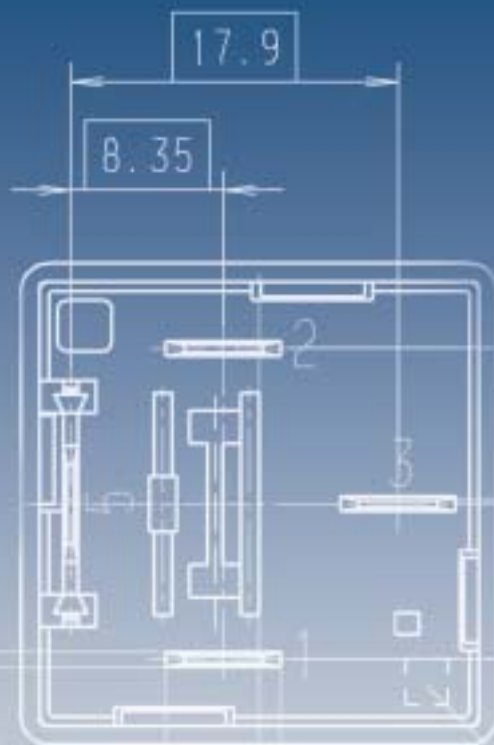




ELECTRICS
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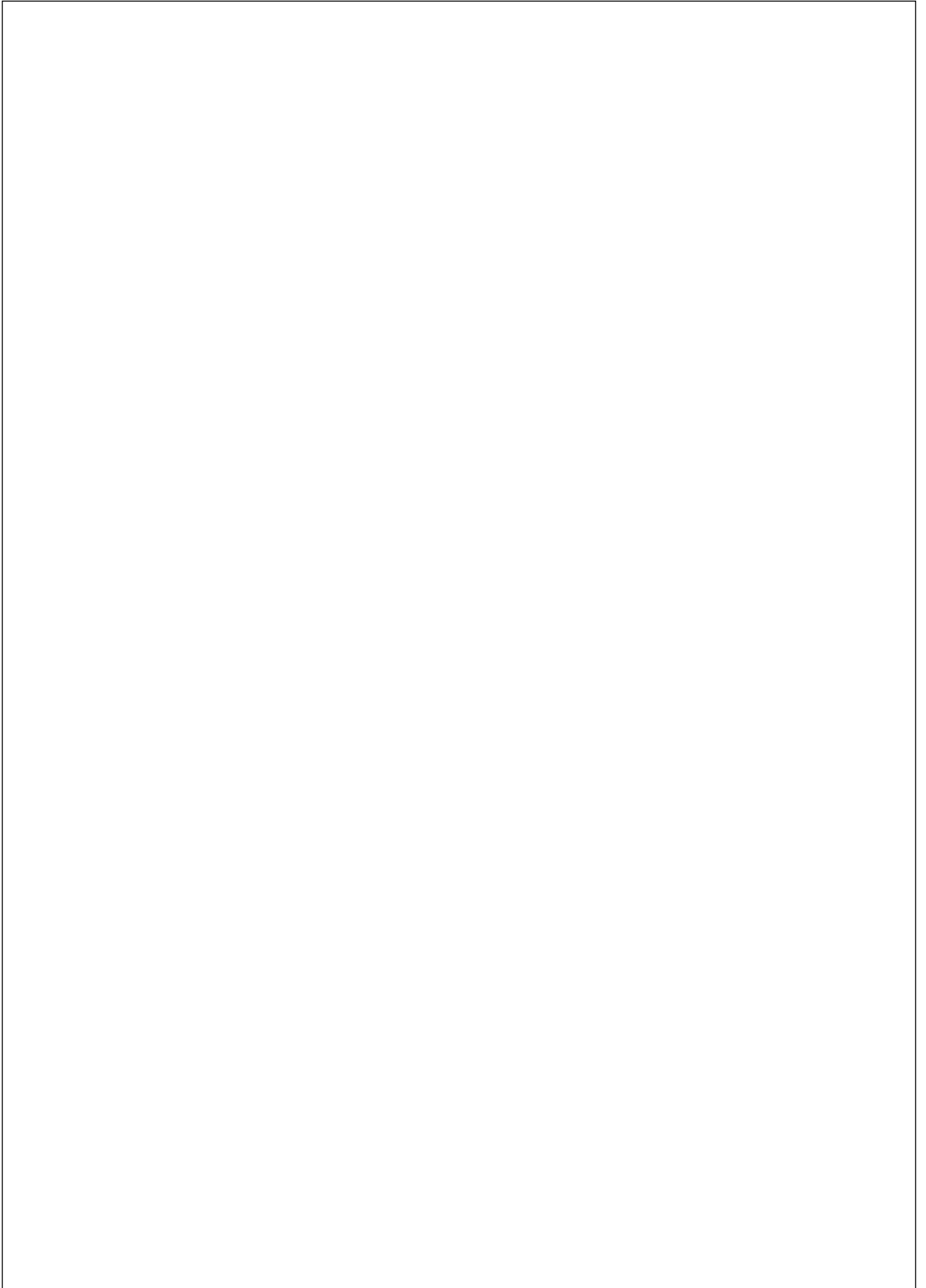


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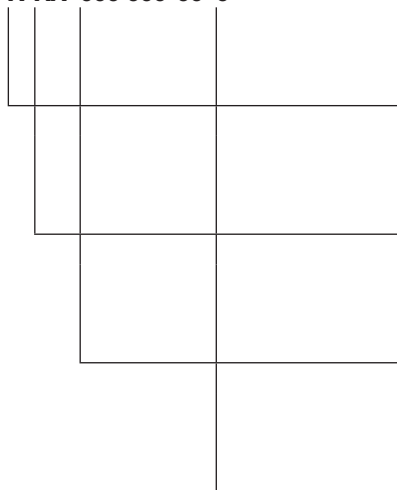


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X XX 000 000-00 0



1st position:
Sales article group

2nd/3rd position:
Product description: Function / Type

Part number (material number)

Packing index (PAI)

Classification number
(CNR)

Material number for sales
item

X XX 000 000-00 0



Sales item groups

- 1 = Headlamps, headlamp inserts
- 2 = Lights
- 3 = Acoustic signal units
- 4 = Flasher units and relays
- 5 = Control, regulating and monitoring units
- 6 = Switches, controllers, regulators, sensors
- 7 = free
- 8 = Special equipment and parts
- 9 = Components and groups of components for original equipment and replacement parts



3. Acoustic signal units

3 . . Version	Size
3 A A Horns	Ø 125
3 A F Supertone	Ø 125
3 A G Supertone-2 units	Ø 125
3 A L Horns	Ø 100
3 A M Horns 2 units	Ø 100
3 B A Horns	Ø 115
3 B B Horns 2 units	Ø 115
3 C A Horns	Ø 130
3 C B Horns 2 units	Ø 130
3 F A Trumpet-type	exterior
3 F B Trumpet-type 2 units	exterior
3 F G Trumpet-type	interior
3 F H Trumpet-type 2 units	interior
3 P A Compressed air, Gas	
3 P B Compressed air double	
3 P D Compressed air triple	
3 S B Buzzer	
3 S L Electronic signaling devices	
3 T A Speakers	

4. Flasher units and relays

4 . . 2nd position: Function

Flasher units electronic

- 4 A . Direction (without warning light)
- 4 D . Direction and hazard
- 4 J . Other flasher units

Flasher units mechanical

- 4 N . Direction (with warning light)
- 4 P . Direction and hazard
- 4 L . Other flasher units

4 . . 3rd position: Loading conditions

	Vehicle	1. Trailers	2. Trailers
4 . A	1		
4 . B	2		
4 . D	3		
4 . E	4		
4 . H	1	1	
4 . J	1	1	1
4 . M	2	1	
4 . N	2	1	1
4 . T	2	3	
4 . W	3	1	
4 . X	3	2	
4 . Z	Independent of load		

Relays

- 4 R A Make contact relays (main current)
- 4 R B Break contact (quiescent current)
- 4 R C Bistable relays
- 4 R D Changeover relays
- 4 R K Combined relays
- 4 R P Fuel pump relays
- 4 R V Pre-heating relays

5. Control, regulating and monitoring units

5 . . Function

Acoustics

- 5 A B Tone cycle control devices

5. Control, regulating and monitoring units

Driver assistance systems ADAS

- 5 B A ACC - components (Adaptive Cruise Control)
- 5 B B LDW - components (driving lane sensor)
- 5 B C NV - components (night vision system)
- 5 B D RVC - components (reversing camera)
- 5 B E SOW - components (lane change assistant)
- 5 B F Stop & Go - components
- 5 B G Replacement/OEM parts

Other control units and controllers (for cars)

- 5 D A Rotational frequency, reducer, engine control unit, ignition modules
- 5 D B Exhaust-emissions control units
- 5 D C Combination control units, e.g. Rain / light
- 5 D D Pulse starter devices
- 5 D E Drive-train control units
- 5 D F Light control units, e.g. dimmer, dipped, daytime running, power module
- 5 D G Gearbox control units
- 5 D K Combination control units
- 5 D L Axle control units
- 5 D R Regulators for alternators
- 5 D S various control units, e.g.: MTR-, PLV-, PSLV-, PSPV-, PSV-, SNA-, power-assisted steering, window lifting, headlight, headrest, sunroof, ITR power module, current regulator, trailer coupling devices
- 5 D V GDL ballast system (EVG)
- 5 D Z Time control units

Remote control (IR and radio)

- 5 F A Transmitters, transponders, antennae
- 5 F B IR receivers
- 5 F D IR control units

Speed

- 5 G A GR control units
- 5 G M GR control modules

Heating, air-conditioning

- 5 H A Rear window heat regulator
- 5 H B Heating control devices (additional heating), temperature control devices
- 5 H E Time switch, starter control unit
- 5 H J Pulse generator
- 5 H L Fan/ventilator regulator

Central monitoring systems

- 5 K G Bulb, speaker, beacon (KL) multiple monitoring devices, cold-start interrogation adapter
- 5 K H Evaluation units, engine speed monitors, oil pressure monitors

Light range/headlight levelling

- 5 L A Headlight leveller control unit, headlight leveller power module

Sensors

- 5 M A Sensors (old group) For new systems see 6 P.

Anti-theft protection (robbery and theft)

- 5 R D Anti-theft warning systems with components, e.g.: Alarm control units, inclination sensors, immobiliser relays, immobiliser control units, fuel non-return valves

Safety

- 5 S A Warning control units
- 5 S B Passive-restraint control units
- 5 S D ABS units
- 5 S E ASR control units
- 5 S F Braking control units
- 5 S G ACD control units

Wash-wipe

- 5 W B Wash-wipe control units
- 5 W D Washing control units
- 5 W F Wiper intermittent control units
- 5 W G Wash-wipe intermittent control units

Other (not for cars)

- 5 X A Control units

Central locking

- 5 Z A Central locking control units

6. Switches, controllers, regulators, sensors

Switches

2nd position: Functions

3rd position: Design

<p>6 . .</p> <p>6 A . Dipped-beam</p> <p>6 B . Flasher</p> <p>6 D . Stop light</p> <p>6 E . On/Off</p> <p>6 F . Change-over</p> <p>6 G . On</p> <p>6 H . Hazard flasher</p> <p>6 J . Starter / ignition</p> <p>6 K . Dim</p> <p>6 L . Light</p> <p>6 M . with additional function</p> <p>6 R . Combination 2 functions</p> <p>6 S . Combination 3 functions</p> <p>6 T . Combination more than 3 functions</p> <p>6 Z . Special</p>	<p>6 . .</p> <p>6 . A Steering columns</p> <p>6 . B Rotary</p> <p>6 . Z Pull</p> <p>6 . E Pull/Rotary</p> <p>6 . F Push-button</p> <p>6 . G Toggle</p> <p>6 . H Rocker</p> <p>6 . J Foot-operated</p> <p>6 . K Key-operated</p> <p>6 . L hydraulic</p> <p>6 . M Push-button</p> <p>6 . N Electric</p> <p>6 . P pneumatic</p> <p>6 . T Thermal</p> <p>6 . Z mechanical</p>
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Regulators, Actuators

3rd position: Functions

<p>6 N .</p> <p>6 N B LW regulator, hydraulic (actuator + sensor circuit)</p> <p>6 N A LW regulator, hydraulic (actuator circuit)</p> <p>6 N E GR actuators, electric</p> <p>6 N G GR actuators, pneumatic</p> <p>6 N H LW manual adjustment, hydraulic</p> <p>6 N J LW manual adjustment, hydraulic (actuator circuit)</p> <p>6 N L LW actuators, pneumatic</p> <p>6 N M LW actuators, electric</p> <p>6 N V other pneumatic actuators, e.g. ZV-actuators</p> <p>6 N W other electric actuators, e.g. Fuel tank inlet cover actuator, micro actuator</p>

Sensors

3rd position: Functions

<p>6 P .</p> <p>6 P A Lambda sensor</p> <p>6 P D LW regulator, hydraulic (sensor circuit)</p> <p>6 P A Rotational angle, steering speed</p> <p>6 P F humidity</p> <p>6 P G Noise</p> <p>6 P K Combination, e.g. Rain / light</p> <p>6 P L LW, pneumatic</p> <p>6 P M LW, electric</p> <p>6 P R Level, e.g. Thermal oil level sensor</p> <p>6 P T Temperature, e.g. Sun sensor</p> <p>6 P J LW manual adjustment, hydraulic (sensor circuit)</p> <p>6 P U Rotational frequency</p> <p>6 P V Distance, e.g. Accelerator pedal</p> <p>6 P W Optical sensor, flame indicator, SZE</p> <p>6 P X Other sensors, e.g. US, MW, passenger compartment sensor groups</p> <p>6 P Z Radar sensors with integrated evaluation</p>
--

7. free

Definition of abbreviations see page 10

8. Special equipment and parts

8 . . Functions

Tank

8 B L	Air - tank
8 B W	Water - tank

CELIS - Components

8 C A	Light output body
8 C L	Light guide
8 C M	Light modules

Electrical devices

8 E A	Starters
8 E B	Batteries
8 E F	Window controls
8 E G	Heater plugs
8 E K	Coolers
8 E L	Alternators
8 E R	On-board computer/bicycle computer
8 E S	Battery charging, interference suppression, charge equalisation devices, voltage reduction units, voltage monitors, voltage transformers, transformers
8 E T	Measuring instruments
8 E U	Clocks
8 E V	Fans, vacuum cleaners
8 E W	Blowers for heating/air-conditioning units
8 E Z	Cigarette lighters

Air-conditioning system components

8 F A	Clutch assembly
8 F C	Condenser
8 F F	Screw connection
8 F K	Compressors
8 F L	Air filter
8 F S	Coolant hose
8 F T	Dryer
8 F U	Retrofit kits
8 F V	Evaporators
8 F X	Liquids
8 F Z	Other accessories for air-conditioning

Bulbs

8 G A	Single filament bulbs
8 G D	Twin-filament bulbs
8 G H	Halogen single filament bulbs
8 G J	Halogen twin-filament bulbs
8 G E	LED: blocks, groups, trim
8 G M	Festoon bulbs
8 G P	Small bulbs
8 G S	Special bulbs, glow-discharge lamps, flash lamps (strobe headlight), xenon flash tubes

Fixings

8 H G	Accessory fixing support
8 H K	Hose clips
8 H L	Mounting straps, cable ties
8 H S	Mounting clips, cable clips

Electrical installations

8 J A	Connectors
8 J B	Sockets, connectors
8 J D	Fuse boxes, fuse holders, connector housing, receptacle
8 J E	Central electrical unit, equipment support
8 J R	Installation tubes
8 J S	Fuses
8 J Z	Spark plug cap, spark plug adapter, distributor cable

Leads, lead connections

8 K A	Leads (assembled)
8 K B	Cable groups (cable harnesses)
8 K L	Cables (running meter)
8 K V	Cable connector
8 K W	Crimp connectors, flat plugs, cable lugs, flat pin bushings, plug connectors, splice-connectors
8 K X	Battery terminals, earth straps

Definition of abbreviations see page 10

8. Special equipment and parts

Test equipment and tools

- 8 P A Beamsetters
- 8 P B Headlight levelling sensor setting device
- 8 P D Testing instruments, test adapters, floor space testing instruments
- 8 P E Tools
- 8 P L Light meter
- 8 P V Aiming device

Reflex-Reflectors

- 8 R A Reflex-Reflectors
- 8 R B Reflex-reflectors MR
- 8 R L Reflectors for delineators
- 8 R W Warning triangle

Mirrors

- 8 S A External mirror for cars
- 8 S B External mirror for commercial vehicles, vans, buses
- 8 S D Special, e.g. Caravan extension towing mirrors

Pumps

- 8 T G Pneumatic pumps, electric
- 8 T L Control pumps
- 8 T M Pneumatic pumps, mechanical
- 8 T N ZV control units, pneumatic/electronic
- 8 T S ZZH control units pneumatic/electronic
- 8 T U GR control units, pneumatic
- 8 T V EDS control units, pneumatic
- 8 T W Electric pumps, liquid media
- 8 T Z ZP control units, pneumatic/electronic

Valves, tubular connecting pieces

- 8 U K Flat/shutter tubular pieces
- 8 U L Aeration valves
- 8 U M Pneumatic valves
- 8 U W Hydraulic valves

Sales promotional articles

- 8 V A Rally wear, toys etc.

Washers (WSRA)

- 8 W A Screen washer kits
- 8 W B Water reservoir with pump
- 8 W D Jets (for windscreen/rear screen)
- 8 W M Motor pumps
- 8 W P Mechanical pumps
- 8 W S Water jet washing systems, headlight washer (SRA-S)
- 8 W T Pop-up jets, telescopic units, telescopic jet units
- 8 W V Valves, distributors, T-piece
- 8 W W Wiper, wash-wipe system

Other special accessories

- 8 X A Rear spoiler
- 8 X B Fuel tank, oil reservoir
- 8 X C Carrier systems
- 8 X D Front spoiler
- 8 X E Rear spoiler with signal lamps, e.g. SML
- 8 X F Foot mats
- 8 X H Hollow components (blow moulded parts)
- 8 X J Blinds, curtains
- 8 X K Radiators
- 8 X L Steering wheels, steering wheel adaptors, eccentric rings,
- 8 X M Front end module
- 8 X P Plaques
- 8 X S Frost shades, light cabinets, covers, boxes, protective caps, bags
- 8 X T Tripods, bases
- 8 X U Decorative parts, trim panels
- 8 X X Various devices, e.g. dummies, LWR mounting kit
- 8 X Y Filler caps
- 8 X Z Wheel trim

Definition of abbreviations see page 10

9. Components and groups of components for original equipment and replacement parts

Frames, rims

- 9 A B Outer rims
- 9 A G Lens-retaining rims
- 9 A H Supporting frames
- 9 A L Adjusting frames
- 9 A R Frames, grills, spoilers
- 9 A R Lens holders

Bodies and base plates

- 9 B G Body
- 9 B P Base plates
- 9 D E Angular reflectors
- 9 D F Angular reflectors with lens
- 9 D R Round reflectors
- 9 D S Round reflectors with lens
- 9 D V Sealed beam light units
- 9 D X Other reflectors

Lenses, reflecting discs

- 9 E L Lens body with lens, dome, lens with rim
- 9 E M Lens with reflector as light unit for lights
- 9 E S Diffusing lenses; cover lenses
- 9 E V Clip-on, supplementary lens, protective, additional light lenses, filters
- 9 E W Lenses
- 9 E X Reflector lenses
- 9 E Y Mirror faces

Bulb holding devices

- 9 F F Bulb-sockets
- 9 F H Bulb-holders
- 9 F T Bulb socket supporting plates
- 9 F X Adapter socket

Parts made of elastomers

- 9 G D Seals, bases, nozzle holders
- 9 G H Protective coverings, caps
- 9 G P Supports, vibration dampers
- 9 G R Rings, discs, bushes
- 9 G S Hoses
- 9 G T Grommets
- 9 G X Sleeves, flaps with convoy cross, suction pads, diaphragms

Covers, shields, fasteners

- 9 H B Covers, dummies, shields, screens
- 9 H D Covers, caps
- 9 H G Protective grilles
- 9 H V Fasteners

Springs (leaf and wire springs)

- 9 K B Retaining springs, spring clips
- 9 K D Compression, tension springs
- 9 K K Contact springs
- 9 K S Lens-retaining springs
- 9 K X Other springs, switching springs, contacts

Electrical and electromechanical components, insulators

- 9 M A Armatures, hot wire armatures, magnets, magnet cores
- 9 M J Insulators, insulating tape
- 9 M K Contact elements, switch elements, connecting terminals, printed circuit boards, contact breakers, slip rings, tappets, wires, bridges, terminals
- 9 M L Electronic components
- 9 M M Diaphragms, loudspeakers, microphones, oscillators
- 9 M N Motors, compressors
- 9 M P Motor components
- 9 M S Coils, housing with coils, systems, timing-pulse generators
- 9 M X Heating elements, glass units heated / unheated, glass supports, mirror glass, hot wires

Definition of abbreviations see page 10

9. Components and groups of components for original equipment and replacement parts

Standard parts, frequently used components

- 9 N B Bolts, pins, split pins, cotter pins
- 9 N H Sleeves, spacers, spacer rings, tubes
- 9 N M Nuts, screw pipe joints, threaded bushes
- 9 N N Rivets
- 9 N S Screws
- 9 N U Washers, spring washers, toothed disc, circlips, thrust collars
- 9 N V Speed-Fix, sheet-metal nuts
- 9 N X Ball bearings, metal balls, miscellaneous

Drive components, control elements

- 9 S G Drive components, handles, wheels, shafts, circular handle, gear lever knob, component, shaft
- 9 S H Lever, gear lever, gear shift rods
- 9 S K Knobs, rotary knobs
- 9 S L Keys
- 9 S T Push button keys
- 9 S V Adjustments, Bowden cables, adjusting display
- 9 S X Other drive and control elements (RTK unit)

Other components and groups of components

- 9 X A Unfinished components, e.g. Circular blanks
- 9 X B Partitions, clips, flanges, limit stops, rods, holders, threaded couplings, feet, pressure rings, plates, heat dissipation plates, heat sinks, articulated element, connecting element
- 9 X D Fastening pieces, angles, brackets, detent piece, adapters, spacers
- 9 X F Trumpets
- 9 X G Boxes, air nozzle, air showers
- 9 X H Auxiliary material, e.g. Adhesive
- 9 X K Valves, valve nozzles, nozzle heads, nozzle units
- 9 X L Valves, distributors, T-piece, stop T-piece, connector, hose connector, lambda reducer
- 9 X M Production material
- 9 X P Packing material: label, folding box, tissue paper, intermediate layers
- 9 X R Propeller, rotating discs, drive belts
- 9 X S SEG parts: rails, rollers, etc.
- 9 X T Nameplate, scales, labels, installation instructions
- 9 X W Wiper arms, wiper blades
- 9 X X Miscellaneous parts and groups of parts, e.g. connecting sets, segments, operating consoles, supply conduits

Special parts / third-party components

- 9 Z Z Turntables
- 9 Z U Blanks/stampings (for third-parties)
- 9 Z X Die-cast and extrusion moulded parts
- 9 Z Y Injection moulded parts, general special parts
- 9 Z . Advertising material

Definition of abbreviations

Codes

- ABS Anti lock brake system
- ACC Adaptive Cruise Control
- ACD Active- Controlled-Dumping (shock absorbers)
- ADAS Active drive assist system
- AFS Adaptive Frontlighting
- ASR Traction control system
- B Stop light
- BL Indicator
- BLZ Flashlight
- D Double lights
- DKN Overhead consoles
- DR Triangular reflex-reflectors
- EDS Electronic differential lock
- EVG Electronic ballast system
- GDL Gas discharge bulb
- GR Speed
- IR Infrared
- ITR Passenger compartment temperature control
- K Licence plate light
- KL Beacons
- LDW Driving lane sensor
- LED Light diode
- LW Light range/headlight levelling
- MR Marker reflectors
- MTR Engine temperature control
- MW Microwave
- NES Rear fog light
- NV Night vision system
- PA Parking light
- PLV Programmable steering column adjustment
- PO Marker lights, clearance lights
- PSLV Programmable seat and steering column adjustment
- PSPV Programmable mirror adjustment
- PSV Programmable seat adjustment
- R Reflex-Reflectors
- RTK Rotating beacons-sound combination
- RVC Rear view camera
- S Tail light
- SEG Headlight-adjusting unit
- SML Side marker light
- SMLR Combination of SML and SMR
- SMR Side marker reflectors
- SNA Automatic inertia utilisation
- SOW Lane change assistant
- SRA-S Water jet washing systems, headlight washer
- SW Headlights
- SWBL Hazard warning light
- SZE Road condition recognition
- T Daytime running light
- UR Clearance light
- US Ultrasound
- WSRA Washer and cleaning systems
- ZB Auxiliary brake light
- ZBL Auxiliary indicator
- ZP Central pneumatics
- ZR Auxiliary reversing light
- ZV Central locking
- ZZH Door-closing assistance



Flasher units Application Chart for cars Application Chart for light commercial vehicles Application Chart for commercial vehicles and buses Application Chart for agricultural and construction machinery Product descriptions Connecting- and clamping descriptions	
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Flasher Units

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Flasher Units

Alfa Romeo - Citroën



1

Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Alfa Romeo				BMW			
145 (930)	07/94->01/01	4DB 006 716-041 7-pin	1	3 (E21)	09/79->04/84	4DB 003 750-711 3-pin	1
146 (930)	12/94->01/01			3 (E30)	01/83->12/93	4DM 003 360-021 4-pin, with bracket	1
155 (167)	01/92->12/97	4DB 003 750-711 3-pin	1			4DM 005 698-021 5-pin, with bracket **)	1
156 (932)	09/97->02	4DM 003 360-021 4-pin, with bracket	1	3 (E36)	12/90->	4DB 006 716-041 7-pin	1
		4DM 005 698-021 5-pin, with bracket **)	1	5 (E28)	04/81->12/87	4DB 003 750-711 3-pin	1
164 (164)	01/87->09/98	4DB 007 218-001 4-pin	1			4DM 003 360-021 4-pin, with bracket	1
		4DM 003 460-021 5-pin, with bracket	1			4DM 005 698-021 5-pin, with bracket **)	1
		4DM 005 698-031 6-pin, with bracket **)	1	5 (E34)	01/88->03/97	4DB 006 716-041 7-pin	1
Audi				6 (E24)	05/82->05/89	4DB 003 750-711 3-pin	1
A6 (4A, C4)	06/94->12/97	4DB 003 750-711 3-pin	1	7 (E23)	09/81->08/86	4DM 003 360-021 4-pin, with bracket	1
A8 (4D2, 4D8)	03/94->09/02	4DM 003 360-021 4-pin, with bracket	1			4DM 005 698-021 5-pin, with bracket **)	1
Convertible (8G7, B4)	05/91->08/00	4DB 003 750-711 3-pin without bracket	1	7 (E32)	09/86->09/94	4DB 006 716-041 7-pin	1
Coupé (81/85/89/8B)	07/80->12/96	4DB 003 750-721 3-pin with bracket	1	8 (E31)	04/90->06/99	4DB 006 716-041 7-pin	1
V8 (44_, 4C_)	10/88->02/94	4DB 003 750-711 3-pin	1	Citroën			
80 (80/82/B1/89/89Q/ 8A/B3/8C/B4)	05/72->12/96	4DM 003 360-021 4-pin, with bracket	1	AX	09/86->05/91	4DB 007 218-001 4-pin	1
90 (81/85/B2/89/89Q/ 8A/B3)	10/84->09/91	4DM 005 698-021 5-pin, with bracket **)	1			4DM 005 698-031 6-pin, with bracket **)	1
100 (C1/43/C2/44/44Q/ C3/4A/C4)	08/70->07/94			AX	06/91->	4DB 003 750-711 3-pin	1
200 (43/44/44Q)	10/79->12/91					4DM 003 360-021 4-pin, with bracket	1
BMW				BX	01/87->	4DB 007 218-001 4-pin	1
Motor cycles R45	06/78->07/85	4DB 003 750-711	1			4DM 005 698-031 6-pin, with bracket **)	1
R65	06/78->12/85						
M3 (E36)	01/94->	4DB 006 716-041 7-pin	1				
M5 (E34)	01/88->12/95						
Z3	10/95->01/03	4DB 006 716-041 7-pin	1				

**) C2 and 31 connection on top



Flasher Units

Citroën - Fiat



Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Citroën				Fiat			
Xantia	03/93->	4DB 003 750-711 3-pin	1	Marea (185)	09/96->02	4DB 003 750-711 3-pin	1
XM	05/89->	4DM 003 360-021 4-pin, with bracket	1	Mille	94->97	4DM 003 360-021 4-pin, with bracket	1
ZX	10/91->		1	Multipla (186)	04/99->		4DM 005 698-021 5-pin, with bracket **)
Daihatsu				Palio (178)	04/96->02	4DB 007 218-001 4-pin	
Applause	89->	4DM 003 360-021 4-pin, with bracket	1	Panda (141)	85->07/04		4DM 003 460-021 5-pin, with bracket
Charade	07/81->		1			4DM 005 698-031 6-pin, with bracket **)	
Charmant	07/82->						
Cuore	01/81->						
Fiat							
Barchetta (183)	03/95->	4DB 003 750-711 3-pin	1	Punto (176)	09/93->09/99	4DB 003 750-711 3-pin	1
Brava (182)	10/95->10/01	4DM 003 360-021 4-pin, with bracket	1	Punto Convertible (176C)	97->06/00	4DM 003 360-021 4-pin, with bracket	1
Bravo (182)	10/95->10/01		1	Seicento (187)	01/98->		4DM 005 698-021 5-pin, with bracket **)
				Siena	04/96->	4DM 005 698-021 5-pin, with bracket **)	
Cinquecento (170)	07/91->07/99	4DB 007 218-001 4-pin	1	Strada (178E)	06/99->		
		4DM 003 460-021 5-pin, with bracket	1	Tempra (159)	03/90->08/97		
		4DM 005 698-031 6-pin, with bracket **)	1	Tipo (160)	07/87->04/95		
Croma (154)	90->96	4DB 003 750-711 3-pin	1	Uno CS (146A7)	88->90	4DB 007 218-001 4-pin	1
		4DM 003 360-021 4-pin, with bracket	1			4DM 003 460-021 5-pin, with bracket	1
		4DM 005 698-021 5-pin, with bracket **)	1	Uno (146E)	89->95	4DB 003 750-711 3-pin	1
Duna (146B)	01/87->12/91	4DB 007 218-001 4-pin	1	Uno Mondo	95->	4DM 003 360-021 4-pin, with bracket	1
Elba	01/91->94	4DM 003 460-021 5-pin, with bracket	1			4DM 005 698-021 5-pin, with bracket **)	1
		4DM 005 698-031 6-pin, with bracket **)	1				
Elba	94->12/96	4DB 003 750-711 3-pin	1				
		4DM 003 360-021 4-pin, with bracket	1				
		4DM 005 698-021 5-pin, with bracket **)	1				

**) C2 and 31 connection on top



Flasher Units

Mitsubishi - Peugeot



Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.		
Mitsubishi				Opel					
Carisma	07/95->	4DB 003 750-391 3-pin	1	Frontera	09/91->	4DB 003 750-721 3-pin	1		
Colt	01/79->	4DM 003 360-021 4-pin, with bracket	1			4DM 003 360-021 4-pin, with bracket	1		
Eclipse	01/92->								
Galant	05/77->				Kadett E	10/84->08/91	4DB 003 750-711 3-pin	1	
Lancer	08/77->				Manta B	08/75->07/88	4DM 003 360-021 4-pin, with bracket	1	
Pajero	12/82->				Monza A	05/78->08/87	4DM 003 360-021 4-pin, with bracket	1	
Sapporo	05/78->10/83	4DM 003 360-021 4-pin, with bracket	1	Omega A	10/86->02/94	4DM 005 698-021 5-pin, with bracket **)	1		
Sigma	02/91->				Omega B		03/94->		
Space Runner	02/92->				Rekord E		09/77->09/86		
Space Wagon	83->				Senator A		05/78->08/87		
					Senator B		09/87->08/93		
Nissan				Sintra	11/96->04/99				
Bluebird	05/80->	4DM 003 360-021 4-pin, with bracket	1	Tigra	07/94->12/00				
Cherry	10/78->12/86				Vectra A	10/88->09/95			
Maxima	89->	4DB 003 750-721 3-pin	1	Peugeot					
Micra	83->	4DM 003 360-021 4-pin, with bracket	1	106	09/91->	4DB 003 750-711 3-pin	1		
							4DM 003 360-021 4-pin, with bracket	1	
Patrol	01/79->		4DM 003 360-021 4-pin, with bracket	1			4DM 005 698-021 5-pin, with bracket **)	1	
Prairie	01/83->				205	02/83->09/98	4DB 007 218-001 4-pin	1	
Sunny	05/82->						4DM 005 698-031 6-pin, with bracket **)	1	
Terrano (WD 21)	08/87->	4DB 003 750-721 3-pin	1			4DB 003 750-711 3-pin	1		
		4DM 003 360-021 4-pin, with bracket	1	306	05/93->	4DB 003 750-711 3-pin	1		
100 NX	03/91->	4DB 003 750-721 3-pin	1			4DM 003 360-021 4-pin, with bracket	1		
			4DM 003 360-021 4-pin, with bracket	1			4DM 005 698-021 5-pin, with bracket **)	1	
280 ZX	01/79->	4DM 003 360-021 4-pin, with bracket	1	309	10/85->12/93	4DB 007 218-001 4-pin	1		
300 ZX	01/84->						4DM 005 698-031 6-pin, with bracket **)	1	
Opel									
Ascona C	09/81->09/88	4DB 003 750-711 3-pin	1						
Astra F	09/91->02	4DM 003 360-021 4-pin, with bracket	1						
Calibra	06/90->07/97								
Corsa A	03/83->02/93	4DM 005 698-021 5-pin, with bracket **)	1						
Corsa B	03/93->02								

**) C2 and 31 connection on top



Flasher Units

Peugeot - Saab



1

Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Peugeot				Renault			
605	06/89->09/99	4DB 003 750-711 3-pin	1	Laguna	04/93->	4DB 007 218-001 4-pin	1
		4DM 003 360-021 4-pin, with bracket	1	Rapid (F 40)	03/86->	4DM 003 460-021 5-pin, with bracket	1
		4DM 005 698-021 5-pin, with bracket **)	1	Twingo	06/93->	4DM 005 698-031 6-pin, with bracket **)	1
				4/5/6	01/80->		
				9	09/81->12/89		
				11	03/83->07/89		
				18	01/80->07/86		
				19	01/88->06/96		
				21	03/86->08/94		
Porsche				Rover			
911	07/68->	4DB 001 887-041 4-pin	1	Maestro	08/83->	4DB 003 750-711 3-pin	1
				Metro	03/81->	4DM 003 360-021 4-pin, with bracket	1
924	01/76->07/88	4DB 003 750-711 3-pin	1	Mini Mk II	01/80->12/83	4DM 005 698-021 5-pin, with bracket **)	1
		4DM 003 360-021 4-pin, with bracket	1	Montego	01/84->		
		4DM 005 698-021 5-pin, with bracket **)	1				
928	05/77->12/83	4DB 001 887-041 4-pin	1	100	01/91->	4DB 003 750-711 3-pin	1
						4DM 003 360-021 4-pin, with bracket	1
944	07/81->05/91	4DB 003 750-711 3-pin	1			4DM 003 360-021 4-pin, with bracket	1
		4DM 003 360-021 4-pin, with bracket	1	200		4DM 003 360-021 4-pin, with bracket	1
		4DM 005 698-021 5-pin, with bracket **)	1				
968	06/91->11/95	4DB 003 750-711 3-pin	1	213 - 216	03/85->	4DB 003 750-711 3-pin	1
		4DM 003 360-021 4-pin, with bracket	1	414, 416, 418		4DM 003 360-021 4-pin, with bracket	1
				600		4DM 005 698-021 5-pin, with bracket **)	1
				800	08/88->		
				820 - 825i	01/80->		
				2000 - 3500			
Puch				Saab			
G 230 - G 350 TD (G-Class, W 461, W 463)	06/93->	4DM 003 360-021 4-pin, with bracket	1	90	08/84->07/87	4DB 001 887-041 4-pin	1
230 G - 300 GD (W 460)	05/79->03/90	4DM 005 698-021 5-pin, with bracket **)	1				
230 GE - 350 GD (W 461, W 463)	04/90->05/93			900	10/78->08/93	4DB 003 750-711 3-pin	1
				9000	05/85->08/91	4DM 003 360-021 4-pin, with bracket	1
						4DM 005 698-021 5-pin, with bracket **)	1
Renault							
Clio	01/91->	4DB 007 218-001 4-pin	1				
Espace	07/84->	4DM 005 698-031 6-pin, with bracket **)	1				

**) C2 and 31 connection on top



Flasher Units

Saab - Toyota



Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Saab				Subaru			
9000	09/91->	4DB 006 716-041 7-pin	1	Coupé	01/85->	4DB 003 750-711 3-pin without bracket	1
Seat				Impreza			
Cordoba	01/94->	4DB 003 750-711 3-pin	1	Justy	10/84->	4DB 003 750-721 3-pin, with bracket	1
		4DM 003 360-021 4-pin, with bracket	1	Legacy	01/89->		
		4DM 005 698-021 5-pin, with bracket **)	1	Sedan, Station, Super-Station 1800	01/85->	4DM 003 360-021 4-pin, with bracket	1
				1800 II	11/84->12/90	4DM 005 698-021 5-pin, with bracket **)	1
				Suzuki			
Ibiza I	06/84->08/83	4DB 007 218-001 4-pin	1	Alto	06/82->	4DB 003 750-711 3-pin without bracket	1
		4DM 005 698-031 6-pin, with bracket **)	1	SJ Samurai	10/80->		
				SJ 413	11/84->	4DB 003 750-721 3-pin, with bracket	1
Ibiza II	09/93->	4DB 003 750-711 3-pin	1	Swift	12/83->		
		4DM 003 360-021 4-pin, with bracket	1	Vitara	10/88->	4DM 003 360-021 4-pin, with bracket	1
		4DM 005 698-021 5-pin, with bracket **)	1			4DM 005 698-021 5-pin, with bracket **)	1
				Toyota			
Malaga	05/85->	4DB 007 218-001 4-pin	1	Carina	09/80->11/87	4DB 003 750-711 3-pin without bracket	1
Marbella	01/86->	4DM 005 698-031 6-pin, with bracket **)	1	Carina II	12/87->04/92	4DB 003 750-721 3-pin, with bracket	1
						4DM 003 360-021 4-pin, with bracket	1
Toledo I	09/91->02/99	4DB 003 750-711 3-pin	1			4DM 005 698-021 5-pin, with bracket **)	1
		4DM 003 360-021 4-pin, with bracket	1				
		4DM 005 698-021 5-pin, with bracket **)	1	Celica	09/80->	4DB 003 750-711 3-pin without bracket	1
Skoda				Corolla	06/79->		
Favorit	88->	4DB 003 750-711 3-pin	1	Land Cruiser	08/80->	4DB 003 750-721 3-pin, with bracket	1
Felicia	01/95->	4DM 003 360-021 4-pin, with bracket	1	Lexus	90->		
Forman	09/91->			MR2	86->	4DM 003 360-021 4-pin, with bracket	1
105		4DM 005 698-021 5-pin, with bracket **)	1	Previa	10/90->		
				Starlet	04/78->	4DM 005 698-021 5-pin, with bracket **)	1
				Supra	86->		
				Tercel	06/79->11/87		
				4 Runner			

** C2 and 31 connection on top



Flasher Units

Vauxhall - Volvo



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Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Vauxhall				Volvo			
Astra Mk II	09/84->08/93	4DB 003 750-711 3-pin without bracket	1	440	09/88->	4DM 003 360-021 4-pin, with bracket	1
Astra Mk III	09/91->03/01						
Calibra	06/90->07/97	4DB 003 750-721 3-pin, with bracket	1	740, 745, 760	04/83->	4DB 003 750-391 3-pin	1
Carlton Mk III	09/86->03/94			940	08/90->		
Cavalier Mk II	09/81->08/88	4DM 003 360-021 4-pin, with bracket	1				
Cavalier Mk III	09/88->11/95						
Corsa	03/93->09/00	4DM 005 698-021 5-pin, with bracket **)	1				
Nova	09/82->03/93						
Omega	12/93->07/03						
Royale	02/78->08/87						
Senator	02/78->08/87						
Senator Mk II	09/87->09/93						
Sintra	09/96->04/99						
Tigra	07/94->02						
Volkswagen							
Caddy I	08/82->07/92	4DB 003 750-711 3-pin without bracket	1				
Caddy II	11/95->						
Corrado	09/88->12/95	4DB 003 750-721 3-pin, with bracket	1				
Derby	02/77->00						
Golf I, II, III	07/74->98	4DM 003 360-021 4-pin, with bracket	1				
Golf Convertible	01/79->02						
Jetta I, II	09/79->12/91	4DM 005 698-021 5-pin, with bracket **)	1				
Passat	05/73->97						
Polo I, II, III	03/75->00						
Scirocco	05/74->09/92						
Sharan	05/95->00						
Vento	01/92->10/98						
1200 (Beetle)	08/73->12/85						
1300 - 1303 (Beetle)	08/70->						
Transporter (T2)	08/70->06/79						
Transporter (T3)	07/79->12/92						
Transporter (T4)	09/90->						
Volvo							
S40 I (VS)	07/95->12/03	4DB 003 750-391 3-pin	1				
V40 I (VW)	07/95->						
242, 244, 245, 264, 265	08/74->						
343, 345, 360	06/76->						

**) C2 and 31 connection on top



Flasher Units

Fiat - Mitsubishi



Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Fiat				Mercedes-Benz			
Ducato (290)	03/89->03/94	4DB 007 218-001 4-pin	1	L 405 D - L 911 (T2/L)	->07/75	4DM 001 863-081 12V 2+1x21W 6-pin	1
		4DM 003 460-021 5-pin, with bracket	1				
		4DM 005 698-031 6-pin, with bracket **)	1	L 405 D - L 911 (T2/L)	08/75->12/88	4DM 003 390-011 12V 2+1x21W +5W 4-pin	1
Ducato (230)	03/94->04/02	4DB 003 750-711 3-pin	1	L 405 D - L 911 (T2/L)	09/82->12/88	4DB 003 675-001 24V 2x21W+5W 3-pin	1
		4DM 003 360-021 4-pin, with bracket	1	4DM 003 390-031 24V 2+1x21W +5W 4-pin	1		
		4DM 005 698-021 5-pin, with bracket **)	1				
Fiorino (146)	91->93	4DB 007 218-001 4-pin	1	MB 100	09/87->01/96	4DM 003 360-021 4-pin, with bracket	1
		4DM 003 460-021 5-pin, with bracket	1	O 309	01/70->02/89		
		4DM 005 698-031 6-pin, with bracket **)	1	207 D - 210 (T1, TN-series)		4DM 005 698-021 5-pin, with bracket **)	1
				207 D	05/77->01/89		
Fiorino (146)	93->05/01	4DB 003 750-711 3-pin	1	208 D	05/77->06/95	4DM 003 390-011 12V 2+1x21W +5W 4-pin	1
		4DM 003 360-021 4-pin, with bracket	1	210	08/82->06/95		
		4DM 005 698-021 5-pin, with bracket **)	1	507 D - 814 D (T2/LN1)	01/86->		
Talento (290)	03/89->03/94	4DB 007 218-001 4-pin	1	4DM 003 390-031 24V 2+1x21W +5W 4-pin	1	4DM 004 513-001 24V 3+1x21W 4-pin, with "clicking"- function	1
		4DM 003 460-021 5-pin, with bracket	1				
		4DM 005 698-031 6-pin, with bracket **)	1				
Ford				Mitsubishi			
Escort	01/75->09/01	4DB 003 750-711 3-pin without bracket	1	L 300 (P00W/P20W)	11/86->	4DM 003 360-021 4-pin, with bracket	1
Fiesta	05/76->01/02						
Tourneo	06/94->07/00	4DB 003 750-721 3-pin, with bracket	1				
Transit	09/69->07/00	4DM 003 360-021 4-pin, with bracket	1				
		4DM 005 698-021 5-pin, with bracket **)	1				

