5				
191250 Green	30	5				



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160080	811001	46
<i>and</i>	811002	46
160081	811001	46
<i>and</i>	811002	46
160082	811002	46
<i>and</i>	811003	46
160083	811001	46
<i>and</i>	811002	46
160115	811005	47
160116	811005	47
160155	811001	46
<i>and</i>	811002	46
160168	811001	46
<i>and</i>	811002	46
160169	811002	46
<i>and</i>	811003	46
160215	811002	46
<i>and</i>	811003	46
160216	811002	46
<i>and</i>	811003	46
160239	811001	46
<i>and</i>	811002	46
160240	811002	46
<i>and</i>	811003	46
160242	811005	47
160243	811005	47
160244	811005	47
160263	811005	47
160265	811001	46
<i>and</i>	811002	46
160266	811002	46
<i>and</i>	811003	46
160268	811003	46
160270	811001	46
<i>and</i>	811002	46
160271	811002	46
<i>and</i>	811003	46
160272	811002	46
<i>and</i>	811003	46
160282	811001	46
<i>and</i>	811002	46
160305	811005	47
160307	811002	46
<i>and</i>	811003	46
160308	811001	46
160311	811002	46
160312	811005	47
160314	811005	47
160315	811005	47
160316	811002	46
160317	811002	46
<i>and</i>	811003	46
160337	811003	46
160341	811005	47
160363	811004	46
160364	811004	46
160365	811004	46
160366	811004	46
160367	811004	46
160368	811004	46
160402	811005	47
160403	811001	46
160468	811001	46
160473	811002	46
160474	811005	47
160475	811005	47
160479	811002	46
160480	811002	46

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160521	811004	46
190252	811004	46
190868	811004	46
191089	811004	46
191152	804032	47
191153	804032	47
191154	804032	47
191155	804032	47
191156	804032	47
191157	804032	47
191184	804032	47
191185	804032	47
191186	804032	47
191187	804032	47
191188	804032	47
191189	804032	47
191249	804032	47
191250	804032	47
191251	804032	47
191252	804032	47
191253	804032	47
191254	804032	47
191255	804032	47
191256	804032	47
191752	811004	46

Cargo Assortment Page



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ANWENDUNGS- LISTEN

LISTE D'APPLICATION

LISTA APPLICAZIONI

PART 11

3rd Edition



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Relè Pompa Carburante 51

Fuel Pump Relays

Model	Eng.	Type	Date	Cargo
ALFA ROMEO				
Alfa 75 1.8 Turbo	AR06134	162.B1C,D,G	02.86 - 01.90	160353
Alfa 75 1.8 i.e. Turbo	AR06158	162.B1E	02.86 - 01.90	160353
Alfa 164 2.0 Turbo	AR06476	164	01.88 - 09.92	160354
AUDI				
Coupe 1.8 Coupe	DZ		08.89 - 07.91	160372
Coupe 1.8 GT	DS, JV, JN		01.85 - 08.88	160372
Coupe 1.8 GT	SF		04.86 - 08.88	160372
Coupe 1.8 GT	PV		08.86 - 10.87	160372
Coupe 1.8 GT	DZ		08.86 - 08.88	160372
Coupe 2.0	JS, HP		09.83 - 07.86	160373
Coupe 2.0	SK		03.86 - 04.88	160373
Coupe 2.0	ABK, ADD, 3A		05.89 - 12.96	160372
Coupe 2.2 Quattro	KV		12.84 - 12.87	160374
Coupe 2.2 Quattro	KV		11.88 - 07.91	160373
Coupe 2.0 20V Quattro	NM		08.89 - 07.91	160373
80 1.8	SD		09.86 - 07.88	160372
80 1.8	RU		05.86 - 07.90	160372
80 1.8 Quattro	SD		09.86 - 08.90	160372
80 1.8 E	DZ		06.86 - 08.91	160372
80 1.8 E Quattro	DZ		05.86 - 07.91	160372
80 1.8 S	SF		09.86 - 12.90	160372
80 1.8 S	JN, NE, PM		09.86 - 10.91	160372
80 1.8 S Quattro	SF		09.86 - 07.90	160372
80 1.8 S Quattro	JN, NE, PM		09.86 - 09.91	160372
80 1.8 GTE	PV		05.84 - 05.86	160373
80 1.8 GTE	PV		08.85 - 08.86	160375
80 1.8 GTE Quattro	PV		08.85 - 08.86	160372
80 2.0, Quattro	AAD, 3A		10.90 - 08.91	160374
80 2.0 E, Quattro	3A		08.88 - 10.90	160374
90 2.0	PS		07.88 - 09.91	160374
90 2.0	JS		10.84 - 03.87	160374
90 2.2 E, Quattro	KV		04.87 - 09.91	160373
100 1.8, Avant	DR, RS		08.82 - 08.86	160372
100 1.8, Avant	DS, JW, NP		08.83 - 08.86	160372
100 1.8, Avant	SH		02.86 - 08.86	160372
100 1.8, Avant	DR, RS		09.86 - 12.87	160373
100 1.8, Avant	SH		09.86 - 07.88	160373
100 1.8, Avant	DS, JW, NP		09.86 - 07.89	160373
100 1.8 Quattro	JW, NP, SH		09.86 - 07.87	160373
100 1.8 Quattro	JW, NP, SH		08.87 - 12.87	160372
100 1.8 Quattro Avant	JW		04.85 - 08.86	160372
100 1.8 Quattro Avant	NP, PH, 4B		08.85 - 07.88	160372
100 1.8 Quattro Avant	JW		09.86 - 07.89	160373
100 1.8 Quattro Avant	JW, NP, SH		01.88 - 07.88	160372
100 2.0	KP		08.84 - 12.87	160373
100 2.0	SL		08.86 - 11.87	160373
100 2.0	RT		01.88 - 11.90	160374
100 2.0 E Avant	KP		01.85 - 12.87	160373
100 2.0 E Avant	RT		01.88 - 11.90	160374
100 2.1, Avant	KF, WC		08.82 - 07.84	160373
100 2.2, Avant, Quattro, Quattro Avant	KU		06.89 - 11.90	160374
200 2.2 5 E	WC		10.79 - 09.82	160373
200 2.2 5 E	WC		10.79 - 09.82	160374
200 2.2 Turbo	WJ		10.79 - 08.82	160373
BMW				
320 2.0 i	M20B20	E30	09.82 - 12.85	160352
320 2.0 i L-Jetronic, Motronic	M20B20	E30	12.85 - 06.91	160352
320 2.0 i Touring	M20B20	E30	01.88 - 12.91	160352
320 2.0 i Cabriolet	M20B20	E30	04.86 - 10.93	160352
525 2.5 i	M30B25	E28	06.81 - 12.87	160352
528 2.8 i	M30B28	E28	06.81 - 12.87	160352

PART 11

APPLICATIONS LIST



Fuel Pump Relays

Model	Eng.	Type	Date	Cargo
CITROEN				
BX 16 1.6	180Z		03.86 - 10.89	160354
BX 19 1.9 Break	DFZ (XU9J1)		07.86 - 12.94	160354
CX 25 2.5 GTi w/ Cat.	M25-668		05.86 - 12.92	160353
CX 25 2.5 GTi Turbo	M25-662		08.85 - 12.92	160353
CX 25 2.5 GTi Turbo w/ Cat.	M25-667		09.86 - 12.92	160353
CX 25 2.5 TRI	M25-659		05.85 - 12.92	160353
CX 25 2.5 TRI Break	M25-659		08.85 - 12.92	160353
CX 25 2.5 Break w/ Cat.	M25-668		05.86 - 12.92	160353
Visa 1.6 GTi	180A (XU5J)		01.85 - 06.86	160354
Visa 1.6 GTi	B6D		06.85 - 03.91	160354
XM 2.0 Break	XU102C, RDZ (XU10MZ)		11.91 - 04.94	160354
XM 2.0 Turbo	RGX (XU10J2TE)		05.94 -	160354
XM 2.0 Turbo Break	RGX (XU10J2TE), RGY (XU10J2TE/Z)		05.94 -	160354
XM 2.0 Turbo Break	RGY (XU10J2TE/Z)		09.92 - 04.94	160354
XM 2.0 i	RFZ (XU10J2)		11.91 - 04.94	160354
XM 2.0 i Turbo	RGY (XU10J2TE/Z)		09.92 - 06.94	160354
FERRARI				
Mondial 3.4 T, Cabriolet	F119D		03.89 - 12.93	160353
FIAT				
Croma 2.0 16V Automatic	154E1.000		08.92 - 08.96	160353
Croma 2.0 i.e. Turbo	834C.146		11.86 - 11.88	160354
Croma 2000 CHT	154A1.000	154AC	12.85 - 02.89	160353
Croma 2000 i.e.	834B.048		03.86 - 09.90	160353
Croma 2000 i.e.	834B.000		03.87 - 09.92	160353
Croma 2000 i.e., Turbo	834B.146, 154C3.046		10.87 - 08.96	160353
Croma 2000 i.e. Turbo	154A2.000		12.85 - 06.90	160353
Uno 1.3 i.e. Turbo	146A2.000		04.85 - 08.89	160354
Uno 1.3 i.e. Turbo	146A2.246	146	09.89 - 03.91	160353
Uno 1.3 i.e. Turbo (73kw)	146A2.146		10.87 - 09.89	160353
Uno 1.3 i.e. Turbo (74kw)	146A2.246	146	04.89 - 03.91	160353
Uno 1.4 i.e. Turbo	146A8.046		10.90 - 09.93	160353
FORD				
Escort 1.6, Stationcar	LUJ, LUK		07.90 - 08.92	160350
Escort 1.6, Cabriolet, Stationcar	LJF	ALL, AVL, GAL	07.90 - 12.92	160350
Escort 1.6 Turbo RS	LNB	AF, AWF, ABFT	01.86 - 07.90	160350
Escort 1.6 16V, 4x4, Stationcar	L1E	GAL, AAL, ABL, ANL	01.95 -	160350
Escort 1.6 16V XR3i Cabriolet	L1E		02.95 -	160350
Escort 1.6 16V XR3i Cabriolet	L1H	ALL	02.95 -	160350
Escort 1.6 16V XR3i Cabriolet	L1E	ALL	12.92 - 01.95	160350
Escort 1.6 XR3i	LRB, LR2		01.86 - 08.89	160350
Escort 1.6 XR3i Cabriolet	LRB, LR2	ALF	01.86 - 07.90	160350
Escort 1.6 i	L1E, L1K	GAL	08.93 - 01.95	160350
Escort 1.6 i	L1E, L1K	GAL, AFL	01.95 -	160350
Escort 1.6 i Cabriolet, Stationcar	L4B	ALF, AWF, AVF	01.86 - 07.90	160350
Escort 1.6 i 16V	L1E	GAL	09.92 - 01.95	160350
Escort 1.6 i 16V	L1H		01.94 - 01.95	160350
Escort 1.6 i 16V Stationcar	L1E	GAL	09.92 - 01.95	160350
Escort 1.6 i 16V Cabriolet, Stationcar	L1H	ALL	01.94 - 01.95	160350
Escort 1.8 16V	RKC	GAL, AAL, ABL, AFL	01.95 -	160350
Escort 1.8 16V Stationcar	RDA	GAL, AVL	02.92 - 12.92	160350
Escort 1.8 16V Stationcar	RKC	GAL, ANL	01.95 -	160350
Escort 1.8 16V XR3i Cabriolet	RDA, RQB	GAL	02.92 - 12.92	160350
Escort 1.8 16V XR3i 4X4	RDA, RQB		08.93 - 01.95	160350
Escort 1.8 16V XR3i Cabriolet	RKC	ALL	10.95 -	160350
Escort 1.8 i 16V	RDA	GAL	09.92 - 01.95	160350
Escort 1.8 i 16V Stationcar	RDA, RQB	GAL	01.93 - 01.95	160350
Orion 1.6 i	L4B		03.86 - 07.90	160350
Orion 1.6 i	LRB		03.86 - 07.90	160350
Orion 1.6 i	LJF	GAL	07.90 - 09.92	160350
Orion 1.6 i 16V	L1E, L1K	GAL	07.92 - 12.93	160350
Orion 1.8 i 16V	RQB		01.92 - 12.93	160350
Orion 1.8 i 16V	RDA	GAL	02.92 - 12.93	160350

O.E.M. names and numbers are used for reference purposes only.

Fuel Pump Relays

Model	Eng.	Type	Date	Cargo
Scorpio 1.8	REC		04.85 - 02.92	160348
Scorpio 2.0	NEL, N8D		04.85 - 08.89	160348
Scorpio 2.0	N9D		05.89 - 09.94	160348
Scorpio 2.0 i	NRA, NRI		04.85 - 02.92	160348
Scorpio 2.0 i	NRC		10.85 - 12.90	160348
Scorpio 2.0 i, Stationcar	N9D, N9F	GGE	05.89 - 09.94	160348
Scorpio 2.0 i	NRA, NRI, N9F		02.92 - 09.94	160348
Scorpio 2.4 i	ARC		09.86 - 09.88	160348
Scorpio 2.4 i	ARD		10.88 - 02.92	160348
Scorpio 2.4 i	ARDV6EFIHC		10.88 - 02.92	160348
Scorpio 2.4 i Stationcar	ARD	GGE	09.91 - 09.94	160348
Scorpio 2.8 i, 4x4	PRE		10.85 - 11.86	160348
Scorpio 2.9 24V Stationcar	BOA		08.93 - 09.94	160348
Scorpio 2.9 i	BRC, BRD, BRE, BRF		09.86 - 09.94	160348
Scorpio 2.9 i	BRD, BRE, BRF		09.86 - 12.94	160348
Scorpio 2.9 i	BRE		10.87 - 02.92	160348
Scorpio 2.9 i Stationcar	BRD, BRE, BRF	GGE	09.91 - 09.94	160348
Scorpio 2.9 i 4x4	BRD, BRE, BRF		05.88 - 02.93	160348
Scorpio 2.9 i 4x4, Stationcar	BRD, BRE, BRF	GGE	05.88 - 02.93	160348
Scorpio 2.9 i 24V	BOA		04.91 - 09.94	160348
Sierra 1.6 i Hatchback, Stationcar	L6B	BNG, GBC, GBG	10.89 - 02.93	160350
Sierra 2.0 4x4	N9C	GBG, BG4	01.90 - 02.93	160348
Sierra 2.0 4x4 Stationcar	N9C	BNG	02.90 - 02.93	160348
Sierra 2.0 16V Cosworth 4x4 Hatchback	N5C, N5D	GBC, GBG	01.90 - 02.93	160348
Sierra 2.0 i	NEJ, NE5, N4A, N4B, N4I	GBG, GB4	01.87 - 01.89	160350
Sierra 2.0 i	N4A, N4B, N4I		02.89 - 02.93	160348
Sierra 2.0 i	NEJ, NE5	GBG, GB4	02.89 - 12.89	160348
Sierra 2.0 i	N9C		01.90 - 02.93	160348
Sierra 2.0 i w/o A/C	N9C		01.90 - 02.93	160350
Sierra 2.0 i Stationcar	NEJ, NE5, N4A, N4B, N4I	BNG	01.87 - 01.89	160350
Sierra 2.0 i Stationcar	NEJ, NE5, N4A, N4B, N4I	BNG	02.89 - 02.93	160348
Sierra 2.0 i Stationcar	N9C	BNG	05.89 - 02.93	160348
Sierra 2.0 i Hatchback	NRB, NR2	GBC	03.85 - 12.86	160350
Sierra 2.0 i Hatchback	NEJ, NE5, N4A, N4B, N4I	GBC, GBG	01.87 - 01.89	160350
Sierra 2.0 i Hatchback	NEJ, NE5, N4A, N4B, N4I	GBC, GBG	02.89 - 02.93	160348
Sierra 2.0 i Hatchback	N9B, N9C	GBC, GBG	06.89 - 02.93	160348
Sierra 2.8 XR4i Stationcar	PR5, PR6	BNC	08.82 - 12.86	160348
Sierra 2.8 i XR 4x4 Hatchback	PRG	GBC, GBG	01.87 - 08.88	160348
Sierra 2.9 Stationcar	B4B, B4C	BNG	08.88 - 02.93	160348
Sierra 2.9 4x4	B4B, B4C	GBG, BG4	08.88 - 02.93	160350
Sierra 2.9 4x4 Stationcar	B4B, B4C		08.88 - 02.93	160348
Sierra 2.9 i	B4B, B4C		08.88 - 02.93	160348
Sierra 2.9 i Hatchback	B4B, B4C		08.88 - 02.93	160348
Sierra 2.9 i XR 4x4 Hatchback	B4A, B4B, B4C		08.88 - 02.93	160348
LANCIA				
Thema 2.0 16V	834F1.000		08.92 - 12.93	160353
Thema 2.0 16V Stationcar	834F1.000		05.92 - 07.94	160353
Thema 2.0 Turbo 16V	834C.1000	834	12.88 - 06.90	160353
Thema 2.0 Turbo 16V	834F2.000	834	10.92 - 07.94	160353
Thema 2.0 Turbo 16V Stationcar	834C.146, 834C1.246		01.89 - 03.92	160353
Thema 2.0 Turbo 16V Stationcar	834F2.000	834	11.92 - 07.94	160353
Thema 2.0 i.e.	834B.146		09.87 - 05.92	160353
Thema 2.0 i.e.	834B.000		11.84 -	160354
Thema 2.0 i.e. 16V	834B2.246		02.89 - 05.92	160353
Thema 2.0 i.e. Turbo	834C.146		07.86 - 05.90	160353
Thema 2.0 i.e. Turbo Stationcar	834B2.246		02.89 - 05.92	160353
Thema 2.0 i.e. Turbo 16V	834C1.246		04.89 - 05.92	160353
Thema 2.0 i.e. Turbo 16V Stationcar	834C1.000	834AC	12.88 - 06.90	160353
Thema 2.9 8.32	F105L.046	834	10.87 - 05.92	160353
MERCEDES BENZ				
190 E 2.3	M102.985	201	09.86 - 08.93	160470
190 E 2.3 -16	M102.983	201	04.84 - 08.88	160470
190 E 2.6	M103.942	201	09.86 - 08.93	160470

Fuel Pump Relays

Model OPEL	Eng.	Type	Date	Cargo
Ascona C 1.8 E w/ Cat.	C18NE		01.85 - 08.86	160352
Ascona C 2.0 i	20NE		09.86 - 08.88	160295
Astra F 1.8 i	C18NZ		03.92 - 09.98	160295
Astra F 1.8 i Caravan, Hatchback	C18NZ		09.91 - 01.98	160295
Astra F 1.8 i 16V, Caravan	C18XE		06.93 - 10.94	160295
Astra F 1.8 i 16V, Caravan	C18XEL, X18XE		11.94 -	160295
Astra F 1.8 i 16V Cabriolet	C18XE, C18XEL, X18XE	53B	11.94 - 03.01	160295
Astra F 1.8 i 16V Hatchback	C18XE		06.93 -	160295
Astra F 1.8 i 16V Hatchback	C18XEL, X18XE		09.94 -	160295
Astra F 2.0 i	C20NE		03.92 - 09.98	160295
Astra F 2.0 i Cabriolet	C20NE		03.93 - 10.94	160295
Astra F 2.0 i Caravan	C20NE		00.91 - 07.94	160295
Astra F 2.0 i Hatchback	C20NE		09.91 - 01.98	160295
Astra F 2.0 i 16V, Caravan, Hatchback	X20XEV		02.95 - 09.98	160295
Astra F 2.0 i 16V Caravan	C20XE		03.93 - 01.98	160295
Astra F 2.0 GSi 16V Hatchback	C20XE		09.91 - 01.98	160295
Calibra A 2.0 i, 4x4	C20NE		06.90 - 07.97	160295
Calibra A 2.0 i 16V	C20XE		06.90 - 02.94	160295
Calibra A 2.0 i 16V	X20XEV		02.94 - 07.97	160295
Calibra A 2.0 i 16V (ECOTEC-4)	X20XEV		02.94 - 07.97	160295
Calibra A 2.0 i 16V 4x4	X20XEV		02.94 - 07.97	160295
Calibra A 2.0 i Turbo 4x4	C20LET		03.92 - 07.97	160295
Corsa A 1.6 GSi Hatchback	E16SE		05.88 - 03.92	160295
Corsa A 1.6 GSi Hatchback	C16SEI		09.89 - 03.93	160295
Corsa A 1.6 GSi Hatchback	C16SE		02.92 - 03.93	160295
Frontera A 2.0 i Sport	C20NE, X20SE		03.92 - 10.98	160295
Frontera A 2.4 i Long	C24NE		03.92 - 10.98	160295
Kadett E 1.4 i	C14NZ	43B	01.90 - 08.91	160352
Kadett E 1.6 i, Caravan, Hatchback	C16LZ, C16NZ, E16NZ		09.86 - 08.91	160295
Kadett E 1.6 i Cabriolet	16SV		07.89 - 02.93	160295
Kadett E 1.6 i Cabriolet	E16NZ	43B	10.86 - 02.93	160295
Kadett E 1.6 i Cabriolet	C16LZ, C16NZ		10.87 - 02.93	160295
Kadett E 1.6 i Combo	C16NZ		08.91 - 07.94	160295
Kadett E 1.8 E Caravan	C18NE		10.85 - 08.86	160352
Kadett E 1.8 i	18E		02.83 - 08.86	160352
Kadett E 1.8 i Caravan	C18NT, C18NZ		06.85 - 08.86	160352
Kadett E 1.8 i Caravan	C18NT, C18NZ		09.86 - 08.91	160295
Kadett E 1.8 i	C18NT, C18NZ		09.90 - 08.91	160295
Kadett E 1.8 i	C18NE		10.85 - 08.86	160352
Kadett E 1.8 i Hatchback	C18NT, C18NZ		06.85 - 08.86	160352
Kadett E 1.8 i Hatchback	C18NT, C18NZ		09.86 - 08.91	160295
Kadett E 2.0 Hatchback	20NE, 20SEH		09.86 - 08.91	160295
Kadett E 2.0 i, Cabriolet, Caravan	20NE, C20NE		09.86 - 08.91	160295
Kadett E 2.0 GSi Hatchback	C20NE		09.86 - 08.91	160295
Kadett E 2.0 GSi 16V Hatchback	20XEJ, C20XE		03.88 - 08.91	160295
Omega A 1.8, Caravan	E18NVR		09.87 - 03.94	160295
Omega A 1.8 S, Caravan	18SV		09.86 - 03.94	160295
Omega A 1.8 i, Caravan	18SEH		09.86 - 03.94	160295
Omega A 2.0 i, Caravan	20SE, C20NE		09.86 - 03.94	160295
Omega A 2.0 i, Caravan	C20NEF, C20NEJ		09.90 - 03.94	160295
Omega A 2.4 i, Caravan	C24NE		09.88 - 03.94	160295
Omega A 2.6 i, Caravan	C26NE		09.90 - 03.94	160295
Omega A 3.0 i	30NE		03.87 - 09.90	160295
Omega A 3.0 i	C30NE		03.88 - 03.94	160295
Omega A 3.0 i Caravan	C30LE, C30NE		03.87 - 03.94	160295
Omega A 3.0 i (3000 Lotus)	30NE		03.87 -	160352
Omega A 3.0 i 24V, Caravan	C30SE, C30SEJ		09.89 - 03.94	160295
Omega A 3.0 i 24V Evolution 500	C30XEI		03.91 - 07.92	160295
Omega A 3.6 i 24V Lotus	C36GET		08.90 - 09.92	160295
Rekord E 1.8 E, Caravan	C18NV		05.85 - 08.86	160352
Rekord E 1.8 E (Facelift)	C18NV		- 08.86	160352
Rekord E 2.2, Caravan	22E		11.84 - 08.86	160352

O.E.M. names and numbers are used for reference purposes only.

Fuel Pump Relays

Model	Eng.	Type	Date	Cargo
Senator B 2.5 i	25NE		09.83 -	160352
Senator B 2.6 i	C26NE		09.90 - 09.90	160295
Senator B 3.0 i	30NE		01.83 -	160352
Senator B 3.0 i 24V	C30SE		09.89 - 09.93	160295
Vectra A 2.0 GTi Hatchback	20SEH		09.88 - 11.95	160295
Vectra A 2.0 16V 4x4	C20XE		02.90 - 11.95	160295
Vectra A 2.0 i	20SEH		09.88 - 09.92	160295
Vectra A 2.0 i, Hatchback	20NE		09.88 - 10.90	160295
Vectra A 2.0 i, Hatchback	C20NE		09.88 - 11.95	160295
Vectra A 2.0 i 4x4	20NE		01.89 - 10.90	160295
Vectra A 2.0 i 4x4	20SEH		01.89 - 09.92	160295
Vectra A 2.0 i 4x4	C20NE		01.89 - 11.95	160295
Vectra A 2.0 i 16V, 4x4	20XEJ		01.89 - 06.94	160295
Vectra A 2.0 i 16V, 4x4	X20XEV		06.94 - 11.95	160295
Vectra A 2.0 i 16V Hatchback	20XEJ		02.89 - 10.90	160295
Vectra A 2.0 i 16V Hatchback	C20XE		02.90 - 11.95	160295
Vectra A 2.0 i 16V Hatchback	X20XEV		06.94 - 11.95	160295
Vectra A 2.0 i Turbo 4x4	C20LET		06.94 - 11.95	160295
Vectra B 2.0 i, Caravan, Hatchback			00.90 -	160295
PEUGEOT				
205 1.6 GTi	180A (XU5J), 180Z (XU5J), XU5JA		10.87 - 12.89	160354
205 1.6 GTi Cabriolet	180A (XU5J), 180Z (XU5J)	741B, 20D	04.86 - 10.90	160353
205 1.9 GTi Cabriolet	DFZ (XU9J1)	741B, 20D	10.87 - 12.94	160353
205 1.9 GTi	D6B (XU9JA), DFZ (XU9J1), DKZ (XU9JAZ)		10.87 - 10.94	160353
305 1.9 w/ Cat.	DFZ (XU9J1)		10.82 - 07.90	160354
305 1.9	DFZ (XU9J1)		11.86 - 12.88	160354
309 1.6	180Z (XU5J), B6B (XU5J)		11.85 - 09.88	160354
309 1.6	B6B (XU5J)		11.85 - 09.90	160354
309 1.9	D6B (XU9JA)		03.86 - 12.93	160354
309 1.9	DFZ (XU9J1)		08.89 - 12.93	160354
309 1.9 w/ Cat.	DFZ (XU9J1)		03.86 - 12.93	160354
505 2.2	851X (ZDJL)		03.86 - 12.93	160354
505 2.2 w/ Cat.	851X (ZDJL)		03.86 - 12.93	160354
505 2.2 GTi	851B (ZDJL)		08.83 - 12.93	160353
RENAULT				
Fuego 2.2 i w/ Cat.	J7T718		10.83 - 10.85	160354
R18 2.2 i w/ Cat.	J7T718		10.83 - 02.86	160354
SEAT				
Ibiza 1.2 i	021C.1000		12.89 - 05.93	160353
Ibiza 1.5 i	021B.2000, 021C.2000, 021D.2000		10.86 - 05.93	160353
Malaga 1.2 i	021C.1000		12.89 - 12.93	160353
Malaga 1.5 i	021A.2000, 021C.2000, 021D.2000		10.86 - 12.93	160353
Malaga 1.5 i	021B.2000		01.87 - 12.93	160353
Malaga 1.5 i w/ Cat.	021B.2000		01.87 - 12.93	160353
VAUXHALL				
Astra E 1.8 GT/E Hatchback	18E, 18SE		09.84 - 08.86	160352
Astra E 1.8 GT/E Hatchback	18E, 18SE		09.86 - 08.91	160295
Astra E 2.0 GT/E Hatchback	20SEH		09.86 - 08.91	160295
Astra E 2.0 16V GTE Hatchback	20XE		05.88 - 08.91	160295
Astra F 2.0 i	C20NE		03.92 - 09.98	160295
Astra F 2.0 i Cabriolet	C20NE		03.93 - 10.94	160295
Astra F 2.0 i Hatchback, Stationcar	C20NE		09.91 - 02.98	160295
Astra F 2.0 i 16V	X20XEV		02.95 - 09.98	160295
Astra F 2.0 i 16V Hatchback	C20XE		09.91 - 02.98	160295
Belmont 1.8	18SE		01.86 - 12.90	160295
Belmont 1.8 i	18E		09.85 - 08.91	160295
Belmont 1.8 i	18SE		09.85 - 08.91	160295