** C2 and 31 connection on top



Flasher Units

Nissan - Volkswagen



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Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Nissan				Vauxhall			
Vanette		4DB 003 750-721 12V 2x21W+5W 3-pin	1	Astravan Mk III	09/91->08/98	4DB 003 750-711 3-pin without bracket	1
		4DM 003 360-021 12V 2+1x21W +5W 4-pin, with trailer	1	Combo	07/94->10/01		
				Corsavan	01/94->09/00	4DB 003 750-721 3-pin, with bracket	1
				Novavan	01/90->10/94	4DM 003 360-021 4-pin, with bracket	1
						4DM 005 698-021 5-pin, with bracket **)	1
Opel				Volkswagen			
Astra F	10/91->01/99	4DB 003 750-711 3-pin	1	Caddy II	11/95->	4DB 003 750-711 3-pin without bracket	1
Combo	07/94->10/01	4DM 003 360-021 4-pin, with bracket	1	LT I	04/75->06/96		
Corsa A	02/86->09/94			Polo	08/92->12/99	4DB 003 750-721 3-pin, with bracket	1
Corsa B	08/99->09/00	4DM 005 698-021 5-pin, with bracket **)	1	Transporter (T2)	08/70->06/79		
Kadett	08/84->07/94			Transporter (T3)	07/79->12/92	4DM 003 360-021 4-pin, with bracket	1
				Transporter (T4)	09/90->	4DM 005 698-021 5-pin, with bracket **)	1
Peugeot							
205	02/83->09/98	4DB 007 218-001 4-pin	1				
		4DM 005 698-031 6-pin, with bracket **)	1				
Renault							
Clio	01/91->	4DB 007 218-001 4-pin	1				
		4DM 005 698-031 6-pin, with bracket **)	1				
Rapid (F 40)	03/86->	4DB 007 218-001 4-pin	1				
Twingo	06/93->						
4/5	01/80->	4DM 003 460-021 5-pin, with bracket	1				
11	03/83->07/89						
18	01/80->07/86	4DM 005 698-031 6-pin, with bracket **)	1				
19	01/88->06/96						
21	03/86->08/94						
Seat							
Marbella	11/86->	4DB 007 218-001 4-pin	1				
		4DM 005 698-031 6-pin, with bracket **)	1				

** C2 and 31 connection on top



Flasher Units

Delta Plan - Mercedes-Benz



Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Delta Plan				Kutter			
various models		4AZ 003 787-021 24V 10-200W 4-pin	1	various models		4AZ 003 787-021 24V 10-200W 4-pin	1
Iveco Ford				Lahden Autokori			
Cargo	05/81->	4DB 003 750-711 12V 2x21W+5W 3-pin	1	various models		4AZ 003 787-021 24V 10-200W 4-pin	1
		4DM 003 360-021 12V 2+1x21W +5W 4-pin	1			4DM 003 474-001 24V 2+1x21W +5W 5-pin	1
		4DM 005 698-021 12V 2+1x21W +5W 5-pin **)	1	Mercedes-Benz			
Iveco-Magirus				L 710 - L 1819 (Cab-behind-engine vehicles)	68->	4DM 001 863-081 12V 2+1x21W 6-pin	1
M 2000	09/79->	4DM 002 834-001 24V 2+1x21W 11-pin	1	LP 608 - LP 913 (LP)	->07/75	4DM 001 863-081 12V 2+1x21W 6-pin	1
75-9 A - 160 M13 (MK)	09/75->	4DM 001 863-081 12V 2+1x21W 6-pin	1	LP 608 - LP 913 (LP)	08/75->10/77	4DM 003 390-011 12V 2+1x21W +5W 4-pin	1
		4DM 002 834-001 24V 2+1x21W 11-pin	1	LP 709 - LP 1113 (LP)	11/77->07/85		
120-13 - 330-30 (P/PA)	01/83->	4DM 002 834-001 24V 2+1x21W 11-pin	1	LP 1113 - LP 1519	67->	4DM 001 863-081 12V 2+1x21W 6-pin	1
130 D 12 - 310 D 26 (P/PA)	01/71->12/82			O 302	11/64->11/75	4DM 003 944-091 24V 2+1x21W +5W 6-pin	1
130 D 9 FL - 340 D 22 FL (Forward-control vehicles)	05/73->	4DM 003 944-091 24V 2+1x21W +5W 6-pin	1	O 305 VÖV	04/73->12/83		
180-24 - 240-38, 256 M - 320 M (T)	05/78->	4DW 002 834-101 24V 3+1x21W 11-pin	1	O 309, O 309 D	01/70->07/75	4DM 001 863-081 12V 2+1x21W 6-pin	1
Kässbohrer				O 309, O 309 D	08/75->12/88	4DM 003 390-011 12V 2+1x21W +5W 4-pin	1
Setra S 80 - S 150	09/72->09/76	4DM 003 944-091 24V 2+1x21W +5W 6-pin	1	O 309, O 309 D	09/82->12/88	4DB 003 675-001 24V 2x21W+5W 3-pin	1
Setra S 200	10/76->11/84					4DM 003 390-031 24V 2+1x21W +5W 4-pin	1
Setra S 200	12/84->	4DM 004 639-061 24V 2+1x21W +5W 4-pin	1	709 - 1524 (LK/LN2)	03/84->	4DM 003 390-031 24V 2+1x21W +5W 4-pin	1
Setra S 300	09/91->	4JA 005 355-001 Trailer connector unit, 24V, 8-pin	1			4DW 002 834-121 24V 3+1x21W 11-pin	1

**) C2 and 31 connection on top



Flasher Units

Mercedes-Benz - Volvo



1

Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Mercedes-Benz				Volvo			
1013 - 3850 (New generation)	08/73->08/88	4DW 002 834-111 12V 3+1x21W 11-pin	1	F 7	08/78->10/85	4DM 003 944-091 24V 2+1x21W	1
		4DW 002 834-121 24V 3+1x21W 11-pin	1	F 10, F 12	08/77->	+5W 6-pin	
						4DW 003 944-071 24V 3+1x21W 6-pin	1
Neoplan				FL 611	09/85->11/94	4DN 004 589-031 24V 2+1+1x21W 13-pin	1
Cityliner - Spaceliner	04/79->	4DM 003 474-001 24V 2+1x21W +5W 5-pin	1	FH 12, FH 16	10/93->	4DM 003 944-091 24V 2+1x21W	1
		4DW 003 944-071 24V 3+1x21W 6-pin	1	FM 7, FM 12	10/98->	+5W 6-pin	
						4DW 003 944-071 24V 3+1x21W 6-pin	1
SL II N 416, Ü 80 N 420/3	82->	4DW 003 944-071 24V 3+1x21W 6-pin	1	N 7	08/78->	4DM 003 944-091 24V 2+1x21W	1
Renault Trucks				N 10, N 12	08/77->	+5W 6-pin	
Trucks	07/91->	4DM 003 944-091 24V 2+1x21W +5W 6-pin	1			4DW 003 944-071 24V 3+1x21W 6-pin	1
Scania							
G 82 - T 142	07/80->12/87	4DJ 003 767-001 24V 1+3+3x21W 13-pin	1				
G 83 - T 143	01/88->						
P 94 - R 144	01/96->	4DN 007 431-021 24V 2+1+1x21W 16-pin	1				
Steyr							
6 S - 17 S	01/86->	4DM 003 944-027 24V 2+1x21W	126				
19 S - 40 S	10/87->	+5W 6-pin					
		4DW 003 944-071 24V 3+1x21W 6-pin	1				
590 - 1490	09/73->	4DM 003 474-001 24V 2+1x21W +5W 5-pin	1				
791 - 1491	04/78->09/87	4DM 003 944-027 24V 2+1x21W +5W 6-pin	126				
		4DW 003 944-071 24V 3+1x21W 6-pin	1				
Volvo							
F 6	71->09/85	4DB 003 425-041 12V 2x21W+5W 4-pin	1				



Flasher Units

Case International - Deutz-Fahr



Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Case International				John Deere			
D 215 - D 514		4DN 008 768-051 12V 2+1+1x18W 6-pin	1	Z-2054 - Z-2066	01/94->	4DM 003 360-021 12V 2+1x21W 4-pin	1
Maxxum 5120, 5130, 5140	11/89->	4DN 008 768-021 12V 2+1+1x21W 6-pin	1			4DM 005 698-021 12V 2+1x21W 5-pin **)	1
433 - 856		4DN 008 768-021 12V 2+1+1x21W 6-pin	1			4DN 008 768-021 12V 2+1+1x21W 6-pin	1
521, 525, 527		4DW 003 944-051 24V 3+1x21W 6-pin	1	820 - 4020		4DN 008 768-051 12V 2+1+1x18W 6-pin	1
743 XL - 1455 XL		4DN 008 768-001 12V 2+1+1x21W 6-pin	1	840 - 4240	09/79->	4DN 008 768-041 12V 2+1+1x21W 6-pin	1
Case Poclain				6100 - 6400	07/92->	4DM 003 360-021 12V 2+1x21W 4-pin	1
U 1776, U 7774		4DN 008 768-051 12V 2+1+1x18W 6-pin	1			4DM 005 698-021 12V 2+1x21W 5-pin **)	1
770 GAS, 880 GES, 990 GAS				6610 - 6910	01/93->	4DM 003 360-021 12V 2+1x21W 4-pin	1
1190, 1290, 1390, 1490, 1690						4DM 005 698-021 12V 2+1x21W 5-pin **)	1
Claas						4DN 008 768-021 12V 2+1+1x21W 6-pin	1
Classic 78 - 108 SL		4DM 003 360-021 12V 2+1x21W 4-pin	1	Deutz-Fahr			
Commandor 112 - 228 CS	10/85->			D 2505 - D 8005		4DN 008 768-051 12V 2+1+1x18W 6-pin	1
Dominator 38 - 118 SL Maxi				D 2506 - D 13006	->07/73		
Jaguar 675 - 695	01/89->12/94			D 2506 - D 13006	08/73->	4DN 008 768-031 12V 2+1+1x21W 6-pin	1
Jaguar 820 - 880	01/94->			D 2807 - D 7807 C	05/80->12/90		
Lexion 405 - 460	96->			DX 3.10 - DX 3.90	01/91->12/96	4DN 008 768-031 12V 2+1+1x21W 6-pin	1
Lexion 2004	04/04->			DX 3.30 V - DX 3.90 F			
Maxi 88 SL, 98 SL, 108 SL				DX 4.30 - DX 6.50	83->		
Mega 208, 218				DX 4.17 - DX 6.61	01/91->		
Unitrac	10/83->			DX 7.10, DX 8.30	05/84->10/88		
John Deere				DX 36V - DX 55V	05/78->		
MD 330 - MD 970	->07/74	4DB 001 887-041 12V 2x21W 4-pin	1	DX 85 - DX 230	08/77->		
MD 925 - MD 975	08/74->10/82			Deutz-Fahr			
MD 1032 - MD 1068 H	05/84->04/85			D 2505 - D 8005		4DN 008 768-051 12V 2+1+1x18W 6-pin	1
MD 1072 - MD 1085	->12/83			D 2506 - D 13006	->07/73		
MD 1072 - MD 1085	01/84->	4DM 003 360-021 12V 2+1x21W 4-pin	1	D 2506 - D 13006	08/73->	4DN 008 768-031 12V 2+1+1x21W 6-pin	1
MD 1133 - MD 1166 HA	08/87->			D 2807 - D 7807 C	05/80->12/90		
MD 1174 - MD 1188 H 4	01/87->	4DM 005 698-021 12V 2+1x21W 5-pin **)	1	DX 3.10 - DX 3.90	01/91->12/96	4DN 008 768-031 12V 2+1+1x21W 6-pin	1

**) C2 and 31 connection on top



Flasher Units

Deutz-Fahr - Renault



1

Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Deutz-Fahr				Hako			
Intrac 2004, 2006 M 660 - M 2780	09/74->12/79	4DN 008 768-031 12V 2+1+1x21W 6-pin	1	Variotrac 1850 V, 2150 D		4DM 003 360-021 12V 2+1x21W 4-pin	1
Powerliner 4030	92->12/96						
Powerpress 120 H	01/94->12/96						
Starliner 4040, 4045 H	91->12/96						
Topliner 4060 - 4090 H	91->12/96						
Dexheimer				Holder			
AL 222 SC - AL 370 SC	01/88->	4DN 008 768-001 12V 2+1+1x21W 6-pin	1	A 14 - B 25	->06/76	4DN 008 768-051 12V 2+1+1x18W 6-pin	1
				A 14 - B 25	07/76->	4DN 008 768-021 12V 2+1+1x21W 6-pin	1
				Park 30, 70			
Fendt				Krieger			
Farmer 200 V - 205 P	->01/88	4DN 008 768-031 12V 2+1+1x21W 6-pin	1	KS 28 - KS 65 A	02/86->	4DN 008 768-051 12V 2+1+1x18W 6-pin	1
Farmer 250 V - 280 P	02/88->						
Fiat Geotech				Landini			
various models		4DN 008 768-001 12V 2+1+1x21W 6-pin, without bracket	1	various models		4DN 008 768-021 12V 2+1+1x21W 6-pin	1
		4DN 008 768-017 12V 2+1+1x21W 6-pin, with bracket	99	Massey-Ferguson			
Ford				MB 506, MB 507			
Dexter 2000 - Super Major 5000	04/68->03/70	4DN 008 768-051 12V 2+1+1x18W 6-pin	1	MF 203, MF 205		4DN 008 768-051 12V 2+1+1x18W 6-pin	1
Dexter 2000 - Super Major 5000	03/70->						
				MF 3000 - MF 3090	07/86->	4DN 008 768-001 12V 2+1+1x21W 6-pin	1
				235 - 595			
Gutbrod				Multicar			
Superior 2350 DS - 4350		4DM 003 360-021 12V 2+1x21W 4-pin	1	Multicar	07/92->	4DW 003 390-051 12V 3+1x21W 4-pin	1
		4DM 005 698-021 12V 2+1x21W 5-pin **)	1				
Hako				Renault			
Mobil 4800 D, 6000 D		4DM 003 360-021 12V 2+1x21W 4-pin	1	ET 18 - ET 37		4DM 003 460-021 12V 2+1x21W 5-pin	1
Trac 1400 - Trac 4100							
				R 7921 - R 7942		4DN 008 768-021 12V 2+1+1x21W 6-pin	1

**) C2 and 31 connection on top



Flasher Units

Schanzlin - VME



Manufacturer Model	Model year	Part no.	Pk.
Schanzlin			
Gigant 703 S, 803, S		4DN 008 768-041 12V 2+1+1x21W 6-pin	1
Schlüter			
S 350 - S 3000	->06/78	4DN 008 768-041 12V 2+1+1x21W 6-pin	1
S 350 - S 3000	07/78->	4DN 008 768-021 12V 2+1+1x21W 6-pin	1
Sisu (Valmet)			
205 - 665		4DN 008 768-021 12V 2+1+1x21W 6-pin	1
6000 - 8400		4DN 008 768-021 12V 2+1+1x21W 6-pin	1
Steyr			
8060 - 8160 a		4DN 008 768-021 12V 2+1+1x21W 6-pin	1
VME			
DM 861		4DN 008 768-021 12V 2+1+1x21W 6-pin	1
DM 5350		4DM 003 944-027 24V 2+1x21W +5W 6-pin	126
T 500 - T 2250		4DN 008 768-021 12V 2+1+1x21W 6-pin	1
3500		4DM 003 944-041 24V 2+1x21W +5W 6-pin	1

**) C2 and 31 connection on top

Legal requirement in all ECE states

In the case of vehicles approved for use on public roads, the indicators must be monitored: The failure of an indicator must be shown optically or acoustically in the vehicle. This applies in all ECE states. In other words, the potential failure of the indicator must be monitored by the vehicle. Manufacturers use various failure-control systems. The failure check systems currently in use cannot detect simple LED lights and display a fault.
 All Hella LED indicators have integrated electronics for failure checking. The indicators are self-monitoring. They generate a pulse that is evaluated by the electronic ballast. This ballast simulates a 21 W bulb, which makes operation with conventional flasher units possible.
 As soon as one single LED fails, the light can be considered faulty, the pulse is not generated.
 The ballast then switches the bulb simulation off and the flasher unit indicates the fault to the driver.

Safe conversion to Hella LED indicators now possible thanks to patented Hella electronics

Hella supplies electronic ballasts for all Hella LED indicators which make it possible to convert the indicator failure display for various vehicles. This is necessary if the vehicle manufacturer does not guarantee indicator bulb failure checking via the vehicle electric system. The method has been patented by Hella. At the moment, there are three different ballasts and several different LED indicator types available.

LED indicator failure check: Background information.

Why does the failure detection required by law work with various LED lights with some flasher units and not with others?

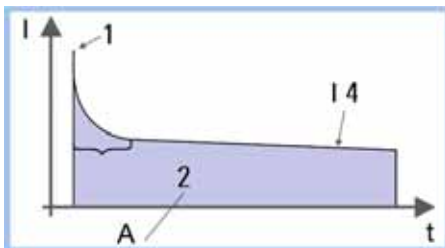


Fig. 1 illustrates the typical current pattern when a bulb is switched on. Different flasher units detect this in different ways, for example by
 a) measuring the pulse peak or
 b) measuring the current at some point during the switch-on pulse or
 c) measuring the current after the pulse, when the current is constant and has a certain intensity, or
 d) determining the total energy flowing through the light (size of area A)

Fig. 1

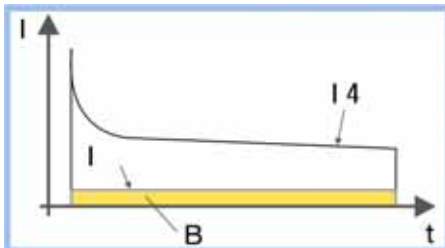
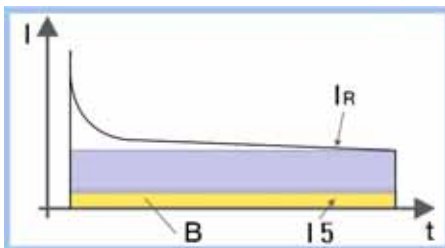


Fig. 2 shows the LED current (I_{LED}) in relation to this. None of the methods mentioned can work here, because there is neither a switch-on pulse available nor is the current intensity high enough, and another possibility is that the total energy through both lights is identical (area B is as large as A).

Fig. 2



If a simple Ohmic resistor is inserted, e.g. a resistor cable, the current is increased by a certain value (I_R) and the curve illustrated in Fig. 3 is the result. In this case, only a flasher unit according to principle c) would work. If the resistance is chosen somewhat higher, principle d) could also possibly work. If the light fails afterwards due to mechanical damage, the flasher unit could detect the inserted resistor as a functional bulb. In this case, a light working perfectly would be indicated although this is not the case! This means: In this case the vehicle would lose its approval for use on public roads.

Fig. 3

- I = Current
- t = Time
- 1 = Pulse peak
- 2 = Switch-on pulse
- 3 = Individual pulse
- 4 = Filament bulb
- 5 = LED

The only solution conceivable for universal use is one that works with all the flasher units on the market. As the above considerations have shown, this can practically only be guaranteed if the current pattern of a bulb is simulated exactly by means of an electronic circuit.

Since such a circuit is extremely complex, it is not possible to integrate this in the LED light. In order to be able to benefit from the advantages of LED lights despite this fact, a ballast is required for the circuit. This combination provides the perfect – and above all legally conforming – solution to the problem.

Hella patent for the perfect problem solution

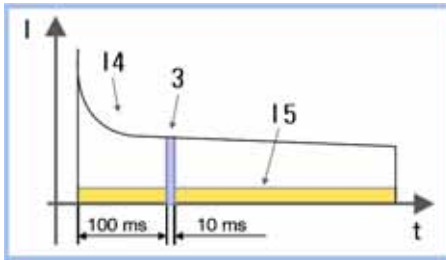


Fig. 4

- I = Current
- t = Time
- 1 = Pulse peak
- 2 = Switch-on pulse
- 3 = Individual pulse
- 4 = Filament bulb
- 5 = LED

All Hella LED indicators with integrated electronics for failure checking are selfmonitoring and generate an individual pulse. This pulse is evaluated by the electronic ballasts. The ballasts simulate a 21 W bulb.

This makes operation with conventional flasher units possible. If the light is faulty, which can be the case if only a single LED fails, the above-mentioned pulse is not generated. The ballasts then switches the bulb simulation off and the flasher unit indicates the fault to the driver.

By measuring the light current during a time window of 10 ms (Fig. 4), direct exchange between the Hella LED light and a bulb version is possible. Hella ballasts are straightforward to convert even at a later date.

Vehicle manufacturers can also ensure ECE-conforming failure checking by evaluating the pulse of the Hella LED indicators shown in the adjacent diagram directly in their control units.

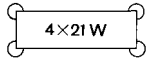
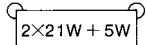
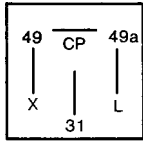
The exact specification can be obtained from Hella.

Connecting- and clamping descriptions for flasher units

Terminal	Description
15	Ignition plus
49	X Input
+49	X Input
49a	Output
49L	Output, left
49R	Output, right
30	Battery plus
30b	Battery III plus
31	Earth
54	Stop light
54a	Stop light, for trailer
54L	Stop light, left
54R	Stop light, right
82	Normally open input
C	C1 CP P CL
C2	1. Control lamp
C3	2. Control lamp
CO	3. Control lamp
+	Main connection for control circuits separated from the indicator
-	Battery plus
B	Earth
L	Battery
R	Indicator, left
	Indicator, right

Connecting- and clamping descriptions for control units

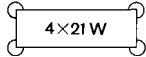
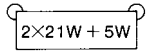
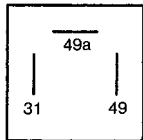
Terminal	Description
15	Ignition plus
30	B + Battery plus
30a	Battery II plus
31	Earth
56a	Main-beam light
56b	Dipped-beam light
58	Rear-, licence plate-, clearance light and instrument lights
61	Alternator check (charge indication)
85	Output (earth)
86	Winding start
87	Relay contact in the case of normally closed and change-over / input
87a	Relay contact in the case of normally closed and change-over / 1st output
87b	Relay contact in the case of normally closed and change-over / 2nd output



Flasher unit, 6V, 4-pole

Two-wheeled vehicles

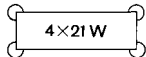
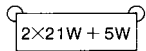
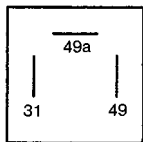
Part no.	Pk.	
4AZ 003 787-011	1	Flasher unit, 6V



Flasher units, 6V, 3-pole

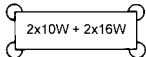
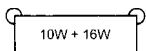
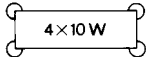
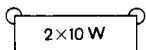
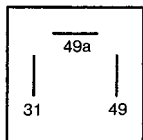
Audi, BMW, Citroën, Fiat, Ford, Honda, Iveco-Ford, Lada, Lancia, Mazda, Opel, Peugeot, Porsche, Rover, Saab, Seat, Skoda, Subaru, Suzuki, Toyota, Vauxhall, Volkswagen, Volvo

Part no.	Pk.	
4DB 003 750-711	1	Flasher unit, 12V, without bracket
4DB 003 750-717	150	
4DB 003 750-721	1	with bracket



Mitsubishi, Volvo

Part no.	Pk.	
4DB 003 750-391	1	Flasher unit, 12V, without bracket

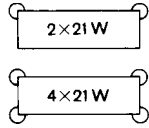
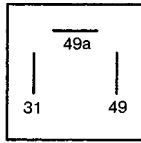


Two-wheeled vehicles by Hercules, Rixe, Triumph, Zündapp

Part no.	Pk.	
4DB 003 750-707	250	Flasher unit, 12V
4DB 003 750-737	250	Flasher unit, 12V

Flasher units, 6V, 3-pole

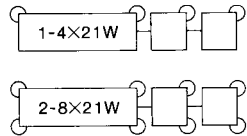
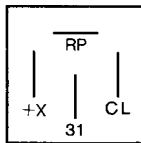
Universal



Part no.	Pk.	
4AZ 001 879-041	1	Flasher unit, 12V 10-140W

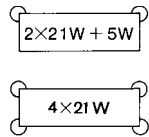
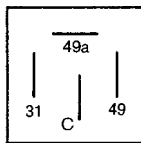
Flasher units 12V, 4-pole

Universal



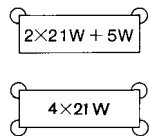
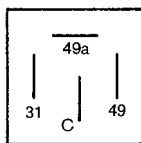
Part no.	Pk.	
4AZ 003 787-001	1	Flasher unit, 12V 10-200W

John Deere, Porsche, Saab



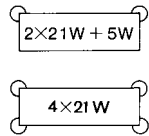
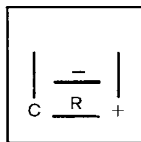
Part no.	Pk.	
4DB 001 887-041	1	Flasher unit, 12V

Lada, Volvo



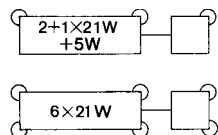
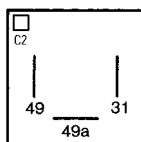
Part no.	Pk.	
4DB 003 425-041	1	Flasher unit, 12V

Alfa Romeo, Citroën, Fiat, Lancia, Peugeot, Renault, Seat



Part no.	Pk.	
4DB 007 218-001	1	Flasher unit, 12V

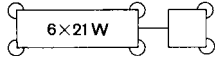
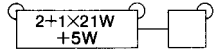
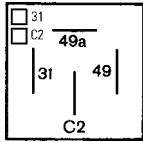
Audi, BMW, John Deere, Ford, Gutbrod, Honda, Iveco-Ford, Lada, Mazda, Mercedes-Benz, Opel, Peugeot, Porsche, Rover, Saab, Seat, Skoda, Subaru, Suzuki, Steyr, Toyota, Vauxhall, Volkswagen



Part no.	Pk.	
4DM 005 698-017	1	C2 connection on top Flasher unit, 12V

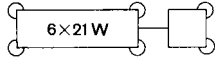
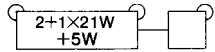
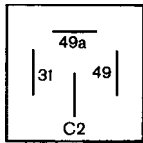
Flasher units 12V, 4-pole

Audi, BMW, Citroën, Claas, Daihatsu, John Deere, Fiat, Ford, Gutbrod, Hako, Honda, Iveco-Ford, Lada, Lancia, Land Rover, Mazda, Mercedes-Benz, Mitsubishi, Nissan, Opel, Peugeot, Porsche, Rover, Saab, Seat, Skoda, Subaru, Suzuki, Toyota, Volkswagen, Volvo



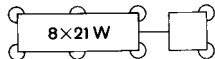
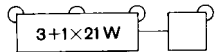
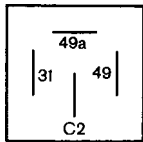
Part no.	Pk.	
		C2 and 31 connection on top
4DM 003 360-021	1	Flasher unit, 12V
4DM 003 360-027	200	

Mercedes-Benz



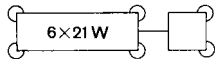
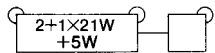
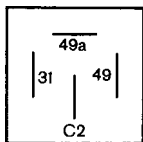
Part no.	Pk.	
4DM 003 390-011	1	Flasher unit, 12V

Mercedes-Benz



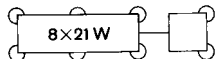
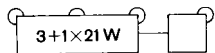
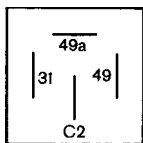
Part no.	Pk.	
4DW 003 390-061	1	Flasher unit, 12V

Mitsubishi, Volvo



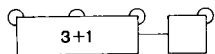
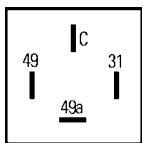
Part no.	Pk.	
4DM 004 420-107	168	Flasher unit, 12V

Universal



Part no.	Pk.	
4DW 004 639-077	100	Flasher unit, 12V

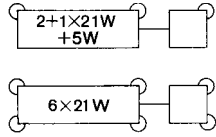
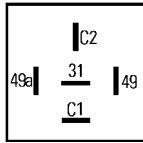
Universal



Part no.	Pk.	
		Only in accordance with Hella LED indicator
4DW 009 492-111	1	LED-flasher unit, 12V, with bracket

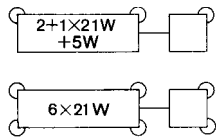
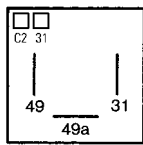
Flasher units 12V, 5-pole

Universal



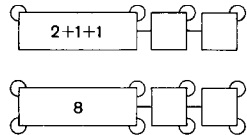
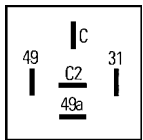
Part no.	Pk.	
4DM 003 460-021	1	Flasher unit, 12V

Audi, BMW, John Deere, Ford, Gutbrod, Honda, Iveco-Ford, Lada, Mazda, Mercedes-Benz, Opel, Peugeot, Porsche, Rover, Saab, Seat, Skoda, Subaru, Suzuki, Steyr, Toyota, Volkswagen



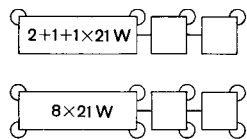
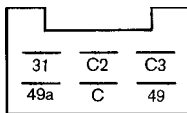
Part no.	Pk.	
4DM 005 698-021	1	Flasher unit, 12V C2 and 31 connection on top

Universal



Part no.	Pk.	
4DN 009 492-101	1	Flasher unit, 12V Only in accordance with Hella LED indicator

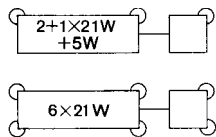
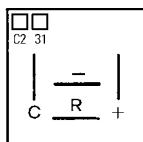
John Deere



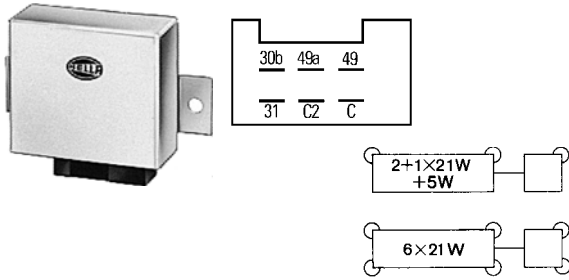
Part no.	Pk.	
4DN 996 173-017	250	Flasher unit, 12V

Flasher units 12V, 6-pole

Alfa Romeo, Citroën, Fiat, Lancia, Peugeot, Renault, Seat



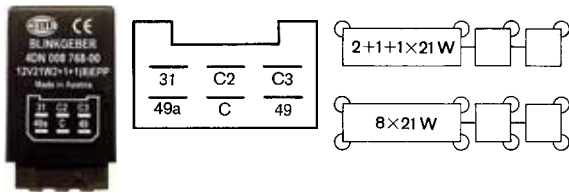
Part no.	Pk.	
4DM 005 698-031	1	Flasher unit, 12V C2 and 31 connection on top



Flasher units 12V, 6-pole

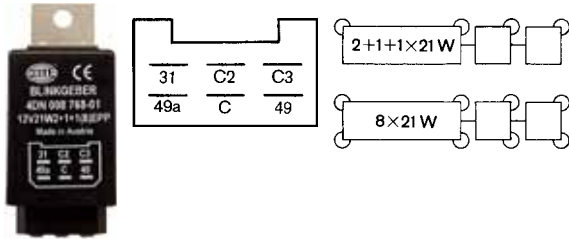
Iveco-Magirus, Mercedes-Benz

Part no.	Pk.	
4DM 001 863-081	1	Flasher unit, 12V



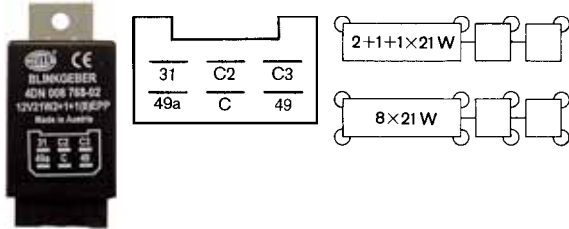
Case International, Dexheimer, Fiat Geotech, Massey-Ferguson

Part no.	Pk.	
4DN 008 768-001	1	Flasher unit, 12V



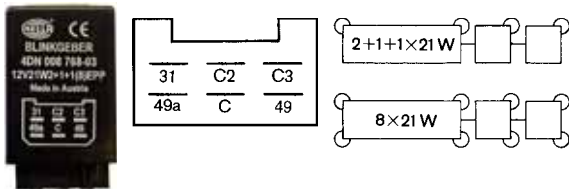
Fiat Geotech

Part no.	Pk.	
4DN 008 768-017	1	Flasher unit, 12V



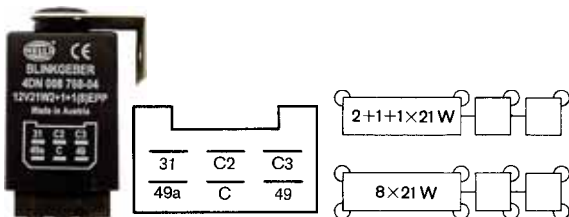
Case International, John Deere, Holder, Massey-Ferguson, Landini, Renault, Schlüter, Steyr, Sisu (Valmet), VME

Part no.	Pk.	
4DN 008 768-021	1	Flasher unit, 12V
4DN 008 768-027	99	



Deutz-Fahr, Fendt

Part no.	Pk.	
4DN 008 768-031	1	Flasher unit, 12V
4DN 008 768-037	72	

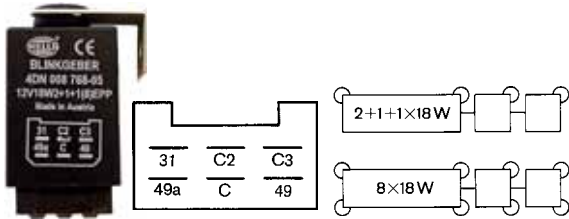


John Deere, Ford, Schanzlin, Schlüter

Part no.	Pk.	
4DN 008 768-041	1	Flasher unit, 12V

Flasher units 12V, 6-pole

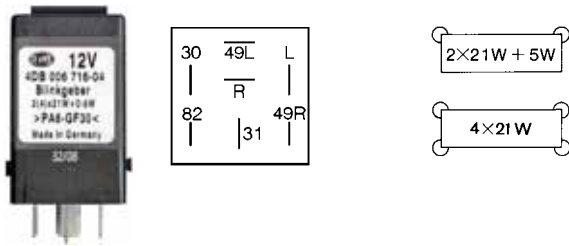
Case International, Case Poclain, John Deere, Deutz-Fahr, Ford, Güldner, Holder, Krieger, Massey-Ferguson



Part no.	Pk.	
4DN 008 768-051	1	Flasher unit, 12V

Flasher units 12V, 7-pole

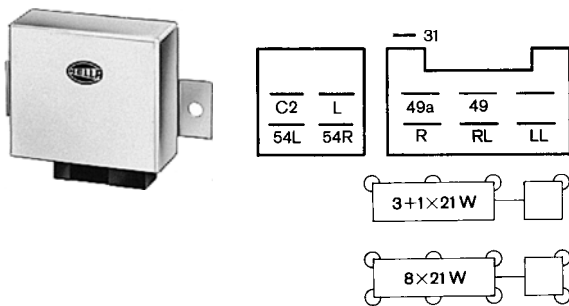
Alfa Romeo, BMW, Saab



Part no.	Pk.	
4DB 006 716-041	1	Flasher unit, 12V

Flasher units 12V, 11-pole

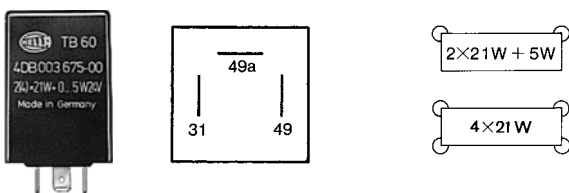
Mercedes-Benz



Part no.	Pk.	
4DW 002 834-111	1	Flasher unit, 12V

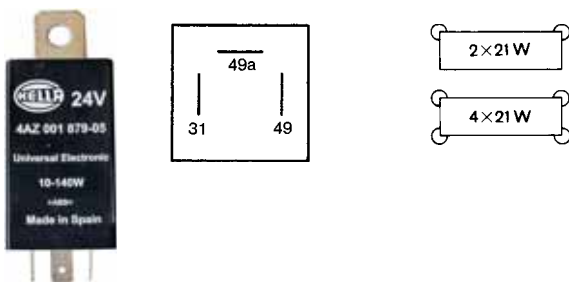
Flasher units 24V, 3-pole

Mercedes-Benz



Part no.	Pk.	
4DB 003 675-001	1	Flasher unit, 24V

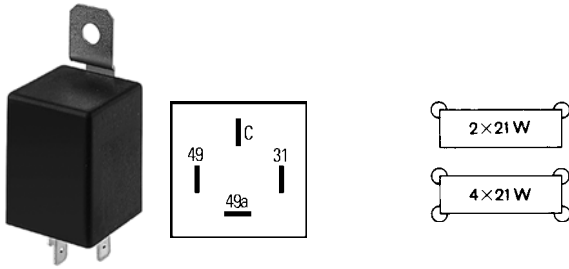
Universal



Part no.	Pk.	
4AZ 001 879-051	1	Flasher unit, 24V 10 - 140W

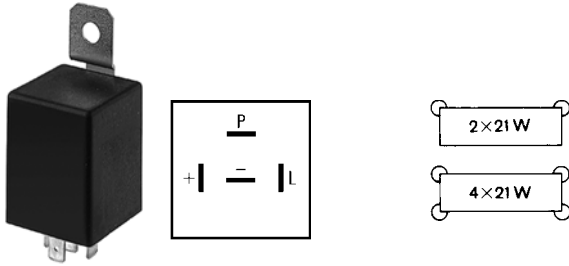
Flasher units 24V, 4-pole

Universal



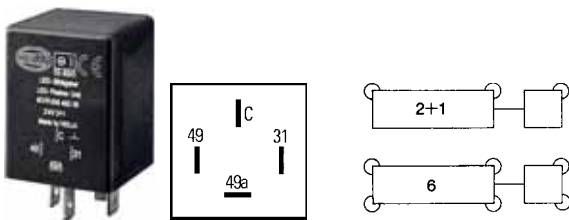
Part no.	Pk.	
4DB 009 123-031	1	Flasher unit, 24V

Universal



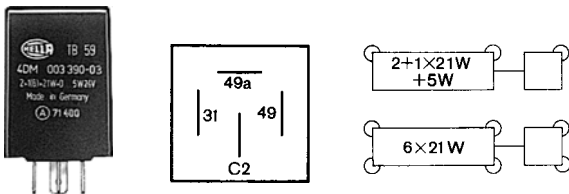
Part no.	Pk.	
4DB 009 123-041	1	Flasher unit, 24V

Universal



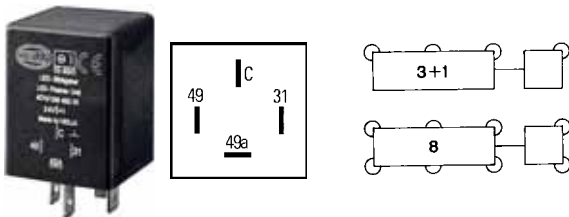
Part no.	Pk.	
4DM 009 492-001	1	Only in accordance with Hella LED indicator LED-flasher unit, 24V

Mercedes-Benz



Part no.	Pk.	
4DM 003 390-031	1	Flasher unit, 24V

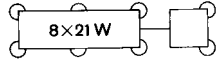
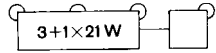
Mercedes-Benz



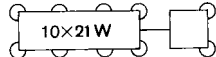
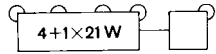
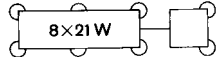
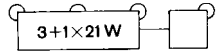
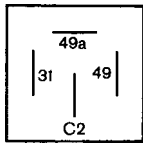
Part no.	Pk.	
4DW 009 492-011	1	Only in accordance with Hella LED indicator LED-flasher unit, 24V

Flasher units 24V, 4-pole

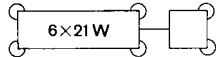
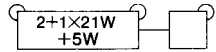
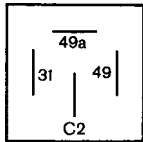
Mercedes-Benz



Part no.	Pk.	
4DW 004 513-001	1	Flasher unit, 24V with "knocker" function
4DW 004 513-021	1	without "knocker" function
4DW 004 513-031	1	without "knocker" function 4+1x21W

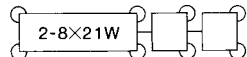
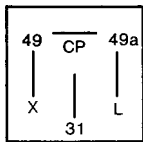


Fiat, Kässbohrer



Part no.	Pk.	
4DM 004 639-061	1	Flasher unit, 24V
4DM 004 639-067	180	

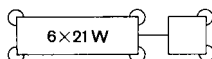
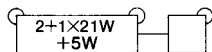
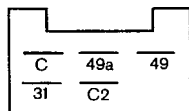
Universal



Part no.	Pk.	
4AZ 003 787-021	1	Flasher unit, 24V 10 - 200W

Flasher units 24V, 5-pole

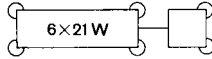
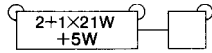
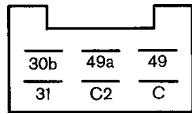
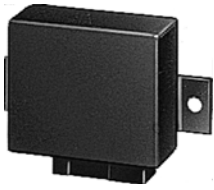
Auwärter G. (Neoplan), Renault, Steyr



Part no.	Pk.	
4DM 003 474-001	1	Flasher unit, 24V with bracket
4DM 003 474-007	90	
4DM 003 474-017	126	without bracket

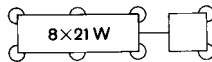
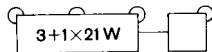
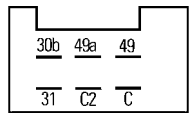
Flasher units 24V, 6-pole

Berkhof, Bova/DAF, Duple, Iveco-Magirus, Kässbohrer, Land Rover, Mercedes-Benz, Renault Trucks, Van Hool, VME



Part no.	Pk.	
4DM 003 944-091	1	Flasher unit, 24V

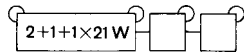
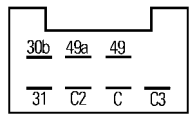
Volvo



Part no.	Pk.	
4DW 006 475-071	1	Flasher unit, 24V

Flasher units 24V, 7-pole

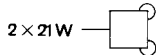
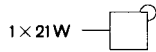
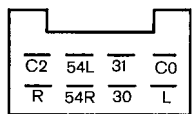
Mercedes-Benz



Part no.	Pk.	
4DN 009 124-011	1	Flasher unit, 24V

Flasher units 24V, 8-pole

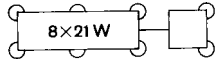
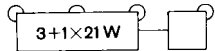
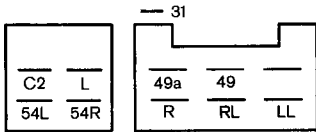
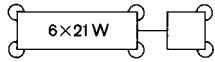
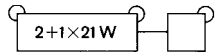
Kässbohrer



Part no.	Pk.	
4JA 005 355-001	1	Trailer connector unit, 24V

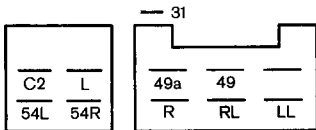
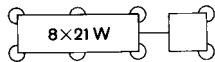
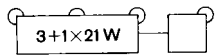
Flasher units 24V, 11-pole

Iveco-Magirus



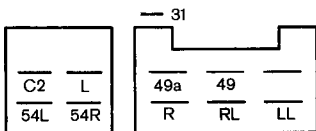
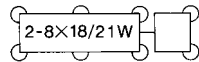
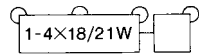
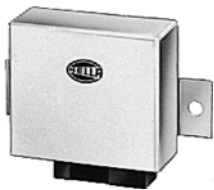
Part no.	Pk.	
4DM 002 834-001	1	Flasher unit, 24V
4DW 002 834-101	1	Flasher unit, 24V

Mercedes-Benz



Part no.	Pk.	
4DW 002 834-121	1	Flasher unit, 24V

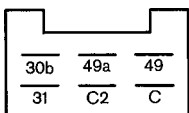
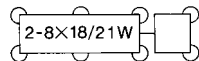
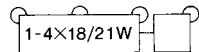
Universal



Part no.	Pk.	
4DZ 002 834-162	1	Flasher unit, 24V

Flasher units 12V/24V, 6-pole

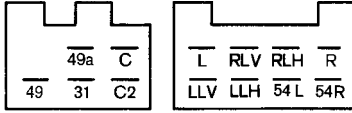
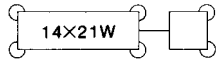
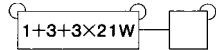
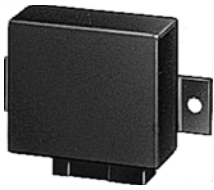
Universal



Part no.	Pk.	
4DZ 004 019-021	1	Flasher unit, 12V/24V

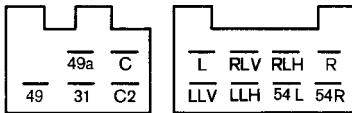
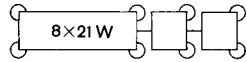
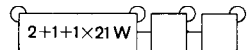
Flasher units 24V, 13-pole

Scania



Part no.	Pk.	
4DJ 003 767-001	1	Flasher unit, 24V

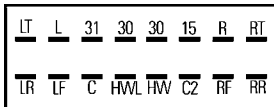
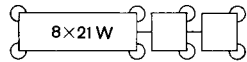
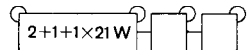
Volvo



Part no.	Pk.	
4DN 004 589-031	1	Flasher unit, 24V

Flasher unit 24V, 16-pole

Scania



Part no.	Pk.	
4DN 007 431-021	1	Flasher unit, 24V

Flasher unit regulations

Hella flasher units comply with national and international regulations.