Fuel Pump Relays

Model	Eng.	Type	Date	Cargo
VAUXHALL continued				
Calibra A 2.0 i, 4x4	C20NE		06.90 - 07.97	160295
Calibra A 2.0 i 16V, 4x4	C20XE		06.90 - 02.94	160295
Calibra A 2.0 i 16V	X20XEV		06.90 - 07.97	160295
Calibra A 2.0 i 16V 4x4	X20XEV		02.94 - 07.97	160295
Calibra A 2.0 i Turbo 4x4	C20LET		03.92 - 07.97	160295
Carlton 1.8 i, Stationcar	18SEH		09.86 - 03.94	160295
Carlton 2.0 i, Stationcar	20SE		09.86 - 03.94	160295
Carlton 2.0 i Stationcar	C20NEJ		09.90 - 03.94	160295
Carlton 2.4 i, Stationcar	C24NE		09.88 - 03.94	160295
Carlton 2.6 i, Stationcar	C26NE		09.90 - 03.94	160295
Carlton 3.0	30NE		03.87 - 09.90	160352
Carlton 3.0	C30NE		03.88 - 03.94	160352
Carlton 3.0 Stationcar	C30NE		03.87 - 03.94	160352
Cavalier 2.0 i	20NE		09.88 - 10.90	160295
Cavalier 2.0 i, Hatchback	20SEH		09.88 - 09.92	160295
Cavalier 2.0 i Hatchback	20NE		09.88 - 10.92	160295
Cavalier 2.0 i 4x4	20SEH		09.88 - 09.92	160295
Cavalier 2.0 i 16V	X20XEV		09.93 - 11.95	160295
Cavalier 2.0 i 16V, 4x4, Hatchback	C20XE		09.88 - 11.95	160295
Frontera A 2.0 i 4WD Sport	C20NE, X20SE		03.92 - 10.98	160295
Frontera A 2.4 i 4WD Long	C24NE		03.92 - 10.98	160295
Nova A 1.6 GSi Hatchback	E16SE		05.88 - 03.92	160295
Nova A 1.6 GSi Hatchback	C16SEI		09.89 - 03.93	160295
Nova A 1.6 GSi Hatchback	C16SE		02.92 - 03.93	160295
Senator B 2.5 i	25E		09.87 - 10.90	160352
Senator B 2.6 i	C26NE		09.90 - 09.93	160352
Senator B 3.0	C30LE		09.87 - 09.93	160352
Senator B 3.0	30NE		01.88 - 09.90	160352
Senator B 3.0 24V	C30SE		09.89 - 09.93	160295
Senator B 3.0 i	C30NE		01.88 - 09.93	160352
VOLVO				
740 2.0 Stationcar	B200F	745	08.89 - 07.90	160401
740 2.0 Stationcar	B200F	745	08.89 - 07.91	160401
740 2.3	B230E	744	08.84 - 07.88	160400
740 2.3	B230F	744	08.87 - 07.92	160401
740 2.3	B230FB	744	08.88 - 07.90	160401
740 2.3 Stationcar	B230K	745	09.85 - 12.87	160400
740 2.3 Stationcar	B230F	745	08.87 - 07.92	160401
740 2.3 Stationcar	B230E	745	01.88 - 07.90	160400
740 2.3 Stationcar	B230K	745	01.88 - 07.90	160401
740 2.3 Stationcar	B230FB	745	08.89 - 07.90	160401
740 2.3 Turbo	B230FT	744	08.86 - 07.89	160401
740 2.3 Turbo	B230FT	744	08.89 - 07.90	160401
740 2.3 Turbo Stationcar	B230ET	745	08.85 - 07.88	160401
740 2.3 Turbo Stationcar	B230FT	745	08.86 - 07.89	160401
740 2.3 Turbo 2 Stationcar	B230FT	745	08.89 - 07.90	160401
760 2.3 Turbo	B230ET	704,764	08.84 - 10.88	160401
940 2.0	B200F	944	01.92 - 07.94	160401
940 2.0 Stationcar	B200F	945	01.92 - 07.94	160401
940 2.3, Stationcar	B230FB	945	01.91 - 12.93	160401
940 2.3, Stationcar	B230FD	945	08.92 - 12.93	160401
940 2.3 Turbo, Stationcar	B230FT	945	01.94 - 07.94	160401
940 2.3 Turbo, Stationcar	B230FK	945	01.95 -	160401
VW				
Caddy I 1.8	JH		08.85 - 07.92	160375
Corrado 1.8 G60	PG		10.88 - 09.93	160362
Golf I 1.8 Cabriolet Automatic Transmission	2H		08.89 - 03.93	160375
Golf I 1.8 Cabriolet Automatic Transmission	JH		08.83 - 04.93	160375
Golf II 1.8	GX		08.85 - 10.87	160362
Golf II 1.8	RH		08.86 - 01.90	160375
Golf II 1.8	GX		08.87 - 10.91	160375
Golf II 1.8 GTi	DX, EV, PB		08.83 - 10.91	160375
Golf II 1.8 GTi	PF		01.87 - 10.91	160375

O.E.M. names and numbers are used for reference purposes only.

Fuel Pump Relays

Model	Eng.	Type	Date	Cargo
Golf II 1.8 Syncro	GX		02.86 - 10.87	160362
Golf II 1.8 Syncro	GU, GX		02.86 - 07.88	160373
Golf II 1.8 Syncro	RP		08.87 - 10.91	160373
Golf II 1.8 Syncro	1P		08.88 - 07.91	160373
Golf II 1.8 G60 GTi	PG		04.90 - 07.91	160362
Golf II 1.8 G60 GTi Syncro	1H, PG		08.88 - 07.91	160362
Jetta I 1.8	DX		08.82 - 07.83	160374
Jetta II 1.8	EV, GZ, PB		01.84 - 10.91	160373
Jetta II 1.8	GU, GX, HV		08.84 - 10.91	160362
Jetta II 1.8	RD		08.85 - 10.87	160373
Jetta II 1.8	RH		08.86 - 01.90	160373
Jetta II 1.8	PF		01.87 - 10.91	160373
Jetta II 1.8	GX, RP		08.87 - 10.91	160373
Jetta II 1.8 Syncro	RP		08.87 - 12.88	160373
Jetta II 1.8 Syncro	1P		08.88 - 07.91	160373
Passat 1.8	JN		08.85 - 10.87	160362
Passat 1.8	ABS, ADZ, RP		02.88 - 08.96	160362
Passat 1.8	PF		04.88 - 07.93	160362
Passat 1.8, Variant	PB	3A5, 35	04.88 - 07.92	160362
Passat 1.8 Variant	ABS, ADZ, RP	3A5, 35	02.88 - 07.90	160362
Passat 1.8 G60 Syncro	PG		08.88 - 08.96	160362
Passat 1.8 G60 Syncro Variant	PG		08.88 - 05.97	160362
Passat 2.0	2E, ADY, AGG		02.90 - 08.96	160362
Passat 2.0 Syncro	ADY, AGG		10.90 - 08.96	160352
Passat 2.0 Syncro	2E	3A2, 35I	10.90 - 08.96	160352
Passat 2.0 Variant	2E, ADY, AGG	3A5, 35	02.90 - 05.97	160362
Passat 2.0 Syncro Variant	2E, ADY, AGG	3A5, 35I	10.90 - 05.97	160352

Also see Cross Reference List page 71

Glow Plug Controllers

Model	Eng.	Type	Date	Cargo
ALFA ROMEO				
Alfa 75 2.0 TD	VM80A	162.BD,BG	05.85 - 09.92	160428
Alfa 75 2.4 TD	VM81A	162	10.84 - 02.92	160428
Alfa 164 2.5 TD	VM84A	164.A1A	06.87 - 09.92	160428
Alfa 164 2.5 TD	VM08B, VM32B	164.K2A,B	09.92 - 09.98	160428
AUDI				
A3 1.9 TDi	AGR, ALH		09.96 - 07.01 For engines w/ electronic diesel control (EDC)	160460
A6 3.2 FSi Quattro Avant	AUK	4F5	03.05 -	160453
80 1.6 TD	RA, SB		09.86 - 08.91	160420
80 1.6 Diesel	JK		09.86 - 08.91	160420
80 1.9 Diesel	1Y		08.89 - 08.91	160420
100 2.0 TD	NC		03.88 - 11.90	160420
100 2.0 TD Avant	NC		03.88 - 11.90	160420
100 2.4 Diesel, Avant	3D	44	08.89 - 07.91	160420
100 2.4 Diesel, Avant	AAS		12.90 - 06.94	160420
100 2.5 TDi, Avant	1T		01.90 - 11.90	160420
100 2.5 TDi, Avant	AAT, ABP		12.90 - 06.94	160420
CHRYSLER				
Voyager 2.5 TD	425CLIRS/X		10.95 - 12.00	160428
Voyager 2.5 TD SE	09B, M00	ES	04.92 - 09.95	160428
CITROEN				
AX 14 1.4 Diesel	K9A (TUD3)		09.88 - 06.92	160424
AX 14 1.4 Diesel	K9Y (TUD3Y)		08.91 - 12.97	160424
AX 15 1.5 Diesel	VJY (TUD5)		08.94 - 12.97	160436
Berlingo 1.8 Diesel	A9A (XUD7)		07.96 -	160434
Berlingo 1.9 Diesel	D9B (XUD9A/L)		07.96 -	160434
Berlingo 1.9 Diesel	D9B (XUD9A/L), DJY (XUD9A)		07.96 - 08.98	160436
Berlingo 1.9 Diesel	WJY (DW8B), WJZ (DW8)		07.98 -	160453
Berlingo 1.9 Diesel 4WD	WJZ (DW8)	MF	07.98 - 11.02	160436
Berlingo 2.0 HDi	RHY	MBRHY, MCRHY	12.99 -	160453
Berlingo 90 2.0 HDi	RHY (DW10TD)	MF	12.99 -	160453
BX 17 1.7 TD Break	A8A (XUD7TE), AJZ (XUD7TE)		03.88 - 12.94	160424
BX 17 1.8 Diesel	161 (XUD7)		10.85 - 01.93	160424
BX 17 1.8 Diesel Break	161A (XUD7)	XB.	10.85 - 09.93	160432
BX 19 1.9 Diesel	D9B (XUD9A/U)		03.87 - 02.93	160432
BX 19 1.9 Diesel	D9B (XUD9A/U)		03.87 - 02.93	160424
BX 19 1.9 Diesel Break	162 (XUD9), D9A (XUD9)		09.83 - 12.87	160424
BX 19 1.9 Diesel Break	D9B (XUD9A/U)		03.87 - 12.94	160424
BX 19 1.9 Turbo TRD	A8A (XUD7TE), AJZ (XUD7TE)		03.88 - 02.93	160424
C5 2.0 HDi	4HX (DW12TED4), RHZ (DW10ATED)		03.01 -	160453
C5 2.0 HDi Break	4HX (DW12TED4), RHS (DW10ATED4)		06.01 -	160453
C15 1.8 Diesel	161A (XUD7)		07.86 - 12.00	160424
C25 1.9 Diesel	D9B (XUD9A/U)		07.87 - 01.94	160424
C25 2.5 Diesel 4x4	CRD93L		01.87 - 01.94	160423
C25 2.5 Diesel 4x4	CRD93L		01.87 - 02.94	160424
C25 2.5 TD	CRD93LS		04.87 - 01.94	160423
C25 2.5 TD	CRD93LS		08.87 - 02.94	160424
			W/o Post Heating	