- StVZO § 54 turn indicator
- ECE Directive 48 lighting equipment
- EEC Directive 76/756 lighting equipment
- US Federal Standard FMVSS 108 lighting equipment
- SAE J 590 Turn signal flasher unit
- SAE J 945 Hazard warning flasher unit
- EEC Directive 72/245 radio interference suppression

Control function

Failure of a flasher lamp in a motorised vehicle or trailer must be indicated to the driver acoustically or by means of control lamps.

Hella flasher units ensure control by means of

1. Doubling of the flashing rate (E control)
or
2. Control lamp cutoff (P control)

General technical data:

Rated voltage	12V	24V
Test voltage	13V	28V
Operating voltage	10V - 15V	20V - 30V
Test temperature	23 °C ± 5 °C	23 °C ± 5 °C
Operating temperature	-30 °C to +80 °C	-30 °C to +80 °C
Storage temperature	-40 °C to +90 °C	-40 °C to +90 °C
Flashing rate	90 ± flashes/min.	90 ± flashes/min.
Full illumination time, normal	50 % ± 10 %	50 % ± 10 %
Full illumination time, rapid flashers	40 % ± 5 %	40 % ± 10 %
Control type	E/P, EP, PP, PPP	EP, PP
Voltage drop 49-->49a	49-->49a < 450 mV	< 450 mV
Device protection system, minimum	49-->49a 15A fuse	15A fuse
Device protection system, minimum	IP53 DIN 40050	IP53 DIN 40050

Flasher unit classification

The Hella range comprises the following types of flasher units:

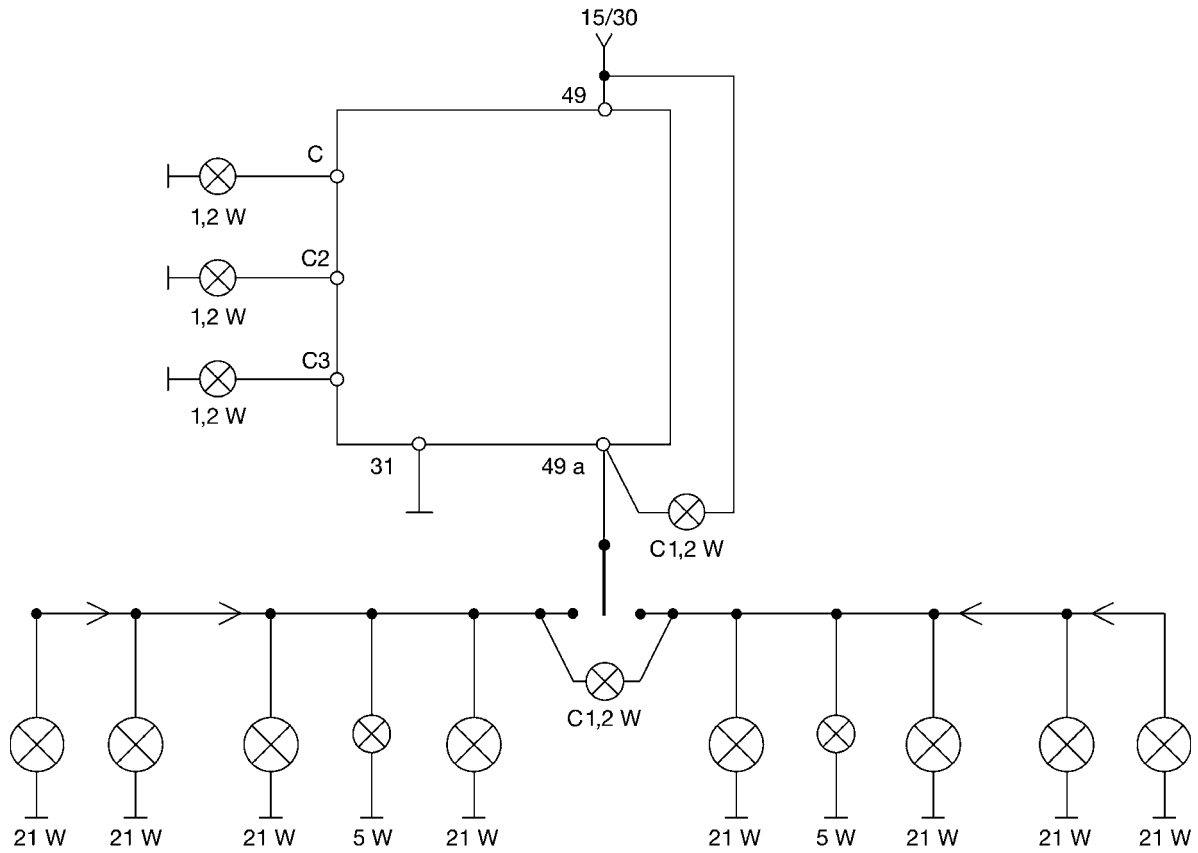
- **Single-circuit flasher units**
- **Two-circuit flasher units**
- **Three-circuit flasher units**

This classification is based on the number of internal current/control circuits, via which the flasher lamps on the vehicle can be switched and controlled.

The test circuits

The single-circuit test circuit

There is only one test resistor for the entire flasher system in a single-circuit flasher unit. For this reason, the flasher unit cannot tell whether a flashing lamp on the motor vehicle or trailer is defective.



Load drop-off variants

- 2 (4) x 21W + 5W 12V
- 2+1 (6) x 21W + 5W 12V/24V
- 3+1 (8) x 21 W 12V/24V
- 2+1+1 (8) x 21W 12V

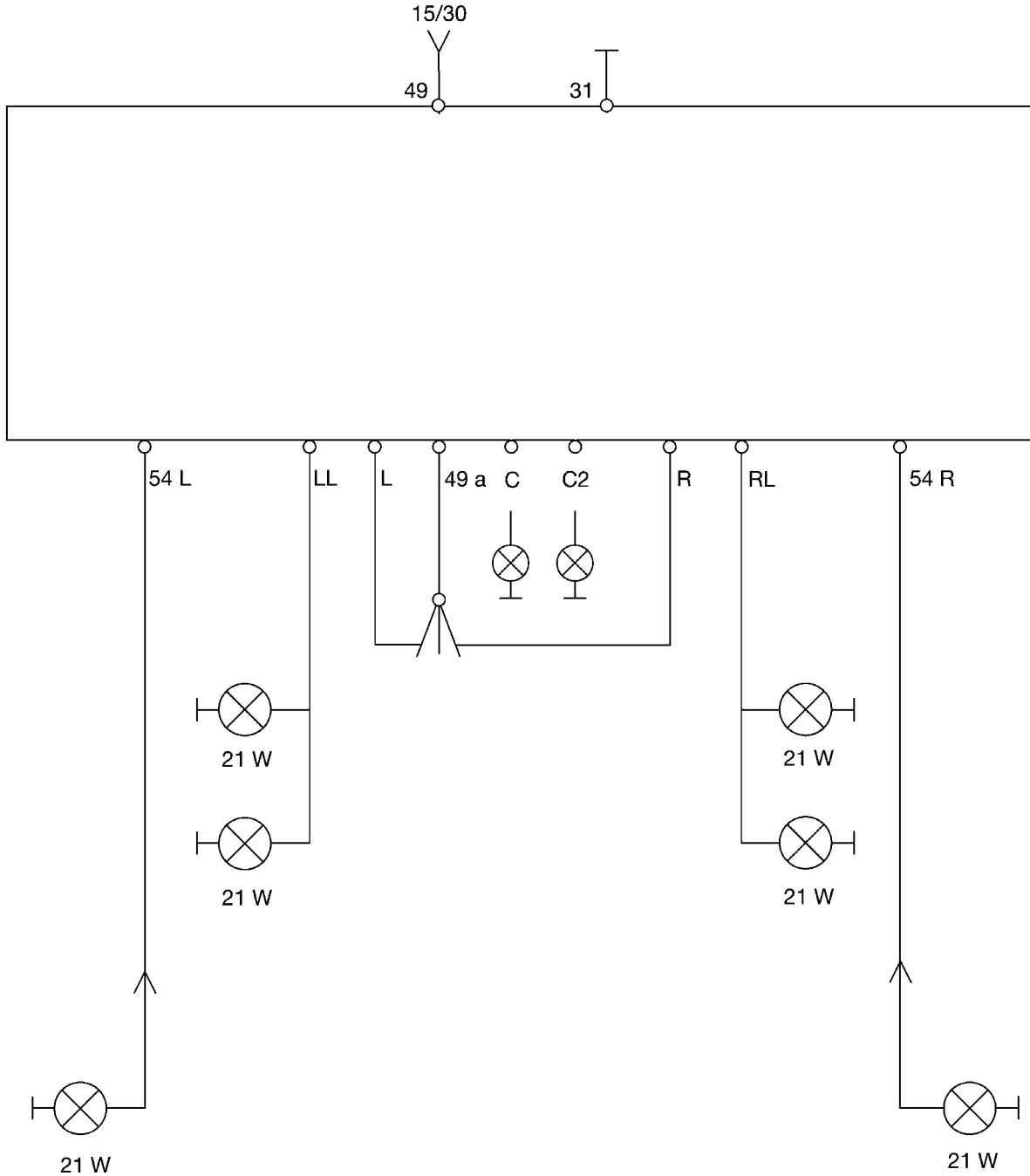
Control types

- E/P
- EP/PP
- EP/PP
- PPP

The two-circuit test circuit

In a two-circuit flasher unit, the test circuits are allocated to the vehicle and the trailer respectively.

The use of multiple-circuit flasher units makes sense in heavy utility vehicles and buses to reduce test signal losses in the long cables and many plugged connections and ensure a reliable lamp failure signal.



Load drop-off variants

- 2+1 (6) x 21W 12V/24V
- 3+1 (8) x 21W 12V/24V

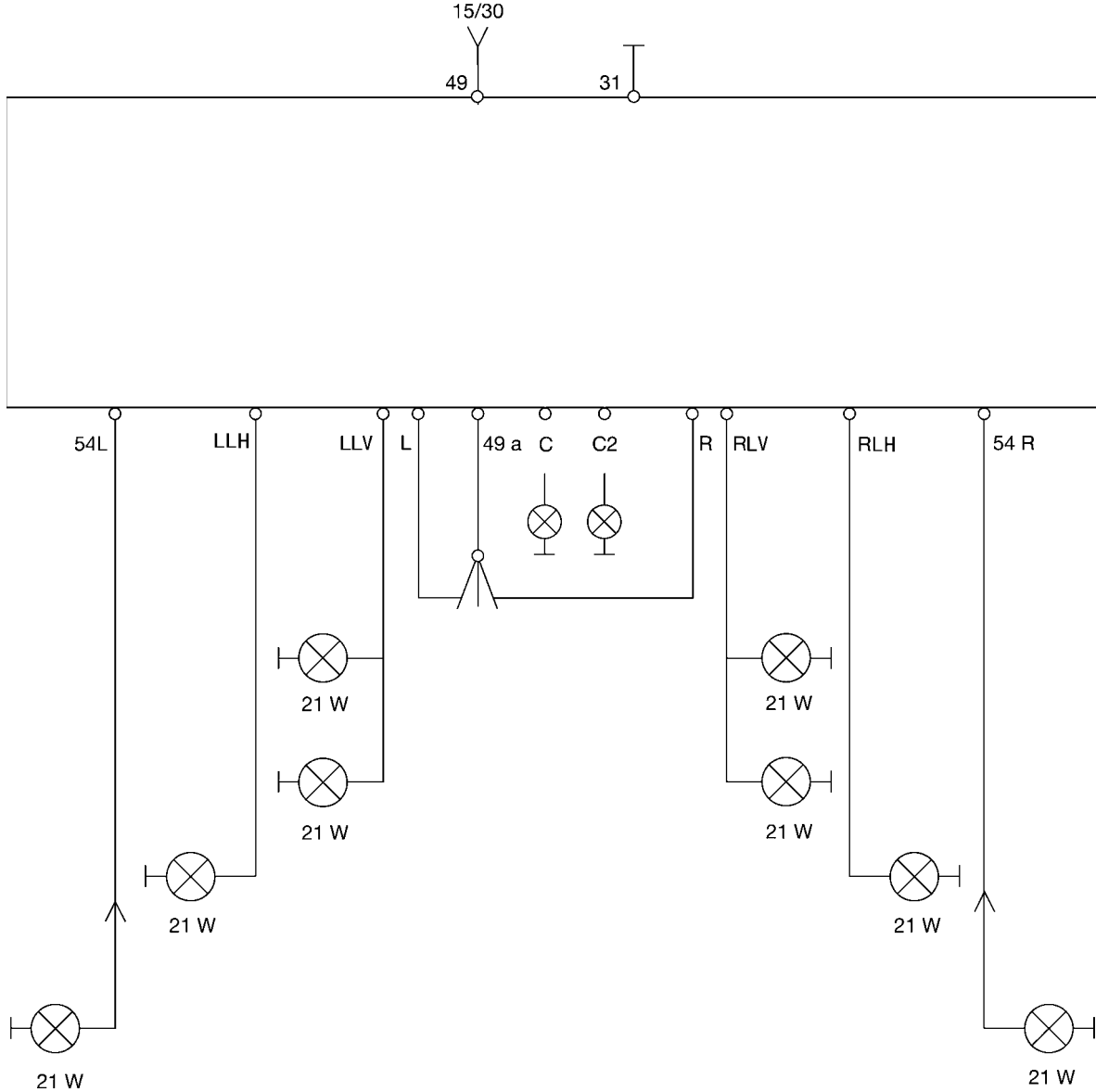
Control types

- EP/PP
- EP/PP

The three-circuit test circuit

With a three-circuit flasher unit there is a separate test circuit for front and rear flasher lamps on the towing vehicle and for the flasher lamps on the trailer.

The use of multiple-circuit flasher units makes sense in heavy utility vehicles and buses to reduce test signal losses in the long cables and many plugged connections and ensure a reliable lamp failure signal.



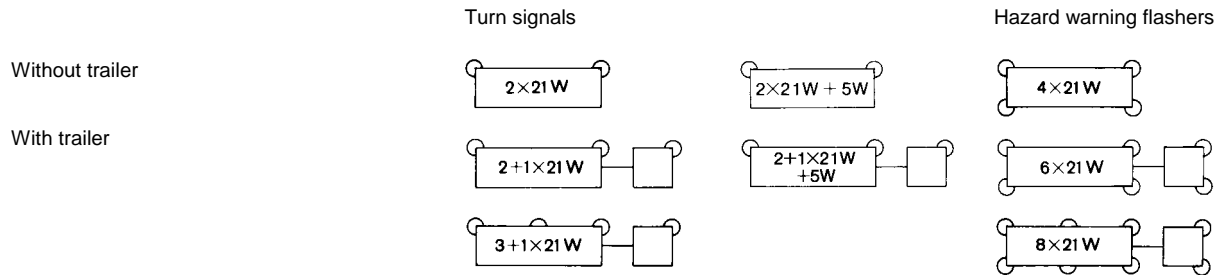
Load drop-off variants

- 1+1...3+1...3 x 21W 24V
- 2+1...3+1...3 x 21W 24V

Control types

- PP
- PP

Electronic turn signal and hazard flasher units for all applications, 12V and 24V



The electronic turn signal and hazard warning flasher units from Hella are available with single-circuit, two-circuit or three-circuit system.

Single-circuit flasher units

Range of application:

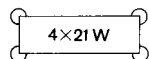
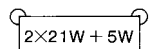
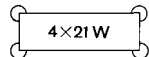
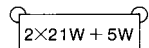
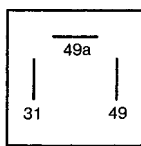
Passenger cars, passenger cars with trailer, transporters, vans, small buses, trucks (light to medium-heavy class), agricultural vehicles, commercial vehicles

All flasher lamps on one side of the vehicle including trailer are switched and controlled by an internal power and control circuit in the flasher unit. A measuring resistor is responsible for the bulb failure control. The single-circuit flasher unit allows reliable control of up to four flasher lamps per vehicle side. A specific fault source display (towing vehicle/trailer) is not possible with single-circuit flasher units.

Single-circuit flasher units

Electronic turn signal and hazard warning flasher units, for vehicles with 12V system, small housing for fit equipment carrier.

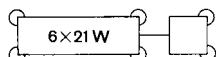
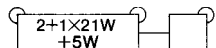
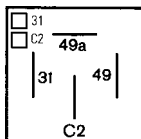
With E-control, in the event of bulb failure the indicator lamp starts to flash quickly.



Part no.	Pk.	
4DB 003 750-711	1	Turn signal and hazard warning flasher unit, 3-pole, without bracket, 12V
4DB 003 750-717	150	
4DB 003 750-721	1	with bracket, 12V



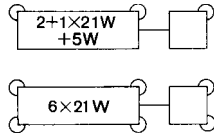
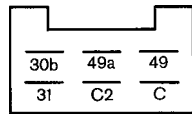
Electronic turn signal and hazard warning flasher units, for vehicles with 12V system. With EP-control, in the event of bulb failure on the towing vehicle the indicator lamp starts to flash quickly, in the event of bulb failure on the trailer the indicator lamp goes out. Suitable hazard warning flasher switch 6HF 001 579-052 (Pk.1) for vehicles with separate stop/flasher lamp function.



Part no.	Pk.	
4DM 003 360-021	1	C2 and 31 connection on top Turn signal and hazard warning flasher unit, 4-pole, 12V
4DM 003 360-027	200	

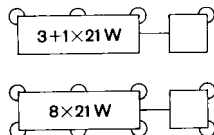
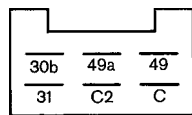
Single-circuit flasher units

For vehicles with 24V system, with P-control,
in the event of bulb failure on the towing vehicle or on a trailer the indicator lamp goes out.



Part no.	Pk.	
4DM 003 944-091	1	Turn signal and hazard warning flasher unit, 6-pole, 24V

For vehicles with 24V system, with P-control,
in the event of bulb failure on the towing vehicle or on a trailer the indicator lamp goes out.



Part no.	Pk.	
4DW 003 944-071	1	Turn signal and hazard warning flasher unit, 6-pole, 24V

Two-circuit flasher units

Range of application:

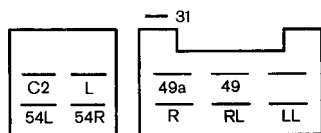
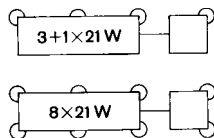
Trucks (medium-heavy to heavy class), buses, commercial vehicles

All flasher lamps on one side of the vehicle including trailer are switched and controlled by an internal power and control circuit in the flasher unit. One control circuit for the towing vehicle, the second for the trailer.
The advantage of this concept is the specific fault display (towing vehicle/trailer) which is not possible in this manner with a one-circuit system. The line losses are taken into consideration by the bulb failure evaluation circuitry for the trailer.

Two-circuit flasher units

Electronic turn signal and hazard warning flasher unit, for vehicles with 12V system, with P-control.

In the event of bulb failure the indicator lamp goes out.



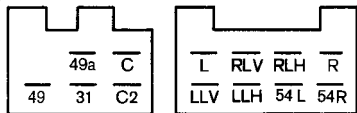
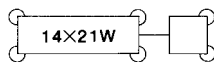
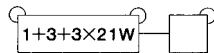
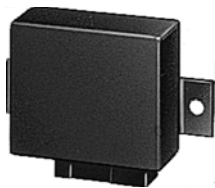
Part no.	Pk.	
4DW 002 834-111	1	Turn signal and hazard warning flasher unit, 11-pole, 12V

Three-circuit flasher units

Range of application:

Commercial vehicles (heavy class), buses

All flasher lamps on one side of the vehicle including trailer or semi-trailer are switched and controlled via three internal power and control circuits in the flasher unit. One control circuit for the front flasher lamps on the towing vehicle, the second for the rear flasher lamps on the towing vehicle. The third control circuit is for the flasher lamps on the trailer or the semi-trailer. Faults from the first and second control circuit are displayed by the indicator lamp for the towing vehicle. Faults from the third control circuit are displayed by the indicator lamp for the trailer. The negative influence on the control characteristics caused by long leads is significantly reduced with the three-circuit system.

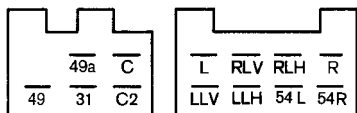
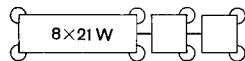
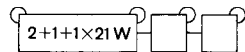


Three-circuit flasher units

Electronic turn signal and hazard warning flasher unit, for vehicles with 24V system, with PP-control.

In the event of bulb failure on the towing vehicle or the trailer the indicator lamp goes out.

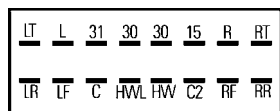
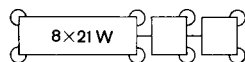
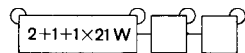
Part no.	Pk.	
4DJ 003 767-001	1	Turn signal and hazard warning flasher unit, 13-pole, 24V



Electronic turn signal and hazard warning flasher unit, for vehicles with 24V system, with PP-control.

In the event of bulb failure on the towing vehicle or the trailer the indicator lamp goes out.

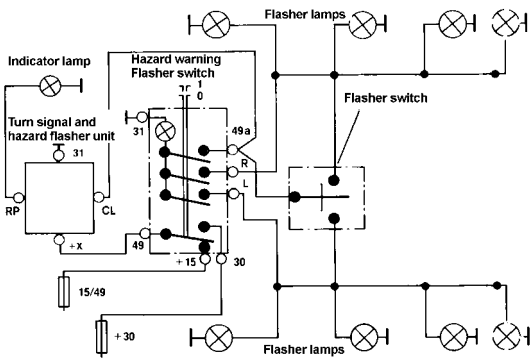
Part no.	Pk.	
4DN 004 589-031	1	Turn signal and hazard warning flasher unit, 13-pole, 24V



Electronic turn signal and hazard warning flasher unit, for vehicles with 24V system, with PP-control.

In the event of bulb failure on the towing vehicle or the trailer the indicator lamp goes out.

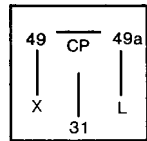
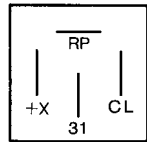
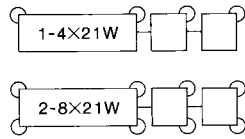
Part no.	Pk.	
4DN 007 431-021	1	Turn signal and hazard warning flasher unit, 16-pole, 24V



Universal electronic flasher unit with switch-on indicator

Transistor version, load-independent, increased short-circuit security. Max. load 10 - 200W.

Proper function of the flasher unit is indicated, when a bulb fails the indicator does not flash.



Part no.	Pk.	
4AZ 003 787-001	1	Turn signal and hazard warning flasher unit, 4-pole, 12V
4AZ 003 787-021	1	Turn signal and hazard warning flasher unit, 4-pole, 24V

Voltage Transformers, Trailer Connecting Units



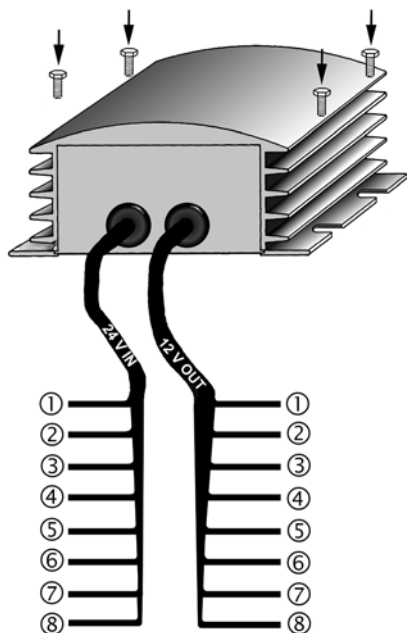
Voltage transformers, trailer connecting units

Allows the use of 12V trailers on vehicles with 24V operating voltage. The integrated voltage transformer makes operation without a separate voltage transformer possible. The trailer connecting unit has 7 channels for the trailer lamp function. Failure of a 12V trailer flasher lamp is indicated by the series warning light C2.

Known vehicle restrictions:
Mercedes Benz Atego MP2 series, DAF 75.360 CF.
Further vehicle applications between traction vehicle and trailer must be checked before permanent installation using 24V connector and 12V coupling; particularly with traction vehicles that are equipped with a bulb failure check.

Technical data:
Rated voltage: 24V/12V.
Capacity per switching channel: 2 x 21W.
Capacity per flasher lamp: 1 x 21W.
Operating temperature: -30 °C to +80 °C.
Polarity inversion protection: permanent protection.
Type of protection: IP5K9K acc. to DIN 50021-55.
Type approvals: e1 / CE.

Part no.	Pk.	
5DS 008 125-011	1	Voltage transformer, trailer connecting unit, 24V/12V



Colour of lead:

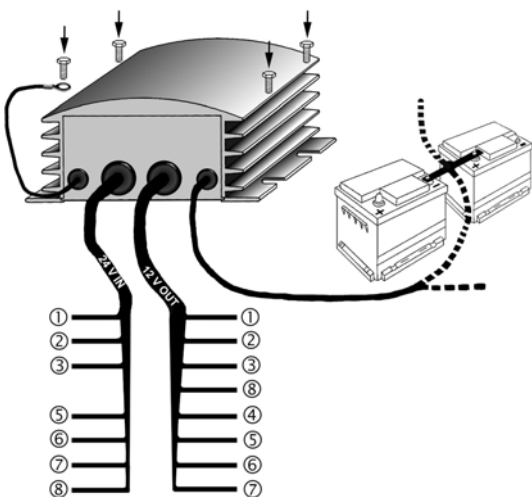
- | | |
|------------------------------|-------------------------------|
| 1 grey = Flasher light left | 1 yellow = Flasher light left |
| 2 blue = Flasher light right | 2 blue = Rear fog light |
| 3 black = Rear fog light | 3 white = Earth |
| 4 brown = Tail light left | 4 green = Flasher light right |
| 5 red = Tail light right | 5 brown = Tail light right |
| 6 yellow = Stop light | 6 red = Stop light |
| 7 green = Reversing light | 7 black = Tail light left |
| 8 white | 8 grey = Reversing light |

Allows the use of 12V trailers on vehicles with 24V operating voltage. The trailer connecting unit makes a separate voltage transformer or a voltage converter with 8A 12V necessary. The following units can be used for this purpose: 8ES 008 123-001, 8ES 008 124-001 or 8ES 006 658-021. The trailer connecting unit has 7 channels for the trailer lamp function. Failure of a 12V trailer flasher lamp is indicated by the series warning light.

Vehicle applications between traction vehicle and trailer must be checked before permanent installation using 24V connector and 12V coupling; particularly with traction vehicles that are equipped with a bulb failure check.

Technical data:
Rated voltage: 24V/12V.
Quiescent current: 8mA.
Steuerstrom der Schaltkanäle: 2,5mA.
Capacity per switching channel: 2 x 21W.
Capacity per flasher lamp: 21W.
Voltage drop along the switching channel: 200mV.
Operating temperature: -30 °C to +80 °C.
Polarity inversion: permanent protection.
Type of protection: IP5K9K acc. to DIN 50021-55.
Type approvals: e1 / CE.

Part no.	Pk.	
5DS 008 125-001	1	Voltage transformer, trailer connecting unit, 24V/12V



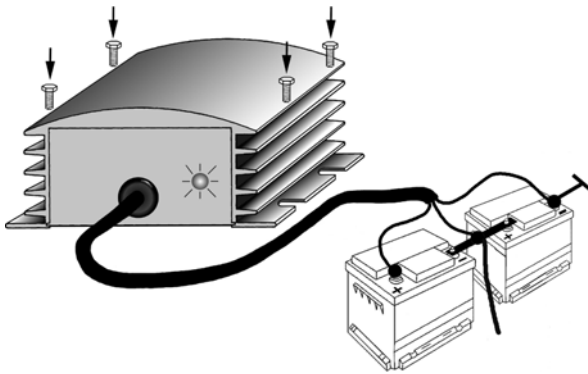
Colour of lead:

24V Towing vehicle ISO 12 098

- | |
|-------------------------------|
| 1 yellow = Flasher light left |
| 2 green = Flasher light right |
| 3 blue = Rear fog light |
| 5 black = Tail light left |
| 6 brown = Tail light right |
| 7 red = Stop light |
| 8 grey = Reversing light |

12V Trailer ISO 11446 bzw. ISO 1724

- | |
|-------------------------------|
| 1 yellow = Flasher light left |
| 2 blue = Rear fog light |
| 3 white = Earth |
| 4 green = Flasher light right |
| 5 brown = Tail light right |
| 6 red = Stop light |
| 7 black = Tail light left |
| 8 grey = Reversing light |



Voltage transformers, trailer connecting units

For vehicles with 24V operating voltage.

The voltage transformer detects the voltages of the two 12V batteries. The voltage transformer produces an equalising current if the battery on the earth side supplies less voltage. Operation of the device is indicated by a light emitting diode. Thus, 12V consumers can be connected to the battery on the earth side. The capacity of the voltage transformer depends on the average power drawn by all of the 12V consumers. If a conventional voltage transformer is used, the device's capacity is to correspond to the maximum power drawn by all of the 12V consumers. Therefore, simply add up the average power consumption of all 12V consumers.

The device is connected via 3 leads: one lead connects to 24V, the second to earth and the third to the centre cap between the batteries.
(see diagram).

Colour of lead:

24V Towing vehicle ISO 12 098

- 1 grey = Reversing light
- 2 blue = Rear fog lamp
- 3 black = Tail light left
- 4 brown = Tail light right
- 5 red = Stop light
- 6 yellow = Flasher light left
- 7 green = Flasher light right
- 8 white = Earth

Part no.	Pk.	Technical data:
8ES 008 123-001	1	Charge compensator 5A Operating voltage: 24V. Compensation current: 5A. Quiescent current: 15mA. Switch-on voltage: 27V. Switch-off voltage difference : 0.5V. Operating temperature: -25 °C to +65 °C. Polarity safeguard and short-circuit proof. Type of protection: IP5K9K.
8ES 008 124-001	1	Charge compensator „Plus“ 8A Operating voltage: 24V. Compensation current: 8A. Quiescent current: 15mA. Switch-on voltage: 27V. Switch-off voltage difference : 0.5V. Operating temperature: -25 °C to +65 °C. Polarity safeguard and short-circuit proof. Type of protection: IP5K9K.

LED-Indicator control unit

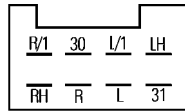
For use with Hella LED-indicators.

For vehicles without flasher unit that carry out current measurement for the failure check.

Is a fault only determined during flashing (e.g. double flashing frequency). No independent voltage supply is required. Protective rating: IP6K9K.

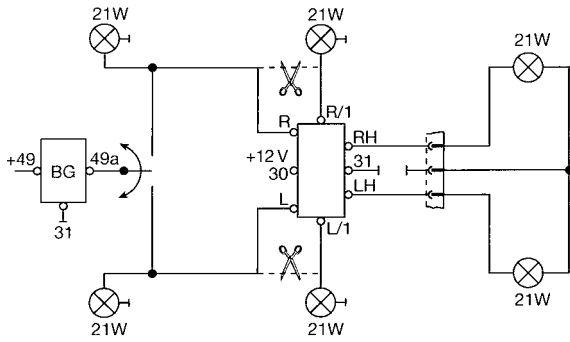


Part no.	Pk.	Indicator control unit for 24V trailers
5DS 009 552-001	1	



Universal

Allows connection of 12V socket without replacing present flasher on towing vehicle.
The flashers are controlled by the present control.



Part no.	Pk.	
4JA 009 126-011	1	Trailer connecting unit, 12V, 8-pole



	+ 24V/ KI 15	
	+ 12V	
	- Masse/ Ground	

Voltage transformers

For commercial vehicles with 24V electrical systems.

Fitting the voltage transformer in vehicles with 24V electrical systems enables 12V radios etc. to be fitted.

Max. load: 2A.
Input voltage: 18V-30V.
Output voltage: 14V ± 3%,
Output power level: 28W.

Dimensions: 100 x 97 x 27 mm,
Distance between fixing holes: 104 mm.
Hole diameter: 7 mm.

Part no.	Pk.	
8ES 006 658-001	1	Voltage transformer



	+ 24V/ KI 15	Batt/KI 30	
	+ 12V	12V/10 mA Memory out	
	- Masse/ Ground	Masse/ -	

For commercial vehicles with 24V electrical systems.

For vehicle radios with auxiliary amplifier, two-way-radios, refrigerators, etc. The voltage transformer has a 12V10mA memory connection for use with radios with station memory, clocks, etc. With exchangeable 4A fuse.

Max. load: 4A.
Input voltage: 18V - 30V.
Output voltage: 14V ± 3%.
Output power level: 56W.

Dimensions: 125 x 65 x 125 mm.
Four 4 mm dia. holes for fixing screws.
Distance between fixing holes: 95 x 117 mm.

Part no.	Pk.	
8ES 006 658-011	1	Voltage transformer



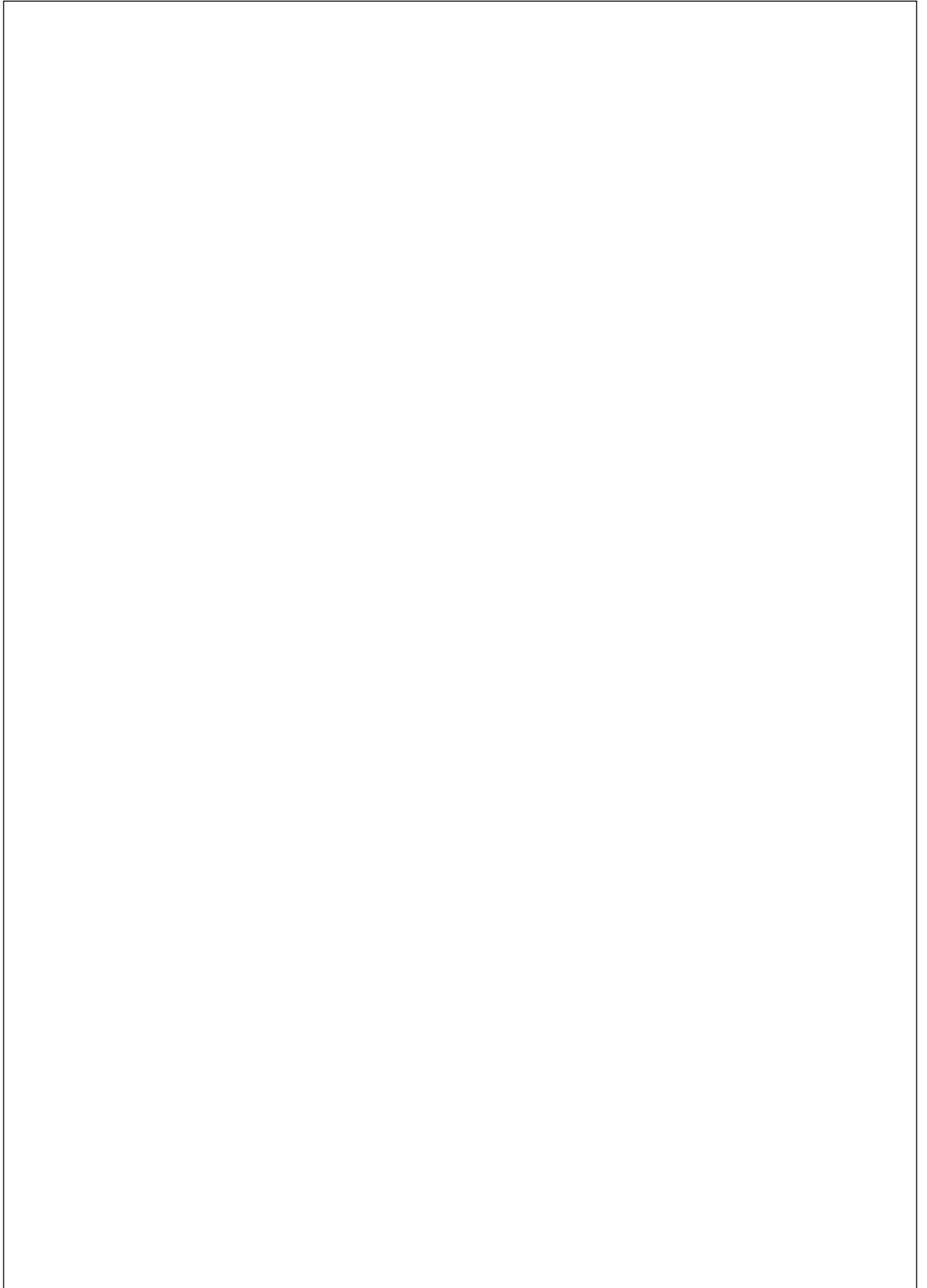
For commercial vehicles with 24V electrical systems.

For stereo-cassette-player/radio with auxiliary amplifier, portable television sets, refrigerators, two-way-radios, etc. The voltage transformer has a 12V10mA memory connection for use with radios with station memory, clocks, etc. With exchangeable 8A fuse.

Max. load: 8A.
Input voltage: 18V - 30V.
Output voltage: 14V ± 3%.
Output power level: 112W.

Dimensions: 250 x 65 x 125 mm.
Four 4 mm dia. holes for fixing screws.
Distance between fixing holes: 117 x 210 mm.