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Glow Plug Controllers

Model	Eng.	Type	Date	Cargo
C25 2.5 TD 4x4	CRD93LS		04.87 - 01.94	160423
C25 2.5 TD 4x4	CRD93LS		08.87 - 02.94	160424
				W/o Post Heating
CX 25 2.5 Diesel	M25-660		04.87 - 12.92	160423
				W/o Post Heating
CX 25 2.5 Diesel, Break	M25-660		05.86 - 12.92	160424
				W/o Post Heating
CX 25 2.5 TD	M25-669		01.87 - 12.92	160424
				W/o Post Heating
CX 25 2.5 TD, Break	M25-669		04.87 - 12.92	160423
				W/o Post Heating
Evasion 1.9 TD	D8B (XUD9TF), DHX (XUD9TF/BTF)		11.94 - 07.02	160453
Evasion 1.9 TD	D8B (XUD9TF), DHX (XUD9TF/BTF)		11.94 - 07.02	160432
				Equipment var.: DSX
Evasion 1.9 TD	D8B (XUD9TF), DHX (XUD9TF/BTF)		11.94 - 07.02	160433
				Equipment var.: DVSX
Evasion 2.0 TD	XUD9TE		05.97 - 07.02	160432
Evasion 2.0 HDi	RHZ (DW10ATED)	U6U	08.99 - 07.02	160453
Evasion 2.1 TD	P8C (XUD11BTE)		05.96 - 07.02	160432
Jumper 1.9 TD	D8C (XUD9UTF)		02.94 - 02.02	160432
Jumper 1.9 TD	D8C (XUD9UTF),			
	DHX (XUD9TF/BTF)	230L, 230	03.94 - 02.02	160432
Jumper 1.9 TD, 4x4	D8C (XUD9UTF)	230P	08.94 - 02.02	160432
Jumper 2.4 Diesel	T9A (DJ5)	230L	03.94 - 04.02	160436
Jumper 2.4 TD	T8A (DJ5T)	230L	03.94 - 04.02	160436
Jumper 2.5 Diesel	T9A (DJ5)	230	03.94 - 04.02	160436
Jumper 2.5 Diesel 4x4	T9A (DJ5)	230P	08.96 - 04.02	160436
Jumper 2.5 TD	T8A (DJ5T)	230	03.94 - 04.02	160436
Jumper 2.5 TD 4x4	T8A (DJ5T)	230P	08.96 - 04.02	160436
Jumper 2.5 TDi	THX (DJ5TED)		12.96 - 11.00	160436
Jumpy 1.9 Diesel	D9B (XUD9A/U)		10.95 - 04.98	160434
Jumpy 1.9 TD	D8B (XUD9TF)		04.96 -	160453
Jumpy 1.9 TD	DHX (XUD9FT/BTF), DHX (XUD9TF/BTF)		10.95 -	160453
Jumpy 2.0 HDi	RHZ (DW10ATED)	U6U	03.00 - 07.00	160453
Saxo 1.5 Diesel	VJY (TUD5), VJZ (TUD5)		09.96 -	160436
Saxo 1.5 Diesel	VJY (TUD5)		09.00 -	160453
Visa 1.7 Diesel	161A (XUD7)		04.84 - 03.91	160424
				W/o Post Heating
Xantia 1.9 Diesel	DJZ (XUD9Y)		06.94 - 01.98	160435
Xantia 1.9 Diesel	D9B (XUD9A/L)		06.94 - 01.98	160435
				Equipment var.: Exclusive, Prestige
Xantia 1.9 Diesel	D9B (XUD9A/L)		06.94 - 01.98	160436
				W/ post heating "cut-out"
Xantia 1.9 Diesel	DHW (XUD9SD)		02.96 - 01.98	160435
Xantia 1.9 Diesel	DHW (XUD9SD)	X2	01.98 - 12.01	160432
Xantia 1.9 Diesel Break	DHW (XUD9SD)		04.97 - 12.01	160432
Xantia 1.9 TD	DHY (XUD9TE/Y), DHX (XUD9TF/BTF)		10.94 - 08.98	160436
Xantia 1.9 TD	DHY (XUD9TE/Y),			
	DHX (XUD9TF/BTF)	X2	01.98 -	160453
Xantia 1.9 TD Break	DHY (XUD9TE/Y),			
	DHX (XUD9TF/BTF)	X1	06.95 - 01.98	160436
Xantia 1.9 TD Break	DHY (XUD9TE/Y),			
	DHX (XUD9TF/BTF)	X1	06.95 - 01.98	160453
Xantia 1.9 TD Break	D8B (XUD9TF)	X1	09.95 - 12.96	160435
Xantia 1.9 TD Break	D8B (XUD9TF), DHX (XUD9TF/BTF)		01.98 -	160453
Xantia 2.0 HDi, Break	RHZ (DW10ATED)	X2	02.99 -	160453
Xantia 2.1 TD 12V	P8C (XUD11BTE)		06.95 - 01.98	160432
Xantia 2.1 TD 12V	P8C (XUD11BTE)	X2	01.98 - 02.99	160432
Xantia 2.1 TD 12V Break	P8C (XUD11BTE)		01.98 - 02.99	160432
XM 2.1 Diesel, Break	P9A (XUD11A)	Y3	05.89 - 06.94	160432
XM 2.1 TD 12V, Break	P8A (XUD11ATE),			
	PHZ (XUD11ATE), PJZ (XUD11ATE)		05.89 - 06.94	160432

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Glow Plug Controllers

Model	Eng.	Type	Date	Cargo
CITROEN continued				
Xsara 1.5 Diesel	VJZ (TUD5)		04.97 - 09.00	160436
Xsara 1.8 Diesel, Break	161A (XUD7), A9A (XUD7)		04.97 - 09.00	160436
Xsara 1.8 TD		N1	10.97 - 09.00	160436
Xsara 1.9 Diesel, Break	DJY (XUD9A)		04.97 - 09.00	160436
Xsara 1.9 Diesel, Break	DHV (XUD9BSD)	N1	01.98 - 09.00	160453
Xsara 1.9 TD, Break	DHY (XUD9TE/Y)		04.97 - 09.00	160436
Xsara 1.9 TD Coupe	DHY (XUD9TE/Y)	N0	02.98 - 08.00	160432
Xsara 2.0 HDi, Break, Coupe	RHY (DW10TD)	N1	02.99 -	160453
Xsara 2.0 HDi, Break, Coupe	RHZ (DW10ATED)	N1	05.01 -	160453
Xsara Picasso 2.0 HDi MPV	RHY (DW10TD)		06.00 -	160453
ZX 1.8 Diesel	161A (XUD7)	N2	06.93 - 05.95	160424
ZX 1.8 Diesel, Break	161A (XUD7)	N2	06.95 - 06.97	160435
ZX 1.9 Diesel	DJZ (XUD9Y)		03.91 - 04.94	160424
ZX 1.9 Diesel	DJZ (XUD9Y)			W/o Post Heating
ZX 1.9 Diesel	D9B (XUD9A/U)		07.92 - 06.97	160435
ZX 1.9 Diesel Break	D9B (XUD9A/U)		06.94 - 05.95	160424
ZX 1.9 Diesel Break	D9B (XUD9A/U)			W/o Post Heating
ZX 1.9 Diesel Break	D9B (XUD9A/U)		06.94 - 10.97	160434
ZX 1.9 Diesel Break	DJZ (XUD9Y)		10.93 - 10.97	160435
ZX 1.9 TD, Break	DHY (XUD9TE/Y)		07.92 - 06.97	160432
DODGE				
Caravan 2.5 TD			01.95 - 03.01	160428
FIAT				
Brava 1.9 TD	182A7.000, 182A8.000	182	03.96 - 10.01	160464
Ducato 1.9 TD	DHX (XUD9TF/L)	230	04.98 - 10.01	160432
Ducato 2.4 TD	8144.21		01.86 - 08.90	160424
Ducato 2.5 Diesel	8144.67, CRD93L	280	01.82 - 08.90	160424
Ducato 2.5 Diesel	8144.67	290	07.90 - 03.94	160424
Ducato 2.5 Diesel	8140.67	230	03.94 - 04.02	160424
Ducato 2.5 Diesel 4x4	8144.67	280	03.89 - 08.90	160424
Ducato 2.5 Diesel 4x4	8144.67	290	07.90 - 02.94	160432
Ducato 2.5 Diesel 4x4	8144.67	290	07.90 - 03.94	160424
Ducato 2.5 Diesel Panorama, 4x4	8144.67, CRD93L		01.86 - 08.90	160424
Ducato 2.5 Diesel Panorama, 4x4	8144.67	290	07.90 - 03.94	160424
Ducato 2.5 TD, 4x4	8140.27	290	07.90 - 03.94	160424
Ducato 2.5 TD Panorama	8144.21	280	01.87 - 08.90	160424
Ducato 2.5 TD Panorama	8140.27	290	08.90 - 03.94	160424
Ducato 2.5 TD Panorama 4x4	8144.21	280	01.86 - 08.90	160424
Ducato 2.5 TD Panorama 4x4	8140.27	290	01.91 - 03.94	160424
Fiorino 1.7 Diesel	149B3.000		12.87 - 12.90	160426
Fiorino 1.7 Diesel	149B2.000		01.88 - 12.91	160432
Fiorino 1.7 Diesel Pick Up	146B2.000	146	10.93 - 12.97	160426
Fiorino 1.7 TD 65	146D7.000		01.97 -	160464
Marea 1.9 TD, Weekend	182A8.000	185..	09.96 -	160464
Marea 1.9 TD Weekend	182A7.000	185..	09.96 - 02.99	160464

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Glow Plug Controllers

Model	Eng.	Type	Date	Cargo
Palio 1.7 TD weekend	176A3.000		04.96 - 03.01	160464
Palio 1.9 Diesel weekend	223A6.000	178DYD1A07	03.01 -	160464
Panda 1300 Diesel	156A5.000	141A	04.86 - 12.92	160426
Punto 1.7 Diesel	176B3.000	176L	04.96 - 02.00	160433
Punto 1.7 TD	176A3.000, 176A5.000	176	01.94 - 09.99	160464
Punto 60 1.7 TD	176B7.000	176	09.96 - 09.99	160464
Scudo 1.9 Diesel	D9B	220	02.96 - 04.98	160434
Scudo 1.9 Diesel Combinato	WJZ (DW8)	220P	04.98 -	160434
Scudo 1.9 TD	D8B	220, 220L	02.96 -	160453
Scudo 1.9 TD, ECO	DHX (XUD9TF/L)		02.96 -	160453
Scudo 2.0 JTD	RHX	220L	12.99 -	160453
Scudo 2.0 JTD Combinato	RHZ	220P	12.99 -	160453
Strada 1.7 TD	176A3.000		06.99 -	160464
Talento 1.9 Diesel	149B1.000	290UAK, 290UK, 290UEHK, 290UTK	03.88 - 12.94	160432
Tempra 1.9 TD	160A6.000, 160D1.000	159AU,CU	05.90 - 08.96	160424
Tempra 1.9 TD	160B6.046	159AQ	07.92 - 03.93	160432
Tempra 1.9 TD Stationcar	160A6.000, 160D1.000	159AI,BI,A1,AU,CU	07.91 - 02.95	160426
Tipo 1.7 Diesel	149B4.000	160AG	01.88 - 10.94	160435
Tipo 1.9 TD	160A6.000, 160A6.046 160D1.000	160AR,AQ,EI,EL,GL	09.90 - 03.93	160432
Ulysse 1.9 TD	DHX (XUD9TF/L)	220	02.95 - 08.02	160453
Ulysse 1.9 TD	DHX (XUD9TF/L)	220	10.96 - 12.99	160432
Ulysse 2.0 JTD	RHZ	220	10.99 - 08.02	160453
Ulysse 2.1 TD	P8C	220	05.96 - 10.99	160432
Uno 1.3 Diesel Super	127A5.000, 146B1.000		06.83 - 03.92	160432
Uno 1.7 Diesel	146B2.000		09.89 - 12.93	160432
Uno 1.9 Diesel	149B5.046	146A	09.89 - 03.94	160432
FORD				
Escort 1.8 Diesel	RTA, RTB		07.88 - 07.90	160419
Escort 1.8 Diesel	RTE, RTF, RTH	GAL	07.90 - 12.92	160419
Escort 1.8 Diesel	RTE, RTF, RTH		08.93 - 12.96	160469
Escort 1.8 Diesel Express	RTH		07.90 - 12.94	160419
Escort 1.8 Diesel Express	RTH		08.93 - 12.94	160469
Escort 1.8 Diesel Express	RTF, RTH		01.95 -	160469
Escort 1.8 Diesel Stationcar	RTA, RTB	AWF,AVF	01.89 - 07.90	160419
Escort 1.8 Diesel Stationcar	RTE, RTF, RTH	GAL,AVL	07.90 - 12.92	160419
Escort 1.8 Diesel Stationcar	RFD, RFK, RTH	GAL	08.93 - 01.95	160469
Escort 1.8 Diesel Stationcar		GAL,ANL	01.95 - 02.99	160469
Escort 1.8 TD	RFD, RFK, RFS	GAL,AFL	08.93 - 10.98	160469
Escort 1.8 TD	RFD, RFK	GAL,AAL,ABL	01.95 - 09.01	160469
Escort 1.8 TD	RVA	GAL,AAL,ABL	12.95 - 10.98	160419
Escort 1.8 TD	RVA	GAL,AFL	12.95 - 02.99	160419
Escort 1.8 TD Cabriolet	RFD, RFK	ALL	09.95 - 08.98	160469
Escort 1.8 TD Cabriolet	RVA	ALL	10.96 - 08.99	160419
Escort 1.8 TD Stationcar	RFD, RFK	GAL,ANL	01.95 - 09.01	160469
Escort 1.8 TD Stationcar	RVA	GAL,ANL	12.95 - 02.99	160419
Fiesta 1.8 Diesel	RTC, RTD, RTG		08.93 - 12.95	160469
Fiesta 1.8 Diesel	RTJ, RTK		08.95 - 04.00	160418
Fiesta 1.8 Diesel courier	RTC, RTD, RTG	F5L	08.93 - 02.96	160469
Mondeo 1.8 TD, Stationcar	RFM, RFN	GBP	06.93 - 08.96	160469
Orion 1.8 Diesel	RTA, RTB		01.89 - 07.90	160419
Orion 1.8 Diesel	RTE, RTF, RTH	GAL	08.93 - 12.93	160469
Orion 1.8 TD	RFD, RFK	GAL	08.93 - 12.93	160469
Scorpio 2.5 Diesel	STR		12.85 - 02.92	160416
Scorpio 2.5 Diesel	STR		12.85 - 02.92	160419
Scorpio 2.5 Diesel Stationcar	SCB, SFA, SFB		09.91 - 09.94	160416
				W/o Post Heating
				W/ post heating
				W/o Post Heating