Part no.	Pk.	
8ES 006 658-021	1	Voltage transformer





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Control Units, Glow Plug System

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Control Units, Glow Plug System

Alfa Romeo - Citroën



1

Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Alfa Romeo				
6 (119)	04/79->12/86			
2.5 TD (VM-HR 588 HT, 06/83->05/86)		4RV 008 188-101		
90 (162)	10/84->07/87			
2.4 TD (162.B5) (VM 81 A, 10/84->01/87)		4RV 008 188-101		
Alfetta (116)	07/74->12/84			
2.0 TD (116.BA) (VM4HT/2); 2.4 TD (116.B3) (VM4HT 2.4)		4RV 008 188-101		
Giulietta (116)	10/77->12/85			
2.0 TD (VM 4 HT, 03/83->04/85)		4RV 008 188-101		
Audi				
80 (81, 85, B2)	08/78->08/86			
1.6 D (CR, JK); 1.6 TD (CY)		4RV 008 188-171		•
80 (89, 89Q, 8A, B3)	06/86->10/91			
1.6 D (JK); 1.6 TD (RA, SB); 1.9 D (1Y)		4RV 008 188-171		•
80 (8C, B4)	09/91->12/94			
1.9 TD (AAZ)		4RV 008 188-181		•
80 Avant (8C, B4)	09/91->01/96			
1.9 TD (AAZ)		4RV 008 188-181		•
90 (81, 85, B2)	08/84->03/87			
1.6 TD (CY)		4RV 008 188-171		•
100 (43, C2)	06/76->07/82			
2.0 D (CN, 08/80->07/82)		4RV 008 188-171	from chassis no. 43-B-000 001	•
100 Avant (43, C2)	07/77->02/83			
2.0 D (CN, 08/80->02/83)		4RV 008 188-171	from chassis no. 43-B-000 001	•
100 (44, 44Q, C3)	08/82->11/90			
2.0 D (CN); 2.0 D Turbo (DE)		4RV 008 188-171		•
2.5 TDI (1T)		4RV 008 188-181		•
100 Avant (44, 44Q, C3)	08/82->11/90			
2.0 D (CN); 2.0 TD (DE)		4RV 008 188-171		•
2.5 TDI (1T)		4RV 008 188-181		•
100 (4A, C4)	12/90->07/94			
2.4 D (AAS)		4RV 008 188-171		•
		4RV 008 188-181		•
2.5 TDI (AAT, ABP)		4RV 008 188-171		•
100 Avant (4A, C4)	12/90->11/94			
2.4 D (AAS)		4RV 008 188-171		•
		4RV 008 188-181		•
2.5 TDI (AAT, ABP)		4RV 008 188-171		•
Citroën				
AX (ZA-)	07/86->12/98			
14 D (K9Y (TUD3Y)); 14 D (K9A (TUD3))		4RV 008 188-091		
14 D (K9Y (TUD3Y, 08/91->12/97)); 14 D (K9A (TUD3, 09/88->06/92)		4RV 008 188-271	from org. no. 05715	
14 D 4x4 (K9A (TUD3, 06/91->07/92)		4RV 008 188-271	from org. no. 05715	
15 D (VJY (TUD5)); 15 D (VJZ (TUD5))		4RV 008 188-321		•
BX (XB-)	10/82->06/94			
1.8 D (161 (XUD7), 10/85->01/93); TRD Turbo (A8A (XUD7TE), AJZ (XUD7TE)); 19 D (162 (XUD9), D9A (XUD9)); 19 D (D9B (XUD9A/U))		4RV 008 188-091		
BX Break (XB-)	04/83->12/94			
19 D (162 (XUD9), D9A (XUD9)); 19 D (D9B (XUD9A/U)); TRD Turbo (A8A (XUD7TE), AJZ (XUD7TE), 03/88->01/93)		4RV 008 188-091		
CX I (MA)	09/74->08/85			
2500 D (M25-629, 08/79->06/82)		4RV 008 188-081		
CX I Break (MA)	09/75->08/85			
2500 D (M25-629, 08/79->08/85); 2500 D Turbo (M25-648)		4RV 008 188-081		



Control Units, Glow Plug System

Citroën - Fiat



Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Citroën				
CX II	07/85->12/92			
25 D (M25-660); 25 D Turbo (M25-648); 25 D Turbo (M25-669, 04/87->12/92)		4RV 008 188-081		
CX II Break	07/85->12/92			
25 D (M25-660, 05/86->06/88); 25 D Turbo 2 (M25-669, 04/87->12/92)		4RV 008 188-081		
Evasion (22, U6)	06/94->07/02			
1.9 TD (DHX (XUD9TF/BTF), D8B (XUD9TF))		4RV 008 188-281	equipment version DSX	•
		4RV 008 188-291	equipment version DV SX	•
2.0 TDY()		4RV 008 188-281		•
Saxo (S0, S1)	02/96->04/04			
1.5 D (VJY (TUD5)); 1.5 D (VJZ (TUD5))		4RV 008 188-321		•
Visa	09/78->03/91			
17 D (161A (XUD7), 04/84->01/89)		4RV 008 188-091		
Xantia (X1)	03/93->01/98			
1.9 D (DJZ (XUD9Y)); 1.9 D (D9B (XUD9A/L)); 1.9 Turbo D (DHY (XUD9TE/Y), DHX (XUD9TF/BTF))		4RV 008 188-321		•
19 D (DJZ (XUD9Y), 06/94->01/98), 19 D (D9B (XUD9A/L), 06/94->01/98)		4RV 008 188-271	for manuf. exhaust norm CEE 19-5, up to org. no. 06778	
Xantia Break (X1)	06/95->01/98			
1.9 Turbo D (DHX (XUD9TF/BTF), D8B (XUD9TF), DHY (XUD9TE/Y))		4RV 008 188-321		•
Xantia (X2)	01/98->04/03			
1.9 Turbo D (DHY (XUD9TE/Y), DHX (XUD9TF/BTF), 01/98->08/98)		4RV 008 188-321		•
Xsara (N1)	04/97->04/05			
1.5 D (VJZ (TUD5)); 1.8 D (161A (XUD7), A9A (XUD7)); 1.8 TDY(); 1.9 D (DJY (XUD9A)); 1.9 TD (DHY (XUD9TE/Y))		4RV 008 188-321		•
Xsara Break (N2)	10/97->08/05			
1.8 D (A9A (XUD7)); 1.9 D (DJY (XUD9A)); 1.9 TD (DHY (XUD9TE/Y))		4RV 008 188-321		•
XM (Y3)	05/89->10/94			
2.1 D 12V (P9A (XUD11A, 05/89->06/94)		4RV 008 188-271		
2.1 T 12V (PJZ/PHZ/P8A (XUD11ATE, 05/89->06/94)		4RV 008 188-271		
XM Break (Y3)				
2.1 D 12V (P9A (XUD11A, 11/91->04/94)		4RV 008 188-271		
2.1 T 12V (PJZ/PHZ/P8A (XUD11ATE, 11/91->04/94), P8C (XUD11BTE, 11/91->04/94)		4RV 008 188-271		
XM (Y4)	05/94->10/00			
2.1 D 12 V SX (P9A (XUD11A, 03/96->08/96)		4RV 008 188-271		
2.1 T 12V (PJZ/PHZ/P8A (XUD11ATE)		4RV 008 188-271		
XM Break (Y4)	05/94->10/00			
2.1 D 12 (P9A (XUD11A, 07/94->06/96)		4RV 008 188-271		
2.1 TD 12V (PJZ/PHZ (XUD11ATE)		4RV 008 188-271		
ZX (N2)	03/91->10/97			
1.9 D (D9B, 06/95->06/97)		4RV 008 188-301		•
1.9 TD (DHY (XUD9TE/Y))		4RV 008 188-281		•
14 D (07/94->10/97)		4RV 008 188-271		
18 D (161A (XUD7), 06/93->10/97)		4RV 008 188-271	for manuf. exhaust norm CEE 19-5, up to org. no. 06778	
ZX Break (N2)	10/93->02/98			
1.9 D (D9B)		4RV 008 188-301		•
1.9 TD (DHY (XUD9TE/Y))		4RV 008 188-281		•
Fiat				
Argenta (132A)	05/77->03/87			
2500 Diesel (8144.61)		4RV 008 188-091		
Croma (154)	12/85->12/96			
2500 D (8144.67, 01/89->12/89)		4RV 008 188-091		
Panda (141A)	03/80->07/04			
1300 D (156 A5.000, 04/86->12/89)		4RV 008 188-111		•



Control Units, Glow Plug System

Fiat - Ford



1

Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Fiat				
Ritmo II (138A)	10/82->12/88			
60 Diesel 1.7 (🚗 138 B6.000); 60 Diesel 1.7 (🚗 149 B3.000, 138 C.000)		4RV 008 188-111		•
Ulysse (220)	06/94->08/02			
1.9 TD (220AH5) (🚗 DHX (XUD9TF/L))		4RV 008 188-281		•
131	10/74->12/86			
2.0 D (🚗 8144.65); 2.5 Diesel (🚗 8144.61)		4RV 008 188-091		
131 Familiare/Panorama	03/75->12/84			
2.0 D (🚗 8144.65); 2.5 Super Diesel (AF) (🚗 8144.61)		4RV 008 188-091		
Ford				
Escort IV (GAF, AWF, ABFT)	10/85->10/90			
1.8 D (🚗 RTA, RTB)		4RV 008 188-221		•
Escort IV Estate (AWF, AVF)	10/85->10/90			
1.8 D (🚗 RTA, RTB)		4RV 008 188-221		•
Escort V (GAL)	07/90->12/92			
1.8 D (🚗 RTE, RTF, RTH)		4RV 008 188-221		•
Escort V Estate (GAL, AVL)	07/90->12/92			
1.8 D (🚗 RTE, RTF, RTH)		4RV 008 188-221		•
Escort VI Estate (GAL)	09/92->01/95			
1.8 D (🚗 RTH)		4RV 008 188-221		•
Escort VII (GAL, AAL, ABL)	01/95->10/98			
1.8 D (🚗 RTE, RTF, RTH); 1.8 Turbo D (🚗 RVA)		4RV 008 188-221		•
Escort VII Saloon (GAL, AFL)	01/95->02/99			
1.8 D (🚗 RTE, RTF, RTH); 1.8 Turbo D (🚗 RVA)		4RV 008 188-221		•
Escort VII Estate (GAL, ANL)	01/95->02/99			
1.8 Turbo D (🚗 RVA)		4RV 008 188-221		•
Escort VII Convertible (ALL)	02/95->08/00			
1.8 Turbo D (🚗 RVA)		4RV 008 188-221		•
Fiesta III (GFJ)	01/89->01/97			
1.8 D (🚗 RTD, RTG, RTC)		4RV 008 188-221		•
Fiesta IV (JA_, JB_)	08/95->01/02			
1.8 D (🚗 RTK, RTJ)		4RV 008 188-211		•
Granada (GU)	08/77->08/85			
2.5 D (🚗 STP)		4RV 008 188-161		
Granada Estate (GNU)	08/77->08/85			
2.5 D (🚗 STP)		4RV 008 188-161		
Orion II (AFF)	12/85->07/90			
1.8 D (🚗 RTA, RTB)		4RV 008 188-221		•
Orion III (GAL)	07/90->12/93			
1.8 D (🚗 RTE, RTF, RTH)		4RV 008 188-221		•
Scorpio I (GAE, GGE)	04/85->09/94			
2.5 D (🚗 STR)		4RV 008 188-161		
Scorpio I Estate (GGE)	05/88->09/94			
2.5 TD (🚗 SFA, SFB); 2.5 TD (🚗 SCB)		4RV 008 188-161		
Sierra Hatchback (GBC)	08/82->02/87			
2.3 D (🚗 YTT)		4RV 008 188-161		
Sierra Estate (BNC)	08/82->12/86			
2.3 D (🚗 YTT)		4RV 008 188-161		
Sierra Hatchback (GBC, GBG)	01/87->03/93			
2.3 D (🚗 YTR)		4RV 008 188-161		
Sierra (GBG, GB4)	01/87->02/93			
2.3 D (🚗 YTR, YTT)		4RV 008 188-161		
Sierra Estate (BNG)	01/87->02/93			
2.3 D (🚗 YTR)		4RV 008 188-161		



Control Units, Glow Plug System

Mercedes-Benz - Opel



Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Mercedes-Benz				
190 (W201)	10/82->08/93			
E 2.0 (201.024) (🚗 M 102.961, M 102.962)		4RV 008 188-371		●
D 2.0 (201.122) (🚗 OM 601.911, 08/83->01/89); D 2.0 (201.122) (🚗 OM 601.911)		4RV 008 188-051		●
D 2.5 (201.126) (🚗 OM 602.911, 04/85->01/89)		4RV 008 188-021		●
D 2.5 (201.126) (🚗 OM 602.911, 02/89->08/93); D 2.5 (201.126) (🚗 OM 602.911)		4RV 008 188-061		●
C-Class (W202)	03/93->05/00			
C 200 D (202.120) (🚗 OM601.913, 03/93->08/95)		4RV 008 188-051		●
Saloon (W123)	01/76->12/85			
200 D (123.120) (🚗 OM 615.940); 200 D (123.120) (🚗 OM 615.940);		4RV 008 188-001		●
240 D (123.123) (🚗 OM 616.912)		4RV 008 188-371		●
300 D (123.130) (🚗 OM 617.912); 300 Turbo-D (123.133) (🚗 OM 617.952)		4RV 008 188-371		●
T-Model (S123)	09/77->12/85			
240 T D (123.183) (🚗 OM 616.912); 240 T D (123.183) (🚗 OM 616.912)		4RV 008 188-001		●
		4RV 008 188-371		●
300 T D (123.190) (🚗 OM 617.912); 300 T Turbo-D (123.193) (🚗 OM 617.952)		4RV 008 188-371		●
Saloon (W124)	12/84->06/93			
200 D (124.120) (🚗 OM 601.912)		4RV 008 188-001		●
		4RV 008 188-041		●
		4RV 008 188-371		●
200 D (124.120) (🚗 OM 601.912, 02/89->08/89)		4RV 008 188-041		●
250 D (124.125) (🚗 OM 602.912, 02/89->06/93)		4RV 008 188-021		●
250 D (124.125) (🚗 OM 602.912, 01/89->06/93);		4RV 008 188-061		●
300 D (124.130) (🚗 OM 603.912, 02/89->08/89)		4RV 008 188-061		●
250 D (124.125) (🚗 OM 602.912)		4RV 008 188-061		●
		4RV 008 188-371		●
300 D (124.130) (🚗 OM 603.912, 12/84->01/89);		4RV 008 188-031		●
300 D 4-matic (124.330) (🚗 OM 603.913, 09/86->08/90);				
300 D 4-matic (124.330) (🚗 OM 603.913, 08/89->08/90)				
300 D 4-matic (124.330) (🚗 OM 603.913, 02/89->08/92);		4RV 008 188-071		●
300 D (124.130) (🚗 OM 603.912); 300 D 4-matic (124.330) (🚗 OM 603.913)				
T-Model (S124)	09/85->06/93			
200 T D (124.180) (🚗 OM 601.912)		4RV 008 188-001		●
		4RV 008 188-371		●
200 T D (124.180) (🚗 OM 601.912, 02/89->08/91)		4RV 008 188-041		●
250 T D (124.185) (🚗 OM 602.912)		4RV 008 188-371		●
300 T D (124.190) (🚗 OM 603.912, 09/86->01/89);		4RV 008 188-031		●
300 T D (124.190) (🚗 OM 603.912, 01/89->01/89)				
300 T D (124.190) (🚗 OM 603.912, 02/89->06/93)		4RV 008 188-071		●
G-Class (W460)	03/79->08/93			
240 GD (460,3) (🚗 OM 616.936)		4RV 008 188-001		●
		4RV 008 188-371		●
250 GD (460,3) (🚗 OM 602.930); 300 GD (460,3) (🚗 OM 617.931)		4RV 008 188-371		●
G-Class (W463)	09/89->			
300 GD (463.327, 463.328) (🚗 OM 603.931)		4RV 008 188-071		●
G-Class Open Off-Road Vehicle (W463)	04/80->07/93			
300 GD (463.307) (🚗 OM 603.931)		4RV 008 188-071		●
V-Class (638/2)	02/96->07/03			
V 230 TD (638.274) (🚗 OM 601.970)		4RV 008 188-371		●
Opel				
Ascona C CC (84_, 89_)	09/81->08/88			
1.6 D (🚗 16 D, 16 DA)		4RV 008 188-161		●
Ascona C (81_, 86_, 87_, 88_)	09/81->10/88			
1.6 D (🚗 16 D, 16 DA)		4RV 008 188-161		●
Astra F CC (53_, 54_, 58_, 59_)	09/91->01/98			
1.7 D (🚗 17 D); 1.7 D (🚗 17 DR)		4RV 008 188-161		●
Astra F (56_, 57_)	09/91->09/98			
1.7 D (🚗 17 D); 1.7 D (🚗 17 DR)		4RV 008 188-161		●



Control Units, Glow Plug System

Opel - Peugeot



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Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Opel				
Astra F Estate (51_, 52_)	09/91->01/98			
1.7 D (17 D); 1.7 D (17 DR)		4RV 008 188-161		
Kadett D (31_-34_, 41_-44_)	08/79->08/84			
1.6 D (16 D)		4RV 008 188-161		
Kadett D Estate (35_, 36_, 45_, 46_)	08/79->08/84			
1.6 D (16 D)		4RV 008 188-161		
Kadett E CC (33_, 34_, 43_, 44_)	09/84->08/91			
1.6 D (16 D, 16 DA); 1.7 D (17 D)		4RV 008 188-161		
Kadett E (39_, 49_)	09/84->08/91			
1.6 D (16 D, 16 DA); 1.7 D (17 D)		4RV 008 188-161		
Kadett E Estate (35_, 36_, 45_, 46_)	09/84->08/91			
1.6 D (16 D, 16 DA); 1.7 D (17 D)		4RV 008 188-161		
Omega A (16_, 17_, 19_)	09/86->05/94			
2.3 D (23 YD); 2.3 TD (23 YDT); 2.3 TD Interc. (23 DTR)		4RV 008 188-161		
Omega A Estate (66_, 67_)	09/86->05/94			
2.3 D (23 YD, 10/86->03/94); 2.3 TD (23 YDT, 10/86->08/88); 2.3 TD Interc. (23 DTR)		4RV 008 188-161		
Rekord E (17_-19_, 11_, 14_, 16_)	08/77->08/86			
2.2 D (23 D, 08/78->01/82); 2.2 D (23 D); 2.2 TD (23 TD)		4RV 008 188-161		
Rekord E Estate (61_, 66_, 67_)	08/77->08/86			
2.2 D (23 D, 08/78->01/82); 2.3 D (23 D); 2.2 TD (23 TD)		4RV 008 188-161		
Senator A (29_)	02/78->08/87			
2.2 TD (23 TD)		4RV 008 188-161		
Vectra A CC (88_, 89_)	04/88->11/95			
1.7 D (17 D)		4RV 008 188-161		
Vectra A (86_, 87_)	08/88->11/95			
1.7 D (17 D)		4RV 008 188-161		
Peugeot				
106 I (1A, 1C)	08/91->04/96			
14 D (K9Y TUD3Y, 09/92->04/96)		4RV 008 188-271		
1.5 D (VJY (TUD5)); 1.5 DY()		4RV 008 188-321		•
106 II (1)	04/96->			
1.5 D (VJY (TUD5))		4RV 008 188-321		•
205 I (741A/C)	02/83->10/87			
1.7 Diesel (161A (XUD7))		4RV 008 188-091		
205 II (20A/C)	01/87->09/98			
1.7 Diesel (161A (XUD7)); 1.7 TD (A8B (XUD7TE), 01/90->08/98); 1.9 Diesel (DJZ (XUD9Y), 10/87->08/98)		4RV 008 188-091		
304 (_04M_)	10/69->10/79			
1.4 D (M20) (XL4D, 02/79->10/79)		4RV 008 188-081		
305 I (581A)	11/77->09/82			
1.5 Diesel (149 (XID), 01/79->06/81)		4RV 008 188-081		
1.5 Diesel (149 (XID), 07/81->09/82)		4RV 008 188-091		
305 I Break (581D)	08/80->09/82			
1.5 Diesel (149 (XID), 08/80->06/81)		4RV 008 188-081		
1.5 Diesel (149 (XID), 07/81->09/82)		4RV 008 188-091		
305 II (581M)	10/82->07/90			
1.9 D (162 (XUD9), D9A (XUD9)); 1.9 D (162 (XUD9))		4RV 008 188-091		
305 II Break (581E)	10/82->07/90			
1.9 Diesel (162 (XUD9), D9A (XUD9)); 1.9 Diesel (162 (XUD9))		4RV 008 188-091		
306 Hatchback (7A, 7C, N3, N5)	04/93->08/01			
1.8 D (XUD7); 1.9 D (XUD9A)		4RV 008 188-301		•
18 D (XUD7) 04/93->06/95; 18 D (A9A (XUD7), 05/93->06/95)		4RV 008 188-271	for manuf. exhaust norm CEE 19-5	



Control Units, Glow Plug System

Peugeot



Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Peugeot				
306 Hatchback (7A, 7C, N3, N5)		04/93->08/01		
19 D (XUD7, 04/93->06/95); 19 D (DJZ (XUD9Y), 05/93->06/95)		4RV 008 188-271	for manuf. exhaust norm US 87, CEE 19-5	
19 D (DJY (XUD9A), 06/94->06/95)		4RV 008 188-271	for manuf. exhaust norm CEE 19-5	
1.9 D (DJZ (XUD9Y), 05/93->08/98); 1.9 D (DJY (XUD9A), 06/94->08/98)		4RV 008 188-321		●
1.9 DT (XUD9TE)		4RV 008 188-281		●
306 (7B, N3, N5)		04/93->05/01		
1.9 SLD (DJZ (XUD9Y), 06/94->06/95); 1.9 SLD DJY (XUD9A), 06/94->06/95)		4RV 008 188-271	for manuf. exhaust norm CEE 19-5	
1.9 SLD (DJZ (XUD9Y), 06/94->08/98); 1.9 SLD (DJY (XUD9A), 06/94->08/98)		4RV 008 188-321		●
1.9 SLD (XUD9A, 07/95->05/01)		4RV 008 188-301		●
1.9 SRDT (XUD9TE)		4RV 008 188-281		●
1.9 Diesel (DJZ (XUD9Y), 07/88->09/92)		4RV 008 188-271	for manuf. exhaust norm CEE 19-5	
306 Break (7E, N3, N5)		06/94->04/02		
1.9 D (XUD9A)		4RV 008 188-301		●
1.9 D (DJY (XUD9A), 03/97->08/98)		4RV 008 188-321		●
309 I (10C, 10A)		10/85->12/89		
1.9 D (162 (XUD9), D9A (XUD9))		4RV 008 188-091		
309 II (3C, 3A)		07/89->12/93		
1.8 Diesel (161A (XUD7)); 1.8 TD (A8B (XUD7TE)); 1.9 Diesel (162 (XUD9), D9A (XUD9), DJZ (XUD9Y))		4RV 008 188-091		
405 I (15B)		01/87->12/93		
1.8 Turbo Diesel (A8A (XUD7TE), AJZ (XUD7TEY)); 1.9 Diesel (D9B (XUD9A), 03/88->01/92)		4RV 008 188-091		
1.9 Diesel (D9B (XUD9A), 03/88->12/92)		4RV 008 188-271	for manuf. exhaust norm CEE 19-5	
405 I Break (15E)		06/87->08/92		
1.8 TD (A8A (XUD7TE), AJZ (XUD7TEY), 10/88->01/92); 1.9 D (D9B (XUD9A), DJY (XUD9A), 10/88->01/92)		4RV 008 188-091		
1.9 Diesel (DJZ (XUD9Y), 10/88->08/92); 1.9 D (DJY/D9B (XUD9A), 10/88->08/92)		4RV 008 188-271	for manuf. exhaust norm CEE 19-5	
405 II (4B)		08/92->10/95		
1.9 D (DJZ (XUD9Y), 08/92->06/94)		4RV 008 188-271	for manuf. exhaust norm US 87	
1.9 D (DJZ (XUD9Y), 07/94->10/95)		4RV 008 188-321		●
1.9 D (DJY (XUD9A))		4RV 008 188-091		
1.9 D (XUD9A, 07/95->10/95)		4RV 008 188-301		●
1.9 TD (XUD9TE)		4RV 008 188-281		●
405 II Break (4E)		08/92->10/96		
1.9 D (DJZ (XUD9Y), 08/92->06/94)		4RV 008 188-271	for manuf. exhaust norm US 87	
1.9 D (DJZ (XUD9Y), 07/94->10/96); 1.9 D (DJY (XUD9A))		4RV 008 188-321		●
1.9 D (XUD9A, 07/95->10/96)		4RV 008 188-301		●
1.9 D (XUD9), 09/93->06/94)		4RV 008 188-271	for manuf. exhaust norm US 87	
1.9 TD (XUD9TE)		4RV 008 188-281		●
504 (A_, M_)		07/68->07/86		
1.9 D (M20) (XD4x88, 06/78->07/86); 2.1 D (A20, M20) (XD4x90, 06/78->04/81); 2.3 D (A40, A45) (134 (XD2), 06/78->04/81)		4RV 008 188-081		
2.1 D (A20, M20) (XD4x90, 05/81->09/81); 2.3 D (A40, A45) (134 (XD2), 05/81->12/83)		4RV 008 188-091		
504 Break (D_, F_)		04/71->07/86		
2.1 D (E20, F20) (XD4x90, 06/78->04/81); 2.3 D (D40, F40) (134 (XD2), 06/78->04/81)		4RV 008 188-081		
2.1 D (E20, F20) (XD4x90, 05/81->09/81); 2.3 D (D40, F40) (134 (XD2), 05/81->07/86)		4RV 008 188-091		
505 (551A)		05/79->12/93		
2.3 Turbo Diesel (147 (XD2S), 09/80->08/81)		4RV 008 188-081		
2.3 Turbo Diesel (147 (XD2S), 09/81->06/86); 2.5 Diesel (155 (XD3)); 2.5 Turbo Diesel (152A (XD3T), 10/83->01/92); 2.5 Turbo Diesel (XD3T)		4RV 008 188-091		
505 Break (551D)		04/82->12/93		
2.3 Diesel (147 (XD2S)); 2.5 Diesel (155 (XD3), 01/86->01/92); 2.5 Diesel (155 (XD3), 08/83->01/92); 2.5 Turbo Diesel (152A (XD3T))		4RV 008 188-091		
604 (561A_)		08/77->07/87		
2.3 TD (147 (XD2S), 09/79->09/81)		4RV 008 188-081		



Control Units, Glow Plug System

Peugeot - Seat



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Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Peugeot				
604 (561A_)	08/77->07/87			
2.3 TD (🚗147 (XD2S), 10/81->05/83); 2.5 TD (🚗152A (XD3T))		4RV 008 188-091		
605 (6B)	06/89->09/99			
2.1 Turbo Diesel (🚗PHZ (XUD11ATE)); 2.1 TD 12V (🚗P8C (XUD11BTE), 08/94->08/98); 2.1 D (🚗P9A (XUD11A))		4RV 008 188-091		
806 (221)	06/94->08/02			
1.9 TD (🚗XUD9TE)		4RV 008 188-281		•
Puch				
G-Class (W463)	09/89->			
300 GD (🚗OM 603.931)		4RV 008 188-071		•
Renault				
Espace I (J11_)	07/84->12/92			
2.1 TD (J/S115) (🚗J8S 240, J8S 774, 01/85->12/90)		4RV 008 188-101		
Espace II (J/S63_)	01/91->12/96			
2.1 TD (J633, J634, J/S635, J/S63D) (🚗J8S 610)		4RV 008 188-101		
Fuego (136_)	02/80->11/92			
2.1 TD (🚗J8S 712, 08/82->07/84)		4RV 008 188-091		
Super 5 (B/C40_)	10/84->12/96			
1.6 D (B/C/404) (🚗F8M 720, F8M 730)		4RV 008 188-101		
9 (L42_)	09/81->12/89			
1.6 D (L424) (🚗F8M 700, F8M 720, F8M 730, 10/82->09/83)		4RV 008 188-101		
18 (134_)	04/78->11/93			
2.1 Diesel (1344) (🚗852 710, J8S 711)		4RV 008 188-101		
18 Variable (135_)	02/79->11/93			
2.1 Diesel (1354) (🚗852 710, J8S 711, 05/81->07/86)		4RV 008 188-101		
20 (127_)	10/75->12/83			
2.1 Diesel (1276) (🚗852, 10/80->04/81)		4RV 008 188-081		
2.1 Diesel (1276) (🚗852, 05/81->12/83); 2.1 TD (🚗J8S 702)		4RV 008 188-091		
21 (B48_)	09/89->06/94			
1.9 D (B48H, B48I) (🚗F8Q 710); 2.1 D (B48V/B48O) (🚗J8S 740, J8S 600); 2.1 Turbo-D (B486, B488, B48V) (🚗J8S 714, J8S 788, J8S 786)		4RV 008 188-101		
21 Saloon (L48_)	03/86->06/94			
1.9 D (L48H, L48I) (🚗F8Q 710); 2.1 D (L486) (🚗J8S 704); 2.1 D (L48V, L48O) (🚗J8S 740, J8S 600); 2.1 Turbo-D (L48A, L48W, L487, L488) (🚗J8S 714, J8S 788, J8S 786)		4RV 008 188-101		
21 Estate (K48_)	03/86->08/94			
1.9 D (🚗F8Q 710); 2.1 D (K/S486) (🚗J8S 704); 2.1 D 4x4 (K486) (🚗J8S 704); 2.1 D (K/S48V, K/S48O) (🚗J8S 740, J8S 600); 2.1 Turbo-D (K48A, K48W, K487, K488) (🚗J8S 714)		4RV 008 188-101		
25 (B29_)	04/84->12/93			
2.1 Diesel (B296) (🚗J8S 706)		4RV 008 188-101		
2.1 Diesel (B296) (🚗J8S 736); 2.1 Turbo-D (B290, B29W) (🚗J8S 708, J8S 738)		4RV 008 188-091		
30 (127_)	02/75->03/86			
2.1 Turbo-D (1270) (🚗J8S 702)		4RV 008 188-091		
Safrane I (B54_)	04/92->07/96			
2.5 dT (B548) (🚗S8U 762, S8U 763), 12/92->07/96)		4RV 008 188-201		•
Seat				
Cordoba (6K2/C2)	02/93->10/99			
1.9 D (🚗1Y)		4RV 008 188-181	from chassis no. 6K-ZR530 332, 6K-ZR025 747	•
Ibiza I (021A)	06/84->12/93			
1.7 D (🚗022 A.5000, 06/84->08/87)		4RV 008 188-091		



Control Units, Glow Plug System

Seat - Vauxhall



Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Seat				
Ibiza II (6K1)	03/93->08/99			
1.9 D (🚗1Y)		4RV 008 188-181		●
Malaga (023A)	11/84->12/93			
1.7 D (🚗022 A.5000, 05/85->08/87)		4RV 008 188-091		
Ronda (022A)	06/82->11/88			
1.7 Diesel (🚗022 A.5000)		4RV 008 188-091		
Toledo I (1L)	01/91->10/99			
1.9 D (🚗1Y)		4RV 008 188-181	Code 102	●
131	05/75->12/86			
2.4 Diesel (🚗8144.61, 06/82->12/84)		4RV 008 188-091		
Ssangyong				
Musso (FJ)	10/95->			
2.3 D (🚗OM 601.940, MB-OM 661)		4RV 008 188-371		●
Talbot				
Horizon	02/78->06/86			
1.9 Diesel (🚗XUD9)		4RV 008 188-091		
Tagora	06/80->12/87			
2.3 Turbo Diesel (🚗XD2S, 08/81->12/83)		4RV 008 188-091		
Vauxhall				
Astra CC	09/79->08/86			
1.6 D (🚗16 D, 09/84->08/86)		4RV 008 188-161		
Astra Estate	09/79->08/86			
1.6 D (🚗16 D, 09/84->08/86)		4RV 008 188-161		
Astra Mk II CC	09/84->08/91			
1.6 D (🚗16 DA, 09/84->01/89); 1.7 D (🚗17 DR)		4RV 008 188-161		
Astra Mk II Belmont	09/85->12/91			
1.6 D (🚗16 DA, 09/85->01/89); 1.7 D (🚗17 D)		4RV 008 188-161		
Astra Mk II Estate	09/84->08/91			
1.6 D (🚗16 DA, 09/84->01/89); 1.7 D (🚗17 D)		4RV 008 188-161		
Astra Mk III CC	09/91->02/98			
1.7 D (🚗17 D, 12/91->01/94)		4RV 008 188-161		
Astra Mk III	09/91->09/98			
1.7 D (🚗17 D)		4RV 008 188-161		
Astra Mk III Estate	03/91->02/98			
1.7 D (🚗17 D, 12/91->01/94)		4RV 008 188-161		
Carlton Mk II	10/78->08/86			
2.3 D (🚗23 D)		4RV 008 188-161		
Carlton Mk II Estate	10/78->08/86			
2.3 D (🚗23 D)		4RV 008 188-161		
Carlton Mk III	09/86->03/94			
2.3 D (🚗23 YD, 09/86->01/94); 2.2 TD (🚗23 YDT); 2.3 TD Interc. (🚗23 DTR, 03/92->01/94)		4RV 008 188-161		
Carlton Mk III Estate	09/86->03/94			
2.3 D (🚗23 YD, 09/86->01/92); 2.2 TD (🚗23 YDT); 2.3 TD Interc. (🚗23 DTR, 03/92->01/94)		4RV 008 188-161		
Cavalier Mk II	09/81->08/88			
1.6 D (🚗16 D, 16 DA)		4RV 008 188-161		
Cavalier Mk II Estate	09/81->08/88			
1.6 D (🚗16 DA)		4RV 008 188-161		
Cavalier Mk III CC	09/88->11/95			
1.7 D (🚗17 D, 09/88->01/92)		4RV 008 188-161		



Control Units, Glow Plug System

Vauxhall - Volkswagen



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Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Vauxhall				
Cavalier Mk III (87)	09/88->11/95			
1.7 D (17 D, 09/88->01/92)		4RV 008 188-161		
Frontera	03/92->10/98			
2.3 TD (23 DTR, 03/92->01/95)		4RV 008 188-161		
Volkswagen				
Golf I (17)	04/74->12/85			
1.5 D (15 CK)		4RV 008 188-171	from chassis no. 179 3000 001	•
1.6 D (16 CR, JK); 1.6 TD (16 CY)		4RV 008 188-171		•
1.6 D (16 CR, JK, 08/80->07/81)		4RV 008 188-191		
Golf II (19E, 1G1)	08/83->12/92			
1.6 DY(); 1.6 D (16 JP, ME); 1.6 TD (16 JR, MF)		4RV 008 188-171		•
1.6 TD (16 1V); 1.6 TD (16 RA, SB)		4RV 008 188-171		•
		4RV 008 188-181		•
Golf III (1H1)	08/91->09/97			
1.9 D (19 1Y)		4RV 008 188-181		•
Golf III Estate (1H5)	07/93->04/99			
1.9 D (19 1Y)		4RV 008 188-181		•
Jetta I (16)	08/78->02/84			
1.6 D (16 CR, JK); 1.6 TD (16 CY)		4RV 008 188-171		•
Jetta II (19E, 1G2)	01/84->12/92			
1.6 D (16 JP, ME)		4RV 008 188-191		
1.6 TD (16 JR, MF)		4RV 008 188-171		•
1.6 TD (16 1V); 1.6 TD (16 RA, SB)		4RV 008 188-171		•
		4RV 008 188-181		•
Passat (32)	05/73->07/80			
1.5 D (15 CK)		4RV 008 188-171		•
		4RV 008 188-181		•
		4RV 008 188-191		
Passat Estate (33)	05/73->10/81			
1.5 D (15 CK)		4RV 008 188-171		•
		4RV 008 188-181		•
		4RV 008 188-191		
Passat (32B)	08/80->12/88			
1.6 D (16 CR, JK); 1.6 TD (16 CY); 1.6 TD (16 RA)		4RV 008 188-171		•
1.6 D (16 CR, JK, 08/81->07/84)		4RV 008 188-181		•
1.6 TD (16 CY, 04/82->07/84)		4RV 008 188-181		•
		4RV 008 188-191		
Passat Saloon (32B)	08/84->03/88			
1.6 TD (16 CY)		4RV 008 188-171		•
Passat Estate (32B)	08/80->06/89			
1.6 D (16 CR, JK)		4RV 008 188-171		•
1.6 D (16 CR, JK, 08/80->07/84); 1.6 TD (16 CY, 04/82->07/84)		4RV 008 188-181		•
1.6 TD (16 CY)		4RV 008 188-171		•
		4RV 008 188-191		
Passat (3A2, 35I)	02/88->10/96			
1.6 TD (16 RA, SB); 1.9 D (19 1Y)		4RV 008 188-171		•
Passat Estate (3A5, 35I)	02/88->06/97			
1.6 TD (16 RA, SB); 1.9 D (19 1Y)		4RV 008 188-171		•
Polo (86C, 80)	10/81->09/94			
1.3 D (13 MN)		4RV 008 188-171		•
		4RV 008 188-181	from chassis no. 80-K-000 001	•
Polo Classic (86C, 80)	01/85->09/94			
1.3 D (13 MN)		4RV 008 188-171		•
Polo Coupé (86C, 80)	10/81->09/94			
1.3 D (13 MN)		4RV 008 188-171		•
		4RV 008 188-181	from chassis no. 80-K-000 001	•



Control Units, Glow Plug System

Volkswagen - Volvo



Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Volkswagen				
Vento (1H2)	11/91->09/98			
1.9 D (1Y)		4RV 008 188-181		●
Volvo				
240 (P242, P244)	08/74->12/93			
2.4 Diesel (D 24); 2.4 Diesel (D 24, 01/85->07/85)		4RV 008 188-331		●
240 Estate (P245)	08/74->08/93			
2.4 Diesel (D 24); 2.4 Diesel (D 24, 01/85->08/93)		4RV 008 188-331		●
740 Estate (745)	08/84->08/92			
2.4 Turbo-Diesel (D 24 T); 2.4 TD Interc. (D 24 TIC)		4RV 008 188-331		●
760 (704, 764)	08/81->07/92			
2.4 Turbo Diesel (704) (D 24 T); 2.4 Turbo Diesel (704) (D 24 T, 01/85->07/87); 2.4 TD Interc. (704) (D 24 TIC)		4RV 008 188-331		●
760 Estate (704, 765)	01/82->07/92			
2.4 TD Interc. (765) (D 24 TIC)		4RV 008 188-331		●
940 (944)	08/90->12/94			
2.4 D (D 24, 08/90->07/92); 2.4 Turbo Diesel (D 24 T, 08/90->08/93); 2.4 TD Intercooler (D 24 TIC)		4RV 008 188-331		●
940 Estate (945)	08/90->10/95			
2.4 Turbo Diesel (D 24 T)		4RV 008 188-331		●
940 II (944)	08/94->10/98			
2.4 TD Interc. (D 24 TIC)		4RV 008 188-331		●
940 II Estate (945)	08/94->10/98			
2.4 TD Interc. (D 24 TIC)		4RV 008 188-331		●
960 (964)	08/90->07/94			
2.4 TD Interc. (D 24 TIC)		4RV 008 188-331		●
960 Estate (965)	08/90->07/94			
2.4 TD Interc. (D 24 TIC)		4RV 008 188-331		●



Control Units, Glow Plug System

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Control Units, Glow Plug System

Citroën - Fiat



Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Citroën				
Berlingo (MF)	07/96->			
1.9 D (MFDJY) (D9B)		4RV 008 188-301		●
1.9 D (MFDJY) (DJY (XUD9A), D9B (XUD9A/L), 07/96->08/98)		4RV 008 188-321		●
Berlingo Box (M_)	07/96->			
1.8 D (MBA9A, MCA9A) (A9A)		4RV 008 188-301		●
1.9 D (DJY (XUD9A), 07/96->08/98)		4RV 008 188-321		●
C15 (VD-)	10/84->12/05			
1.8 D (161A (XUD7))		4RV 008 188-091		
Jumpy (U6U)	06/94->			
1.9 D (D9B)		4RV 008 188-301		●
C25 Bus (280_, 290_)	07/81->02/94			
1.9 D (D9B (XUD9A/U), 07/87->01/94)		4RV 008 188-091		
2.5 D (CRD93L (U25-661), 10/85->01/87);		4RV 008 188-081		
2.5 D 4x4 (CRD93L (U25-661), 01/87->01/94);				
2.5 D Turbo (CRD93LS (U25-673), 08/87->01/94);				
2.5 D Turbo 4x4 (CRD93LS (U25-673), 08/87->01/94)				
Jumper Bus (230P)	02/94->04/02			
2.5 D (T9A (DJ5)); 2.5 D 4x4 (T9A (DJ5)); 2.5 TD (T8A (DJ5T));		4RV 008 188-321		●
2.5 TD 4x4 (T8A (DJ5T)); 2.5 TDi (THX (DJ5TED))				
Jumper Box (230L)	02/94->04/02			
2.5 D (T9A (DJ5)); 2.5 TD (T8A (DJ5T))		4RV 008 188-321		●
19 D (D9B (XUD9A/U), 02/94->06/95)		4RV 008 188-271	for manuf. exhaust norm US-84, CEE 19-5	
Jumper Flatbed/Chassis (230)	03/94->04/02			
2.5 D (T9A (DJ5)); 2.5 TD (T8A (DJ5T))		4RV 008 188-321		●
Fiat				
Fiorino (147)	01/80->04/88			
1.3 Diesel (127 A5.000, 07/85->12/87); 1.7 Diesel (149 B2.000);		4RV 008 188-111		●
1.7 Diesel (149 B3.000)				
Fiorino Pick up (147)	10/82->12/88			
1.3 D (127 A5.000, 07/85->12/88)		4RV 008 188-111		●
Punto Van (176L)	04/96->02/00			
1.7 D (176 B3.000)		4RV 008 188-291		●
Scudo Combinato (220P)	02/96->			
1.9 D (WJZ (DW8)); 1.9 D (D9B)		4RV 008 188-301		●
Ducato Panorama (280)	07/82->08/90			
2.4 D (8144.61); 2.4 TD (8144.21, 8144.21.220); 2.4 TD 4x4 (8144.21);		4RV 008 188-091		
2.5 D (8144.67, CRD93L (U25-661)); 2.5 D 4x4 (8144.67)				
Ducato Box (280)	01/82->08/90			
2.5 D (8144.67, CRD93L (U25-661)); 2.5 D 4x4 (8144.67)		4RV 008 188-091		
Ducato Flatbed/Chassis (280)	07/82->08/90			
2.4 TD (8144.21); 2.5 D (8144.67, CRD93L (U25-661), 01/86->08/90);		4RV 008 188-091		
2.5 D 4x4 (8144.67)				
Ducato Panorama (290)	01/90->05/94			
2.5 D (8144.67); 2.5 D 4x4 (8144.67); 2.5 TD (8140.27);		4RV 008 188-091		
2.5 TD 4x4 (8140.27)				
Ducato Box (290)	03/89->05/94			
2.5 D 4x4 (8144.67); 2.5 TD (8140.27); 2.5 TD 4x4 (8140.27)		4RV 008 188-091		
Ducato Flatbed/Chassis (290)	03/89->05/94			
2.5 D (8144.67)		4RV 008 188-091		
Ducato Bus (230)	03/94->04/02			
2.5 D Combinato (8140.67)		4RV 008 188-091		
Ducato Box (230L)	03/94->04/02			
2.5 D (8140.67)		4RV 008 188-091		
Ducato Flatbed/Chassis (230)	03/94->04/02			
2.5 D (8140.67)		4RV 008 188-091		



Control Units, Glow Plug System

Ford - Mercedes-Benz



1

Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Ford				
Escort '86 Express (AVF)	02/86->07/90			
1.8 D (RTA, RTB)		4RV 008 188-221		•
Escort '91 Express (AVL)	07/90->12/94			
1.8 D (RTH)		4RV 008 188-221		•
Escort '95 Express (AVL)	01/95->			
1.8 D (RTF, RTH)		4RV 008 188-221		•
Fiesta Box (F3L, F5L)	07/91->02/96			
1.8 D (RTD, RTG, RTC)		4RV 008 188-221		•
Fiesta Box (J5_, J3_)	02/96->			
1.8 D (RTK)		4RV 008 188-211		•
Fiesta Box (JV_)	05/98->			
D 1.8 (RTK, RTJ)		4RV 008 188-211		•
Mercedes-Benz				
100 Bus (631)	02/88->02/96			
D (631.333, 631.343, 631.334, 631.344) (OM 616.963); D (631.333, 631.343, 631.334, 631.344) (OM 616, OM 616.963)		4RV 008 188-051		•
100 Box (631)	02/88->02/96			
D (631.332, 631.342) (OM 616.963)		4RV 008 188-051		•
100 Flatbed/Chassis (631)	02/88->02/96			
D (631.340) (OM 616.963)		4RV 008 188-051		•
Vito Bus (638)	02/96->07/03			
113 2.0 (638.114, 638.194) (M 111.948, M 111.950); 114 2.3 (638.134, 638.194) (M 111.978, M 111.980)		4RV 008 188-051		•
108 D 2.3 (638.164) (OM 601.942); 110 TD 2.3 (638.174) (OM 601.970)		4RV 008 188-051 4RV 008 188-371		• •
Vito Box (638)	03/97->07/03			
113 2.0 (638.014, 638.094) (M 111.948, M 111.950); 114 2.3 (638.034, 638.094) (M 111.978, M 111.980)		4RV 008 188-051		•
108 D 2.3 (638.064) (OM 601.942); 110 D 2.3 (638.074) (OM 601.970)		4RV 008 188-051 4RV 008 188-371		• •
T1 Bus (601)	05/77->02/96			
208 D 2.3 (OM 601.940); 207 D 2.4 (OM 616.937, 939, 07/82->01/89)		4RV 008 188-001		
208 D 2.3 (OM 601.940, 10/88->06/95); 207 D 2.4 (OM 616.937, OM 616.939, 07/82->01/89); 210 D 2.8 (OM 602.940, 11/88->06/95); 209 D 2.9 (OM 617.913, 12/82->01/89)		4RV 008 188-371		•
209 D 2.9 (OM 617.913, 12/82->12/89)		4RV 008 188-021		
209 D 2.9 (OM 617.913, 01/89->01/90)		4RV 008 188-061		•
T1 Box (601)	05/77->02/96			
208 D 2.3 (OM 601.940, 11/88->06/95); 208 D 2.3 (OM 601.940, 10/88->06/95)		4RV 008 188-001 4RV 008 188-371		•
207 D 2.4 (OM 616.937, 939, 09/82->01/89)		4RV 008 188-001		
207 D 2.4 (OM 616.937, OM 616.939, 09/82->01/89); 210 D 2.8 (OM 602.940, 10/88->06/95); 209 D 2.9 (OM 617.913, 12/82->01/89)		4RV 008 188-371		•
209 D 2.9 (OM 617.913, 12/82->12/89)		4RV 008 188-021		
209 D 2.9 (OM 617.913, 01/89->01/90)		4RV 008 188-061		•
T1 Flatbed/Chassis (601)	01/77->02/96			
208 D 2.3 (OM 601.940, 11/88->06/95); 208 D 2.3 (OM 601.940, 06/89->06/95)		4RV 008 188-001 4RV 008 188-371		•
207 D 2.4 (OM 616.937, 939, 09/82->01/89)		4RV 008 188-001		
209 D 2.9 (OM 617.913, 12/82->12/89)		4RV 008 188-021		
209 D 2.9 (OM 617.913, 01/89->01/90)		4RV 008 188-061		•
207 D 2.4 (OM 616.937, OM 616.939, 09/82->01/89); 210 D 2.9 (OM 602.940, 11/88->06/95);		4RV 008 188-371		•
210 D 2.8 (OM 602.940, 11/88->06/95); 209 D 2.9 (OM 617.913, 12/82->01/89)				
T1 Bus (602)	04/77->02/96			
308 D 2.3 (OM 601.940, 05/90->06/95); 308 D 2.3 (OM 601.940, 06/89->06/95); 310 D 2.9 (OM 602.940, 06/89->06/95); 310 D 2.9 (OM 602.940, 06/90->06/95)		4RV 008 188-371		•