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Model	Eng.	Type	Date	Cargo
FORD continued				
Scorpio 2.5 TD	SFA, SFB		06.88 - 07.93	160419 W/ post heating
Sierra 1.8 TD, Hatchback, Stationcar	RFA, RFB, RFL		04.89 - 02.93	160419
Sierra 2.3 Diesel Stationcar	YTR	BNG	01.87 - 02.93	160416 W/o Post Heating
Sierra 2.3 Diesel Stationcar	YTR	BNG	01.87 - 02.93	160419 W/ post heating
LANCIA				
Delta 1.9 TD	160D1.000, 835A4.000	836	07.95 - 08.99	160435
Dedra 1.9 TDS Stationcar	160D1.000, 835A4.000	835	07.95 - 07.99	160435
Zeta 2.0 JTD	RHW, RHZ		09.99 - 09.02	160453
MERCEDES BENZ				
190 2.0 Diesel	OM601.911	201	08.83 - 01.89	160446 W/ Post Heating - 5 Cyl.
190 2.0 Diesel	OM601.911	201	08.83 - 08.89	160449
190 2.0 Diesel	OM601.911	201	02.89 - 08.89	160442
190 2.0 Diesel	OM601.911	201	08.89 - 08.93	160446
190 E 2.0	M102.962	201	01.85 - 12.86	160449
190 E 2.0	M102.961	201	02.85 - 12.86	160449
			If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	
190 2.5 Diesel	OM602.911	201	04.85 - 01.89	160443
190 2.5 Diesel	OM602.911	201	04.85 - 01.89	160450
190 2.5 Diesel	OM602.911	201	02.89 - 08.93	160447
190 2.5 Diesel	OM602.911	201	08.89 - 08.93	160447
190 2.5 TD	OM602.961	201	09.88 - 08.93	160463
			W/o Post heating - 5 cyl. As 160463 but w/fixing on opposite side	
200 2.0 Diesel	OM601.912	124	08.89 - 06.93	160441 W/o post heating
200 2.0 Diesel	OM601.912	124	08.89 - 06.93	160445 W/ Post Heating - 5 cyl
200 2.0 Diesel	OM601.912	124	08.89 - 06.93	160449
200 D 2.0 Diesel	OM615.940	123	07.76 - 02.79	160442
200 D 2.0 Diesel	OM615.940	123	As Cargo 160441, but w/ fixing on opposite side	
200 D 2.0 Diesel	OM615.940	123	03.79 - 11.85	160442
200 D 2.0 Diesel	OM601.912	124	As Cargo 160441, but w/ fixing on opposite side	
200 D 2.0 Diesel	OM601.912	124	12.84 - 08.89	160441
200 D 2.0 Diesel	OM601.912	124	12.84 - 01.89	160442
200 D 2.0 Diesel	OM601.912	124	As Cargo 160441, but w/ fixing on opposite side	
200 D 2.0 Diesel	OM601.912	124	12.84 - 08.89	160449
200 D 2.0 Diesel	OM601.912	124	If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	
200 D 2.0 Diesel	OM601.912	124	02.89 - 08.89	160445
200 TD 2.0 TD Stationcar	OM601.912	124	02.89 - 08.89	160441 W/ Post Heating - 5 cyl
200 TD 2.0 TD Stationcar	OM601.912	124	09.85 - 08.91	160441
200 TD 2.0 TD Stationcar	OM601.912	124	09.85 - 01.89	160442 W/o Post Heating
200 TD 2.0 TD Stationcar	OM601.912	124	09.85 - 08.91	160449
200 TD 2.0 TD Stationcar	OM601.912	124	As Cargo 160441, but W/ fixing on opposite side	
200 TD 2.0 TD Stationcar	OM601.912	124	09.85 - 08.91	160449
200 TD 2.0 TD Stationcar	OM601.912	124	If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	
200 TD 2.0 TD Stationcar	OM601.912	124	09.88 - 08.91	160441 W/o Post Heating
200 TD 2.0 TD Stationcar	OM601.912	124	09.88 - 01.89	160442
200 TD 2.0 TD Stationcar	OM601.912	124	As Cargo 160441, but W/ fixing on opposite side	
200 TD 2.0 TD Stationcar	OM601.912	124	09.88 - 02.89	160445 W/ Post Heating - 5 cyl
200 TD 2.0 TD Stationcar	OM601.912	124	09.88 - 08.91	160449
			If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	

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Model	Eng.	Type	Date	Cargo
200 TD 2.0 TD Stationcar	OM601.912	124	02.89 - 08.91 W/o Post Heating - 5 cyl	160445
207 2.4 Diesel	OM616.939	601	09.82 - 01.89 W/o post heating	160441
207 2.4 Diesel	OM616.939	601	09.82 - 01.89 If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	160449
207 2.4 Diesel		601	09.82 - 01.89 W/ post heating	160449
207 D 2.4 Diesel	OM616.937	601	07.82 - 01.89 W/o Post Heating	160441
207 D 2.4 Diesel	OM616.937	601	Exch. to 160449 in con. w/post heating glow plug 07.82 - 01.89	160449
207 D 2.4 Diesel	OM616.937	601	If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl. 09.82 - 01.89	160441
				W/o Post Heating
208 2.3 Diesel	OM601.940	601	10.88 - 02.96 W/o Post Heating. - 4 Cyl.	160441
208 2.3 Diesel	OM601.940	601	10.88 - 06.95 If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	160449
208 D 2.3 Diesel	OM601.940	601	10.88 - 06.96 W/o Post Heating - 4 Cyl.	160441
208 D 2.3 Diesel	OM601.940	601	10.88 - 06.95 If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	160449
209 D 3.0 Diesel	OM617.913	601	12.82 - 12.89 W/o Post Heating - 4 Cyl.	160443
209 D 3.0 Diesel	OM617.913	601	12.82 - 01.89 If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	160449
209 D 3.0 Diesel	OM617.913	601	01.89 - 01.90 W/o Post heating - 5 cyl.	160447
210 D 2.9 Diesel	OM602.940	601	11.88 - 06.95	160449
250 D 2.5 Diesel	OM602.912	124	01.89 - 06.93 W/o Post heating - 5 cyl. As 160463 but w/fixing on opposite side	160447
250 D 2.5 Diesel	OM602.912	124	04.85 - 06.93 If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	160449
250 GD 2.5 Diesel	OM602.930	460	12.88 - 08.92 If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	160449
250 TD 2.5 TD Stationcar	OM602.912	124	09.85 - 06.93 If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.	160449
290 GD 2.9 Diesel	OM602.942	463	04.92 -	160442
300 3.0 Diesel 4 Matic	OM603.913	124	09.86 - 08.90 W/o Post Heating. - 6 Cyl.	160444
300 3.0 Diesel 4 Matic	OM603.913	124	09.90 - 08.92 W/ Post Heating - 5 cyl	160445
300 3.0 Diesel 4 Matic	OM603.913	124	09.90 - 08.92 W/ Post Heating. - 6 Cyl.	160448
300 3.0 TD 4 Matic	OM603.960	124	02.89 - 06.93 As Cargo 160441, but w/ fixing on opposite side	160442
300 D 3.0 Diesel	OM603.912	124	12.84 - 01.89 W/o Post Heating. - 6 Cyl.	160444
300 D 3.0 Diesel	OM603.912	124	08.89 - 06.93 W/ Post Heating. - 6 Cyl	160448
300 D 3.0 Diesel 4 Matic	OM603.913	124	08.89 - 08.90 W/o Post Heating. - 6 Cyl.	160444
300 D 3.0 Diesel 4 Matic	OM603.913	124	08.89 - 06.93 W/ Post Heating. - 6 Cyl	160448
300 TD 3.0 Diesel Stationcar	OM603.912	124	09.86 - 01.89 W/o Post Heating. - 6 Cyl.	160444
300 TD 3.0 Diesel Stationcar	OM603.912	124	02.89 - 06.93 As Cargo 160441, but w/ fixing on opposite side	160442
300 TD 3.0 Diesel Stationcar	OM603.960	124	02.89 - 06.93 As Cargo 160441, but w/ fixing on opposite side	160442
300 TD 3.0 Diesel Stationcar	OM603.912	124	02.89 - 06.93 W/ Post Heating. - 6 Cyl	160448
300 GD 3.0 Diesel	OM603.912	460	03.79 - 01.89 W/o Post Heating. - 6 Cyl.	160444

Glow Plug Controllers

Model	Eng.	Type	Date	Cargo
MERCEDES BENZ <i>continued</i>				
300 GD 3.0 Diesel	OM617.931	460.3	12.79 - 12.91	160449
		If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.		
300 GD 3.0 Diesel	OM603.931	463	09.89 -	160448
				W/ Post Heating. - 6 Cyl
300 GD 3.0 Diesel Cabriolet	OM603.931	463	12.90 - 09.97	160448
				W/ Post Heating. - 6 Cyl
307 D 2.4 Diesel	OM616.939, OM616.937	602	06.82 - 01.89	160441
				W/o Post Heating
307 D 2.4 Diesel	OM616.939	602	06.82 - 01.89	160449
		If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.		
307 D 2.4 Diesel	OM616.937, OM616.939	602	09.82 - 01.89	160449
		If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.		
307 D 2.4 Diesel	OM616.937	602	10.82 - 01.89	160441
				W/o Post Heating
307 D 2.4 Diesel	OM616.937	602	10.82 - 01.89	160449
		If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.		
308 D 2.3 Diesel	OM601.940	601, 602	10.88 - 02.96	160449
309 D 3.0 Diesel	OM617.913	602	10.82 - 01.89	160443
				W/o Post Heating - 4 Cyl.
309 D 3.0 Diesel	OM617.913	602	10.82 - 01.89	160449
		If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.		
309 D 3.0 Diesel	OM617.913	602	10.82 - 01.90	160447
		W/o Post heating - 5 cyl. As 160463 but w/fixing on opposite side		
310 2.9 Diesel	OM602.940	602	06.89 - 06.95	160449
310 D 2.9 Diesel	OM602.940	601, 602	06.89 - 06.95	160449
407 D 2.4	OM616.913, OM616.939	T1/TN	00.81 - 00.89	160441
				W/o Post Heating - 4 Cyl.
408 D 2.3	OM601.940	T1/TN	10.87 - 12.92	160449
		If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.		
410 D 2.9	OM602.940	T1/TN	01.89 - 01.90	160447
				W/o Post heating - 5 cyl.
507 D 2.4	OM616.914	T2/LN1	04.86 - 04.89	160441
				W/o Post Heating - 4 Cyl.
507 D 2.4	OM616.914	T2/LN1	04.86 - 04.89	160449
		If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.		
507 DK 2.4	OM616.914	T2/LN1	04.86 - 04.89	160441
				W/o Post Heating
507 DK 2.4	OM616.914	T2/LN1	04.86 - 04.89	160449
		If car is changed to post heat system, use 160441 = 4 cyl. or 160443 = 5 cyl.		
508 D 2.3	OM601.941	T2/LN1	03.89 - 12.94	160449
C 200 C 2.0 CDi	OM611.960	202	03.98 - 05.00	160705
C 200 C 2.1 CDi	OM611.962	203	09.00 -	160705
C 200 C 2.2 CDi Stationcar	OM611.960	202	03.98 - 03.01	160705
C 200 D 2.0 Diesel	OM601.913	202	03.93 - 05.00	160705
C 200 D C 2.0 Diesel	OM604.915	202	10.96 - 05.00	160705
C 200 T C 2.0 Diesel Stationcar	OM604.915	202	10.96 - 03.01	160705
C 220 C 2.1 CDi Coupe	OM611.962	203	03.01 -	160705
C 220 C 2.1 CDi	OM611.962	203	05.00 -	160705
C 220 C 2.2 Diesel	OM604.910	202	07.96 - 05.00	160705
C 220 C 2.2 CDi	OM611.960	202	09.97 - 05.00	160705
C 220 D 2.2 Diesel	OM604.910	202	08.93 - 05.00	160705
C 220 T C 2.2 Diesel Stationcar	OM604.910	202	06.96 - 03.01	160705
C 220 T C 2.2 CDi Stationcar	OM611.960	202	09.97 - 03.01	160705
C 250 D 2.5 Diesel	OM605.910	202	05.93 - 05.00	160707
C 250 T C 2.5 TD Stationcar	OM605.960	202	06.96 - 03.01	160707
C 250 TD C 2.5 TD	OM605.960	202	10.95 - 05.00	160707
C 270 CDI 2.7 CDi Stationcar	OM612.962	T203	03.01 -	160706
C 30 AMG C 3.0 DCi, Coupe	OM612.990	W203	01.03 -	160706
MB 100 D 2.4 Diesel	OM616.963	631	02.88 - 08.89	160442
				As Cargo 160441, but w/ fixing on opposite side

O.E.M. names and numbers are used for reference purposes only.