Control Units, Glow Plug System

Mercedes-Benz - Peugeot



Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Mercedes-Benz				
T1 Box (602)		10/82->02/96		
308 D 2.3 (OM 601.940, 11/88->06/95); 308 D 2.3 (OM 601.940, 06/89->06/95); 310 D 2.9 (OM 602.940, 06/89->06/95) 307 D 2.4 (OM 616.937, OM 616.939, 10/82->01/89)		4RV 008 188-371		•
		4RV 008 188-001		
		4RV 008 188-371		•
309 D 3.0 (OM 617.913, 10/82->01/89)		4RV 008 188-021		
		4RV 008 188-371		•
309 D 3.0 (OM 617.913, 01/89->01/90)		4RV 008 188-061		•
T1 Flatbed/Chassis (602)		04/77->02/96		
307 D 2.4 (OM 616.937, OM 616.939, 06/82->01/89)		4RV 008 188-001		
307 D 2.4 (OM 616.937, OM 616.939, 09/82->01/89); 308 D 2.3 (OM 601.940, 06/89->06/95); 310 D 2.9 (OM 602.940, 06/89->06/95) 309 D 3.0 (OM 617.913, 10/82->01/89)		4RV 008 188-371		•
		4RV 008 188-021		
		4RV 008 188-371		•
309 D 3.0 (OM 617.913, 01/89->01/90)		4RV 008 188-061		•
Sprinter 2-t Bus (901, 902)		01/95->05/06		
210 D (OM 602.980)		4RV 008 188-371		•
Sprinter 2-t Box (901, 902)		01/95->05/06		
210 D (OM 602.980)		4RV 008 188-371		•
Sprinter 2-t Flatbed/Chassis (901, 902)		01/95->05/06		
210 D (OM 602.980)		4RV 008 188-371		•
Sprinter 3-t Bus (903)		01/95->05/06		
308 D (OM 601.943); 310 D 4x4 (OM 602.980)		4RV 008 188-371		•
Sprinter 3-t Box (903)		01/95->05/06		
308 D 2.3 (OM 601.943); 308 D 2.3Y(); 310 D 2.9 (OM 602.980)		4RV 008 188-371		•
Sprinter 3-t Flatbed/Chassis (903)		01/95->05/06		
308 D 2.3 (OM 601.943); 308 D 2.3Y(); 310 D 2.9 (OM 602.980)		4RV 008 188-371		•
T2/LN1		03/86->12/94		
507 D (OM 616.914); 507 DK (OM 616.914)		4RV 008 188-001		
		4RV 008 188-371		•
508 D (OM 601.941)		4RV 008 188-371		•
Opel				
Kadett E Box (37_, 47_)		08/84->09/92		
1.6 D (16 D, 16 DA); 1.7 D (17 D)		4RV 008 188-161		
Kadett E Combo (38_, 48_)		01/86->07/94		
1.6 D (16 DA, 01/86->01/89); 1.7 D (17 D)		4RV 008 188-161		
Arena Combi (THB)		03/98->08/01		
2.5 D (S8U 758, S8U 780, S8U 782)		4RV 008 188-201		•
Arena Box (TB, TF)		03/98->08/01		
2.5 D (S8U 758, S8U 780, S8U 782)		4RV 008 188-201		•
Movano Combi (J9)		07/98->		
2.5 D (S8U 770, 07/98->09/00)		4RV 008 188-201		•
Movano Box (F9)		01/99->		
2.5 D (S8U 770, 01/99->09/00)		4RV 008 188-201		•
Movano Dumptruck (H9)		01/99->		
2.5 D (S8U 770, 01/99->09/00)		4RV 008 188-201		•
Movano Flatbed/Chassis (U9, E9)		07/98->		
2.5 D (S8U 770, 07/98->09/00)		4RV 008 188-201		•
Peugeot				
Partner Combispac (5F)		05/96->		
1.9 D (XUD9A)		4RV 008 188-301		•
1.9 D (DJY (XUD9A), 06/96->08/98)		4RV 008 188-321		•



Control Units, Glow Plug System

Peugeot - Renault



1

Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Peugeot				
Partner Box (5)	04/96->			
1.9 D (🚗 XUD9A)		4RV 008 188-301		●
1.9 D (🚗 DJY (XUD9A), 06/96->08/98)		4RV 008 188-321		●
Boxer Bus (230P)	03/94->04/02			
1.9 D (🚗 XUD9D)		4RV 008 188-301		●
1.9 D (🚗 D8C (XUD9AU), 03/94->01/95)		4RV 008 188-271	for manuf. exhaust norm US-84	
2.5 D (🚗 T9A (DJ5)); 2.5 D 4x4 (🚗 T9A (DJ5)); 2.5 TD (🚗 T8A (DJ5T)); 2.5 TD 4x4 (🚗 T8A (DJ5T))		4RV 008 188-321		●
Boxer Box (230L)	03/94->04/02			
1.9 D (🚗 XU9D, 07/95->04/02)		4RV 008 188-301		●
1.9 D (🚗 D8C (XUD9AU), 03/94->01/95)		4RV 008 188-271	for manuf. exhaust norm US-84	
2.5 D (🚗 T9A (DJ5)); 2.5 TD (🚗 T8A (DJ5T))		4RV 008 188-321		●
2.5 D (🚗 T9A (DJ5)); 2.5 TD (🚗 T8A (DJ5T))		4RV 008 188-271	for manuf. exhaust norm US-84	
Boxer Flatbed/Chassis (ZCT_)	03/94->04/02			
2.5 D (🚗 T9A (DJ5)); 2.5 TD (🚗 T8A (DJ5T))		4RV 008 188-321		●
J5 Bus (280P)	09/81->09/90			
2.5 D (🚗 CRD93 (U25/661))		4RV 008 188-081		
J5 Flatbed/Chassis (280L)	09/81->09/90			
2.5 D (🚗 CRD93 (U25/661))		4RV 008 188-081		
J5 Bus (290P)	09/90->03/94			
2.5 D (🚗 CRD93 (U25/661), 10/90->06/91); 2.5 D 4x4 (🚗 CRD93 (U25/661), 10/90->06/91); 2.5 TD (🚗 CRD93LS (U25/673), 10/90->06/91); 2.5 TD 4x4 (🚗 CRD93LS (U25/673), 10/90->06/91)		4RV 008 188-081		
1.9 D (🚗 D9B (XUD9A), 10/90->01/94); 2.5 D (🚗 CRD93 (U25/661), 07/91->); 2.5 D 4x4 (🚗 CRD93 (U25/661), 07/91->); 2.5 TD (🚗 CRD93LS (U25/673), 07/91->); 2.5 TD 4x4 (🚗 CRD93LS (U25/673), 07/91->)		4RV 008 188-091		
J5 Box (290L)	09/90->03/94			
2.5 D 4x4 (🚗 CRD93 (U25/661), 10/90->06/91); 2.5 TD 4x4 (🚗 CRD93LS (U25/673), 10/90->06/91)		4RV 008 188-081		
1.9 D (🚗 D9B (XUD9A), 10/90->01/94); 2.5 D 4x4 (🚗 CRD93 (U25/661), 07/91->); 2.5 TD 4x4 (🚗 CRD93LS (U25/673), 07/91->)		4RV 008 188-091		
J5 Flatbed/Chassis (290L)	09/90->03/94			
2.5 D (🚗 CRD93 (U25/661), 10/90->06/91); 2.5 D 4x4 (🚗 CRD93 (U25/661), 10/90->06/91); 2.5 TD (🚗 CRD93LS (U25/673), 10/90->06/91); 2.5 TD 4x4 (🚗 CRD93LS (U25/673), 10/90->06/91)		4RV 008 188-081		
1.9 D (🚗 D9B (XUD9A), 10/90->01/94); 2.5 D (🚗 CRD93 (U25/661), 07/91->); 2.5 D 4x4 (🚗 CRD93 (U25/661), 07/91->); 2.5 TD (🚗 CRD93LS (U25/673), 07/91->); 2.5 TD 4x4 (🚗 CRD93LS (U25/673), 07/91->)		4RV 008 188-091		
Renault				
Rapid Box (F40_, G40_)	07/85->11/98			
1.0 (🚗 F8Q 774); 1.6 D (F404) (🚗 F8M 720, F8M 730, F8M 736, F8M 760)		4RV 008 188-101		
Super 5 Box (S40_)	10/84->12/96			
1.6 D (S404) (🚗 F8M 720)		4RV 008 188-101		
18 Box	05/79->07/86			
2.1 Diesel (🚗 852 710, J8S 711)		4RV 008 188-101		
21 Box (S48_)	06/86->08/94			
1.9 D (🚗 F8Q 710)		4RV 008 188-101		
Trafic Bus (T5, T6, T7)	03/80->04/89			
2.1 D (🚗 852 750, 03/89->04/89)		4RV 008 188-101		
Trafic Box (T1, T3, T4)	03/80->04/89			
2.1 D (🚗 852 750); 2.1 D 4x4 (🚗 852 750, 03/89->04/89)		4RV 008 188-101		
Trafic Flatbed/Chassis (P6)	03/80->04/89			
2.1 D (🚗 852 720, 03/89->04/89)		4RV 008 188-101		
2.5 D (🚗 S8U 720, S8U 722, 8140.61.240)		4RV 008 188-201		●



Control Units, Glow Plug System

Renault - Volkswagen



Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Renault				
Traffic Bus (TXW)		03/89->03/01		
2.1 D (852 720, 852 750);		4RV 008 188-101		
2.5 D (S8U 750, S8U 752, S8U 758, 8140.67.2500, 8140.67.2550, 8140.67.2580)				
2.5 D (8140.67.2500/2550/2580, S8U 750, S8U 752, S8U 758, 05/89->03/01)		4RV 008 188-201		•
2.5 D 4x4 (8140.67.2500/2550/2580, S8U 750, S8U 752, S8U 758, 05/89->03/01)		4RV 008 188-201		•
Traffic Box (TXX)		05/89->03/01		
2.1 D (852 750);		4RV 008 188-101		
2.5 D (S8U 750, S8U 752, S8U 758, 8140.67.2500, 8140.67.2580, 8140.67.2550); 2.5 D 4x4 (S8U 750, S8U 752, 8140.67.2500, 8140.67.2580)				
Traffic Flatbed/Chassis (PXX)		03/89->03/01		
2.1 D [RWD] (852 720)		4RV 008 188-101		
2.5 D (8140.67.240, S8U 720, S8U 722, 05/89->03/01)		4RV 008 188-201		•
Master I Bus (T__)		08/80->07/98		
28-35 2.1 D (J8S 330, 01/81->07/98); 28-35 2.4 D (8140.61.2300, S8U 731)		4RV 008 188-101		
Master I Box (T__)		07/80->07/98		
28-35 2.1 D (J8S 330, 01/81->07/98); 28-35 2.4 D (8140.61.2300, S8U 731);		4RV 008 188-101		
28-35 2.5 D (S8U 742, 8140.67.2510)				
Master I Flatbed/Chassis (P__)		07/80->07/98		
28-35 2.5 D (8140.61.2300, S8U 731)		4RV 008 188-101		
Master II Bus (JD/ND)		03/98->		
2.5 D (S8U 770, 07/98->01/01)		4RV 008 188-201		•
Master II Box (FD)		07/98->		
2.5 D (S8U 770, 07/98->01/01)		4RV 008 188-201		•
Master II Flatbed/Chassis (ED/HD/DU)		07/98->		
2.5 D (S8U 770, 07/98->01/01)		4RV 008 188-201		•
Vauxhall				
Arena Combi		03/98->08/01		
2.5 D (S8U 758, S8U 780, S8U 782)		4RV 008 188-201		•
Arena Van		03/98->08/01		
2.5 D (S8U 758, S8U 780, S8U 782)		4RV 008 188-201		•
Movano Mk I (A) Van (FD)		10/98->		
2.5 D (S8U 770, 10/98->09/0)		4RV 008 188-201		•
Movano Mk I (A) Chassis/Cab (ED, DU, HD)		10/98->		
2.5 D (S8U 770, 10/98->09/0)				
Movano Mk I (A) Combi (JD)		10/98->		
2.5 D (S8U 770, 10/98->09/00)		4RV 008 188-201		•
Volkswagen				
Caddy I (14)		08/82->07/92		
1.6 D (JK, ME)		4RV 008 188-171		•
		4RV 008 188-181	from chassis no. 1A-ZN000 343	•
LT 28-35 I Bus (281-363)		04/75->06/96		
2.4 D (CP, DW)		4RV 008 188-171		•
		4RV 008 188-171	from chassis no. 28-B-000 001	•
		4RV 008 188-181	from chassis no. 28-L-000 001	•
2.4 D (ACT, 1S); 2.4 TD (1G); 2.4 TD (ACL)		4RV 008 188-171		•
		4RV 008 188-181	from chassis no. 28-L-000 001	•
2.4 TD (DV)		4RV 008 188-171		•
LT 28-35 I Box (281-363)		04/75->06/96		
2.4 D (CP, DW)		4RV 008 188-171		•
		4RV 008 188-171	from chassis no. 28-B-000 001	•
		4RV 008 188-181	from chassis no. 28-L-000 001	•
2.4 D (1S, ACT); 2.4 TD (1G); 2.4 TD (ACL); 2.4 TD Syncro (ACL);		4RV 008 188-171		•
2.4 TD (DV)		4RV 008 188-181	from chassis no. 28-L-000 001	•



Control Units, Glow Plug System

Volkswagen



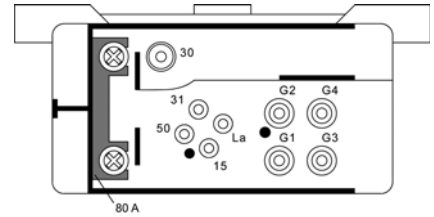
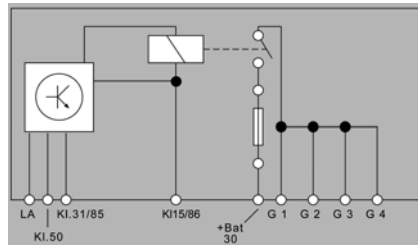
1

Manufacturer Model Vehicle type	Model year	Part no.	Note	after- glow capable
Volkswagen				
LT 28-35 I Flatbed/Chassis (281-363)		04/75->06/96		
2.4 D (1.9 CP, DW)		4RV 008 188-171		●
		4RV 008 188-171	from chassis no. 28-B-000 001	●
		4RV 008 188-181	from chassis no. 28-L-000 001	●
2.4 D (1.9 1S, ACT); 2.4 D Syncro (1.9 1S); 2.4 D Syncro (1.9 DW); 2.4 TD (1.9 1G);		4RV 008 188-171		●
2.4 TD Syncro (1.9 1G); 2.4 TD (1.9 ACL); 2.4 TD Syncro (1.9 ACL); 2.4 TD (1.9 DV);		4RV 008 188-181	from chassis no. 28-L-000 001	●
2.4 TD Syncro (1.9 DV)				
LT 40-55 I Box (291-512)		04/75->06/96		
2.4 D (1.9 CP, DW)		4RV 008 188-171		●
		4RV 008 188-171	from chassis no. 28-B-000 001	●
		4RV 008 188-181	from chassis no. 28-L-000 001	●
2.4 D (1.9 1S, ACT); 2.4 TD (1.9 1G); 2.4 TD (1.9 ACL); 2.4 TD Syncro (1.9 ACL);		4RV 008 188-171		●
2.4 TD (1.9 DV)		4RV 008 188-181	from chassis no. 28-L-000 001	●
2.4 TD 4WD (1.9 DV)		4RV 008 188-171		●
LT 40-55 I Flatbed/Chassis (293-909)		04/75->06/96		
2.4 D (1.9 1S, ACT); 2.4 TD (1.9 1G); 2.4 TD Syncro (1.9 1G); 2.4 TD (1.9 ACL);		4RV 008 188-171		●
2.4 TD Syncro (1.9 ACL); 2.4 TD (1.9 DV); 2.4 TD Syncro (1.9 DV)		4RV 008 188-181	from chassis no. 28-L-000 001	●
2.4 D (1.9 CP, DW)		4RV 008 188-171		●
		4RV 008 188-171	from chassis no. 28-B-000 001	●
		4RV 008 188-181	from chassis no. 28-L-000 001	●
Transporter III Bus		05/79->07/92		
1.6 D (1.6 CS); 1.6 TD (1.6 JX); 1.6 TD Syncro (1.6 JX); 1.7 D (1.7 KY)		4RV 008 188-171		●
Transporter III Box		05/79->12/92		
1.6 D (1.6 CS); 1.6 TD (1.6 JX); 1.6 TD Syncro (1.6 JX); 1.7 D (1.7 KY)		4RV 008 188-171		●
Transporter III Flatbed/Chassis		05/79->12/92		
1.6 D (1.6 CS); 1.6 TD (1.6 -); 1.6 TD (1.6 JX); 1.6 TD Syncro (1.6 JX); 1.7 D (1.7 KY)		4RV 008 188-171		●
Transporter IV Bus (70XB, 70XC, 7DB, 7DW)		09/90->04/03		
1.9 D (1.9 1X); 2.4 D (1.9 AAB)		4RV 008 188-171		●
		4RV 008 188-181	from chassis no. 70-N-100 001	●
2.4 D (1.9 AJA)		4RV 008 188-181	code 102	●
2.4 D Syncro (1.9 AAB)		4RV 008 188-181	from chassis no. 70-N-100 001	●
Transporter IV Box (70XA)		07/90->04/03		
1.9 D (1.9 1X); 2.4 D (1.9 AAB)		4RV 008 188-171		●
		4RV 008 188-181	from chassis no. 70-N-100 001	●
2.4 D (1.9 AJA)		4RV 008 188-181	code 102	●
2.4 D Syncro (1.9 AAB)		4RV 008 188-181	from chassis no. 70-N-100 001	●
Transporter IV Flatbed/Chassis (70XD)		07/90->04/03		
1.9 D (1.9 1X); 2.4 D (1.9 AAB)		4RV 008 188-171		●
		4RV 008 188-181	from chassis no. 70-N-100 001	●
2.4 D (1.9 AJA)		4RV 008 188-181	code 102	●
2.4 D Syncro (1.9 AAB)		4RV 008 188-181	from chassis no. 70-N-100 001	●

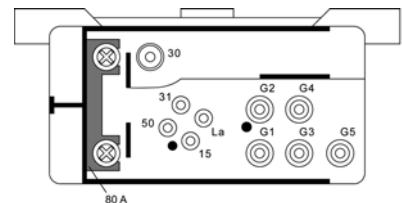
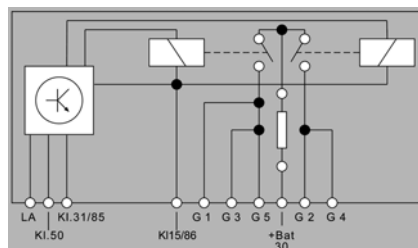
Part no.	Preheating time in sec. at + 20 °C	Post-heating time		Temperature measurement		Features
		with	without	intern	extern	
4RV 008 188-001	< 9		•	•		with fault detection
4RV 008 188-021	< 9		•	•		with fault detection
4RV 008 188-031	< 9		•	•		with fault detection
4RV 008 188-041	< 9	•			•	with fault detection
4RV 008 188-051	< 9	•			•	with fault detection
4RV 008 188-061	< 9	•			•	with fault detection
4RV 008 188-071	< 9	•			•	with fault detection
4RV 008 188-081	< 14		•	•		
4RV 008 188-091	< 8		•	•		
4RV 008 188-101	< 9		•	•		
4RV 008 188-111	< 7	•		•		
4RV 008 188-161	< 8		•	•		
4RV 008 188-171	< 8	•			•	
4RV 008 188-181	< 7	•			•	
4RV 008 188-191	< 9		•		•	
4RV 008 188-201	< 13	•				
4RV 008 188-211	< 8	•		•		
4RV 008 188-221	< 6	•		•		
4RV 008 188-271	< 10		•	•		
4RV 008 188-281	< 7	•		•		with post-heating interruption, clocked post-heating time
4RV 008 188-291	< 9	•			•	
4RV 008 188-301	< 8	•			•	
4RV 008 188-321	< 8	•			•	with post-heating interruption
4RV 008 188-331	< 12	•			•	
4RV 008 188-371	< 7	•		•		

Connecting- and clamping descriptions

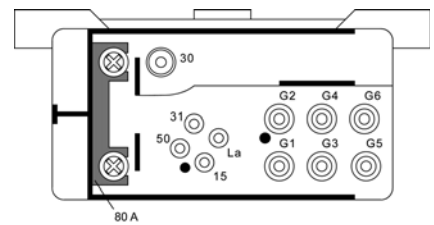
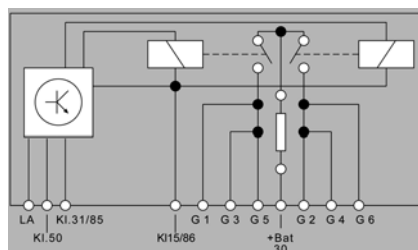
Terminal		Description
15		Ignition plus
30	B +	Battery plus
31		Earth
50		Starter control
85	31	Output (earth)
86	15	Winding start
87		Relay contact in the case of normally closed and change-over / input
G1	G1 - G6	Output glow plugs
T		Time



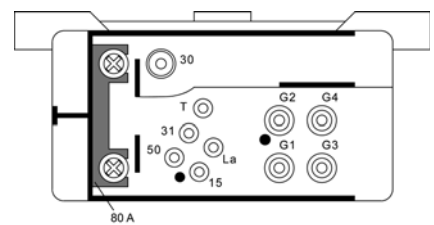
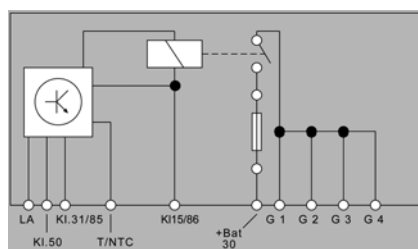
12 V, no. of poles 10, preheating time at +20°C / < 9 sec
4RV 008 188-001 Mercedes-Benz



12 V, no. of poles 11, preheating time at +20°C / < 9 sec
4RV 008 188-021 Mercedes-Benz

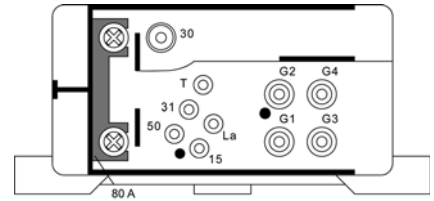
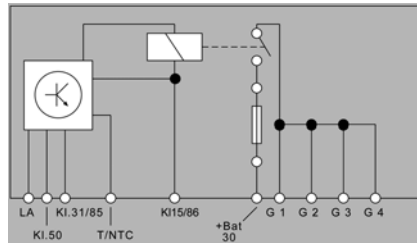


12 V, no. of poles 12, preheating time at +20°C / < 9 sec
4RV 008 188-031 Mercedes-Benz

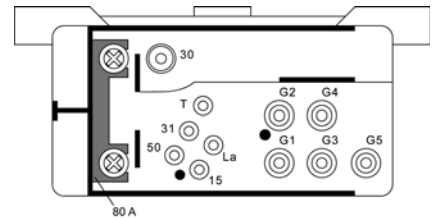
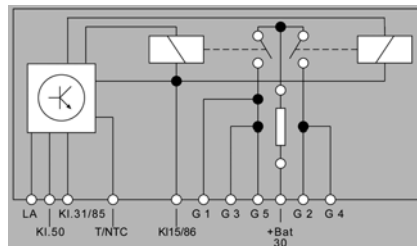


12 V, no. of poles 10, after-glow capable, preheating time at +20°C / < 9 sec
4RV 008 188-041 Mercedes-Benz

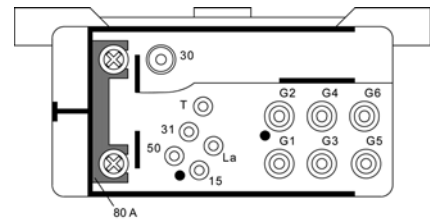
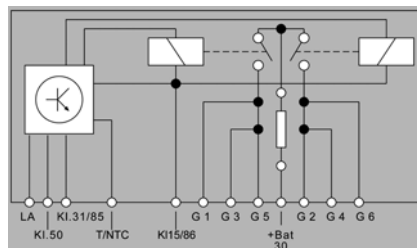
Control Units, Glow Plug System



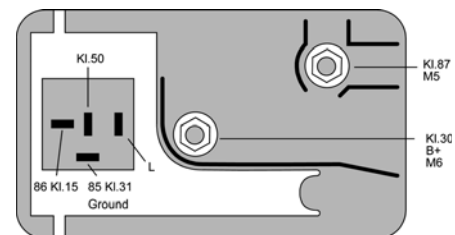
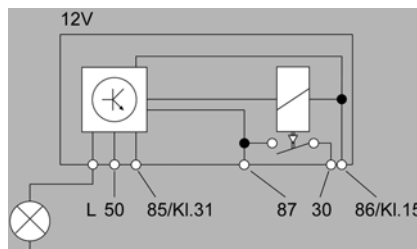
12 V, no. of poles 10, after-glow capable, preheating time at +20°C / < 9 sec
4RV 008 188-051 Mercedes-Benz



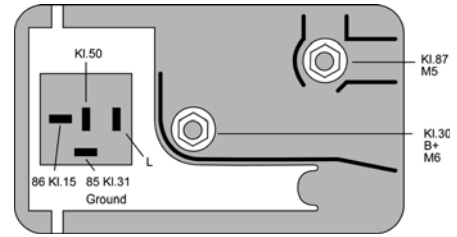
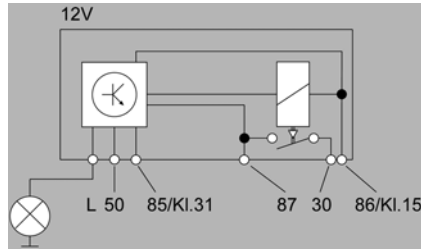
12 V, no. of poles 11, after-glow capable, preheating time at +20°C / < 9 sec
4RV 008 188-061 Mercedes-Benz



12 V, no. of poles 12, after-glow capable, preheating time at +20°C / < 9 sec
4RV 008 188-071 Mercedes-Benz, Puch

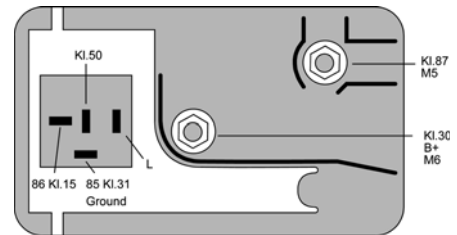
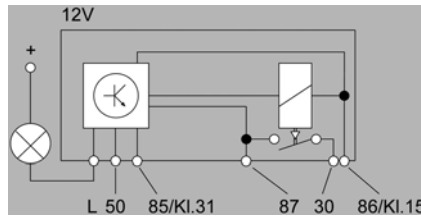


12 V, no. of poles 6, preheating time at +20°C / < 14 sec
4RV 008 188-081 Citroën, Peugeot, Renault



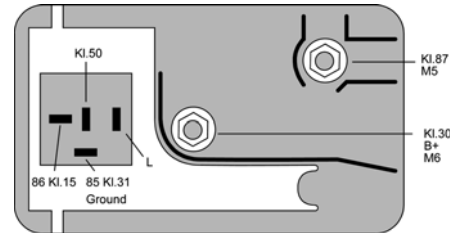
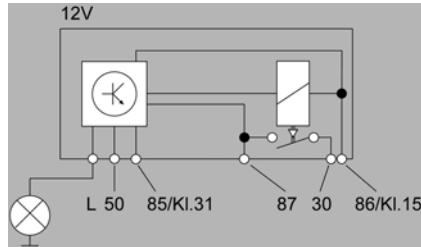
12 V, no. of poles 6, preheating time at +20°C / < 8 sec

4RV 008 188-091 Citroën, Fiat, Peugeot, Renault, Seat, Talbot



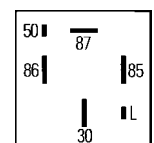
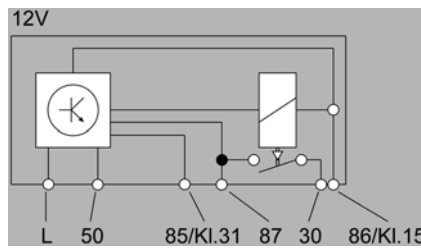
12 V, no. of poles 6, preheating time at +20°C / < 9 sec

4RV 008 188-101 Alfa Romeo, Renault



12 V, no. of poles 6, after-glow capable, preheating time at +20°C / < 7 sec

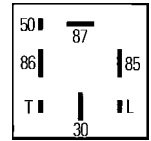
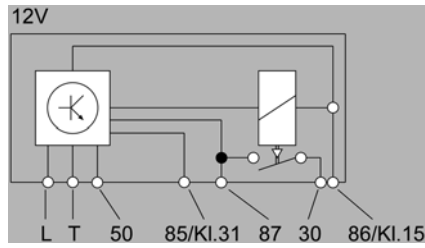
4RV 008 188-111 Fiat



12 V, no. of poles 6, preheating time at +20°C / < 8 sec

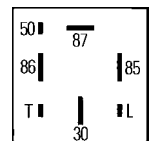
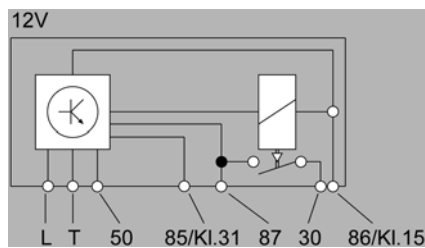
4RV 008 188-161 Ford, Opel, Vauxhall

Control Units, Glow Plug System



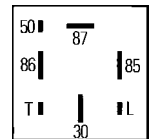
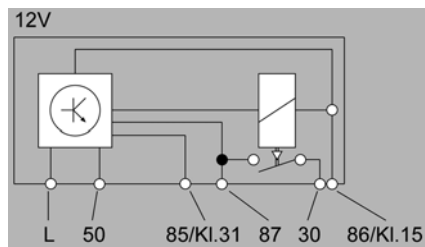
12 V, no. of poles 7, after-glow capable, preheating time at +20°C / < 8 sec

4RV 008 188-171 Audi, Volkswagen



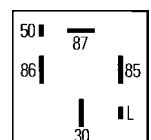
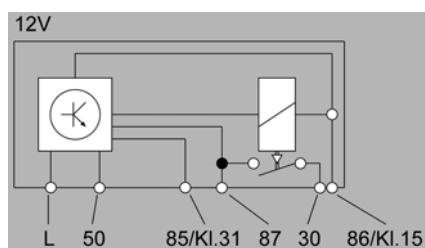
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4RV 008 188-181 Audi, Seat, Volkswagen



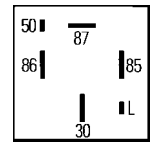
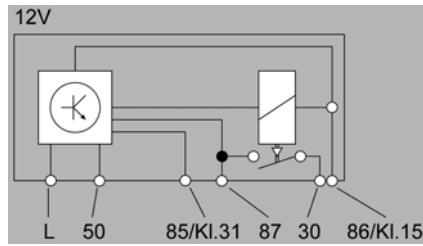
12 V, no. of poles 7, preheating time at +20°C / < 9 sec

4RV 008 188-191 Volkswagen



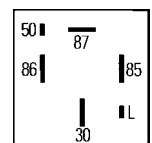
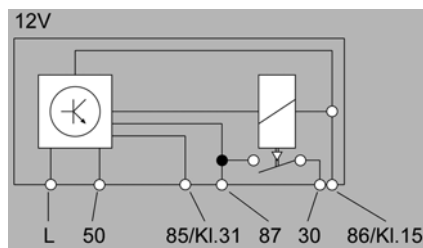
12 V, no. of poles 6, after-glow capable, preheating time at +20°C / < 13 sec

4RV 008 188-201 Opel, Renault, Vauxhall



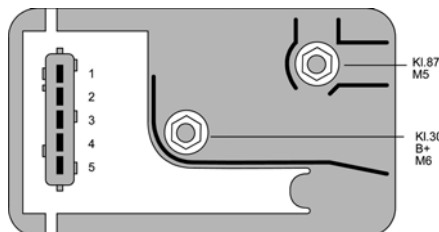
12 V, no. of poles 6, after-glow capable, preheating time at +20°C / < 8 sec

4RV 008 188-211 Ford



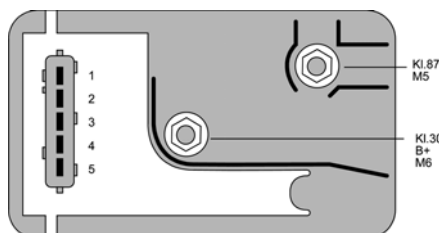
12 V, no. of poles 6, after-glow capable, preheating time at +20°C / < 6 sec.

4RV 008 188-221 Ford



12 V, no. of poles 7, preheating time at +20°C / < 10 sec

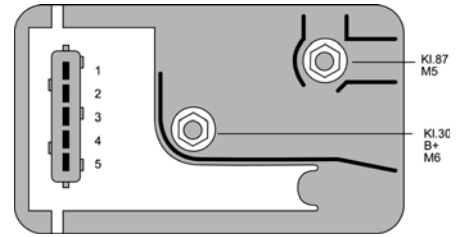
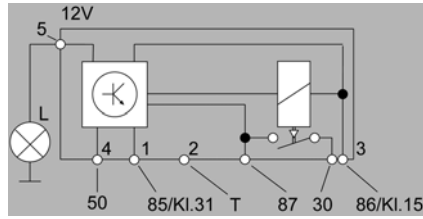
4RV 008 188-271 Citroën, Peugeot



12 V, no. of poles 7, after-glow capable, preheating time at +20°C / < 7 sec;
Terminal S = postheating cut-out

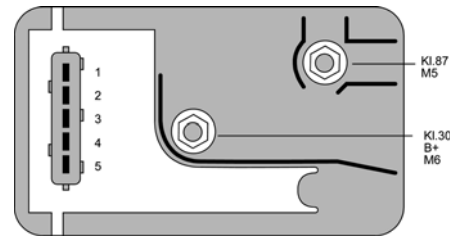
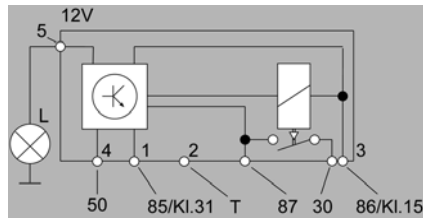
4RV 008 188-281 Citroën, Fiat, Peugeot

Control Units, Glow Plug System



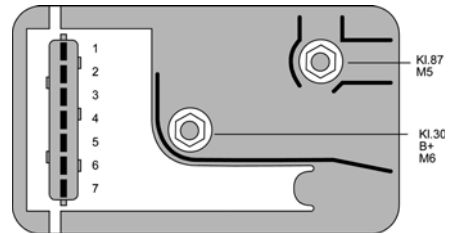
12 V, no. of poles 6, after-glow capable, preheating time at +20°C / < 9 sec

4RV 008 188-291 Citroën, Fiat



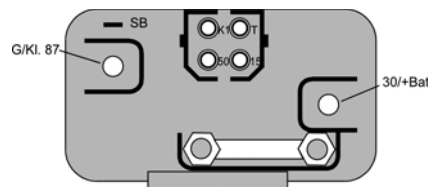
12 V, no. of poles 6, after-glow capable, preheating time at +20°C / < 8 sec

4RV 008 188-301 Citroën, Fiat, Peugeot



12 V, no. of poles 9, after-glow capable, preheating time at +20°C / < 8 sec;
Terminal S = postheating cut-out

4RV 008 188-321 Citroën, Peugeot



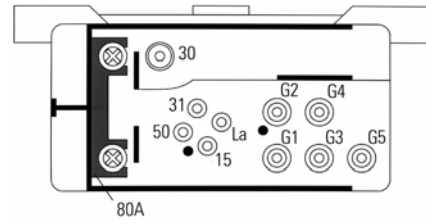
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4RV 008 188-331 Volvo



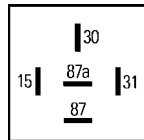
Control Units, Glow Plug System

1



12 V, no. of poles 10, after-glow capable, preheating time at +20°C / < 7 sec

4RV 008 188-371 Mercedes-Benz, Ssangyong



Time control units

For a wide range of technical applications it is necessary to switch loads on or off after a delay.

Applications for time control units with release delay:

- Headlamp cleaning
- Rear window heating
- Fan blower overrun
- Timer etc.

Applications for time control units with response delay:

- Air conditioning compressor
- Motor switch-on delay
- Bus doors etc.

Delay can be set manually.

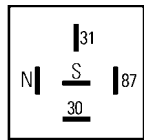
Delay time: 0 - 900 sec.

Holder included in the scope of supply.

Type approval according to directive 95/54/EG (e1).

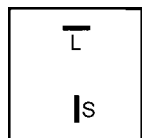
Temperature resistance: -25 °C to +80 °C.

Part no.	Pk.	
5HE 996 152-131	1	Time control unit 12V, 5-pole, release delay
5HE 996 152-091	1	12V, 5-pole, release delay, delay time: 1.5 sec.
5HE 996 152-141	1	24V, 5-pole, release delay
5HE 996 152-151	1	12V, 5-pole, response delay
5HE 996 152-161	1	24V, 5-pole, response delay
5HE 996 152-127	200	24V, 5-pole, response delay, delay time: 0.9 sec.
5HE 996 152-177	200	24V, 5-pole, response delay, delay time: 5 sec +/- 0.5 sec



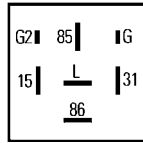
Time control unit-cut off

Part no.	Pk.	
5HE 006 207-027	100	Time control unit 12V, 5-pole



Time control unit-oil-pressure warning

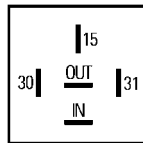
Part no.	Pk.	
5HE 003 724-027	250	Time control unit 12V, 2-pole



Light warning control unit

Ford, Seat, Volkswagen

Part no.	Pk.	
5SA 005 017-031	1	Light warning control unit 12V, 7-pole



LED-Indicator-control unit

Only for use with Hella LED-indicators.

Part no.	Pk.	
5DS 009 602-001	1	LED-Indicator-control unit 24V, 5-pole



Light switch modules

Mercedes-Benz
CLK 200 - CLK 430 (CLK-series, C 208) 06/97->
E 200 - E 430 (E-series, W 210) 06/95->

Part no.	Pk.	
6ME 007 329-231	1	Light switch modules European version
6ME 007 329-251	1	With daytime running light for Scandinavia



Headlight Levelling Actuators

Audi - Renault



Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Audi				Audi			
A2 (8Z0)	02/00->	6NM 007 878-041	1	80 (8C, B4)	09/91->01/96	6NM 007 282-211	1
A3 (8L1)	09/96->08/00	6NM 007 878-531	1	100 (4A, C4)	12/90->06/94	6NM 007 282-211	1
A3 (8L1)	08/00->04/03	6NM 007 878-541	1	BMW			
A4, S4, quattro (8D2, B5) from chassis no. 8D-X-200 001	99->11/00	6NM 007 878-041 for halogen headlight	1	3 (E36)	09/90->08/00	6NM 004 375-311	1
A4, S4, quattro (8D2, B5) Chassis no. 8D-X-200 001 -> 8D-1-200 000	99->11/00	6NM 007 878-041 for xenon headlight	1	5 (E34)	09/88->01/97	6NM 004 375-311	1
A4 Avant, S4, quattro (8D5, B5) from chassis no. 8D-X-200 001	99->09/01	6NM 007 878-041 for halogen headlight	1	7 (E32)	09/88->09/94	6NM 004 375-311	1
A4 Avant, S4, quattro (8D5, B5) Chassis no. 8D-X-200 001 -> 8D-1-200 000	99->09/01	6NM 007 878-041 for xenon headlight	1	Chrysler			
A4, S4, quattro (8E2, B6) up to chassis no. 8E-5-400 000	11/00->05	6NM 007 878-041 for halogen headlight	1	PT Cruiser	06/00->	6NM 007 878-351	1
A4 Avant, S4, quattro (8E5, B6) up to chassis no. 8E-5-400 000	09/01->05	6NM 007 878-041 for halogen headlight	1	Fiat			
A6 (4A, C4)	06/94->12/97	6NM 007 282-211	1	Punto (176)	09/93->09/99	6NM 007 282-661	1
A6 (4B, C5) (-) 8-Zyl., (-) Allroad	01/97->05/01	6NM 007 878-531	1	Opel			
A6 (4B, C5) (-) Allroad	05/01->03	6NM 007 878-521 for halogen headlight	1	Astra G	02/98->	6NM 007 878-351	1
A8 (D2) from chassis no. 4D-X-005 001	99->03	6NM 007 878-531 for xenon headlight	1	Omega B	03/94->07/03	6NM 007 282-641 for halogen headlight	1
Convertible (B4)	05/91->08/00	6NM 007 282-211	1	Renault			
Coupé (89, 8B)	09/91->12/96	6NM 007 282-211	1	Avantime (DE0)	09/01->05/03	6NM 007 878-501 for halogen headlight	1
Q7	03/06->	6NM 007 878-041 for halogen headlight	1	Clio II (B/C/B0/1_)	09/98->11/04	6NM 007 878-501	1
				Espace III (JE_)	11/96->10/02	6NM 007 878-501 for halogen headlight	1
				Espace IV (JK0_)	11/02->04/06	6NM 007 878-501 for halogen headlight	1
				Grand Scénic	04/04->07/06	6NM 007 878-501 for halogen headlight	1
				Kangoo (FC0/1_, KC0/1_)	03/98->	6NM 007 878-501	1
				Laguna (B56_, 556_, K56_)	05/98->03/01	6NM 007 878-501	1



Headlight Levelling Actuators

Renault - Volkswagen



1

Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Renault				Seat			
Laguna II (BG0/1_, KG0/1_) 03/01->		6NM 007 878-501 for halogen headlight	1	Ibiza III (6K1) from chassis no. 6K-X-400 000	08/99->02/02	6NM 007 878-041	1
Mégane Hatchb. (BA0/1_) 01/96->		6NM 007 878-501	1	Ibiza IV (6L1)	02/02->	6NM 007 878-041 for halogen headlight	1
Mégane Convert. (EA0/1_) 10/96->							
Mégane Coach (DA0/1_) 03/96->							
Mégane Classic (LA0/1_) 09/96->							
Mégane Scenic (JA0/1_) 01/97->09/99							
Safrane I (B64_) 04/92->07/96		6NM 007 878-501 for halogen headlight	1	Leon (1M1)	11/99->04	6NM 007 878-041	1
Safrane II (B64_) 07/96->12/00		6NM 007 878-501 for halogen headlight	1	Toledo II (1M2)	04/99->	6NM 007 878-041	1
Scénic (JA0/1_) 09/99->		6NM 007 878-501	1	Skoda			
Scénic II (JM0/1_) 06/03->07/06		6NM 007 878-501 for halogen headlight	1	Fabia (6Y)	08/99->03/08	6NM 007 878-521	1
Thalia 08/00->		6NM 007 878-501	1	Octavia (1U2/1U5) from chassis no. 1U-Y-375 001	01/00->08/00	6NM 007 878-531	1
Twingo (C06_, C06_) 03/93->		6NM 007 878-501	1	Superb (3U4)	02/02->	6NM 007 878-041 for halogen headlight	1
Vel Satis (BJ0) 06/02->		6NM 007 878-501 for halogen headlight	1	Vauxhall			
19 II Hatchback 16V (B/C53_) 04/92->12/95		6NM 007 878-501	1	Astra Mk IV	02/98->	6NM 007 878-351	1
19 II Chamade 16V (L53) 04/92->12/95							
19 II Convertible 16V (D53_, 853_) 04/92->06/96							
Seat				Omega	03/94->07/03	6NM 007 282-641 for halogen headlight	1
Arosa (6H) 05/97->06/04		6NM 007 878-041 for halogen headlight	1	Volkswagen			
Cordoba (6K2) from chassis no. 6K-X-400 000	06/99->10/02	6NM 007 878-041	1	Bora (1J2, 1J6)	10/98->07/05	6NM 007 878-041	1
Cordoba Vario (6K5) from chassis no. 6K-X-400 000	06/99->12/02	6NM 007 878-041	1	Golf III (1H1, 1H5, 1E7)	08/91->04/99	6NM 007 282-211	1
Cordoba (6L2) 10/02->		6NM 007 878-041 for halogen headlight	1	Golf III Convertible (1E7)	07/93->05/98	6NM 007 282-211	1
				Golf III Convertible (1E7)	06/98->06/02	6NM 007 878-041	1
				Golf IV (1J1, 1J5)	08/97->06/06	6NM 007 878-041 for H7/H1 headlight	1
				Lupo (6X1, 6E1)	09/98->07/05	6NM 007 878-041 for xenon headlight	1
				Passat (3A2, 3A5, 35I)	08/91->05/97	6NM 007 282-211	1



Headlight Levelling Actuators

Volkswagen



Manufacturer Model	Model year	Part no.	Pk.
Volkswagen			
Passat (3B2, 3B5)	08/96->11/00	6NM 007 282-211 for halogen headlight	1
Passat (3B2, 3B5) chassis no. 3B-V-000 001 -> 3B-Y-000 000	08/96->11/00	6NM 007 282-631 for xenon headlight	1
Passat (3B3, 3B6)	11/00->05/05	6NM 007 878-041 for FF®-H7 headlight	1
Polo III (6N2) chassis no. 6N-Y-500 001 -> 6N-2-010 000	10/99->10/01	6NM 007 878-041	1
Transporter (T4) California, Caravelle, Multivan chassis no. 70-T-200 001 -> 70-1-048 000	01/96->01	6NM 007 282-211	1
Vento (1H2)	11/91->09/98	6NM 007 282-211	1



Headlight Levelling Actuators

Fiat - Volkswagen



1

Manufacturer Model	Model year	Part no.	Pk.
Fiat			
Punto (176)	09/93->09/99	6NM 007 282-661	1
Nissan			
Primastar (X83)	09/02->07/06	6NM 007 878-501	1
Opel			
Astra G	02/98->	6NM 007 878-351	1
Vivaro (E7/F7/J7)	08/01->07/06	6NM 007 878-501	1
Renault			
Clio II (B/C/B0/1_)	09/98->11/04	6NM 007 878-501	1
Kangoo (FC0/1_, KC0/1_)	03/98->	6NM 007 878-501	1
Master II (ED/FD/HD/JD/ND/UD)	07/98->10/03	6NM 007 878-501	1
Mastermaxi (FH/HH/UH)	04/98->	6NM 007 878-501	1
Trafic (JL/EL/FL)	03/01->07/06	6NM 007 878-501	1
Twingo (C06_, C06_)	03/93->	6NM 007 878-501	1
19 II	04/92->12/95	6NM 007 878-501	1
Skoda			
Fabia Praktik	04/02->	6NM 007 878-521	1
Vauxhall			
Astravan Mk IV	08/98->	6NM 007 878-351	1
Volkswagen			
Transporter (T4) California, Caravelle, Multivan chassis no. 70-T-200 001 -> 70-1-048 000	01/96->01	6NM 007 282-211	1



BMW

Part no.	Pk.	
6NM 004 375-311	1	Headlight levelling actuator, 12V



Audi, Volkswagen

Part no.	Pk.	
6NM 007 282-211	1	Headlight levelling actuator, 12V



Volkswagen

Part no.	Pk.	
6NM 007 282-631	1	Headlight levelling actuator, 12V



Opel, Vauxhall

Part no.	Pk.	
6NM 007 282-641	1	Headlight levelling actuator, 12V



Fiat

Part no.	Pk.	
6NM 007 282-661	1	Headlight levelling actuator, 12V



Audi, Seat, Skoda, Volkswagen

Part no.	Pk.	
6NM 007 878-041	1	Headlight levelling actuator, 12V



Chrysler, Opel, Vauxhall

Part no.	Pk.	
6NM 007 878-351	1	Headlight levelling actuator, 12V



Renault

Part no.	Pk.	
6NM 007 878-501	1	Headlight levelling actuator, 12V



Headlight Levelling Actuators

1



Audi, Skoda

Part no.	Pk.	
6NM 007 878-521	1	Headlight levelling actuator, 12V



Audi, Skoda

Part no.	Pk.	
6NM 007 878-531	1	Headlight levelling actuator, 12V



Audi

Part no.	Pk.	
6NM 007 878-541	1	Headlight levelling actuator, 12V

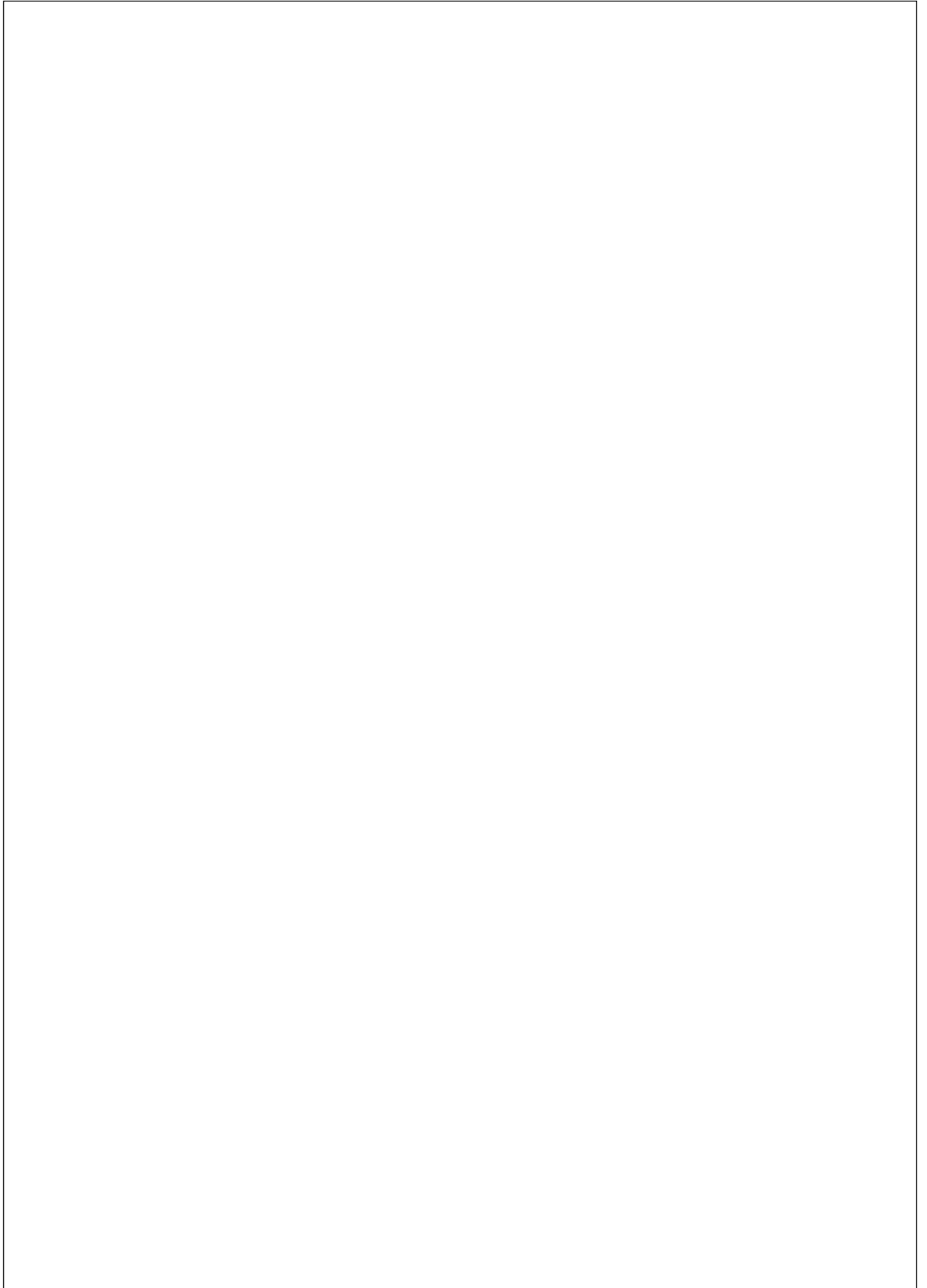


VW, Mercedes Benz

Part no.	Pk.	
6NM 007 281-004	1	Headlight levelling actuator, 12V



Part no.	Pk.	
6NM 008 299-501	1	Headlight levelling actuator, 12V





<p>Relays Product descriptions</p>	<p>2.02-2.17</p>
<p>Relays, wiping interval Application Chart for cars Application Chart for light commercial vehicles Application Chart for commercial vehicles Product descriptions</p>	<p>2.18-2.19 2.20 2.21 2.22-2.26</p>
<p>Relays, headlight cleaning Product descriptions</p>	<p>2.27</p>
<p>Relays, lock system Product descriptions</p>	<p>2.27</p>
<p>Relays, fuel pump Application Chart for cars and light commercial vehicles Product descriptions</p>	<p>2.28-2.34 2.35</p>

Climatic and mechanical tests

Vibration test:	DIN IEC 600 68-2-6 (sinusoidal) 20-200 Hz, 5g
Shock test:	DIN IEC 600 68-2-27 (half-sine) min. 10g
Corrosion test:	DIN IEC 600 68-2-42; 10 ± 2 cm ³ /m ³ SO ₂ , 10 days
	DIN IEC 600 68-2-42; 11 ± 0.3 cm ³ /m ³ H ₂ S, 10 days
Damp heat test, cyclic:	DIN IEC 600 68-2-30; Db, version 1; 6 cycles, upper temperature +55 °C
Damp heat test, constant:	DIN EN 600 68-2-78, test: Cab; upper temperature: +55 °C, 93% rF, approx. 56 days
Temperature-change test:	DIN EN ISO 600 68-2-14, test; Nb; -40 °C / +85 °C (5 °C per minute), 10 cycles
Condensation-water test:	EN ISO 6988, 6 cycles; Storage 8/16 h
Type of protection:	IP 54 DIN EN 60 529

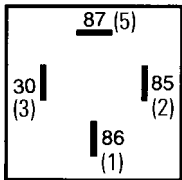
Connecting and clamping description

Standard	ISO 7588	Description
86	1	Coil trigger (+)
85	2	Coil trigger (-), Ground
30	3	Battery (+)
87a	4	Output 2
87	5	Output 1

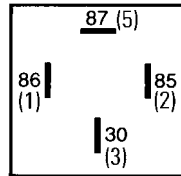
	Mini-relays, 12V		Power-mini-relays, 12V	Mini-relays, 24V	
	4RA 007 791-... 4RD 007 794-...	4R. 933 332-... 4RA 933 791-... 4R. 965 400-...	4RA 007 793-...	4RA 007 957-... 4RD 007 903-...	4R. 933 332-... 4RA 933 791-... 4R. 965 400-...
General data					
Test voltage	13.5V	13.5V	13.5V	27V	27V
Test temperature	+23 ±5 °C	+23 ±5 °C	+23 ±5 °C	+23 ±5 °C	+23 ±5 °C
Permissible ambient temperature	-40 °C to +125 °C	-40 °C to +85 °C	-40 °C to +125 °C	-40 °C to +125 °C	-40 °C to +85 °C
Storage temperature	-40 °C to +130 °C	-40 °C to +125 °C	-40 °C to +130 °C	-40 °C to +130 °C	-40 °C to +125 °C
Blade terminal (ISO 8092)					
30	6.3 x 0.8 mm	6.3 x 0.8 mm	6.3 x 0.8 mm	6.3 x 0.8 mm	6.3 x 0.8 mm
85	6.3 x 0.8 mm	6.3 x 0.8 mm	6.3 x 0.8 mm	6.3 x 0.8 mm	6.3 x 0.8 mm
86	6.3 x 0.8 mm	6.3 x 0.8 mm	9.5 x 1.2 mm	6.3 x 0.8 mm	6.3 x 0.8 mm
87	6.3 x 0.8 mm	6.3 x 0.8 mm	9.5 x 1.2 mm	6.3 x 0.8 mm	6.3 x 0.8 mm
87a	6.3 x 0.8 mm	6.3 x 0.8 mm	-	6.3 x 0.8 mm	6.3 x 0.8 mm
Coil data					
Rated voltage	12V	12V	12V	24V	24V
Operating voltage at permissible ambient temperature	8V to 16V	8V to 16V	8V to 16V	16V to 30V	16V to 30V
Response voltage at test temperature	< 8V	< 8V	< 8V	< 17V	< 15.6V
Release voltage at test temperature	> 1V	> 1V	> 1.3V	> 3.5V	> 3.5V
Coil resistance at test temperature without parallel component	85 Ohm ± 10%	85 Ohm ± 10%	100 Ohm ± 10%	305 Ohm ± 10%	350 Ohm ± 10%
Response time	< 10 ms	< 10 ms	< 10 ms	< 10 ms	< 10 ms
Release time	< 10 ms	< 15 ms	< 10 ms	< 10 ms	< 15 ms
Insulation resistance Coil circuit/Load circuit	> 100 MOhm	> 100 MOhm	> 100 MOhm	> 100 MOhm	> 100 MOhm
Dielectric strength Coil circuit/Load circuit	> 1000 VDC	> 1000 VDC	> 1000 VDC	> 1000 VDC	> 1000 VDC
Contact data					
Contact-voltage drop at test voltage in new condition: normally open contact	< 10 mV/A	< 10 mV/A	< 5 mV/A	< 10 mV/A	< 15 mV/A
in new condition: normally-closed contact	< 10 mV/A	< 10 mV/A	-	< 10 mV/A	< 15 mV/A
following service-life test: normally-open contact	< 10 mV/A	< 10 mV/A	< 10 mV/A	< 10 mV/A	< 15 mV/A
following service-life test: normally-closed contact	< 10 mV/A	< 15 mV/A	-	< 15 mV/A	< 20 mV/A
Mechanical service life	10 ⁷	10 ⁷	10 ⁷	10 ⁷	10 ⁷

	Heavy-duty relays, 12V		Micro-relays, 12V		Solid state relays, 12V
	4RA 003 437-...	24V 4RA 003 437-...	4RA 007 813-... 4RD 007 814-...	12V 4RC 933 364-... 4RX 965 400-...	4RA 931 773-...
General data					
Test voltage	13.5V	27V	13.5V	13.5V	13.5V
Test temperature	+23 ±5 °C	+23 ±5 °C	+23 ±5 °C	+23 ±5 °C	+23 ±5 °C
Permissible ambient temperature	-40 °C to +125 °C	40 °C to +85 °C	-40 °C to +125 °C	-40 °C to +105 °C	-40 °C to +125 °C
Storage temperature	-40 °C to +125 °C	-40 °C to +125 °C	-40 °C to +130 °C	-40 °C to +125 °C	-40 °C to +130 °C
Blade terminal (ISO 8092)					
30	9.5 x 1.2 mm	9.5 x 1.2 mm	6.3 x 0.8 mm	6.3 x 0.8 mm	6.3 x 0.8 mm
85	6.3 x 0.8 mm	6.3 x 0.8 mm	4.8 x 0.8 mm	4.8 x 0.8 mm	6.3 x 0.8 mm
86	6.3 x 0.8 mm	6.3 x 0.8 mm	4.8 x 0.8 mm	4.8 x 0.8 mm	6.3 x 0.8 mm
87	9.5 x 1.2 mm	9.5 x 1.2 mm	6.3 x 0.8 mm	6.3 x 0.8 mm	6.3 x 0.8 mm
87a	-	-	4.8 x 0.8 mm	4.8 x 0.8 mm	-
Coil data					
Rated voltage	12V	24V	12V	12V	12V
Release voltage at test temperature	8V to 16V	16V to 30V	8V to 16V	8V to 16V	8V to 16V
Response voltage at test temperature	< 7.5V	< 17V	< 8V	< 6V	< 8V
Release voltage at test temperature	> 1V	> 5V	> 1V	> 6V	-
Coil resistance at test temperature without parallel component	85 Ohm ± 10%	310 Ohm ± 10%	92 Ohm ± 10%	2x75 Ohm ± 10%	Ri = 1.4 Ohm
Response time	< 10 ms	< 10 ms	< 10 ms	< 5 ms	< 1 ms
Release time	< 10 ms	< 15 ms	< 10 ms	< 5 ms	< 1 ms
Insulation resistance Coil circuit/Load circuit	> 100 MOhm	> 100 MOhm	> 100 MOhm	> 100 MOhm	-
Dielectric strength Coil circuit/Load circuit	> 1000 VDC	> 1000 VDC	> 1000 VDC	> 800 VDC	-
Contact data					
Contact-voltage drop at test voltage in new condition: normally open contact	< 3 mV/A	< 3 mV/A	< 10 mV/A	< 5 mV/A	< 1 mV/A
in new condition: normally-closed contact	-	-	< 10 mV/A	-	-
following service-life test: normally-open contact	< 10 mV/A	< 10 mV/A	< 10 mV/A	< 10 mV/A	< 1 mV/A
following service-life test: normally-closed contact	-	-	< 10 mV/A	-	-
Mechanical service life	10 ⁷	10 ⁷	10 ⁷	10 ⁷	10 ⁷

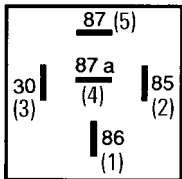
Mini-relays / Solid-state relays



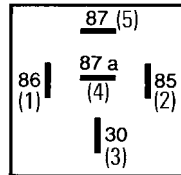
Normally-open relay



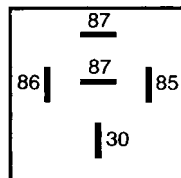
Normally-open relay



Change-over relay

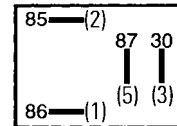


Change-over relay

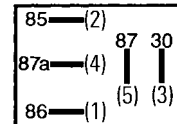


Normally-open relay with dual output

Mikrorelais



Normally-open relay

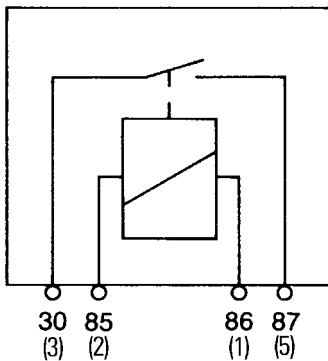


Change-over relay

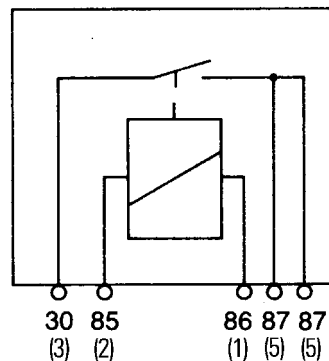
Plug patterns according to ISO 7588 / flat plugs to ISO 8092

The different types of relays:

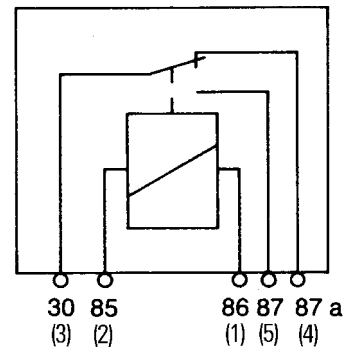
1. The normally-open relay



2. The normally-open relay with dual output



3. The change-over relay



A normally-open relay is used to close the electric circuit between power source and electrical load, i.e. the load is switched on. Relays are operated by means of switches, pulse generators or control devices.

Application: headlamps, auxiliary driving lamps, auxiliary fog lamps, horns, heaters, motors for fans and power windows, air-conditioners and ignition assemblies, etc.

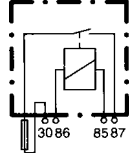
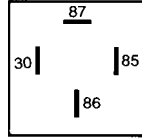
The change-over relay changes the load path from one electrical load to another. The relay is operated by a dashboard switch. Application: Switching over from town horn to fanfare horn, for 2-speed-appliances such as heated rear windows or fan motors, etc.

Change-over relays can be used as:

- change-over relays
- normally-open relays
- normally-closed relays

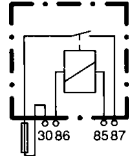
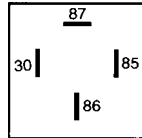
Normally-open relays (mini-relays)

With bracket and 15A blade-type fuse.



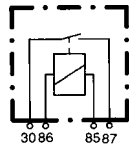
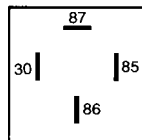
Part no.	Pk.	
		Max. load (at +80 °C) normally-open contact Resistive load: 15A Inductive load: 15A Capacitive load: 15A
4RA 003 530-001	1	Normally-open relay, 4-pole, 12V
4RA 003 530-007	112	
4RA 003 530-051	1	Normally-open relay, 4-pole, 24V

With bracket and 25A blade-type fuse.



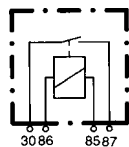
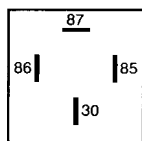
Part no.	Pk.	
		Max. load (at +80 °C) normally-open contact Resistive load: 25A Inductive load: 25A Capacitive load: 25A
4RA 003 530-042	1	Normally-open relay, 4-pole, 12V
4RA 003 530-041	112	

With bracket, without fuse.



Part no.	Pk.	
		Max. load (at +80 °C) normally-open contact Resistive load: 30A Inductive load: 30A Capacitive load: 16A
4RA 965 400-001	1	Normally-open relay, 4-pole, 24V
		Max. load (at +80 °C) normally-open contact Resistive load: 30A Inductive load: 16A Capacitive load: 16A
4RA 965 400-031	1	Normally-open relay, 4-pole, 24V

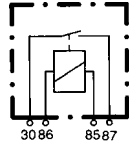
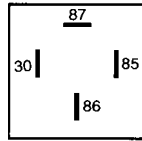
With bracket and resistor in parallel with coil.



Part no.	Pk.	
		Max. load (at +80 °C) normally-open contact Resistive load: 40A Inductive load: 35A Capacitive load: 30A
4RA 007 791-021	1	Normally-open relay, 4-pole, 12V
		Max. load (at +80 °C) normally-open contact Resistive load: 30A Inductive load: 16A Capacitive load: 16A
4RA 007 957-011	1	Normally-open relay, 4-pole, 24V
4RA 007 957-017	200	

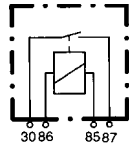
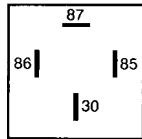
Normally-open relays (mini-relays)

Without bracket.



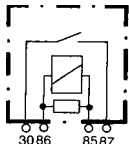
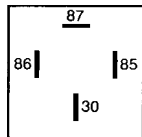
Part no.	Pk.	
4RA 965 400-017		Max. load (at +80 °C) normally-open contact Resistive load: 30A Inductive load: 30A Capacitive load: 16A
	250	Normally-open relay, 4-pole, 12V

Without bracket.



Part no.	Pk.	
4RA 933 332-101 4RA 933 332-107	1	Max. load (at +80 °C) normally-open contact Resistive load: 40A Inductive load: 30A Capacitive load: 30A
	40	Normally-open relay, 4-pole, 12V
4RA 933 332-111 4RA 933 332-117	1	Max. load (at +80 °C) normally-open contact Resistive load: 20A Inductive load: 16A Capacitive load: 16A
	40	Normally-open relay, 4-pole, 24V

Without bracket, with resistor in parallel with coil.

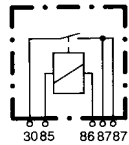
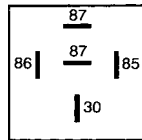


Part no.	Pk.	
4RA 007 791-011 4RA 007 791-017	1	Max. load (at +80 °C) normally-open contact Resistive load: 40A Inductive load: 35A Capacitive load: 30A
	200	Normally-open relay, 4-pole, 12V
4RA 007 957-001 4RA 007 957-007	1	Max. load (at +80 °C) normally-open contact Resistive load: 20A Inductive load: 16A Capacitive load: 15A
	200	Normally-open relay, 4-pole, 24V
4RA 933 332-211	1	Max. load (at +80 °C) normally-open contact Resistive load: 40A Inductive load: 30A Capacitive load: 30A
		Normally-open relay, 4-pole, 12V

Normally-open relays (mini-relays) with dual output

With bracket. With two "87" connections.

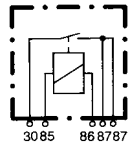
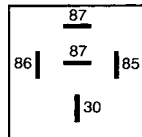
Ideal for switching pairs of consumers, e.g. auxiliary lamps.



Part no.	Pk.	
4RA 933 791-061	1	Max. load (at +80 °C) normally-open contact Resistive load: 40A Inductive load: 30A Capacitive load: 30A
4RA 933 791-067	40	Normally-open relay, 5-pole, 12V
4RA 933 791-071	1	Max. load (at +80 °C) normally-open contact Resistive load: 30A Inductive load: 16A Capacitive load: 16A
4RA 933 791-071	1	Normally-open relay, 5-pole, 24V
4RA 933 791-091	1	With diode in parallel with coil. Max. load (at +80 °C) normally-open contact Resistive load: 40A Inductive load: 30A Capacitive load: 30A
4RA 933 791-091	1	Normally-open relay, 5-pole, 24V

Without bracket. With two "87" connections.

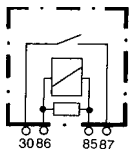
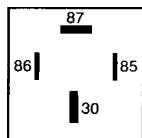
Ideal for switching pairs of consumers, e.g. auxiliary lamps.



Part no.	Pk.	
4RA 933 332-151	1	Max. load (at +80 °C) normally-open contact Resistive load: 40A Inductive load: 30A Capacitive load: 30A
4RA 933 332-151	1	Normally-open relay, 5-pole, 12V
4RA 933 791-081	1	Max. load (at +80 °C) normally-open contact Resistive load: 30A Inductive load: 16A Capacitive load: 16A
4RA 933 791-081	1	Normally-open relay, 5-pole, 24V

Normally-open relay (power mini-relays)

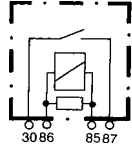
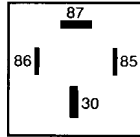
With bracket and resistor in parallel with coil.



Part no.	Pk.	
4RA 007 793-041	1	With flat blade connectors 9.5mm. Max. load (at +80 °C) normally-open contact Resistive load: 50A Inductive load: 46A Capacitive load: 44A
4RA 007 793-047	175	Normally-open relay, 4-pole, 12V

Normally-open relay (power mini-relays)

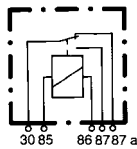
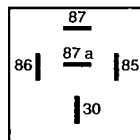
Without bracket, with resistor in parallel with coil.



Part no.	Pk.	
		With flat blade connectors 9.5mm. Max. load (at +80 °C) normally-open contact Resistive load: 50A Inductive load: 46A Capacitive load: 44A
4RA 007 793-031	1	Normally-open relay, 4-pole, 12V
4RA 007 793-037	175	

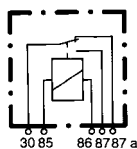
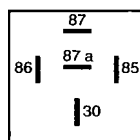
Change-over relays (mini-relays)

With bracket.



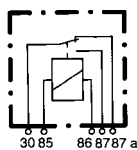
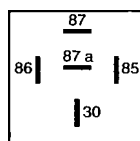
Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 40A Inductive load: 6A / 20A Capacitive load: 10A / 20A
4RD 933 332-011	1	Change-over relay, 5-pole, 12V

With bracket.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 30A Inductive load: 6A / 20A Capacitive load: 10A / 20A
4RD 933 332-011	1	Change-over relay, 5-pole, 12V
4RD 933 332-047	40	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 10A / 20A Inductive load: 8A / 16A Capacitive load: 5A / 15A
4RD 933 332-061	1	Change-over relay, 5-pole, 24V
4RD 933 332-067	40	

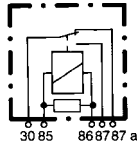
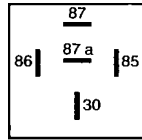
With bracket.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 30A Inductive load: 6A / 20A Capacitive load: 10A / 20A
4RD 933 332-237	1	Change-over relay, 5-pole, 12V

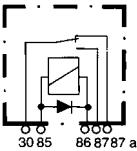
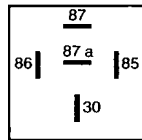
Change-over relays (mini-relays)

With bracket and resistor in parallel with coil.



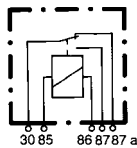
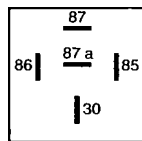
Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 30A Inductive load: 5A / 20A Capacitive load: 10A / 30A
4RD 007 794-031	1	Change-over relay, 5-pole, 12V
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 10A / 20A Inductive load: 10A / 16A Capacitive load: 5A / 16A
4RD 007 903-011	1	Change-over relay, 5-pole, 24V
4RD 007 903-017	240	

With bracket and diode in parallel with coil.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 10A / 20A Inductive load: 8A / 16A Capacitive load: 5A / 15A
4RD 933 332-081	1	Change-over relay, 5-pole, 12V
4RD 933 332-087	40	

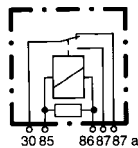
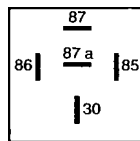
Without bracket.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 30A Inductive load: 6A / 20A Capacitive load: 10A / 20A
4RD 933 332-051	1	Change-over relay, 5-pole, 12V
4RD 933 332-057	40	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 10A / 20A Inductive load: 8A / 16A Capacitive load: 5A / 15A
4RD 933 332-071	1	Change-over relay, 5-pole, 24V
4RD 933 332-077	40	

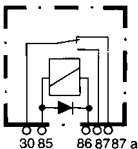
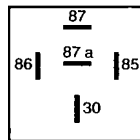
Change-over relays (mini-relays)

Without bracket, with resistor in parallel with coil.



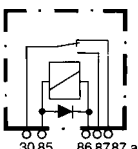
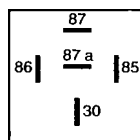
Part no.	Pk.	
4RD 007 794-021 4RD 007 794-027 4RD 007 794-077	1 200 200	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 20A Inductive load: 5A / 16A Capacitive load: 10A / 16A Change-over relay, 5-pole, 12V
4RD 007 903-001 4RD 007 903-007	1 200	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 10A / 20A Inductive load: 10A / 16A Capacitive load: 5A / 16A Change-over relay, 5-pole, 24V
4RD 933 332-261	1	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 10A / 20A Inductive load: 8A / 16A Capacitive load: 5A / 15A Change-over relay, 5-pole, 24V

Without bracket, with diode in parallel with coil.



Part no.	Pk.	
4RD 007 794-041 4RD 007 794-047	1 200	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 30A Inductive load: 5A / 20A Capacitive load: 10A / 30A Change-over relay, 5-pole, 12V
4RD 007 903-021 4RD 007 903-027	1 200	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 10A / 20A Inductive load: 10A / 16A Capacitive load: 5A / 16A Change-over relay, 5-pole, 24V

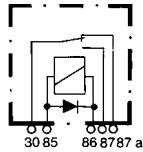
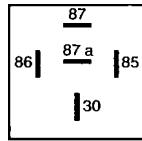
Without bracket, with diode in parallel with coil.



Part no.	Pk.	
4RD 933 332-021 4RD 933 332-027	1 40	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 30A 6A / 20A 6A / 20A Capacitive load: 10A / 30A Change-over relay, 5-pole, 12V

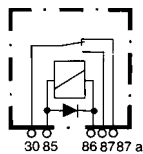
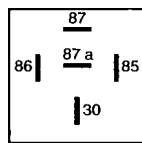
Change-over relays (mini-relays)

Without bracket, with diode in parallel with coil.



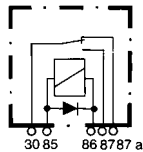
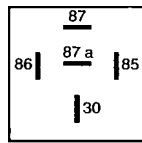
Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open conta Resistive load: 15A / 30A Inductive load: 20A / 33A Capacitive load: 8A / 16A
4RD 965 400-027	40	Change-over relay, 5-pole, 12V

Without bracket, with diode in parallel with coil.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 30A Inductive load: 6A / 20A Capacitive load: 10A / 20A
4RD 933 332-277	40	Change-over relay, 5-pole, 12V

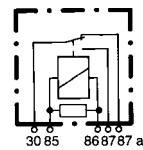
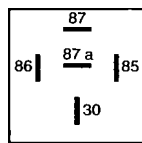
Without bracket, with diode in parallel with coil.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 10A / 20A Inductive load: 8A / 16A Capacitive load: 5A / 15A
4RD 933 332-091	1	Change-over relay, 5-pole, 12V
4RD 933 332-097	40	

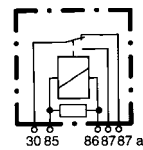
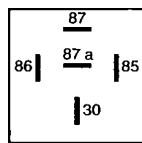
Change-over relays (skirted-relays)

With bracket and resistor in parallel with coil.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 30A Inductive load: 6A / 20A Capacitive load: 10A / 20A
4RD 933 332-031	1	Change-over relay, 5-pole, 12V

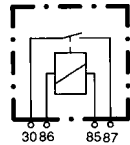
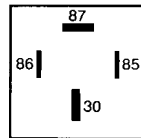
With bracket and resistor in parallel with coil.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 20A / 30A Inductive load: 6A / 20A Capacitive load: 10A / 20A
4RD 933 332-177	1	Change-over relay, 5-pole, 12V
8JD 745 801-001	1	Spare parts/Accessories: Socket, 5-pole

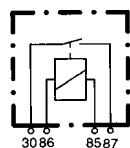
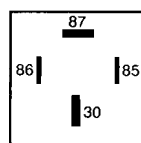
Heavy-duty normally open relays

With bracket.



Part no.	Pk.	
4RA 003 437-081 4RA 003 437-087	1 120	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: - / 60A Inductive load: - / 50A Capacitive load: - / 25A Heavy-duty normally open relay, 4-pole, 12V

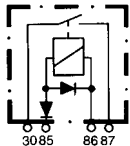
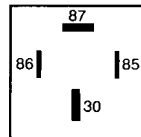
With bracket.



Part no.	Pk.	
4RA 003 437-091 4RA 003 437-097	1 120	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: - / 60A Inductive load: - / 50A Capacitive load: - / 25A Heavy-duty normally open relay, 4-pole, 24V

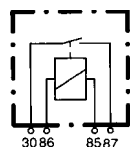
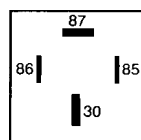
With holder and additional diodes

(anti-surge diode and polarity reversal protection diode)



Part no.	Pk.	
4RA 003 437-101	1	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: - / 60A Inductive load: - / 50A Capacitive load: - / 25A Heavy-duty normally open relay, 4-pole, 12V

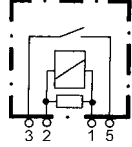
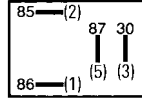
Without bracket.



Part no.	Pk.	
4RA 003 437-111	1	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: - / 60A Inductive load: - / 50A Capacitive load: - / 25A Heavy-duty normally open relay, 4-pole, 12V
4RA 003 437-121	1	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: - / 60A Inductive load: - / 50A Capacitive load: - / 25A Heavy-duty normally open relay, 4-pole, 24V

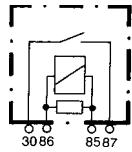
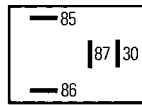
Normally-open relays (micro-relays)

With bracket and resistor in parallel with coil.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: - / 20A Inductive load: - / 15A Capacitive load: - / 16A
4RA 007 813-021	1	Normally-open relay, 4-pole, 12V

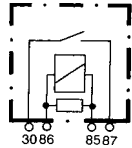
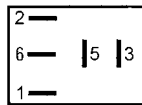
Without bracket, with resistor in parallel with coil.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: - / 20A Inductive load: - / 15A Capacitive load: - / 16A
4RA 007 813-011	1	Normally-open relay, 4-pole, 12V
4RA 007 813-017	350	

Normally-open relays (micro-relays) bistable

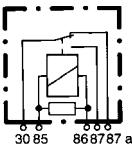
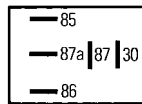
Without bracket.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: - / 20A Inductive load: - / 20A Capacitive load: - / 20A
4RC 933 364-027	1	Normally-open relay, 4-pole, 12V

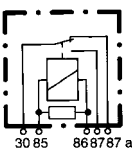
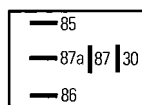
Change-over relays (micro-relays)

With bracket and resistor in parallel with coil.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 10A / 20A Inductive load: 11A / 11A Capacitive load: 10A / 20A
4RD 007 814-031	1	Change-over relay, 5-pole, 12V

With bracket and resistor in parallel with coil.



Part no.	Pk.	
		Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: 10A / 20A Inductive load: 11A / 11A Capacitive load: 10A / 20A
4RD 007 814-011	1	Change-over relay, 5-pole, 12V
4RD 007 814-017	350	
4RD 007 814-087	200	

Normally-open relays (Solid-state relays)

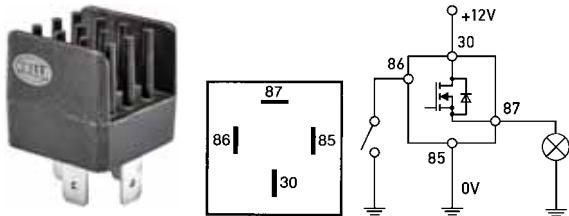
Solid-state relays are modern semi-conductor switches. Hella satisfies the increasing trend of controlling loads (e.g. fan motors, glow plugs, headlamps and heaters) with power regulation.

Solid-state relays in detail:

- Semi-conductor relays, suitable for resistive loads, lamp loads and inductive loads.
- Pulse width modulation allows regulation of the power for the loads.
- Maximum switching reliability, particularly suited for switching functions relevant for safety.
- Compatible with conventional ISO-mini relays in terms of overall size and plug pattern.
- Silent switching, e.g. in passenger compartment.
- Resistant to short-circuit and overload.
- Protected against polarity reversal and earth disconnection.
- Shock and vibration-resistant.
- Water-proof, potted design.
- Protected against overheating.
- Low quiescent current.
- Max. load (at +85 °C) 22A.
- Type of protection: IP 67.

Note:

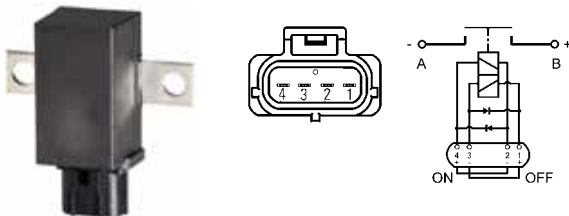
on solid-state relays terminal 85 must be connected permanently to earth to ensure proper function over terminal 86.



Part no.	Pk.	
4RA 007 865-031	50	Solid-state relay, 12V, 25(105)°C, 18(12)A, 6(12)mOhm

Normally-open relays (mini-relays) bistable

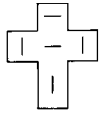
With bracket and diode in parallel with coil.



Part no.	Pk.	
4RC 011 152-007	1	Max. load (at +80 °C) normally-closed contact / normally-open contact Resistive load: - / 180A Inductive load: - / 180A Capacitive load: - / 180A Normally-open relay, 4-pole, 12V

Sockets for relays

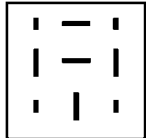
for relays and flasher units



For built-in or external fitting

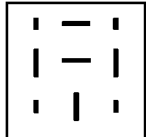
For mini-relays.
With 5-pole SAE terminal arrangement
 for receiving five 6.3 mm blade terminal connectors. Made of black plastic.

Part no.	Pk.	
8JA 715 606-001	50	Socket, 5-pole



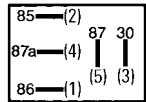
For mini-relays.
With 9-pole SAE terminal arrangement
 for receiving five 6.3 mm and four 2.8 mm blade terminal connectors. Made of black plastic.

Part no.	Pk.	
8JA 003 526-001	5	Socket, 9-pole
8JA 003 526-002	50	



For mini-relays.
With 9-pole SAE terminal arrangement
 for receiving 3 blade terminal connectors 6.3 mm, 2 blade terminal connectors 9.5 mm and 4 blade terminal connectors 2.8 mm. Made of black plastic.

Part no.	Pk.	
8JA 183 161-002	5	Socket, 9-pole

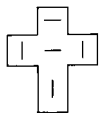


For micro-relays.
With 5-pole SAE terminal arrangement.
 for receiving three 4.8 mm and two 6.3 blade terminal connectors. Made of black plastic.

Part no.	Pk.	
8JD 733 767-001	5	Socket, 5-pole

For circuit boards

For mini-relays.
With 5-pole SAE terminal arrangement
 for receiving five 6.3 mm blade terminal connectors. Made of black plastic.

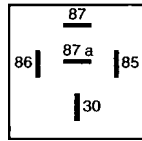


Part no.	Pk.	
8JA 717 291-007	1	Socket, 5-pole



For mini-relays.
With 5-pole SAE terminal arrangement
 for receiving five 6.3 mm blade terminal connectors. Made of black plastic.

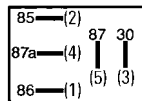
Part no.	Pk.	
8JD 733 963-001	1	Socket, 5-pole



For circuit boards

for waterproof ISO mini-relays
4RD 933 332-177 / -031
with pin arrangement B1.
Connecting lead 30 cm, 48 cm.

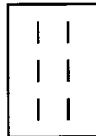
Part no.	Pk.	
8JD 745 801-001	1	Socket, 5-pole



For micro-relays.

With 5-pole SAE terminal arrangement.
for receiving three 4.8 mm and
two 6.3 mm blade terminal connectors.
Made of black plastic.

Part no.	Pk.	
8JD 733 962-001	5	Socket, 5-pole



For flasher units

6-pole,
for receiving six 6.3 mm blade terminal connectors.
Made of black plastic.

Part no.	Pk.	
9NH 701 230-001	10	Socket, 6-pole



Retaining spring for relays

For mounting mini-relays.