Glow Plug Controllers

Model	Eng.	Type	Date	Cargo
Sprinter 208 2.3 Diesel	OM601.943	901,902	01.95 - 04.00	160442
			As Cargo 160441, but w/ fixing on opposite side	
Sprinter 210 2.9 Diesel	OM602.980	901,902	01.97 - 04.00	160449
Sprinter 308 2.3 Diesel	OM601.943	903	02.95 - 04.00	160449
Sprinter 310 2.9 Diesel	OM602.980	903	02.95 - 04.00	160449
Sprinter 310 2.9 Diesel 4x4	OM602.980	903	05.97 - 08.02	160449
V 230 v 2.3 TD	OM601.970		09.96 -	160449
Vito 108 2.3 Diesel	OM601.942	638	02.96 -	160449
Vito 110 2.3 Diesel	OM601.970	638	02.96 -	160449
Vito 110 2.3 TD	OM601.970	638	03.97 -	160449
OPEL				
Astra F 1.7 Diesel	17DR		07.92 - 01.99	160419
Astra F 1.7 Diesel, Caravan, Hatchback	17DR		12.91 -	160419
			W/ Post Heating	
Astra F 1.7 Diesel, Caravan, Hatchback	17D		12.91 - 09.92	160419
			W/ Post Heating	
Astra F 1.7 Diesel, Caravan, Hatchback	17D		03.92 - 09.92	160416
			W/o post heating	
Astra F 1.7 Diesel, Caravan, Hatchback	17DR		07.92 - 09.98	160416
			W/o post heating	
Frontera A 2.3 TD Long	23DTR		03.92 - 10.98	160419
Kadett Combo E 1.7 Diesel	17D		01.89 - 07.94	160416
Kadett E 1.7 Diesel, Caravan, Hatchback	17D		02.89 - 08.91	160419
			W/ Post Heating	
Kadett E 1.7 Diesel, Caravan, Hatchback	17D		08.88 - 09.92	160416
			W/o post heating	
Omega A 2.3 Diesel, Caravan	23YD		10.86 - 03.94	160416
			W/o post heating	
Omega A 2.3 TD, Caravan	23DTR		08.88 - 03.94	160416
			W/o post heating	
Vectra A 1.7 Diesel, Hatchback	17D		10.88 - 09.92	160416
			W/o post heating	
PEUGEOT				
Boxer 1.9 Diesel	D8C (XUD9AU)		03.94 - 06.95	160424
			W/o post heating	
Boxer 1.9 Diesel	D8C (XUD9AU)		07.95 - 04.02	160434
Boxer 1.9 TD	D8C (XUD9UTF)		03.94 - 02.02	160432
Boxer 1.9 TD	D8C (XUD9UTF)	230P	03.94 - 02.02	160432
Boxer 1.9 TD	DHY (XUD9TE)	230P	08.94 - 02.02	160432
Boxer 1.9 TD	D8C (XUD9UTF)		07.96 - 02.02	160432
Boxer 1.9 TD	DHY (XUD9TE)		12.98 - 02.02	160432
Boxer 1.9 TD		230L	07.99 - 02.02	160432
Boxer 1.9 TD 4x4	D8C (XUD9UTF)		07.96 - 02.02	160432
Boxer 2.5 Diesel	T9A (DJ5)		03.94 - 04.02	160436
Boxer 2.5 Diesel 4x4	T9A (DJ5)		07.96 - 04.02	160436
Boxer 2.5 TD	T8A (DJ5T)	230P	03.94 - 04.02	160436
Boxer 2.5 TD 4x4	T8A (DJ5T)		07.96 - 04.02	160436
Expert 1.9 TD	D8B (XUD9TE)		02.96 -	160432
Expert 1.9 TD	DHX (XUD9TE)		06.98 -	160432
J5 1.9 Diesel	D9B (XUD9A)		10.90 - 01.94	160424
			W/o post heating	
J5 2.5 Diesel	CRD93		10.90 - 06.91	160423
			W/o post heating	
J5 2.5 Diesel	CRD93		07.91 -	160424
			W/o post heating	
J5 2.5 Diesel 4x4	CDR93		10.90 - 06.91	160423
			W/o post heating	
J5 2.5 Diesel 4x4	CDR93		07.91 -	160424
			W/o post heating	
J5 2.5 TD	CRD93LS		06.91 -	160423
			W/o post heating	

Glow Plug Controllers

Model
PEUGEOT *continued*

Model	Eng.	Type	Date	Cargo
J5 2.5 TD	CRD93LS		07.91 -	160424
J5 2.5 TD	CRD93LS		10.90 - 06.91	160423
J5 2.5 TD 4x4	CRD93LS		10.90 - 06.91	160423
J5 2.5 TD 4x4	CRD93LS		07.91 -	160424
J5 2.5 TD 4x4	CRD93LS		10.90 - 06.91	160423
J5 2.5 TD 4x4	CRD93LS		07.91 -	160424
Partner 1.8 Diesel	A9A (XUD7)		07.96 -	160434
Partner 1.9 Diesel	DJY (XUD9A)		06.96 -	160434
Partner 1.9 Diesel	DJY (XUD9A)		06.96 - 08.98	160436
106 1.4 Diesel	K9Y (TUD3Y)	1A, 1C	09.92 - 04.96	160431
106 1.5 Diesel	VJY (TUD5)	1A, 1C	06.94 -	160436
106 1.5 Diesel Hatchback	TUD5	1A, 1C	06.94 - 04.96	160436
205 1.9 Diesel	DJZ (XUD9Y)		10.87 - 08.98	160424
205 1.9 Diesel	DJZ (XUD9Y)		10.87 - 09.98	160432
206 1.9 Diesel	WJZ (DW8)	2A/C	09.98 - 11.01	160453
206 2.0 HDi	RHY (DW10TD)	2A/C	12.99 -	160453
305 1.9 Diesel	162 (XUD9)		10.82 - 07.90	160423
305 1.9 Diesel	162 (XUD9)		10.82 - 07.90	160424
305 1.9 Diesel	162 (XUD9)		10.82 - 07.90	160432
306 1.8 Diesel Hatchback	A9A (XUD7)	7A, 7C, N3, N5	05.93 -	160434
306 1.9 Diesel	DHV (XUD9BSD)	7B, N3, N5	06.98 - 10.03	160432
306 1.9 Diesel, Break	WJY (DW8B), WJZ (DW8)	7B, N3, N5	09.98 -	160453
306 1.9 Diesel Break	DJY (XUD9A)	7E, N3, N5	03.97 - 08.98	160436
306 1.9 Diesel Break	DHV (XUD9BSD)	7E, N3, N5	06.98 - 03.02	160432
306 1.9 Diesel Hatchback	DJZ (XUD9Y)	7A, 7C, N3, N5	05.93 - 08.98	160436
306 1.9 Diesel Hatchback	DJY (XUD9A)	7A, 7C, N3, N5	06.94 - 08.98	160436
306 1.9 Diesel Hatchback	DHV (XUD9BSD)	7A, 7C, N3, N5	06.98 - 10.03	160432
306 1.9 TD Break	DHY (XUD9TE)	7E, N3, N5	05.97 - 03.02	160432
306 1.9 TD Hatchback	DHY (XUD9TE)	7A, 7C, N3, N5	05.93 - 04.97	160432
306 1.9 SLD	DJY (XUD9A),			
306 1.9 SLD	DJZ (XUD9Y)	7B, N3, N5	06.94 - 08.98	160436
306 1.9 SRDT	DJY (XUD9A)	7B, N3, N5	07.95 -	160434
306 2.0 HDi, Break, Hatchback	DHY (XUD9TE)	7B, N3, N5	06.94 - 04.97	160432
306 2.0 HDi, Break, Hatchback	RHY (DW10TD)	7A, 7B, 7C, 7E, N3, N5	06.99 -	160453
309 1.8 Diesel	161A (XUD7)		07.89 - 12.93	160424
309 1.9 Diesel	162 (XUD9), D9A (XUD9), DJZ (XUD9Y)		07.89 - 12.93	160424
309 1.9 Diesel			W/o post heating	
405 1.8 TD, Break	A8A (XUD7TE), AJZ (XUD7TEY)		03.88 - 12.92	160424
405 1.9 Diesel	DJY (XUD9A)		06.94 - 10.95	160424
405 1.9 Diesel			W/o post heating	
405 1.9 Diesel, Break	DJZ (XUD9Y)		07.94 - 10.95	160436
405 1.9 Diesel, Break	D9B (XUD9A)		03.88 - 01.92	160424
405 1.9 Diesel, Break	DJZ (XUD9Y)		07.88 - 09.92	160432
405 1.9 Diesel, Break	DJY (XUD9A)		06.92 - 04.97	160434
405 1.9 Diesel Break			W/ post heating	
405 1.9 Diesel Break	DJY (XUD9A)		06.94 - 10.96	160436
405 1.9 Diesel Break	DJZ (XUD9Y)		07.94 - 10.96	160436
405 1.9 Diesel Break	DJY (XUD9A)		07.98 -	160434
405 1.9 TD	DHY (XUD9TE)		08.92 - 10.95	160432
405 1.9 TD Break	DHY (XUD9TE)		08.92 - 10.96	160432
406 1.9 Diesel Break	DHW (XUD9SD)	8E/F	10.96 -	160453
406 1.9 TD, Break	DHY (XUD9TE), DHX (XUD9TE)8B, 8E/F		01.96 - 03.99	160453
406 2.0 HDi, Break	RHZ (DW10ATED)	8B, 8E/F	02.99 - 03.99	160453
406 2.0 HDi, Break	RHY (DW10TD)	8B, 8E/F	02.99 - 05.04	160453
406 2.0 HDi 110 FAP Break	RHS (DW10ATED4)	8E/F	08.01 -	160453
406 2.1 TD 12V, Break	P8C (XUD11BTE)	8B, 8E/F	01.96 - 03.99	160432

O.E.M. names and numbers are used for reference purposes only.

Glow Plug Controllers

Model	Eng.	Type	Date	Cargo
505 2.5	152B (XD3TE)		10.86 - 12.93	160432
505 2.5 Diesel	155 (XD3)		06.81 - 12.93	160424
505 2.5 Diesel	155 (XD3)		10.81 - 11.90	160424
505 2.5 Diesel Break	155 (XD3)		08.83 - 01.92	160424
505 2.5 TD	152A (XD3T)		10.83 - 01.92	160424
505 2.5 TD Break	152B (XD3TE)		10.86 - 12.93	160432
				W/o post heating
605 2.1 Diesel	P9A (XUD11A)		06.89 - 07.95	160424
605 2.1 TD	PHZ (XUD11ATE)		06.89 - 09.99	160424
605 2.1 TD 12V	P8C (XUD11BTE)		08.94 - 08.98	160424
				W/o post heating
806 1.9 TD	DHY (XUD9TE)		05.97 - 08.02	160432
806 2.1 TD	P8C (XUD11BTE)		06.96 - 08.99	160432
				W/o post heating
RENAULT				
Clio 1.9 Diesel	F8Q630	SB0E	09.94 -	160451
Clio 1.9 Diesel	F8Q730	B,C,S576,57S	09.94 - 09.98	160451
Clio 1.9 Diesel	F9Q734	B,C 57	01.97 - 09.98	160451
Clio 1.9 Diesel	F8Q630	B/CB0E	09.98 -	160451
Espace 2.1 TD	J8S774	J,S115	10.84 - 12.90	160425
Espace 2.1 TD	J8S240	J,S115	10.84 - 12.90	160425
				W/o post heating
Espace 2.1 TD	J8S610, J8S772, J8S776, J8S778	J634,J,S635	04.91 - 07.93	160425
				W/o post heating
Laguna 2.2 Diesel	G8T706, G8T752, G8T790, G8T794	B56F	09.94 - 03.01	160439
Laguna 2.2 Diesel Grandtour	G8T706, G8T752, G8T790, G8T794	K56	09.95 - 03.01	160439
Master 28-35 I 2.1 Diesel	J8S330	T.	01.86 - 07.98	160425
				W/o post heating
Master 28-35 I 2.4 Diesel	S8U731, Sofim-8140.61.2300	T.	08.80 - 08.89	160425
Master 28-35 I 2.5 Diesel	S8U731, Sofim-8140.61.2300	P.	09.80 - 07.98	160425
				W/o post heating
Master 28-35 I 2.5 Diesel	S8U742, Sofim-8140.67.2510	T.	08.89 - 07.98	160425
				W/o post heating
Master 28-35 I 2.5 Diesel	S8U742, Sofim-8140.67.2510	T.	08.89 - 07.98	160432
Megane 1.9 Diesel Classic	F8Q620, F8Q624	LA0A,LA0U	09.96 -	160452
Megane 1.9 Diesel Eco	F8Q620, F8Q624	B/SA0U,BA0A	01.96 -	160452
Megane 1.9 Diesel Scenic	F8Q788		03.97 - 09.99	160452
R19 1.9 Diesel	F8Q706, F8Q742	B,C5353J,534	03.91 - 04.92	160438
R19 1.9 Diesel	F8Q742	B/C53	04.92 - 12.95	160438
R19 1.9 Diesel Chamade	F8Q706, F8Q742	534	03.91 - 04.92	160438
R19 1.9 Diesel Chamade	F8Q742	L53	04.92 - 12.95	160438
R19 1.9 TD Chamade		L53K	09.90 - 04.92	160440
R21 2.1 Diesel	J8S704	L480,486	03.86 - 12.89	160425
				W/o post heating
R21 2.1 Diesel	J8S600, J8S740	L48V,B480,B48V	05.89 - 06.94	160425
				W/o post heating
R21 2.1 Diesel Nevada	J8S704	K,S486	10.86 - 09.90	160425
				W/o post heating
R21 2.1 Diesel Nevada	J8S600, J8S740	K,S48V,480	08.89 - 12.92	160425
				W/o post heating
R21 2.1 Diesel 4x4 Nevada	J8S704	K486	10.88 - 05.92	160425
				W/o post heating
R21 2.1 TD, Nevada	J8S714, J8S786, J8S788		03.86 - 06.94	160425
				W/o post heating
R25 2.1 Diesel	J8S736	B296	06.89 - 12.92	160424
				W/o post heating

O.E.M. names and numbers are used for reference purposes only.