Part no.	Pk.	
9KB 710 131-001	10	Retaining spring



Relays, Wiping Interval

Alfa Romeo - Saab



Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Alfa Romeo				Opel			
75	05/85->02/92	5WG 003 620-081	1	Ascona C	09/81->09/88	5WG 003 620-081	1
Audi				Astra F	09/91->		
A4 (8D2, B5)	11/94->05/97	5WG 003 620-081	1	Calibra	06/90->07/97		
A4 Avant (8D5, B5)	07/95->09/01			Corsa A	03/83->02/93		
A6 (4A, C4)	06/94->02/97			Corsa B	03/93->		
A6 Avant (4A, C4)	06/94->12/97			Kadett C	08/73->07/79		
Coupé	09/91->12/95			Kadett D	08/79->09/84		
80	08/72->07/95			Kadett E	10/84->08/91		
90	10/84->08/91			Omega A	10/86->02/94		
100	08/76->05/94			Senator A	08/87->08/93		
200	09/79->11/90			Tigra	11/94->		
Citroën				Vectra A	10/88->09/95		
Berlingo	10/96->	5WG 003 620-081	1	Peugeot			
BX	04/83->			106	01/92->04/96	5WG 003 620-081	1
CX	09/74->11/89			205	02/83->		
Xantia	03/93->			306	01/93->		
XM	12/89->			309	03/86->		
ZX	10/91->			405	07/87->09/96		
Ford				406	10/96->		
Galaxy	06/95->09/97	5WG 003 620-081	1	806	02/95->		
Mitsubishi				Renault			
Carisma	01/95->	5WG 009 101-101 Rear window intermittent wash-wipe control unit	1	Espace	01/85->	5WG 009 101-051 Height 30 mm	1
		8PD 009 135-001 Adapter for vehicle without intermittent function	1	Kangoo	03/98->	alternatively: 5WG 003 620-081	1
				Laguna	04/94->	Height 42 mm	
				Safrane	01/93->		
				Twingo	06/93->		
Saab				Saab			
				90	08/84->07/87	5WG 003 620-081	1
				900	10/78->08/93		
				9000	05/85->		



Relays, Wiping Interval Seat - Volvo



2

Manufacturer Model	Model year	Part no.	Pk.	Manufacturer Model	Model year	Part no.	Pk.
Seat				Volkswagen			
Alhambra (7V8, 7V9)	04/96->09/97	5WG 003 620-081	1	Polo I, II, III	08/76->09/01	5WG 003 620-081	1
Arosa (6H)	05/97->			Polo III Classic	11/95->09/01		
Cordoba (6K2/C2)	02/93->06/99			Polo Estate	04/97->09/01		
Cordoba (6K2)	06/99->10/02			Santana	09/81->01/85		
Ibiza I (021A)	06/84->12/93			Scirocco I, II	08/75->09/92		
Ibiza II (6K1)	03/93->08/99			Sharan	05/95->09/97		
Ibiza III (6K1)	08/99->02/02			Vento	01/92->10/98		
Toledo I (1L)	01/91->03/99			Transporter (T4) California, Caravelle, Multivan, Transporter	09/90->		
Skoda				Volvo			
Favorit	03/89->	5WG 003 620-081	1	S70	02/97->	5WG 003 620-081	1
Felicia	10/94->			V40	04/96->12/98		
Vauxhall				V70	02/97->		
Vectra	10/88->09/95	5WG 003 620-081	1	340	07/76->12/91		
Volkswagen				360	08/81->07/90		
Corrado (53I)	09/88->12/95	5WG 003 620-081	1	440, 460	09/88->	5WG 009 101-161 Height 30 mm alternatively: 5WG 003 620-081 Height 42 mm	1
Derby (86)	02/77->09/81			480	04/86->	5WG 003 620-081	1
Derby (86C, 80)	08/81->12/84			800	08/90->		
Golf I (17)	08/77->12/85						
Golf II (19E, 1G1)	08/83->12/92						
Golf III (1H1)	08/91->08/97						
Golf III Estate (1H5)	07/93->04/99						
Jetta I (17)	08/79->01/85						
Jetta II (19E, 1G2)	01/84->12/92						
Passat (32)	08/75->07/80	5WG 003 620-081	1				
Passat Estate (33)	08/75->10/81						
Passat (32B)	08/80->12/88						
Passat Estate (32B)	08/80->06/89						
Passat (3A2, 35I)	02/88->08/96						
Passat Estate (3A5, 35I)	02/88->05/97						
Passat (3B2)	08/96->08/97						
Passat Estate (3B5)	06/97->08/97						



Relays, Wiping Interval

Citroën - Volkswagen



Manufacturer Model	Model year	Part no.	Pk.
Citroën			
Berlingo	10/96->	5WG 003 620-081	1
Mercedes-Benz			
L 406 D - L 613 D	09/82->12/85	5WG 002 450-121 24V	1
207 D - 410 (T1, TN-series)	05/77->	5WG 002 450-311	1
507 D - 814 D (T2, LN1-series)	01/86->	5WG 002 450-121 24V	1
Opel			
Astra F	10/91->01/99	5WG 003 620-081	1
Corsa A	02/86->09/94		
Corsa B	08/99->09/00		
Kadett E	08/84->07/94		
Peugeot			
205	02/83->	5WG 003 620-081	1
Renault			
Kangoo	03/98->	5WG 009 101-051 Height 30 mm alternatively: 5WG 003 620-081 Height 42 mm	1
Twingo	06/93->		
Master	01/85->12/97		
Seat			
Inca (6K9)	08/97->	5WG 003 620-081	1
Volkswagen			
Polo	08/92->12/99	5WG 003 620-081	1
Transporter (T4) California, Caravelle, Multivan, Transporter	09/90->		



Relays, Wiping Interval

Bova - Steyr



2

Manufacturer Model	Model year	Part no.	Pk.
Bova			
Europa		5WG 002 450-301 24V	1
Delta Plan			
various models		5WG 002 450-301 24V	1
Iveco			
180-24 - 240-38, 256 M - 320 M (T-series)	05/78->	5WG 002 450-111 24V, max. switching current: 10A	1
		5WG 002 450-291 24V, max. switching current: 3,5A	1
Mercedes-Benz			
L 1518 - L 2624	01/66->12/74	5WG 002 450-121 24V, max. switching current: 10A	1
O 309, O 309 D	09/82->12/88		
O 405			
O 405 VÖV II	01/84->	5WG 002 450-281 24V, max. switching current: 3,5A	1
O 407			
709 - 1524 (LK, LN2-series)	03/84->		
1013 - 3850 (New generation)	08/73->07/88		
Scania			
G 82 - T 142 (series 2)	07/80->12/87	5WG 002 450-301 24V	1
G 83 - T 143 (series 3)	01/88->		
Steyr			
6 S - 17 S	01/86->	5WG 002 450-301 24V	1
19 S - 40 S	10/87->		
791 - 1491	04/78->09/87		

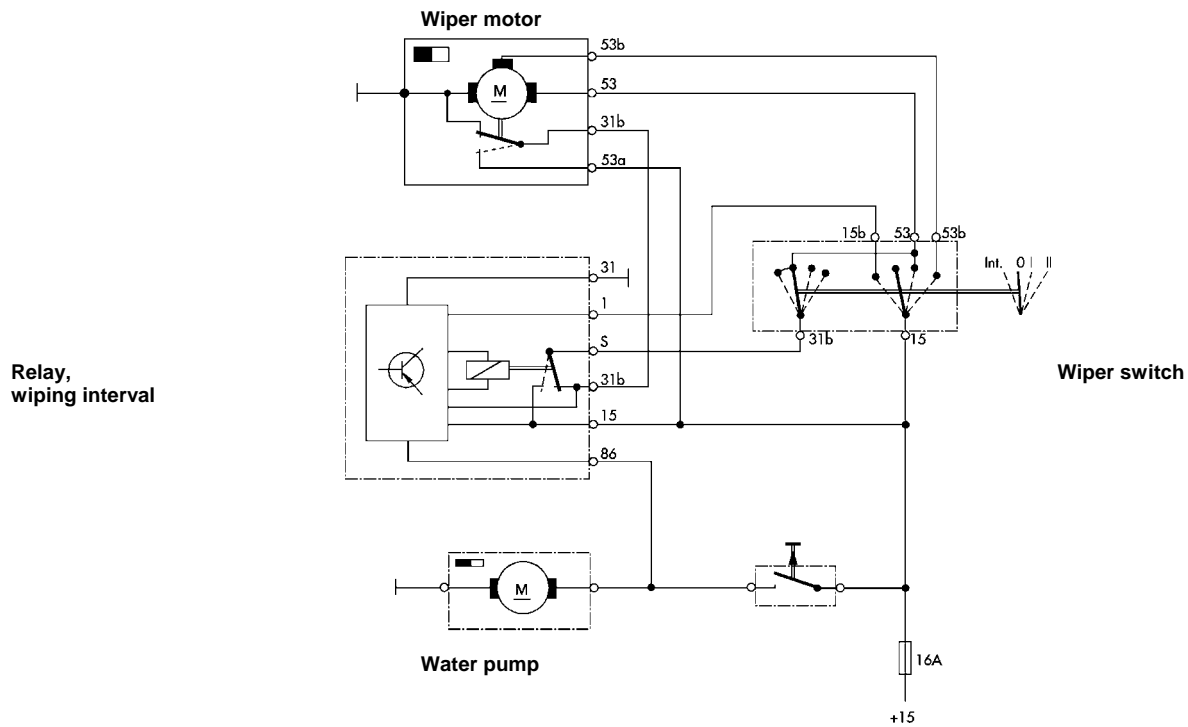
Technical data:

	5WG 003 620-08	5WG 002 450-28
Nominal voltage	12V	24V
Operating temperature	-20 °C ... +60 °C	-25 °C ... +70 °C
Cutoffdelay (wipe dry)	4,75 s ± 1,25 s	Room temperature
15 s delay between 2 washing cycles	at 10V ... 15V and -10 °C ... +60 °C	
Interval delay time	5,5 s ± 1,5 s at 10V ... 15V and -10 °C ... +60 °C	5 s ± 1 s at 26V and room temperature
Rated current load of power circuit	12V-wiper motor at I = 5A	24V-wiper motor at I = 3,5A

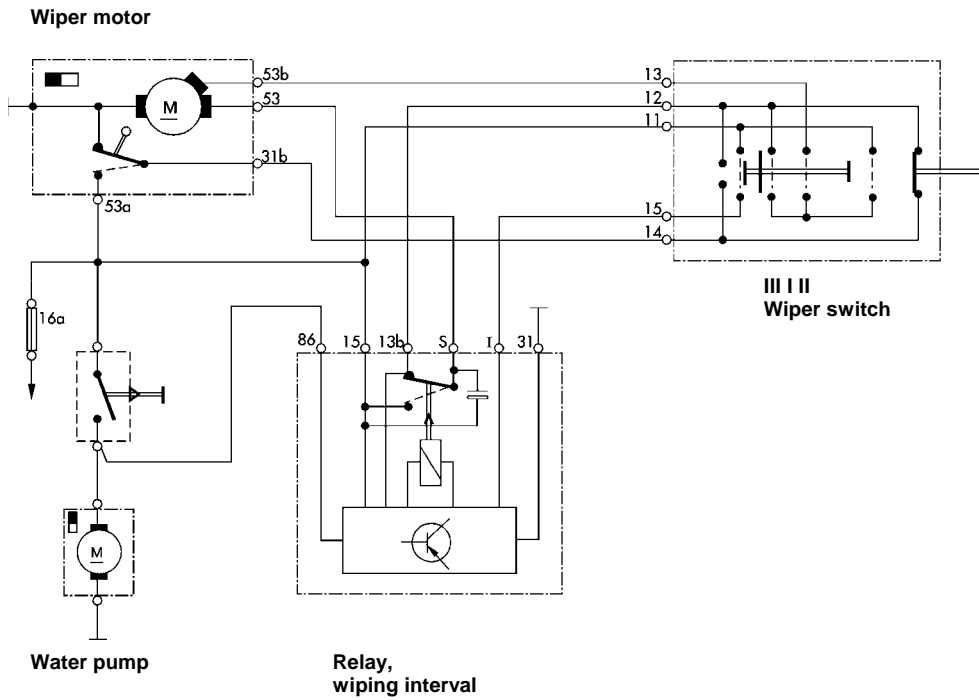
Test duration of wiper-washer operation

30.000 switching operations at 3 cycles per minute
 250 h continuous interval wiping combined with wash-wiper cycle, 1 wash impulse per minute

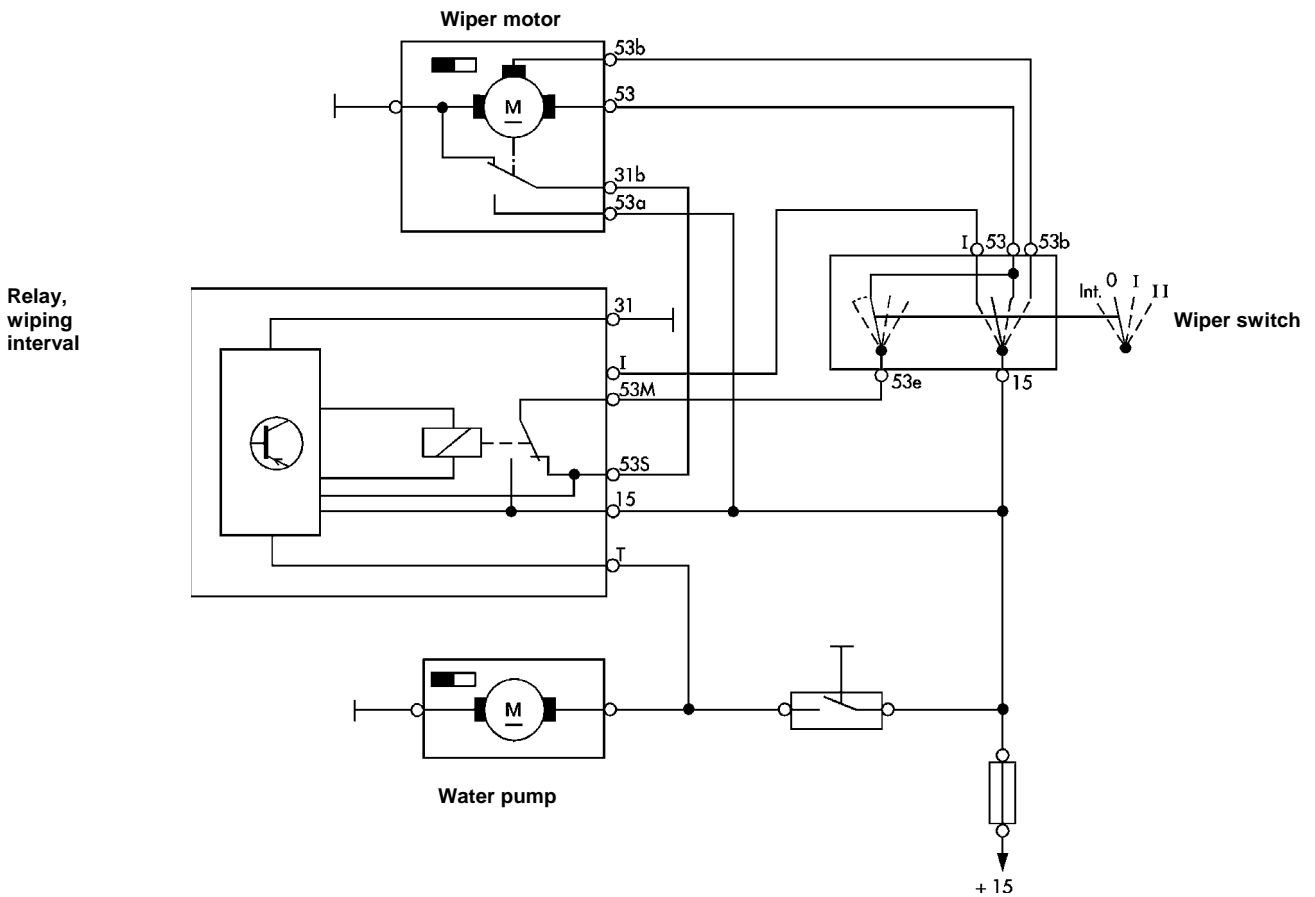
5WG 003 620-08

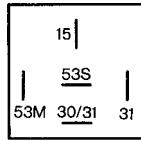


5WG 002 450-28



5WG 002 450-31

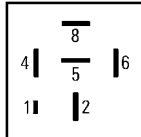




Switches, wiping interval

The intermittent switch automatically stops/starts the windscreen wiper at regular intervals, 2-20 times per minute.
For windscreen and rear window wipers, for positive and negative-earth vehicles. With installation material.

Part no.	Pk.	
5WA 001 871-041	1	Switch, wiping interval, 5-pole, 12V, self-service box
5WA 001 871-051	1	24V

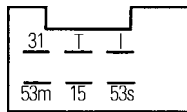


Relays, wiping interval for windscreens

Alfa Romeo, Audi, Citroën, Daihatsu, Ford, Mazda, Mercedes-Benz, Mitsubishi, Opel, Peugeot, Porsche, Renault, Rover, Saab, Seat, Subaru, Suzuki, Skoda, Toyota, Volkswagen, Volvo

Dimensions: 30 x 30 x 42 mm.

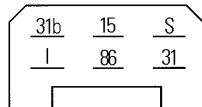
Part no.	Pk.	
5WG 003 620-081	1	Switch, wiping interval, 12V, 6-pole
5WG 003 620-087	196	



Mercedes-Benz

Max. switching current: 10A
Release delay when operating wiping: 4 sec. +/- 1 sec.
Switch-on delay when operating interval: 1 sec.
Break time when operating interval: 5 sec. +/- 1 sec.

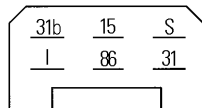
Part no.	Pk.	
5WG 002 450-121	1	Switch, wiping interval, 24V, 6-pole
5WG 002 450-127	25	



Mercedes-Benz

Max. switching current: 3.5A.
Release delay when operating wiping: 4 sec. +/- 1 sec.
Switch-on delay when operating interval: 1 sec.
Break time when operating interval: 5 sec. +/- 1 sec.

Part no.	Pk.	
5WG 002 450-281	1	Switch, wiping interval, 24V, 6-pole



Iveco Magirus, Mercedes-Benz

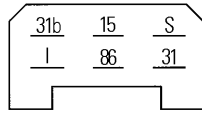
Max. switching current: 10A.
Release delay when operating wiping: 4 sec. +/- 1 sec.
Switch-on delay when operating interval: 1 sec.
Break time when operating interval: 5 sec. +/- 1 sec.

Part no.	Pk.	
5WG 002 450-111	1	Switch, wiping interval, 24V, 6-pole
5WG 002 450-117	25	

Relays, wiping interval for windscreens

Iveco Magirus, Mercedes-Benz

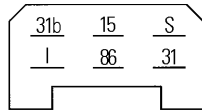
Max. switching current: 3.5A.
 Release delay when operating wiping: 4 sec. +/- 1 sec.
 Switch-on delay when operating interval: 1 sec.
 Break time when operating interval: 5 sec. +/- 1 sec.



Part no.	Pk.	Switch, wiping interval,
5WG 002 450-311	1	12V, 6-pole
5WG 002 450-317	100	
5WG 002 450-291	1	24V, 6-pole
5WG 002 450-297	100	

Bova, Scania, Steyr

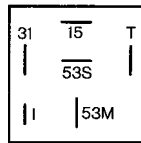
Max. switching current: 3.5A.
 Release delay when operating wiping: 4 sec. +/- 1 sec.
 Switch-on delay when operating interval: 1 sec.
 Break time when operating interval: 5 sec. +/- 1 sec.



Part no.	Pk.	Switch, wiping interval,
5WG 002 450-301	1	24V, 6-pole
5WG 002 450-307	140	

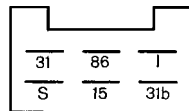
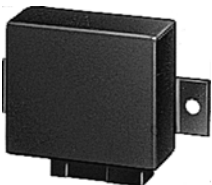
Alfa Romeo, Audi, Citroën, Daihatsu, Ford, Mazda, Mercedes-Benz, Mitsubishi, Opel, Peugeot, Porsche, Renault, Rover, Saab, Seat, Subaru, Suzuki, Skoda, Toyota, Volkswagen, Volvo

Dimensions: 30 x 30 x 42 mm.



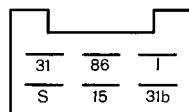
Part no.	Pk.	Switch, wiping interval,
5WG 003 620-081	1	12V, 6-pole
5WG 003 620-087	196	

Mercedes-Benz



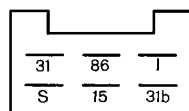
Part no.	Pk.	Switch, wiping interval,
5WG 002 450-281	1	24V, 6-pole
5WG 002 450-287	50	

Iveco Magirus, Mercedes-Benz

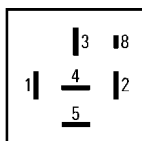


Part no.	Pk.	Switch, wiping interval,
5WG 002 450-311	1	12V, 6-pole
5WG 002 450-317	100	
5WG 002 450-291	1	24V, 6-pole
5WG 002 450-297	100	

Bova, Scania, Steyr



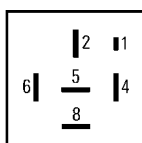
Part no.	Pk.	Switch, wiping interval,
5WG 002 450-301	1	24V, 6-pole
5WG 002 450-307	140	



Relays, Wiping Interval

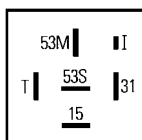
Renault

Part no.	Pk.	
5WG 009 101-051	1	Relay, wiping interval, 12V, 6-pole



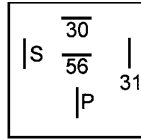
Mitsubishi

Part no.	Pk.	
5WG 009 101-101	1	Relay, wiping interval for rear window, for vehicles with intermittent function, 12V, 6-pole
8PD 009 135-001	1	Adapter for vehicles without intermittent function



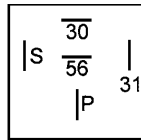
Audi, Volkswagen

Part no.	Pk.	
5WG 009 101-161	1	Relay, wiping interval, 12V, 16-pole



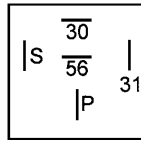
Relays, Headlight Cleaning

Part no.	Pk.	
5WD 005 674-131	1	Relay, headlight cleaning, 12V, 5-pole



Iveco, Mercedes-Benz

Part no.	Pk.	
5WD 005 674-141	1	Relay, headlight cleaning, 24V, 5-pole

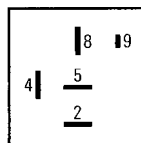


Renault Trucks

Part no.	Pk.	
5WD 003 547-071	1	Relay, headlight cleaning, 24V, 5-pole

Relays, Lock System

BMW
 Z3 10/95->09/98
 3er series (E36) 12/90->09/98
 7er series (E38) 10/94->09/98
 Four 6.3 mm blade terminal contacts.
 One 2.8 mm blade terminal contact.



Part no.	Pk.	
4RA 009 120-001	1	Relay, lock system, 12V, 5-pole



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Product descriptions

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Relays, Fuel Pump

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Relays, Fuel Pump

Alfa Romeo - Citroën



Manufacturer Model Vehicle type	Model Year	Part no.	Note
Alfa Romeo			
75 (162B)	05/85->12/92		
1.8 Turbo i.e. (162.B1E) (🚗AR 06158)		4RP 008 189-111	
Audi			
80 (81, 85, B2)	08/78->08/86		
1.6 (🚗DT); 1.6 (🚗YP); 1.6 GLE (🚗YZ); 2.0 (🚗JS, HP); 2.0 quattro (85Q) (🚗JS); 2.2 (🚗WE);		4RP 008 189-081	
2.2 quattro (85Q) (🚗KK)			
1.8 (🚗SF); 1.8 (🚗DS); 1.8 CC quattro (85Q) (🚗NE, JV); 1.8 (🚗JN);		4RP 008 189-061	
1.8 CC quattro (85Q) (🚗JN)			
1.8 (🚗SF); 1.8 (🚗DS); 1.8 CC quattro (85Q) (🚗NE, JV); 1.8 (🚗JN);		4RP 008 189-071	
1.8 CC quattro (85Q) (🚗JN)			
1.8 GTE (🚗PV); 1.8 GTE quattro (85Q) (🚗PV); 1.8 GTE (🚗DZ); 1.8 GTE quattro (85Q) (🚗DZ)		4RP 008 189-091	
Coupé (81, 85)	07/80->10/88		
1.8 GT (🚗SF); 1.8 GT (🚗DS, JV); 1.8 GT (🚗JN); 1.8 GT (🚗PV); 1.8 GT (🚗DZ)		4RP 008 189-061	
2.0 (🚗JS, HP); 2.0 (🚗SK)		4RP 008 189-071	
2.2 quattro (🚗JT); 2.2 quattro (🚗KV)		4RP 008 189-081	
80 (89, 89Q, 8A, B3)	06/86->10/91		
1.8 (🚗RU); 1.8 S (🚗SF); 1.8 S quattro (🚗SF); 1.8 S (🚗PM, JN, NE);		4RP 008 189-061	
1.8 S quattro (🚗PM, JN, NE); 1.8 E (🚗DZ); 1.8 E quattro (🚗DZ); 1.8 (🚗SD);			
1.8 quattro (🚗SD)			
2.0 (🚗AAD); 2.0 quattro (🚗3A); 2.0 E (🚗3A); 2.0 E quattro (🚗3A); 2.0 quattro (🚗AAD)		4RP 008 189-081	
Coupé (89, 8B)	10/88->12/96		
1.8 (🚗DZ); 2.0 (🚗AAD, ABK)		4RP 008 189-061	
2.0 20 V quattro (🚗NM); 2.2 quattro (🚗KV)		4RP 008 189-071	
90 (81, 85, B2)	08/84->03/87		
2.0 (🚗SK); 2.0 (🚗JS, HP); 2.2 E quattro (🚗JT); 2.2 (🚗KV, HY); 2.2 E quattro (🚗KV);		4RP 008 189-081	
2.2 (🚗KX)			
90 (89, 89Q, 8A, B3)	04/87->09/91		
2.0 (🚗PS)		4RP 008 189-081	
2.2 E (🚗KV); 2.2 E quattro (🚗KV)		4RP 008 189-071	
100 (44, 44Q, C3)	08/82->11/90		
1.8 (🚗DR, RS); 1.8 (🚗SH); 1.8 quattro (🚗SH); 1.8 (🚗DS, NP, JW); 1.8 KAT (🚗PH, 4B);		4RP 008 189-061	
1.8 quattro (🚗NP, JW)			
1.8 (🚗DR, RS); 1.8 (🚗SH); 1.8 quattro (🚗SH); 1.8 (🚗DS, NP, JW); 1.8 quattro (🚗NP, JW);		4RP 008 189-071	
2.0 (🚗SL); 2.0 (🚗KP); 2.1 (🚗WC)			
2.0 KAT (🚗RT); 2.2 (🚗KZ); 2.2 E quattro (🚗PX); 2.2 (🚗KU); 2.2 KAT (🚗KU, HX);		4RP 008 189-081	
2.2 quattro (🚗KU); 2.2 quattro KAT (🚗KU, HX)			
100 Avant (44, 44Q, C3)	08/82->11/90		
1.8 (🚗DR, RS); 1.8 (🚗SH); 1.8 quattro (🚗SH); 1.8 (🚗NP, JW, DS); 1.8 quattro (🚗NP, JW);		4RP 008 189-061	
1.8 quattro KAT (🚗PH, 4B)			
1.8 (🚗DR, RS); 1.8 (🚗SH); 1.8 (🚗NP, JW, DS); 2.0 E (🚗KP); 2.1 (🚗WC)		4RP 008 189-071	
2.0 (🚗SL); 2.0 E KAT (🚗RT); 2.2 (🚗KZ); 2.2 E quattro (🚗PX); 2.2 (🚗KU);		4RP 008 189-081	
2.2 KAT (🚗KU, HX); 2.2 quattro (🚗KU); 2.2 quattro KAT (🚗KU, HX)			
200 (43)	10/79->09/82		
2.1 5 E (🚗WC)		4RP 008 189-081	
2.1 5 T (🚗WJ)		4RP 008 189-071	
200 (44, 44Q)	06/83->12/91		
2.1 5 E (🚗WC); 2.1 Turbo (🚗KG); 2.1 Turbo quattro (🚗KG); 2.2 (🚗KU)		4RP 008 189-081	
200 Avant (44, 44Q)	09/83->12/91		
2.1 Turbo quattro (🚗KG)		4RP 008 189-081	
Citroën			
CX II	07/85->12/92		
25 GTi (🚗M25-668); 25 TRi (🚗M25-659); 25 GTi Turbo 2 (🚗M25-667);		4RP 008 189-111	
25 GTi Turbo 2 (🚗M25-662)			
CX II Break	07/85->12/92		
25 i (🚗M25-668); 25 TRi (🚗M25-659)		4RP 008 189-111	



Relays, Fuel Pump

Ferrari - Opel



Manufacturer Model Vehicle type	Model Year	Part no.	Note
Ferrari			
Mondial	07/80->12/93		
8 (🚗 F 106 B.); 8 Quattrovalvole (🚗 F 105 A.); 3.2 Quattrovalvole (🚗 F 105 C.); 3.4 T (🚗 F 119 D)		4RP 008 189-111	
Mondial Convertible	03/84->12/93		
8 Quattrovalvole (🚗 F 105 A.); 3.2 Quattrovalvole (🚗 F 105 C.); 3.4 T (🚗 F 119 D)		4RP 008 189-111	
Fiat			
Croma (154)	12/85->12/96		
2000 CHT (154.AC) (🚗 154 A1.000); 2000 i.e. (154.AM) (🚗 834 B.048); 2000 i.e. (154.AM, 154.LM) (🚗 154 C3.046, 834 B.146); 2000 i.e. (154.AD) (🚗 834 B.000, 154 C3.000); 2000 16V (🚗 154 E1.000); 2000 i.e. Turbo (154.AM, 154.LM) (🚗 154 C4.046, 834 C.146); 2000 i.e. Turbo (🚗 834 C.146); 2000 i.e. Turbo (154.AM) (🚗 154 A2.000)		4RP 008 189-111	
Uno (146A/E)	01/83->08/00		
1.3 Turbo i.e. (🚗 146 A2.146); 1.3 Turbo i.e. (🚗 146 A2.246); 1.3 Turbo i.e. (🚗 146 A2.000); 1.4 Turbo i.e. (🚗 146 A8.046)		4RP 008 189-111	
Lancia			
Thema (834)	11/84->07/94		
2000 i.e. (🚗 834 B.048); 2000 i.e. (834BV) (🚗 834 B.146); 2000 i.e. (834B) (🚗 834 B.000); 2000 i.e. 16V (834AI) (🚗 834 B2.246); 2000 i.e. Turbo (834CV) (🚗 834 C.146); 2000 16V (834FA) (🚗 834 F1.000); 2000 i.e. Turbo (834C) (🚗 834 C.000); 2000 i.e. 16V Turbo (834AL) (🚗 834 C1.246); 2000 16V Turbo (834AC) (🚗 834 C1.000); 2000 16V Turbo (834GC, 834FC) (🚗 834 F2.000); 8.32 (834FS) (🚗 F 105 L.046); 8.32 (834F) (🚗 F 105 L)		4RP 008 189-111	
Thema SW (834)	03/87->07/94		
2000 i.e. 16V (834AI) (🚗 834 B2.246); 2000 Turbo (🚗 834 C.146); 2000 16V (834FA) (🚗 834 F1.000); 2000 i.e. 16V Turbo (834AL) (🚗 834 C1.246); 2000 i.e. 16V Turbo (834AC) (🚗 834 C1.000); 2000 Turbo 16V (834GC, 834FC) (🚗 834 F2.000)		4RP 008 189-111	
Opel			
Ascona C CC (84_, 89_)	09/81->08/88		
1.8 E (🚗 C 18 NE, S 18 NV); 1.8 i (🚗 18 E)		4RP 008 189-041	
2.0 i (🚗 20 NE); 2.0 i KAT (🚗 C 20 NE); 2.0 i GT (🚗 20 SEH)		4RP 008 189-051	
Ascona C (81_, 86_, 87_, 88_)	09/81->10/88		
1.8 E (🚗 C 18 NE, S 18 NV); 1.8 i (🚗 18 E)		4RP 008 189-041	
2.0 i (🚗 C 20 NEF); 2.0 i (🚗 20 NE); 2.0 i KAT (🚗 C 20 NE); 2.0 i GT (🚗 20 SEH)		4RP 008 189-051	
Astra F CC (53_, 54_, 58_, 59_)	09/91->01/98		
1.8 i (🚗 C 18 NZ); 1.8 i 16V (🚗 C 18 XEL, X 18 XE); 1.8 i 16V (🚗 C 18 XE); 2.0 i (🚗 C 20 NE); 2.0 i 16V (🚗 X 20 XEV); 2.0 GSI 16V (🚗 C 20 XE)		4RP 008 189-051	
Astra F (56_, 57_)	09/91->09/98		
1.8 i (🚗 C 18 NZ); 1.8 i 16V (🚗 C 18 XEL, X 18 XE); 1.8 i 16V (🚗 C 18 XE); 2.0 i (🚗 C 20 NE); 2.0 i 16V (🚗 X 20 XEV)		4RP 008 189-051	
Astra F Estate (51_, 52_)	09/91->01/98		
1.8 i (🚗 C 18 NZ); 1.8 i 16V (🚗 C 18 XEL, X 18 XE); 1.8 i 16V (🚗 C 18 XE); 2.0 i (🚗 C 20 NE); 2.0 i 16V (🚗 X 20 XEV); 2.0 i 16V (🚗 C 20 XE)		4RP 008 189-051	
Astra F Convertible (53_B)	03/93->03/01		
1.8 i 16V (🚗 C 18 XEL, X 18 XE); 2.0 i (🚗 C 20 NE)		4RP 008 189-051	
Calibra A (85_)	06/90->07/97		
2.0 i (🚗 C 20 NE); 2.0 i 4x4 (🚗 C 20 NE); 2.0 i 16V (🚗 X 20 XEV); 2.0 i 16V 4x4 (🚗 X 20 XEV); 2.0 i Turbo 4x4 (🚗 C 20 LET)		4RP 008 189-051	
Corsa A CC (93_, 94_, 98_, 99_)	09/82->03/93		
1.6 GSI (🚗 C 16 SEI); 1.6 GSI (🚗 E 16 SE); 1.6 GSI KAT (🚗 C 16 SE)		4RP 008 189-051	
Frontera A Sport (5_SUD2)	03/92->10/98		
2.0 i (52SUD2, 55SUD2) (🚗 C 20 NE, X 20 SE)		4RP 008 189-051	
Frontera A (5_MWL4)	03/92->10/98		
2.4 i (53MWL4) (🚗 C 24 NE)		4RP 008 189-051	



Relays, Fuel Pump

Opel - Peugeot



Manufacturer Model Vehicle type	Model Year	Part no.	Note
Opel			
Kadett D (31_, 34_, 41_, 44_)	08/79->08/84		
1.8 GT/E (18 E)		4RP 008 189-041	
Kadett E CC (33_, 34_, 43_, 44_)	09/84->08/91		
1.6 i (E 16 NZ); 1.6 i KAT (C 16 LZ, C 16 NZ); 1.8 i (C 18 NT, C 18 NZ, S 18 NV); 2.0 GSI (20 NE); 2.0 GSI KAT (C 20 NE); 2.0 GSI (20 SEH); 2.0 GSI 16V (20 XEJ); 2.0 GSI 16V KAT (C 20 XE)		4RP 008 189-051	
1.8 i (C 18 NT, C 18 NZ, S 18 NV); 1.8 E (C 18 NE); 1.8 GSI (18 E)		4RP 008 189-041	
Kadett E (39_, 49_)	09/84->08/91		
1.6 i (E 16 NZ); 1.6 i KAT (C 16 LZ, C 16 NZ); 1.8 i (C 18 NT, C 18 NZ); 1.8 (18 E); 2.0 i (20 NE); 2.0 i KAT (C 20 NE)		4RP 008 189-051	
1.8 i (C 18 NE); 1.8 i (18 E)		4RP 008 189-041	
Kadett E Estate (35_, 36_, 45_, 46_)	09/84->08/91		
1.6 i (E 16 NZ); 1.6 i KAT (C 16 LZ, C 16 NZ); 1.8 i (C 18 NT, C 18 NZ); 2.0 i (20 NE); 2.0 i KAT (C 20 NE)		4RP 008 189-051	
1.8 i (C 18 NT, C 18 NZ); 1.8 E (C 18 NE)		4RP 008 189-041	
Kadett E Convertible (43B_)	10/86->02/93		
1.4 i (C 14 NZ)		4RP 008 189-041	
1.6 i (E 16 NZ); 1.6 i KAT (C 16 LZ, C 16 NZ); 1.6 i (16 SV); 2.0 i (20 NE); 2.0 i KAT (C 20 NE)		4RP 008 189-051	
Kadett E Combo (38_, 48_)	01/86->07/94		
1.6 i (C 16 NZ)		4RP 008 189-051	
Manta B (58_, 59_)	09/75->08/88		
2.0 E (20 E); 2.4 400 (24 E)		4RP 008 189-041	
Manta B CC (53_, 55_)	09/75->08/88		
2.0 E (20 E)		4RP 008 189-041	
Monza A (22_)	02/78->08/86		
2.5 E (H 25 E); 2.5 E (25 E); 3.0 GSE (30 E); 3.0 GSE (C 30 LE)		4RP 008 189-041	
Omega A (16_, 17_, 19_)	09/86->05/94		
1.8 N (18 NV); 1.8 (E 18 NVR); 1.8 S (18 SV); 1.8 (18 SEH); 2.0 (C 20 NEJ); 2.0 (C 20 NEF); 2.0 i (C 20 NE); 2.0 (20 SE); 2.4 i (C 24 NE); 2.6 i (C 26 NE); 3.0 (3000) (C 30 LE); 3.0 (3000) (30 NE); 3.0 (3000) KAT (C 30 NE); 3.0 24V (3000) (C 30 SEJ); 3.0 24V (3000) (C 30 SE); 3.0 24V Evolution500 (C 30 XEJ); 3.6 24V Lotus (C 36 GET)		4RP 008 189-051	
Omega A Estate (66_, 67_)	09/86->05/94		
1.8 N (18 NV); 1.8 (E 18 NVR); 1.8 S (18 SV); 1.8 (18 SEH); 2.0 i (C 20 NEJ); 2.0 (C 20 NEF); 2.0 i (C 20 NE); 2.0 (20 SE); 2.4 i (C 24 NE); 2.6 i (C 26 NE); 3.0 (C 30 LE); 3.0 (30 NE); 3.0 KAT (C 30 NE); 3.0 24V (C 30 SEJ)		4RP 008 189-051	
Rekord E (17_, 19_, 11_, 14_, 16_)	08/77->08/86		
1.8 E (C 18 NV); 2.0 E (20 E); 2.2 E (22 E)		4RP 008 189-041	
Rekord E Estate (61_, 66_, 67_)	08/77->08/86		
1.8 E (C 18 NV); 2.0 E (20 E); 2.2 E (22 E)		4RP 008 189-041	
Senator A (29_)	02/78->08/87		
2.5 E (H 25 E); 2.5 E (25 E); 3.0 E (30 E)		4RP 008 189-041	
Vectra A CC (88_, 89_)	04/88->11/95		
2.0 i (20 NE); 2.0 i KAT (C 20 NE); 2.0 i GT (20 SEH); 2.0 i 16V (X 20 XEV); 2.0 i 16V (20 XEJ); 2.0 i 16V KAT (C 20 XE)		4RP 008 189-051	
Vectra A (86_, 87_)	08/88->11/95		
2.0 i (20 NE); 2.0 i KAT (C 20 NE); 2.0 i 4x4 (20 NE); 2.0 i 4x4 KAT (C 20 NE); 2.0 i (20 SEH); 2.0 i 4x4 (20 SEH); 2.0 i 16V (X 20 XEV); 2.0 i 16V 4x4 (X 20 XEV); 2000/GT 16V (20 XEJ); 2000/GT 16V KAT (C 20 XE); 2000 16V 4x4 (20 XEJ); 2000/GT 16V 4x4 KAT (C 20 XE); 2.0 i Turbo 4x4 (C 20 LET)		4RP 008 189-051	
Peugeot			
205 I (741A/C)	02/83->10/87		
1.6 GTI (180A (XU5J)); 1.9 GTI (DFZ (XU9J1)); 1.9 GTI (D6B (XU9JA (w/o KAT)))		4RP 008 189-111	
205 I Convertible (741B, 20D)	04/86->12/94		
1.6 CTI (180A (XU5J), 180Z (XU5J)); 1.9 CTI (DFZ (XU9J1))		4RP 008 189-111	



Relays, Fuel Pump

Peugeot - Vauxhall



2

Manufacturer Model Vehicle type	Model Year	Part no.	Note
Peugeot			
205 II (20A/C)	01/87->09/98		
1.6 GTI (🚗180Z (XU5J), 180A (XU5J)); 1.6 GTIY; 1.9 GTI (🚗D2A (XU92C)); 1.9 GTI KAT (🚗DFZ (XU9J1)); 1.9 GTI (🚗DKZ (XU9JAZ)); 1.9 GTI (🚗D6B (XU9JA (G-KAT)))		4RP 008 189-111	
505 (551A)	05/79->12/93		
2.2 GTI (🚗851B (ZDJL)); 2.2 GTIY		4RP 008 189-111	
505 Break (551D)	04/82->12/93		
2.2 GTI (🚗851B (ZDJL))		4RP 008 189-111	
Seat			
Ibiza I (021A)	06/84->12/93		
1.5 i (🚗021 D.2000); 1.5 i KAT (🚗021 C.2000); 1.5 i (🚗021 B.2000)		4RP 008 189-111	
Malaga (023A)	11/84->12/93		
1.5 i KAT (🚗021 D.2000, 021 C.2000, 021 A 2000); 1.5 i (🚗021 B.2000)		4RP 008 189-111	
Vauxhall			
Astra CC	09/79->08/86		
1.8 GTE (🚗18 E)		4RP 008 189-041	
Astra Mk II CC	09/84->08/91		
1.8 GTE (🚗18 E, 18 SE)		4RP 008 189-041	
1.8 GTE (🚗18 E, 18 SE); 2.0 GTE (🚗20 SEH); 2.0 GTE 16V (🚗20 XE)		4RP 008 189-051	
Astra Mk II Belmont	09/85->12/91		
1.8 (🚗18 SE); 1.8 i (🚗18 E, 18 SE)		4RP 008 189-051	
Astra Mk III CC	09/91->02/98		
2.0 i (🚗C 20 NE); 2.0 i 16V (🚗C 20 XE)		4RP 008 189-051	
Astra Mk III	09/91->09/98		
2.0 i (🚗C 20 NE); 2.0 i 16V (🚗X 20 XEV)		4RP 008 189-051	
Astra Mk III Estate	03/91->02/98		
2.0 i (🚗C 20 NE)		4RP 008 189-051	
Astra Mk III Convertible	03/93->03/01		
2.0 i (🚗C 20 NE)		4RP 008 189-051	
Calibra	06/90->07/97		
2.0 i (🚗C 20 NE); 2.0 i 4x4 (🚗C 20 NE); 2.0 i 16V (🚗X 20 XEV); 2.0 i 16V 4x4 (🚗X 20 XEV); 2.0 i 16V (🚗C 20 XE); 2.0 i 16V 4x4 (🚗C 20 XE); 2.0 i Turbo 4x4 (🚗C 20 LET)		4RP 008 189-051	
Carlton Mk III	09/86->03/94		
1.8 i (🚗18 SEH); 2.0 i (🚗20 SE); 2.4 i (🚗C 24 NE); 2.6 i (🚗C 26 NE)		4RP 008 189-051	
3000 (🚗C 30 LE); 3.0 3000 (🚗30 NE); 3000 KAT (🚗C 30 NE)		4RP 008 189-041	
Carlton Mk III Estate	09/86->03/94		
1.8 i (🚗18 SEH); 2.0 i (🚗C 20 NEJ); 2.0 i (🚗20 SE); 2.4 i (🚗C 24 NE); 2.6 i (🚗C 26 NE)		4RP 008 189-051	
3.0 (🚗C 30 NE)		4RP 008 189-041	
Cavalier Mk II CC	09/81->08/88		
1.8 i (🚗18 SE); 1.8 i (🚗18 E)		4RP 008 189-041	
1.8 i (🚗18 SE); 1.8 i (🚗18 E); 2.0 i KAT (🚗C 20 NE)		4RP 008 189-051	
Cavalier Mk II	09/81->08/88		
1.8 i KAT (🚗C 18 NE); 1.8 i (🚗18 SE); 1.8 i (🚗18 E)		4RP 008 189-041	
1.8 i KAT (🚗C 18 NE); 1.8 i (🚗18 SE); 1.8 i (🚗18 E); 2.0 i (🚗20 NE); 2.0 i KAT (🚗C 20 NE); 2.0 SRi 130 (🚗20 SEH)		4RP 008 189-051	
Cavalier Mk II Estate	09/81->08/88		
1.8 i (🚗18 E, 18 SE)		4RP 008 189-041	
1.8 i (🚗18 E, 18 SE)		4RP 008 189-051	
Cavalier Mk III CC	09/88->11/95		
2.0 i (🚗20 NE); 2.0 SRi (🚗20 SEH); 2.0 i 16V (🚗C 20 XE)		4RP 008 189-051	
Cavalier Mk III (87)	09/88->11/95		
2.0 i (🚗20 NE); 2.0 SRi (🚗20 SEH); 2.0 i 4x4 (🚗20 SEH); 2.0 SRi 16V (🚗X 20 XEV); 2.0 i 16V (🚗C 20 XE); 2.0 i 16V 4x4 (🚗C 20 XE)		4RP 008 189-051	



Relays, Fuel Pump

Vauxhall - Volkswagen



Manufacturer Model Vehicle type	Model Year	Part no.	Note
Vauxhall			
Frontera Sport	03/92->10/98		
2.0 i (C 20 NE, X 20 SE)		4RP 008 189-051	
Frontera	03/92->10/98		
2.4 i (C 24 NE)		4RP 008 189-051	
Nova CC	05/83->03/93		
1.6 GSI (C 16 SEI); 1.6 GSI (E 16 SE); 1.6 GSI KAT (C 16 SE)		4RP 008 189-051	
Senator Mk II	09/87->09/93		
2.6 i (C 26 NE); 3.0 (C 30 LE); 3.0 (30 NE); 3.0 i KAT (C 30 NE)		4RP 008 189-041	
3.0 24V (C 30 SE)		4RP 008 189-051	
Volkswagen			
Caddy I (14)	08/82->07/92		
1.8 (JH)		4RP 008 189-091	
Golf I (17)	04/74->12/85		
1.8 GTI (DX, JJ)		4RP 008 189-081	
Golf I Convertible (155)	01/79->08/93		
1.8 (EX); 1.8 (JH); 1.8 (2H); 1.8 (DX, EV, PB)		4RP 008 189-091	
Golf II (19E, 1G1)	08/83->12/92		
1.8 (RH); 1.8 i Syncro KAT (RP); 1.8 Syncro (1P)		4RP 008 189-071	
1.8 (GX, GU, HV); 1.8 i KAT (RP, GX); 1.8 Syncro (GX, GU)		4RP 008 189-061	
		4RP 008 189-071	
1.8 GTI (RD); 1.8 GTI KAT (PF)		4RP 008 189-091	
1.8 GTI (EV, PB, GZ, DX)		4RP 008 189-061	to year 85
		4RP 008 189-091	
Jetta I (16)	08/78->02/84		
1.8 (DX, JJ)		4RP 008 189-081	
Jetta II (19E, 1G2)	01/84->12/92		
1.8 (RH); 1.8 (RD)		4RP 008 189-071	
		4RP 008 189-091	equipment version GT
1.8 (GX, GU, HV)		4RP 008 189-061	
1.8 KAT (RP, GX)		4RP 008 189-061	
		4RP 008 189-071	
1.8 Syncro (RP); 1.8 Syncro (1P); 1.8 KAT (PF)		4RP 008 189-071	
1.8 (EV, PB, GZ)		4RP 008 189-061	to year 85
		4RP 008 189-071	
		4RP 008 189-091	equipment version GT
Passat (32B)	08/80->12/88		
1.8 (DS, JN, JV)		4RP 008 189-061	
2.0 (JS, HP); 2.2 (KX); 2.2 (KV)		4RP 008 189-081	
Passat Saloon (32B)	08/84->03/88		
1.8 (DS, JN)		4RP 008 189-061	
2.2 (KX)		4RP 008 189-081	
Passat Estate (32B)	08/80->06/89		
1.8 (DS, JN, JV); 1.8 Syncro (DS, JN)		4RP 008 189-061	
2.0 (JS, HP); 2.0 Syncro (JS); 2.2 (KX); 2.2 Syncro (JT); 2.2 (KV)		4RP 008 189-081	
Scirocco (53B)	08/80->07/92		
1.8 (JH)		4RP 008 189-061	from chas. no. 53G-000 001

12 V
4RP 008 189-041 Opel, Vauxhall

12 V
4RP 008 189-081 Audi, Volkswagen

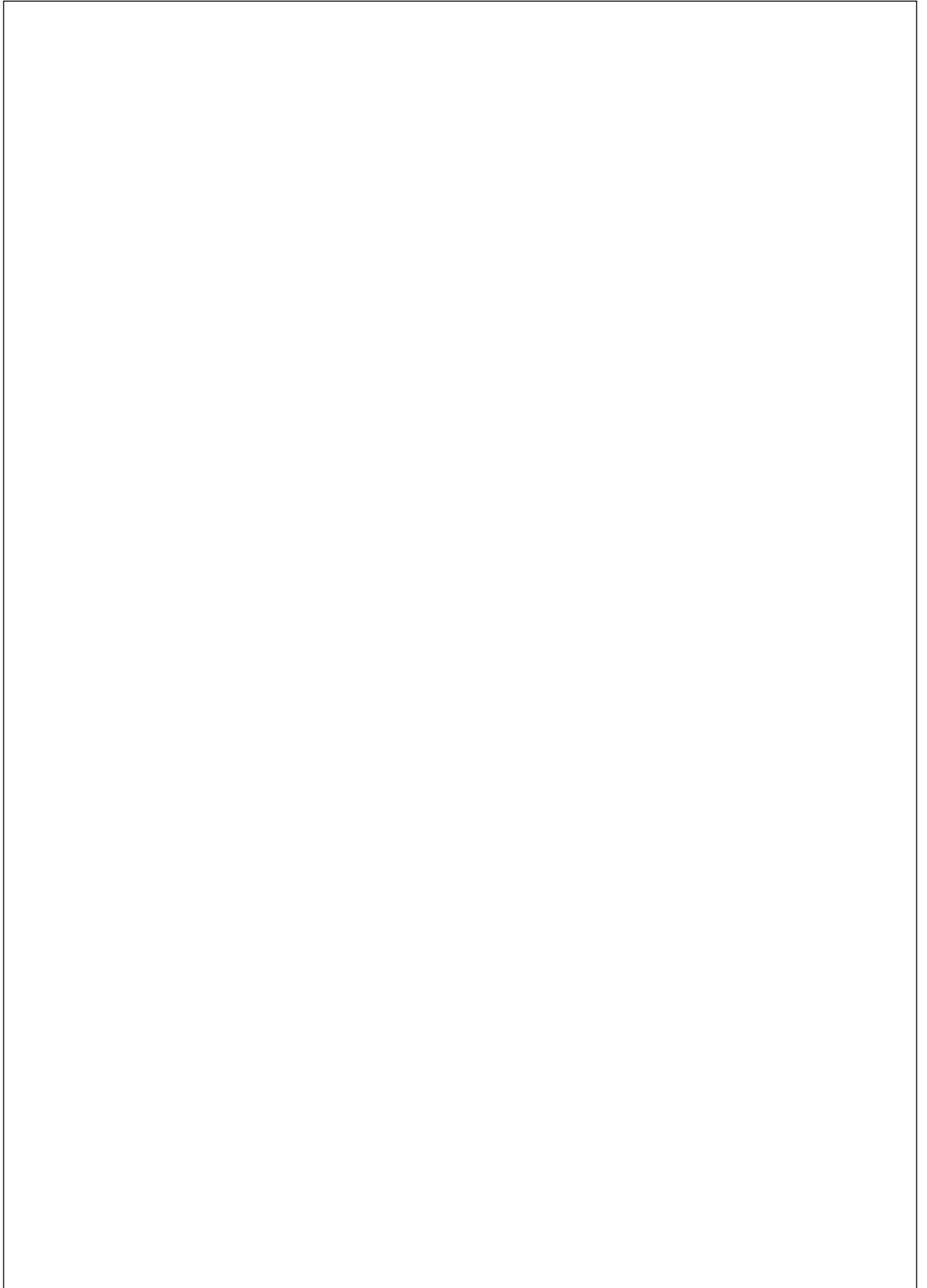
12 V
4RP 008 189-051 Opel, Vauxhall

12 V
4RP 008 189-091 Audi, Volkswagen

12 V
4RP 008 189-061 Audi, Volkswagen

12 V
4RP 008 189-111 Alfa Romeo, Citroën, Ferrari, Fiat, Lancia, Peugeot, Seat

12 V
4RP 008 189-071 Audi, Volkswagen





Switches in model range 354 100-..., 004 100-..., 007 832-..., 008 948-..., 004 570-..., 008 910-...	3.02-3.45
Symbol cards	3.33-3.45
Rocker switches	3.46-3.48
Blower switch	3.49
Toggle switches	3.48-3.50
Switches/door contact	3.50-3.52
Push-button switches	3.52-3.57
Stop-light switches	3.57, 3.60
Push-pull switches	3.58-3.60
Push-pull rotary switches	3.61
Rotary switches	3.60-3.63
Regulating switch	3.61
Pre-heating starter switches	3.63
Ignition and starter switches	3.63
Steering column mounted switches	3.64-3.65
Battery master switches	3.66-3.69
Foot-operated dipper switch	3.69
Foot-operated switches	3.70
Loading platform switches	3.70
Pressure and tappet switches	3.71

The vehicle application overviews can be found in the Hella Online Catalogue and TecDoc

Module switch generation 354 100

For particularly energy-efficient & maintenance-free interior applications in commercial vehicles, passenger cars, agricultural and construction machines, as well as special vehicles.