Glow Plug Controllers

Model	Eng.	Type	Date	Cargo
RENAULT <i>continued</i>				
R25 2.1 TD	J8S708, J8S738	B29W,B290	04.84 - 12.92	160424
Rapid 1.9 Diesel	F8Q640, F8Q682	F40R	09.94 - 03.98	160451
Trafic 1.9 Diesel	F8Q606	TXW	00.81 -	160425
Trafic 2.1 Diesel	852720	PXX	05.89 - 06.94	160425
Trafic 2.1 Diesel	J8S620, J8S758	PXX	06.94 - 10.97	160425
			W/o post heating	
Trafic 2.5 Diesel	S8U750, S8U752, S8U758		05.89 - 03.01	160425
			W/o post heating	
Trafic 2.5 Diesel	Sofim-8140.67.2500, Sofim-8140.67.2550, Sofim-8140.67.2580		05.89 - 03.01	160425
			W/o post heating	
Trafic 2.5 Diesel	S8U752, S8U758		05.89 - 03.01	160425
			W/o post heating	
ROVER				
Montego 2.0 TD, Estate	BB		10.88 - 12.93	160430
218 1.8 Diesel	XUD7TE		10.92 - 10.95	160432
418 1.8 Diesel	XUD7TE		09.91 - 04.95	160432
418 1.8 Diesel Tourer	XUD7TE		09.93 - 02.96	160432
SEAT				
Alhambra 1.9 TDi	1Z		04.96 -	160460
			For engines w/ electronic diesel control (EDC)	
Arosa 1.7 SDi	AKU		08.97 -	160460
			For engines w/ electronic diesel control (EDC)	
Cordoba 1.9 Diesel	1Y		02.93 - 08.96	160459
			VWD type	
Cordoba 1.9 Diesel	1Y		09.93 - 08.96	160421
			W/o post heating	
Ibiza 1.9 Diesel	1Y		04.93 - 07.93	160421
			Chas. -6K..ZR025747	
Ibiza 1.9 Diesel	1Y		04.93 - 08.96	160459
			VWD type	
Malaga 1.7 Diesel	022A.5000		05.85 - 12.93	160424
			W/o post heating	
Malaga 1.7 Diesel	022A.5000		05.85 - 12.93	160427
			W/ post heating	
Toledo 1.9 Diesel	1Y	1I	05.91 - 10.98	160421
			W/o post heating	
Toledo 1.9 Diesel	1Y	1I	05.91 - 03.99	160459
			VWD type	
Toledo 1.9 TDi	AGR, ALH	1M..	04.99 -	160460
			For engines w/ electronic diesel control (EDC)	
SKODA				
Octavia 1.9 TDi, Stationcar	AGR, ALH	1U2	09.96 -	160460
			For engines w/ electronic diesel control (EDC)	
SSANGYONG				
Musso 2.3 Diesel 4WD	MB-OM661, MB-OM601.940	FJ	10.95 -	160449
VAUXHALL				
Astra 1.7 Diesel	17D		03.92 - 09.92	160416
			W/o post heating	
Astra 1.7 Diesel	17DR		07.92 - 09.98	160419
Astra 1.7 Diesel Hatchback	17DR		01.89 - 08.91	160416
Astra 1.7 Diesel Hatchback	17D		01.90 - 12.90	160416
			W/o post heating	
Astra 1.7 Diesel Hatchback, Stationcar	17DR		03.91 - 12.94	160419
Astra 1.7 Diesel Hatchback, Stationcar	17D		12.91 - 01.94	160416
			W/o post heating	

O.E.M. names and numbers are used for reference purposes only.

Glow Plug Controllers

Model	Eng.	Type	Date	Cargo
Astra 1.7 Diesel Stationcar	17D		02.89 - 08.91	160416
Astra 1.7 Diesel Stationcar	17D		12.91 - 01.94	160419
			W/ post heating	
Belmont 1.6 Diesel	16DA		09.85 - 01.89	160416
Belmont 1.7 Diesel	17D		01.89 - 12.91	160416
Carlton 2.3 Diesel, Stationcar	23YD		09.86 - 01.94	160416
Carlton 2.3 Diesel, Stationcar	23YD		09.86 - 03.94	160419
Carlton 2.3 TD Intercooler, Stationcar	23DTR		03.92 - 01.94	160416
			W/o post heating	
Cavalier 1.7 Diesel, Hatchback	17D		09.88 - 01.92	160416
Cavalier 1.7 Diesel, Hatchback	17D		09.88 - 01.92	160419
			W/ post heating	
Frontera 2.3 TD 4WD Long	23DTR		03.92 - 01.95	160416
Frontera 2.3 TD 4WD Long	23DTR		03.92 - 10.98	160419
			W/ post heating	
VOLVO				
V40 1.9 TD Stationcar	D4192T		07.95 - 08.99	160461
240 2.4 Diesel	D24		08.87 - 08.93	160458
240 2.4 Diesel Stationcar	D24	P245	01.85 - 08.93	160458
740 2.4 TD	D24T	744	01.85 - 07.92	160458
740 2.4 TD Stationcar	D24T	745	09.85 - 07.92	160458
740 2.4 TD Intercooler Stationcar	D24TIC	745	08.86 - 07.88	160458
760 2.4 TD	D24T	704,764	01.85 - 07.92	160458
760 2.4 TD Intercooler, Stationcar	D24TIC	704,764	08.87 - 07.92	160458
940 2.4 Diesel	D24	944	08.90 - 07.92	160458
940 2.4 TD	D24T	944	08.90 - 08.93	160458
940 2.4 TD Intercooler	D24TIC	944, 945	08.90 - 12.98	160458
940 2.4 TD Stationcar	D24T	945	08.90 - 07.94	160458
960 2.4 TD Intercooler, Stationcar	D24TIC	944,964,965	09.91 - 07.94	160458
VW				
Beetle 1.9 TDi	ALH		01.98 - 02.01	160460
			For engines w/ electronic diesel control (EDC)	
Bora 1.9 TDi	AGR, ALH		10.98 - 06.01	160460
			For engines w/ electronic diesel control (EDC)	
Caddy I 1.6 Diesel	JK		08.82 - 07.90	160421
Caddy I 1.6 Diesel	ME		08.87 - 07.92	160420
Golf I 1.6 Diesel	CR, JK		08.80 - 07.83	160422
Golf II 1.6 Diesel	ME		08.83 - 10.91	160420
Golf II 1.6 TD	1V, MF		08.89 - 10.91	160420
Golf II 1.6 TD	RA		04.89 - 10.91	160421
			W/ post heating (3 min.)	
Golf III 1.9 Diesel, Variant	1Y	1H..	11.91 - 08.97	160421
			W/ post heating (3 min.)	
Golf III 1.9 Diesel	1Y	1H..	11.91 - 08.97	160459
			VWD type	
Golf III 1.9 Diesel	1Y	1H..	11.91 - 08.97	160460
			For engines w/ electronic diesel control (EDC)	
Golf III 1.9 TD GTD	AAZ	1H..	11.91 - 08.97	160459
			VWD type	
Golf III 1.9 TD GTD	AAZ	1H..	11.91 - 08.97	160460
			For engines w/ electronic diesel control (EDC)	
Golf III 1.9 TDI	1Z, AHU	1H..	09.93 - 08.97	160421
			W/ post heating (3 min.)	
Golf III 1.9 TDI	AFN		04.96 - 08.97	160421
Golf IV 1.9 TDI	AGR, ALH	1J..	08.97 - 06.01	160460
			For engines w/ electronic diesel control (EDC)	

Glow Plug Controllers

Model	Eng.	Type	Date	Cargo
VW continued				
Jetta I 1.6 Diesel	CR, JK		08.80 - 12.83	160422
Jetta II 1.6 TD	JR		01.84 - 10.91	160421
Jetta II 1.6 TD	RA, SB		04.89 - 10.91 W/ post heating (3 min.)	160421
Jetta II 1.6 TD	1V		01.90 - 10.91	160420
Jetta II 1.6 Diesel	ME		01.84 - 10.91	160420
LT 28-35 2.4 Diesel	CP, DW		12.82 - 07.92	160420
LT 28-35 2.4 TD	DV		02.86 - 08.92	160420
LT 28-35 I 2.4 Diesel	CP, DW		12.82 - 07.92	160420
LT 28-35 I 2.4 TD	DV		12.82 - 07.89	160421
LT 28-35 I 2.4 TD	DV		12.82 - 08.92	160420
LT 40-55 I 2.4 Diesel	CP, DW		01.79 - 12.91	160420
LT 40-55 I 2.4 TD	DV		12.82 - 08.92	160420
Lupo 1.7 SDi	AKU		09.98 - For engines w/ electronic diesel control (EDC)	160460
Passat 1.6	RA		05.86 - 03.88	160420
Passat 1.6 Diesel	CR, JK		08.80 - 03.88	160421
Passat 1.6 Diesel Variant	CR, JK		08.80 - 03.88	160420
Passat 1.6 TD, Variant	CY		04.82 - 03.88	160420
Passat 1.6 TD	CY		01.85 - 03.88	160420
Passat 1.6 TD	RA, SB		08.88 - 09.93	160420
Passat 1.6 TD Variant	SB	3A5, 35	08.88 - 09.93	160420
Passat 1.9 Diesel, Variant	1Y		05.89 - 10.93	160420
Passat 1.9 TD	AAZ		03.91 - 08.96	160459 VWD type
Passat 1.9 TD, Variant	AAZ		03.91 - 08.97 W/ post heating (3 min.)	160421
Passat 1.9 TDi	1Z		10.93 - 08.96	160460
Passat 1.9 TDi	AHU		For engines w/ electronic diesel control (EDC) 10.93 - 08.96	160460
Polo 1.3 Diesel, Coupe, Classic	MN		For engines w/ electronic diesel control (EDC) 08.86 - 07.90	160420
Polo 1.9 Diesel	AEF, AGD		10.94 - 10.99	160459 VWD type
Polo 1.9 Diesel	AEF, AGD		10.94 - 10.99	160460
Polo 1.9 Diesel			For engines w/ electronic diesel control (EDC)	
Sharan 1.9 TDi	1Z		09.95 - For engines w/ electronic diesel control (EDC)	160460
Transporter III 1.6 Diesel	CS		01.81 - 07.87	160420
Transporter III 1.6 TD	JX		08.84 - 07.92	160420
Transporter III 1.6 TD Syncro	JX		03.86 - 07.92	160420
Transporter III 1.7 Diesel	KY		10.86 - 07.92	160420
Transporter III 1.7 Diesel	KY		07.89 - 07.92	160420
Transporter IV 1.9 Diesel	1X		07.90 - VWD type	160459
Transporter IV 1.9 Diesel	1X		09.90 - 03.92 Chas. 70..N..100000	160420
Transporter IV 2.4 Diesel	AAB		09.90 - 03.92 Chas. 70..N..100000	160420
Transporter IV 2.4 Diesel Syncro	AAB		11.92 - 09.98	160421
Transporter IV 2.5 TDi	ACV		09.95 - For engines w/ electronic diesel control (EDC)	160460
Transporter IV 2.5 TDi Syncro	ACV		01.96 - For engines w/ electronic diesel control (EDC)	160460
Transporter V 2.4 Diesel	AJA		08.97 - 06.03	160421
Vento I 1.9 Diesel	1Y	1H.	11.91 - 09.98 For engines w/ electronic diesel control (EDC)	160460
Vento I 1.9 TD	AAZ	1H.	11.91 - 09.98 VWD type	160459

Also see Cross Reference List page 71



CROSS REFERENCE LIST

VERGLEICHS- LISTEN

LISTE DE CORRESPONDANCES

LISTA DEI RIFERIMENTI

PART 11

3rd Edition



ISO/TS 16949:2002 certified supplier

PART 11
CROSS REFERENCE LIST



	Cargo		Cargo		Cargo		Cargo	
ALFA ROMEO			0332207104	160366	02474	160354	90BB6M092CA	160419
116851104300	160352		0332207202	160368			90BB6M092AA	160419
162064501000	160428		0332207402	160521			93BB6M092BA	160469
164761113500	160354		0333402501	160423			93BB6M092AA	160469
19505104300	160353		0333402505	160441			FB006M092BA	160418
195051104300	160353		0333402506	160441			FB006M092CB	160418
59469230	160354		0333402507	160443			V85AB9P704AA	160354
605078062	160428		0333402508	160443				
605078070	160428		0333402509	160424				
605139290	160428		0333402512	160420				
605228760	160352		0333402513	160425				
605343160	160353		0333402515	160442				
AUDI see VW			0333402516	160442				
BERU			0333402517	160424				
GR001	160420		0333402520	160428				
GR031	160421		0333402524	160425				
GR034	160432		0333402525	160430				
GR049	160442		0334200045	160242				
GR054	160436		0335200003	160242				
GR059	160423		0335200004	160242				
GR061	160451		0335200005	160244				
GR062	160439		0335200006	160244				
GR063	160452		0335200012	160242				
GR064	160416		0335200013	160242				
GR065	160424		0335200016	160244				
GR066	160425		0335200017	160244				
GR067	160438		0335200022	160242				
BMW			0335200023	160242				
1285085	160457		0335200027	160242				
13631273139	160416		0335200028	160242				
13631276264	160352		0335200029	160244				
BOSCH			0335200030	160244				
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0250201952	160424		0335200036	160242				
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0280230005	160352		0335200038	160242				
0280230006	160354		0335200041	160244				
0280230009	160353		0335200043	160242				
0280230014	160354		0335200044	160244				
0280230016	160352		0335200045	160242				
0280230018	160353		0335200050	160305				
0281003005	160432		0335200051	160305				
0281003006	160434		0335200052	160242				
0281003009	160436		0335200053	160242				
0281003012	160434		0335200054	160242				
0281003096	160449		0335200058	160242				
0281003098	160419		0335200066	160242				
0281003099	160421		0335200067	160244				
0332014119	160282		0335200068	160242				
0332014125	160265		0335200073	160242				
0332014150	160265		0335200075	160242				
0332014151	160265		0335200078	160243				
0332014203	160266		0335200160	160263				
0332014409	160083		0335215140	160262				
0332015001	160168		0335215143	160262				
0332015002	160169		0335215150	160199				
0332017100	160365		0335215154	160199				
0332017103	160363		0335215250	160286				
0332204101	160308		0335402009	160262				
0332204113	160308		3334485007	190767				
0332204125	160081		3334485008	190766				
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02386	160423							
02388	160423							
02389	160424							
02393	160425							
02394	160424							
02395	160429							
02396	160438							
CITROEN <i>see Peugeot</i>								
4686062	160428							
CHRYSLER								
FERRARI								
124717	160354							
311609	160423							
62370600	160353							
FIAT								
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4320622	160308							
4320627	160308							
43423043	160435							
46414088	160433							
46423043	160435							
46428175	160426							
46438456	160464							
4792112	160424							
5882107	160308							
5946920	160427							
5946932	160354							
5973754	160426							
5990986	160424							
60507807	160428							
605139290	160428							
60522876	160352							
60534316	160353							
60800123	160354							
7576067	160353							
75896560	160426							
7617640	160427							
7628059	160353							
76647630	160426							
7717686	160352							
7717886	160352							
7726125	160424							
7735921	160433							
7750753	160354							
7750754	160353							
961595948	160434							
FORD								
1630263	160418							
1630363	160418							
1652479	160419							
6107322	160348							
6132248	160418							
6143688	160416							
6145938	160350							
6161570	160350							
6171402	160418							
6194291	160419							
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6756612	160419							
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84FB6M092CA	160418							
84FB6M092CB	160418							
85AG9P704AA	160350							
85GG9P704AA	160350							
88BG8B658AA	160416							
89FB6M092AA	160419							
90BB6M092BA	160419							
90BB6M092BB	160419							
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TPD1212	160423							
TPFF612	160419							
HELLA								
4DB001887-001	160243							
4DB001887-002	160243							
4DB001887-021	160243							
4DB001887-022	160243							
4DB002478-171	160242							
4DB002895-011	160242							
4DB002895-012	160242							
4DB003675-001	160261							
4DB003750-071	160242							
4DB003750-151	160242							
4DB004124-002	160341							
4DB004124-003	160312							
4DB004225-001	160305							
4DM001861-181	160262							
4DM003360-001	160244							
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4DM003460-027	160314							
4DM003640-051	160305							
4DM003640-052	160305							
4DM003944-041	160262							
4DN003438-007	160263							
4DN003438-011	160263							
4DN003438-047	160263							
4DN003438-067	160263							
4DN003438-127	160263							
4DN003438-171	160263							
4DN003438-201	160286							
4DW002834-121	160286							
4DW002834-147	160286							
4DW002834-201	160286							
4DW003944-051	160199							
4RA003437-041	160239							
4RA003437-047	160239							
4RA003437-051	160240							
4RA003437-057	160240							
4RA003510-081	160083							
4RA003510-091	160215							
4RA003510-111	160282							

PART 11

CROSS REFERENCE LIST



HELLA <i>continued</i>	Cargo	Cargo	Cargo	Cargo
4RA003510-157	160307	132020	160372	0125458832
4RA003510-267	160265	132021	160373	160705
4RA007782-011	160363	132022	160374	0125458932
4RD001838-011	160081	132023	160375	160707
4RD001838-021	160216	132024	160374	0255455432
4RD003520-031	160308	132025	160362	160449
4RD003520-071	160337	132029	160463	2018210047
4RD003520-081	160081	132030	160441	160287
4RD003520-091	160216	132031	160442	
4RD003520-131	160308	132032	160443	
4RD007783-011	160365	132033	160444	
4RD007794-021	160403	132034	160445	
4RD007794-031	160403	132035	160446	
4RP008189-001	160348	132036	160447	
4RP008189-021	160350	132037	160448	
4RP008189-031	160352	132038	160449	
4RP008189-041	160352	132039	160450	
4RP008189-051	160295	132040	160353	
4RP008189-061	160372	132041	160354	
4RP008189-071	160373	132050	160423	
4RP008189-081	160374	132051	160424	
4RP008189-091	160375	132052	160425	
4RP008189-101	160362	132053	160426	
4RP008189-111	160353	132054	160427	
4RP008189-121	160354	132055	160428	
4RV008188-001	160441	132056	160429	
4RV008188-011	160442	132057	160430	
4RV008188-021	160443	132059	160427	
4RV008188-031	160444	132060	160416	
4RV008188-041	160445	132061	160420	
4RV008188-051	160446	132062	160421	
4RV008188-061	160447	132063	160422	
4RV008188-111	160426	132064	160417	
4RV008188-121	160427	132065	160418	
4RV008188-131	160428	132067	160419	
4RV008188-141	160429	132071	160458	
4RV008188-151	160430	132072	160461	
4RV008188-161	160416	132073	160451	
4RV008188-171	160420	132075	160438	
4RV008188-179	160420	132076	160439	
4RV008188-181	160421	132077	160440	
4RV008188-201	160417	132080	160431	
4RV008188-211	160418	132081	160432	
4RV008188-221	160419	132082	160433	
4RV008188-241	160438	132083	160434	
4RV008188-251	160439	132084	160435	
4RV008188-261	160440	132085	160436	
4RV008188-271	160431	132096	160452	
4RV008188-281	160432			
4RV008188-291	160433			
4RV008188-301	160434			
4RV008188-311	160435			
4RV008188-321	160436			
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8JA715606-001	190767			
HUCO				
132000	160348			
132002	160350			
132010	160352			
132011	160352			
132012	160295			
132013	160295			
132014	160295			
132015	160352			
132016	160352			
KUBOTA				
3518110	160311			
KÄSSBOHRER				
0055454532	160444			
737515000	160443			
73751591000	160441			
LANCIA				
5946923	160354			
LUCAS				
DSC02	160424			
DSC07	160427			
DSC18	160417			
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FDB502	160350			
FDB503	160348			
FDB504	160295			
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FDB506	160354			
FDB508	160372			
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FDB510	160374			
FDB511	160375			
HDC101	160423			
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HDC103	160425			
HDC104	160420			
HDC105	160418			
HDC107	160427			
HDC108	160416			
HDC111	160419			
HDC113	160417			
HDC114	160458			
HDC115	160444			
HDC116	160441			
HDC117	160443			
HDC118	160442			
HDC121	160428			
HDC122	160426			
HDC124	160438			
HDC125	160436			
HDC126	160434			
HDC127	160421			
HDC128	160469			
SFB165	160314			
MAGNETI MARELLI				
REP1A	160423			
SE138992100A	160427			
MERCEDES BENZ				
0008213347	160467			
0015451832	160456			
0015452232	160454			
0015455405	160394			
0015455605	160466			
0015459732	160441			
0015459832	160443			
0025424232	160442			
0025424332	160442			
0025450532	160441			
0025450632	160443			
0025451905	160470			
0025452005	160470			
0025452105	160470			
0025454232	160442			
0025454332	160442			
0035451032	160455			
0035451905	160470			
0035452005	160470			
0035452532	160444			
0054524532	160444			
0075451632	160448			
0075459832	160445			
0075459932	160447			
0085450032	160446			
0085450132	160463			

O.E.M. names and numbers are used for reference purposes only.

	Cargo		Cargo		Cargo		Cargo
NIPPONDENSO			Cargo		Cargo		Cargo
056700-4800	160479	95534787	160423	899019	160416	03283	160337
056700-4810	160480	9601329480	160354	899020	160416	03523	160337
NISSAN		96053749	160431	899028	160469	03601	160282
01501081-0	160282	96117510	160431	899030	160419	03608	160311
01505634-0	160311	96141677	160432	899045	160419	102180	160423
01505997-0	160282	96165823	160436	899046	160419	245600	160423
01506377-0	160311	96165824	160434	899047	160469	245603	160424
01506437-0	160282	9616582480	160434	899102	160416	245604	160425
01506584-0	160308	9619879180	160570	899107	160420	245606	160429
25230-89978	160480	96252036	160432	899108	160444	245607	160438
26350-G9801	160276	9999163554	160354	899117	160458	245609	160431
OPEL			RENAULT			VAUXHALL	
09287211	160311	5000409614	160417	899136	160421	091097769	160416
1238532	160416	7700102036	160439	899138	160419	091108750	160416
1238537	160416	7700107794	160461	899139	160421	VW	
1238539	160295	7700590793	160316	899149	160448	171911261A	160420
1238540	160295	7700702747	160425	899151	160445	171911261B	160420
1238542	160352	7700708960	160352	899152	160447	171911261D	160421
1238549	160295	7700715675	160352	899153	160446	171911261E	160421
1238550	160297	7700721268	160354	899163	160456	191906363	160362
1238563	160352	7700733390	160429	899164	160454	191911261A	160421
1238565	160416	7700751089	160425	899169	160422	191911261B	160420
1238566	160352	7700757776	160425	899176	160417	191911261C	160421
1238621	160311	7700790579	160438	899179	160441	1J0906381A	160637
1238966	160295	7700851443	160438	899180	160443	3059060591	160352
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90240651	160416	7700863626	160439	899195	160442	321906059E	160374
90464952	160416	7700866727	160451	899199	160455	321906059F	160374
PARIS RHONE / VALEO		7700867374	160438	899626	160337	321906059G	160375
102180M	160423	7700867558C	160461	899627	160308	321906059H	160372
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105857	160423	7700870715	160452	899744	160308	191911261A	160421
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145205	160354	7700870715B	160452	899784	160337	191911261C	160421
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598111	160424	9611751080	160431	899839	160337	3059060591	160352
598113	160423	ROVER GROUP		899932	160394	321191261C	160422
598115	160424	HCJ100110	160436	899957	160394	321906059D	160374
598116	160431	NCJ100110	160436	SUZUKI		321906059E	160374
598119	160432	PRC5020	160424	163547	160311	321906059F	160374
598120	160431			38610-85C00	160315	321906059G	160375
598121	160436	SEAT				321906059H	160372
598124	160434	0581CR01	160424	SWF		321906363	160362
598126	160436	0581CR1	160424	611012	160316	321911261C	160422
598127	160436	058CR01	160424	611013	160317	357906363	160362
598131	160453	SIEM		611100	160242	357906381A	160637
655117	160308	05879900	160423	611101	160244	357911253	160460
655504	160308	06421900	160424	611102	160243	357911253A	160459
655533	160282	08110900	160425	611107	160305	443906059	160374
655522	160353			611108	160305	443906059A	160374
655547	160354	SIEMENS		611111	160315	443907385	160374
7920076593	160423	5WK1636	160297	611112	160315	443907385B	160375
91000409	160354	5WK1640	160297	611114	160262	443907385C	160372
9100040980	160354	5WK2205	160374	611115	160199	443907385E	160373
91515869	160424			611116	160315	443907385F	160373
9151586980	160424	STRIBEL				443907385G	160372
91541882	160354	896399	160401	TALBOT		443907385H	160372
9250883280	160423	898151	160401	B515867	160424	443907385J	160373
9250888280	160423	898160	160400			443907385K	160373
92515667	160424	898174	160470	90987-01001	160479	443911261	160421
9251586780	160424	898211	160466	90987-01003	160479	X03952671	160353
92515869	160424	898244	160353	90987-02001	160480		
9251586980	160424	898270	160467	90987-02004	160480		
9549299580	160423	898326	160400	90999-99088	160479		
95496621	160353	898416	160470	90999-99089	160480		

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	Cargo		Cargo
VOLVO			
1326730	160352	50237009	160459
1347603	160401	50237010	160460
1348600	160400	51204003	160348
1363438	160458	51216001	160416
2223608	160401	51216002	160416
2223639	160400	51216003	160416
285227	160352	51216901	160421
30872555	160461	51223908	160352
30873658	160461	51223909	160352
3285227	160352	51233001	160421
3523608	160401	51233006	160421
3523639	160400	51299002	160424
35601160	160416	51299003	160431
3650116	160416	51299004	160432
9162987	160458	51299006	160431
		51299007	160453
WEHRLE		51401004	160466
10485007	190767	54201006	160305
10485008	190766	54201030	160305
10700005	191026	54201101	160242
13132030	160441	54201102	160243
13132031	160442	54201103	160244
13132032	160443	54201108	160314
13132033	160444	54212001	160314
13132034	160445	54229001	160263
13132035	160446	54229002	160263
13132036	160447	54401101	160261
13132037	160448	54407006	160262
13731048	160425	54407008	160199
13735045	160438	54414501	160281
13735052	160425	54414504	160286
20200000	160282	58235001	160462
20200006	160282	60201001	160297
20200100	160080	60215005	160287
20200102	160155	73505412	160429
20200111	160239		
20200140	160155		
20201000	160308		
20201100	160081		
20201101	160403		
20201103	160270		
20206100	160267		
20207100	160265		
20210100	160083		
20211100	160316		
20400000	160307		
20400100	160082		
20400102	160473		
20400111	160240		
20401000	160337		
20401100	160216		
20401103	160271		
20406100	160268		
20407100	160266		
20410100	160215		
20411100	160317		
21203100	160168		
21403100	160169		
22200111	160239		
22400111	160240		
29200006	160363		
29200045	160364		
29201005	160365		
29201045	160366		
29201075	160367		
29401000	160368		
29401041	160521		
50205002	160295		
50205603	160295		

O.E.M. names and numbers are used for reference purposes only.



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