Energy efficiency:

The increase in control electronics components makes particular demands on a vehicle's energy system.

Since the power supply causes high costs, the trend is toward very low control currents that must be switched in a reliable manner.

The Hella solution:

Frictional snap-in system as well as selected contact combinations.

The AgNi standard version makes reliable switching functions possible even in the mA range.

Likewise, particularly efficient power LED light sources help to reduce the power requirements as compared to previous switch ranges by up to 70% per switch.

Maintenance-free:

The user expects reliable and maintenance-free function over the entire vehicle life. In particular, the service life (cycles) of the contact system, as well as the service life of the light source are the influencing parameters.

Hella offers its customers the particularly wear-resistant "microswitch system". Thanks to the frictional snap-in system, wear and contamination of the contact surfaces are minimized with every switching operation.

The average service life of an LED is up to 100.000 hours.

An additional feature is the use of 4 light sources.

In this way, all switching conditions can be confirmed in the best possible way (2 location and 2 function lights).



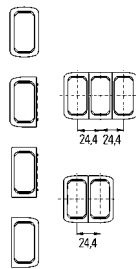
Accessories see page 3.09, 3.33 - 3.45

Mounting frame:

A modular system with a new design makes all installation configurations possible.

Indicator lamps:

For safety-relevant or special applications, a reliable indicator lamp can be delivered that provides information about the switching condition in a non-local manner.



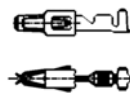
Cover plug



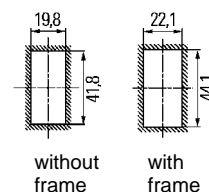
Socket



Junior Power Timer



Mounting aperture



Technical details:

Rocker material:	PC transparent, painted
Base material:	PA white, housing PA black
Connection contacts:	3.0 mm Junior Power Timer
Switch-contact coating:	AgNi
Flat receptacle:	2.8 mm Junior Power Timer, with AgNi coating
Light source:	Max. 4 LEDs: 2 x location lighting, green 2 x function lighting, red
Symbol type:	Laser-applied in accordance with catalog or customer-specifically in dxf format
Service life:	5 mA/450.000 cycles 5A/24V inductive/270.000 cycles 4A/24V bulb (75W)/90.000 cycles 10A/24V ohmic/80.000 cycles
Type of protection:	IP 32
Operating temperature:	-40 °C to + 85 °C
Storage temperature:	-40 °C to +100 °C
Dash board thickness:	If the switch is installed directly: 2 mm
Accessories:	Single and series mounting frame, connector skirt available

You can find further information, including ordering notes, at

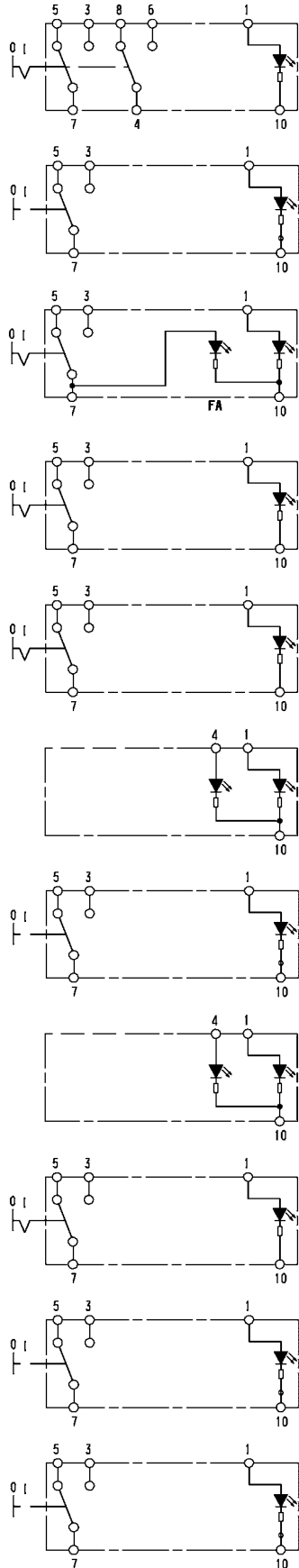
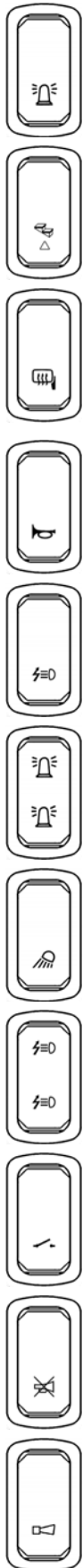
www.hella.de/modulschalter
www.hella.com/rockerswitch



Universal flush-fit Switches

Small range of customer's favorites

Module switches, 12V



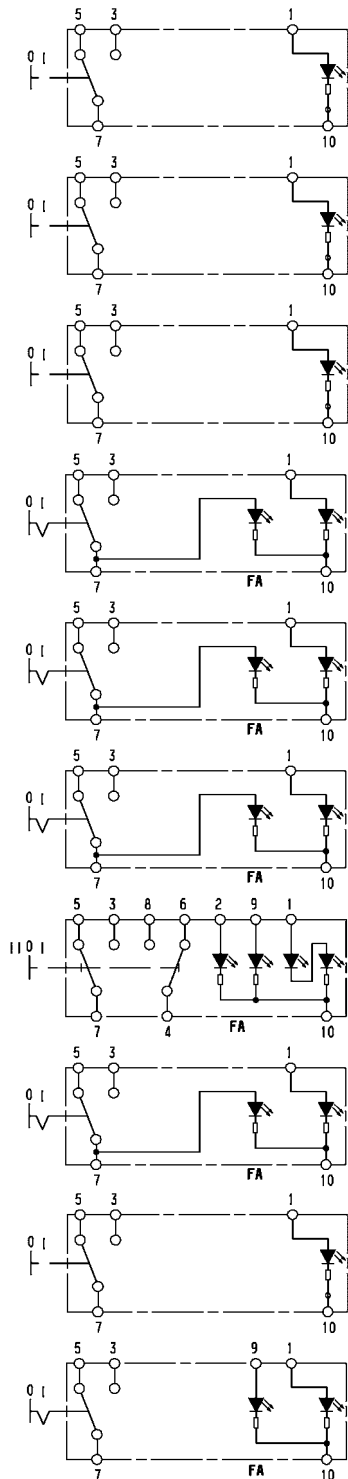
Part no.	Pk.	Function
6FH 354 100-701	1	Function 03 Change-over, locking, locking function, 1-pole, 1-stage
6FH 354 100-687	100	Function 07 Change-over, key, 1-pole, 1-stage
6FH 354 100-671 6FH 354 100-677	1 100	Function 01 Change-over, locking, 1-pole, 1-stage
6FH 354 100-691	1	Function 00 Change-over, locking, 1-pole, 1-stage
6FH 354 100-721	1	Function 00 Change-over, locking, 1-pole, 1-stage
2AA 354 100-751	1	Function 79 Indicator light for illumination of symbol fields 1 and 2
6FH 354 100-741	1	Function 07 Change-over, key, 1-pole, 1-stage
2AA 354 100-761	1	Function 79 Indicator light for illumination of symbol fields 1 and 2
6FH 354 101-401	1	Function 00 Change-over, locking, 1-pole, 1-stage
6FH 354 101-271	1	Function 07 Change-over, key, 1-pole, 1-stage
6FH 354 101-261	1	Function 07 Change-over, key, 1-pole, 1-stage

Universal flush-fit Switches

Small range of customer's favorites

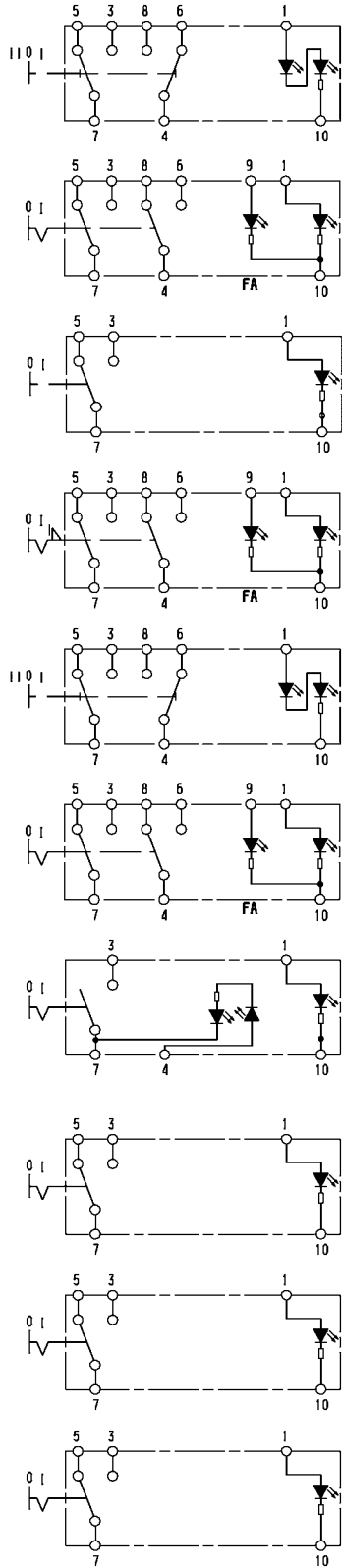
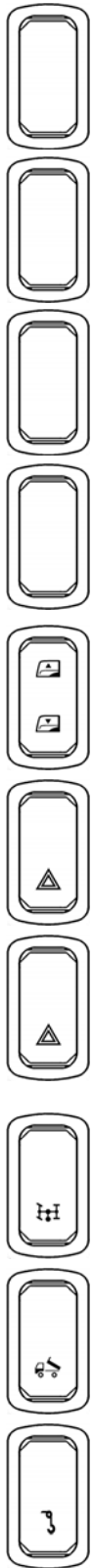


Module switches, 12V



Part no.	Pk.	Function
6FH 354 101-231	1	Function 07
		Change-over, key, 1-pole, 1-stage
6FH 354 101-241	1	Function 07
		Change-over, key, 1-pole, 1-stage
6FH 354 101-281	1	Function 07
		Change-over, key, 1-pole, 1-stage
6FH 354 103-671	1	Function 01
		Change-over, locking, 1-pole, 1-stage
6FH 354 103-621	1	Function 01
		Change-over, locking, 1-pole, 1-stage
6FH 354 103-601	1	Function 01
		Change-over, locking, 1-pole, 1-stage
6FH 354 103-592	12	Function 21
		Change-over, key, 2 x 1-pole, 2-stage
6FH 354 103-611	1	Function 01
		Change-over, locking, 1-pole, 1-stage.
6FH 354 100-682	12	Function 07
		Change-over, key, 1-pole, 1-stage
6FH 354 103-922	12	Function 08
		Change-over, locking, 1-pole, 1-stage

Module switches, 24V



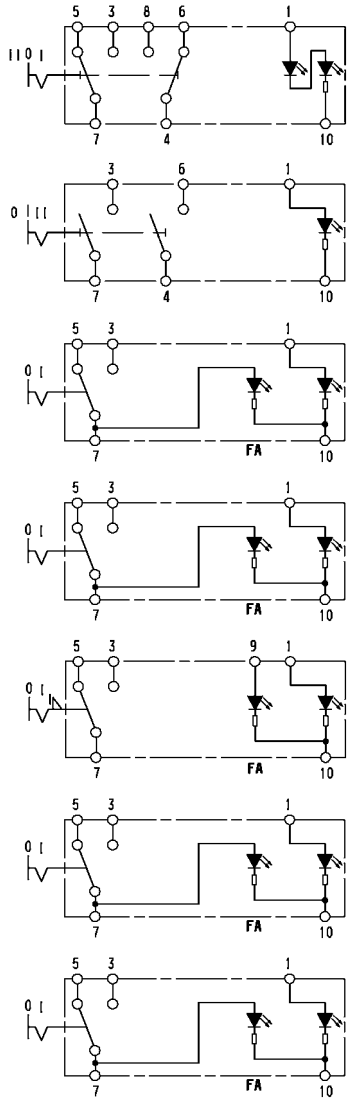
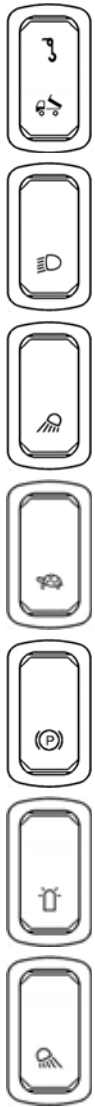
Part no.	Pk.	Function
6FH 354 101-922	12	Function 15 Change-over, key, 2 x 1-pole, 2-stage
6FH 354 102-992	12	Function 11 Change-over, locking, 2-pole, 1-stage
6FH 354 102-972	12	Function 07 Change-over, key, 1-pole, 1-stage
6FH 354 103-002	12	Function 12 Change-over, locking, locking function, 2-pole, 1-stage
6FH 354 102-441	1	Function 15 Change-over, key, 2 x 1-pole, 2-stage
6FH 354 102-401	1	Function 11 Change-over, locking, 2-pole, 1-stage
6FH 354 100-532	12	Function 25 Hazard warning switch, normally open, locking, 1-pole, 1-stage
6FH 354 104-212	12	Function 00 Change-over, locking, 1-pole, 1-stage
6FH 354 104-222	12	Function 00 Change-over, locking, 1-pole, 1-stage
6FH 354 104-232	12	Function 00 Change-over, locking, 1-pole, 1-stage

Universal flush-fit Switches

Small range of customer's favorites



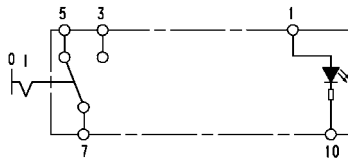
Module switches, 24V



Part no.	Pk.	Function
6FH 354 104-242	12	Function 14 Change-over, locking, 2 x 1-pole, 2-stage
6FH 354 100-521	1	Function 24 Change-over, locking, 2 x 1-pole, 2-stage
6FH 354 100-831	1	Function 01 Change-over, locking, 1-pole, 1-stage
6FH 354 102-301	1	Function 01 Change-over, locking, 1-pole, 1-stage
6FH 354 103-251	1	Function 09 Change-over, locking, locking function, 1-pole, 1-stage
6FH 354 101-651	1	Function 01 Change-over, key, 1-pole, 1-stage
6FH 354 102-261	1	Function 01 Change-over, key, 1-pole, 1-stage

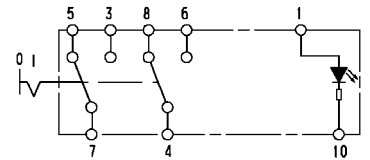
Function 00

**Change-over, locking,
1-pole, 1-stage.**
Symbol illumination:
1 x function indication



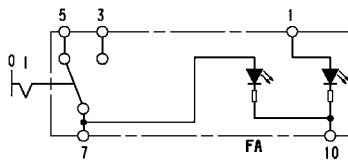
Function 03

**Change-over, locking,
2-pole, 1-stage.**
Symbol illumination:
1 x function indication



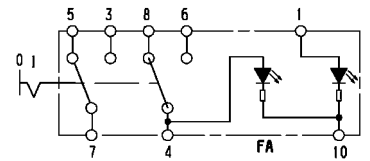
Function 01

**Change-over, locking,
1-pole, 1-stage.**
Symbol illumination:
1 x function indication
(1 x internal)



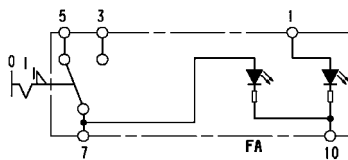
Function 04

**Change-over, locking,
2-pole, 1-stage.**
Symbol illumination:
1 x function indication
(1 x internal)



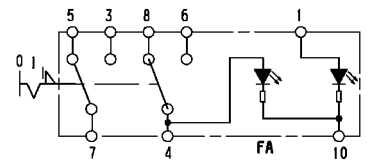
Function 02

**Change-over, locking,
locking function,
1-pole, 1-stage.**
Symbol illumination:
1 x function indication
(1 x internal)



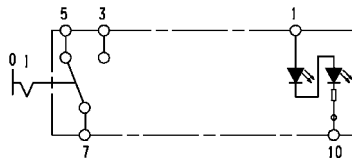
Function 05

**Change-over, locking,
locking function,
2-pole, 1-stage.**
Symbol illumination:
1 x function indication
(1 x internal)



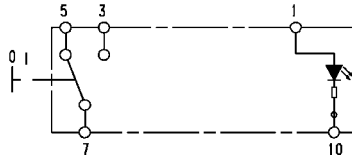
Function 06

Change-over, locking, 1-pole, 1-stage.
 Symbol illumination:
 2 x function indication



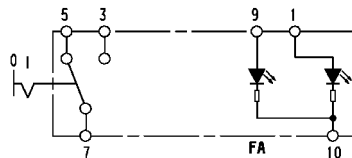
Function 07

Change-over, key, 1-pole, 1-stage.
 Symbol illumination:
 1 x function indication



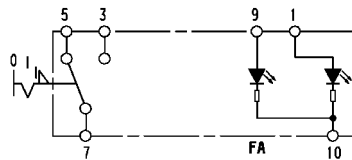
Function 08

Change-over, locking, 1-pole, 1-stage.
 Symbol illumination:
 1 x function indication
 (1 x external)



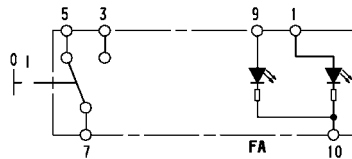
Function 09

Change-over, locking, locking function, 1-pole, 1-stage.
 Symbol illumination:
 1 x function indication
 (1 x external)



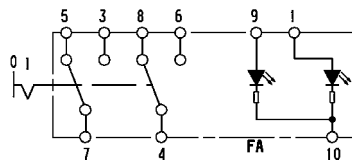
Function 10

Change-over, key, 1-pole, 1-stage.
 Symbol illumination:
 1 x function indication
 (1 x external)



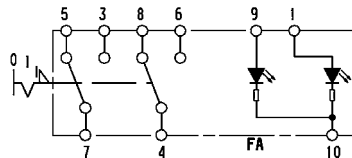
Function 11

Change-over, locking, 2-pole, 1-stage.
 Symbol illumination:
 1 x function indication
 (1 x external)



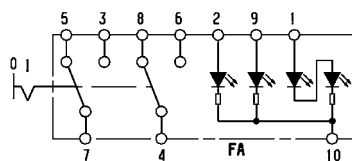
Function 12

Change-over, locking, locking function, 2-pole, 1-stage.
 Symbol illumination:
 1 x function indication
 (1 x external)



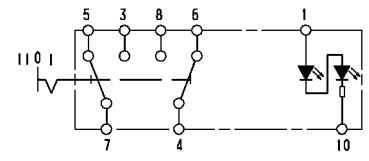
Function 13

Change-over, locking, 2-pole, 1-stage.
 Symbol illumination:
 2 x function indication
 (2 x external)



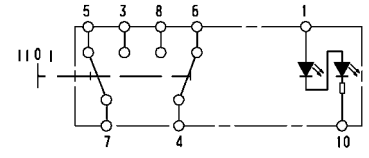
Function 14

Change-over, locking, 2 x 1-pole, 2-stage.
 Symbol illumination:
 2 x function indication



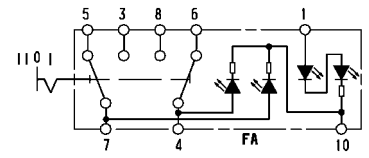
Function 15

Change-over, key, 2 x 1-pole, 2-stage.
 Symbol illumination:
 2 x function indication



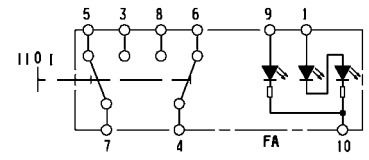
Function 16

Change-over, locking, 2 x 1-pole, 2-stage.
 Symbol illumination:
 2 x function indication
 (2 x internal)



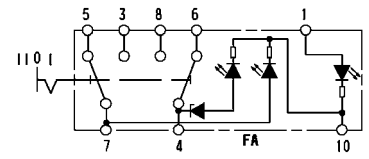
Function 17

Change-over, key, 2 x 1-pole, 2-stage.
 Symbol illumination:
 2 x function indication
 (1 x external)



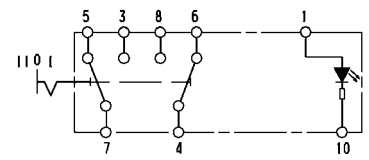
Function 18

Change-over, locking, 2 x 1-pole, 2-stage.
 Symbol illumination:
 1 x function indication
 (2 x internal)
 1 x protective diode



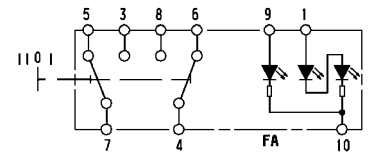
Function 19

Change-over, locking, 2 x 1-pole, 2-stage.
 Symbol illumination:
 1 x function indication



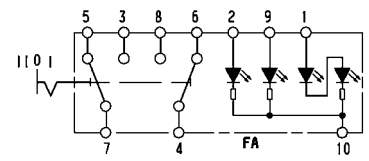
Function 20

Change-over, key, 2 x 1-pole, 2-stage.
 Symbol illumination:
 2 x function indication
 (1 x external)



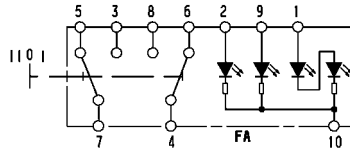
Function 21

Change-over, locking, 2 x 1-pole, 2-stage.
 Symbol illumination:
 2 x function indication
 (2 x external)



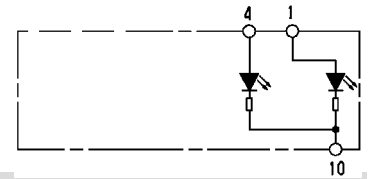
Function 22

**Change-over, key,
2 x 1-pole, 2-stage.**
Symbol illumination:
2 x function indication
(2 x external)



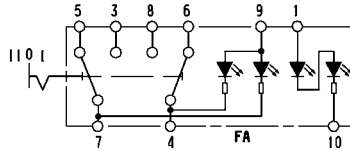
Function 79

**Indicator light for
illumination of symbol fields
1 and 2.**
Illumination color green.



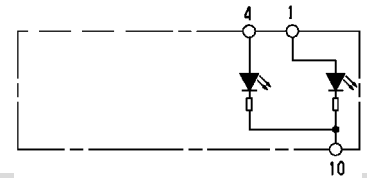
Function 23

**Change-over, locking,
2 x 1-pole, 2-stage.**
Symbol illumination:
2 x function indication
(2 x external)



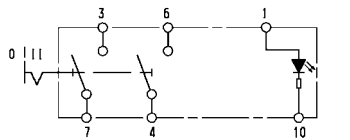
Function 80

**Indicator light for
illumination of symbol fields
1 and 2.**
Illumination color blue.



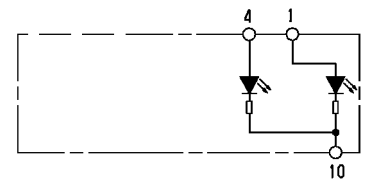
Function 24

**Normally open, locking,
2 x 1-pole, 2-stage.**
Symbol illumination:
1 x function indication



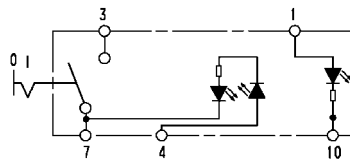
Function 81

**Indicator light for
illumination of symbol fields
1 and 2.**
Illumination color orange.



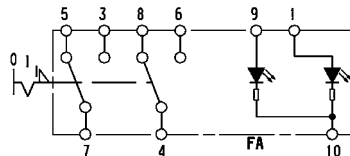
Function 25

**Hazard warning switch,
Normally open, locking,
1-pole, 1-stage.**
Symbol illumination
1 x function indication
(1 x internal)



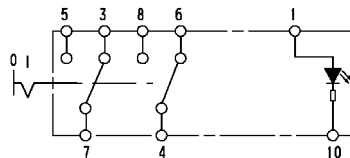
Function 28

**Change-over, locking,
locking function,
2-pole, 1-stage.**
Yellow cap.
Symbol illumination:
1 x function indication
(1 x internal)



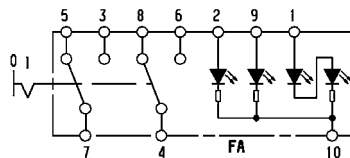
Function 29

**Change-over, key,
2-pole, 1-stage.**
Symbol illumination:
1 x function indication



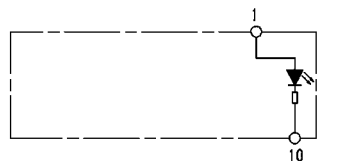
Function 30

**Change-over, locking,
2-pole, 1-stage.**
Red cap.
Symbol illumination:
2 x function indication (2 x external)



Function 78

**Indicator light for
illumination of symbol fields 1.**
Illumination color green.





Modular mounting-panel system

Black. 2 end pieces and 1 middle piece are needed to make a mounting panel. By adding middle pieces, this panel can be extended as required.

Part no.	Pk.	
9AR 168 396-002	10	Single frame
9AR 168 396-007	200	
9AR 169 208-002	10	Middle piece
9AR 169 208-007	200	
9AR 169 209-002	10	End piece, left
9AR 169 209-007	100	
9AR 169 210-002	10	End piece, right
9AR 169 210-007	200	



Cover plug

Black. For closing empty switch apertures in mounting panel.

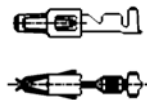
Part no.	Pk.	
9HB 172 229-002	10	Cover plug
9HB 172 229-007	52	



Socket housing

White.

Part no.	Pk.	
8JD 010 076-002	10	Socket housing, 10-pin
8JD 010 076-007	440	



Junior Power Timer

Part no.	Pk.	
8KW 863 934-003	50	Blade receptacle CuSn/Sn Cable section: 0.5 - 1.0 sq. mm. Size of blade terminal: 2.8 x 0.8 sq. mm.
8KW 863 934-023	50	Blade receptacle CuSn/Sn Cable section: 1.0 - 2.5 mm ² . Size of blade terminal: 2.8 x 0.8 sq. mm.
8KW 863 934-024	1000	

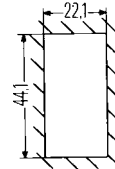
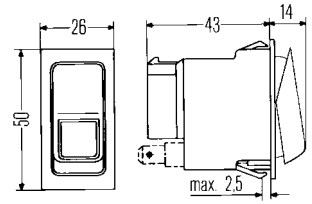
Universal flush-fit Switches



The Hella switch series 004 570 / 008 910 have been designed for interior use in commercial vehicles and cars. The model series make use of common standards in vehicle construction. The advantages of the Hella model series are their modular design and high switching performance.

Available are:

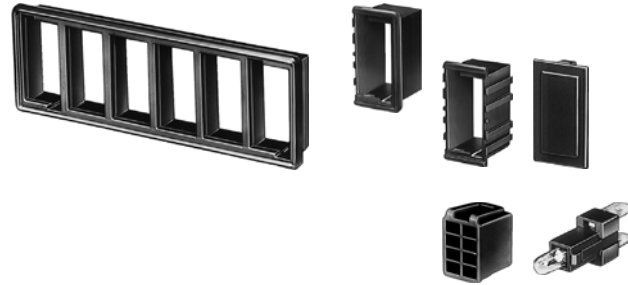
- > Complete automotive functional range (standards and specified functions)
- > One-stage and two-stage switches
- > One circuit and two circuits
- > Push button or locking keys
- > Effective locking system
- > 12V/24V versions
- > LED-technology and bulbs
- > A range of symbol panels can be clipped in place
- > Both original equipment and retrofitting are possible thanks to standardised mounting opening 41.1 x 2.2 mm and mounting frame



Examples of symbols
see page 3.33 - 3.45



Accessories
see page 3.31 - 3.32



Technical details:

Housing, flush-fit accessories:
Functional range:
Storage ability:
Protection system:
Permissible drop in voltage:

Plastic, black nobbing
-35 °C to +65 °C
-40 °C to +90 °C
Suitable for interiors acc. to IP6 (DIN 40050)
before endurance run max. 10mV/A
after endurance run max. 20mV/A
W5/1.2 12V/24V, DIN 72601

Bulb:
Dashboard thickness:
Contacting:

1 - 2,5 mm
Blade terminal contacts 6.3 mm, DIN 46244, fed out of the switch housing

Load values (without load):

Test voltage 13.5V

Amp.	Service life
6	250.000 switch positions
10	150.000 switch positions
10	20.000 switch positions

Test voltage 27.5V

Amp.	Service life
3	150.000 switch positions
5	100.000 switch positions
8	20.000 switch positions

Switching forces

1-stage 0-I
0-I; I-0 = 6N±3N

2-stage 0-I-II
0-I; II-I=6N±3N
I-0; I-II= 11N±4N

2-stage I-0-II
I-0; II-0=5N±2N
0-I; 0-II=11N±4N

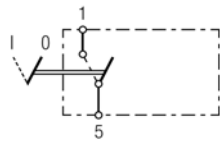
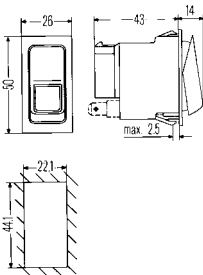
Key contact: 8N±3N

For types 6HH 007 832-28/-29/-30/-32/-59/-64/-66/-71/-72/-77 (Hazard flasher switch) the following is valid:

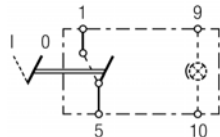
Load values at:

12V/24V: 10A = 10.000 switch positions
Switching forces: 0-I; I-0=8N±3N
Max. load: 12V 16A; 24V 8A

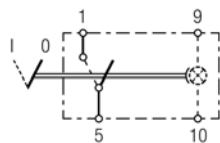
Locking, 1-stage, with one circuit



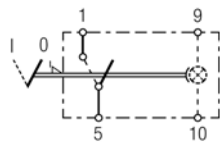
Part no.	Pk.	
6EH 007 832-001	1	Without location light
6EH 007 832-007	50	



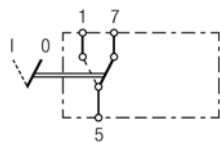
Part no.	Pk.	
6EH 007 832-011	1	Suitable for use with location light
6EH 007 832-012	1	Pro-fit-pack



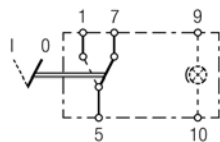
Part no.	Pk.	
6EH 007 832-021	1	Suitable for use with location light and pilot light
6EH 007 832-027	50	
6EH 007 832-022	1	Pro-fit-pack



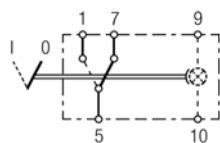
Part no.	Pk.	
6EH 007 832-041	1	Suitable for use with location light and pilot light, with mechanism for blocking operation



Part no.	Pk.	
6FH 007 832-051	10	Without location light

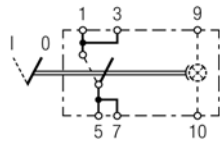


Part no.	Pk.	
6FH 007 832-061	1	Suitable for use with location light
6FH 007 832-067	50	



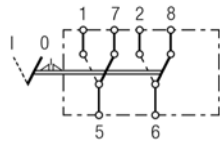
Part no.	Pk.	
6FH 007 832-081	1	Suitable for use with location light and pilot light
6FH 007 832-087	50	

Locking, 1-stage, with one circuit

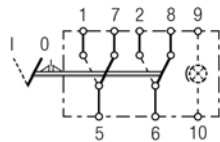


Part no.	Pk.	
6EH 007 832-611	1	Suitable for use with location light and pilot light

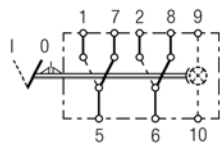
Locking, 1-stage, with two circuits



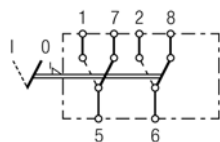
Part no.	Pk.	
6EH 007 832-601	1	Without location light, with two mechanisms for blocking operation



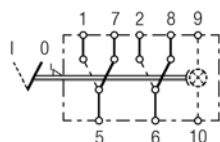
Part no.	Pk.	
6EH 007 832-671	1	Suitable for use with location light, with two mechanisms for blocking operation



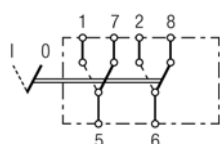
Part no.	Pk.	
6EH 007 832-751	1	Suitable for use with location light and pilot light, with two mechanisms for blocking operation



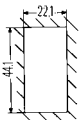
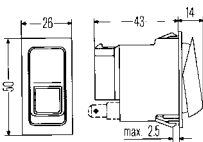
Part no.	Pk.	
6RH 008 948-012	1	Without location light, with mechanism for blocking operation



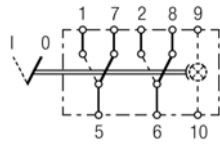
Part no.	Pk.	
6RH 007 832-491	1	Suitable for use with location light and pilot light, with mechanism for blocking operation



Part no.	Pk.	
6FH 007 832-121	1	Without location light
6FH 007 832-127	50	

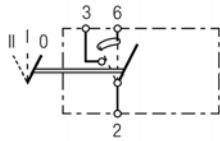


Locking, 1-stage, with two circuits

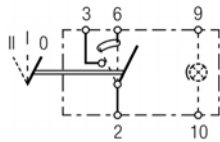


Part no.	Pk.	
6FH 007 832-101	1	Suitable for use with location light and pilot light
6FH 007 832-107	50	

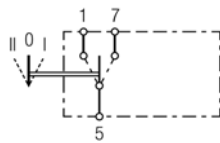
Locking, 2-stage, with one circuit



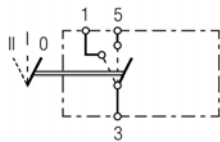
Part no.	Pk.	
6RH 007 832-431	1	Without location light, combination switch



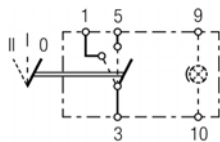
Part no.	Pk.	
6RH 007 832-441	1	Suitable for use with location light, combination switch



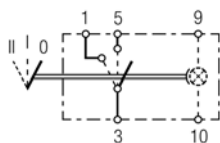
Part no.	Pk.	
6FH 007 832-131	1	Without location light



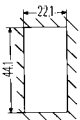
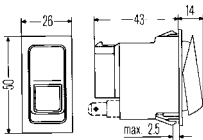
Part no.	Pk.	
6RH 007 832-331	1	Without location light



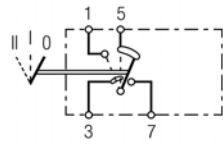
Part no.	Pk.	
6RH 007 832-341	1	Suitable for use with location light



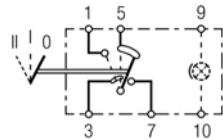
Part no.	Pk.	
6RH 007 832-351	1	Suitable for use with location light and pilot light



Locking, 2-stage, with one circuit

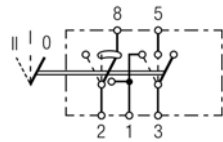


Part no.	Pk.	
6FH 007 832-511	1	Without location light, combination switch

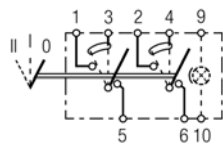


Part no.	Pk.	
6RH 007 832-391	1	Suitable for use with location light, combination switch

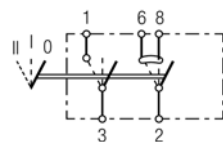
Locking, 2-stage, with two circuits



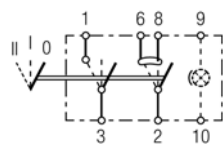
Part no.	Pk.	
6RH 007 832-761	1	Without location light, combination switch



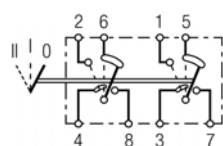
Part no.	Pk.	
6RH 007 832-681	1	Suitable for use with location light, combination switch



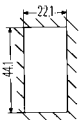
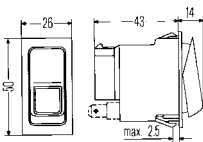
Part no.	Pk.	
6RH 007 832-451	1	Without location light, combination switch



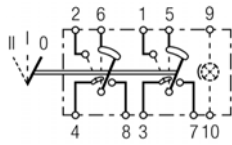
Part no.	Pk.	
6RH 007 832-461	1	Suitable for use with location light, combination switch
6RH 007 832-467	50	



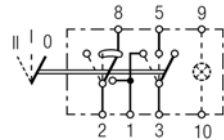
Part no.	Pk.	
6RH 007 832-381	1	Without location light, combination switch



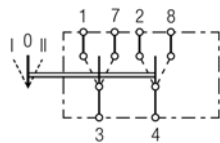
Locking, 2-stage, with two circuits



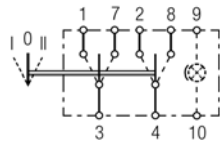
Part no.	Pk.	
6RH 007 832-741	1	Suitable for use with location light, combination switch



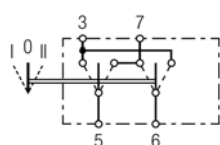
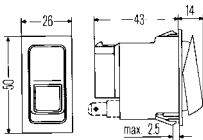
Part no.	Pk.	
6RH 007 832-797	50	Suitable for use with location light and pilot light, combination switch



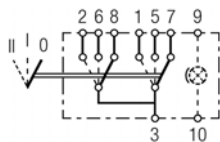
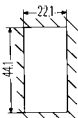
Part no.	Pk.	
6FH 007 832-161	1	Without location light



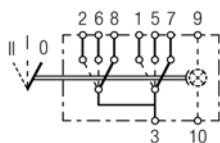
Part no.	Pk.	
6FH 007 832-151	1	Suitable for use with location light



Part no.	Pk.	
6RH 007 832-481	1	Without location light

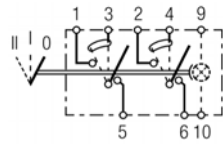


Part no.	Pk.	
6RH 007 832-701	1	Suitable for use with location light



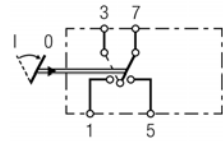
Part no.	Pk.	
6RH 007 832-731	1	Suitable for use with location light and pilot light

Locking, 2-stage, with two circuits

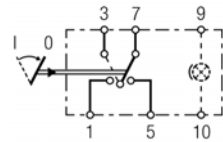


Part no.	Pk.	
6RH 007 832-377	1	Suitable for use with location light and pilot light, combination switch

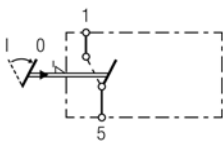
Key, 1-stage, with one circuit



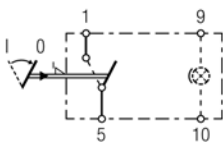
Part no.	Pk.	
6GM 007 832-211	1	Without location light



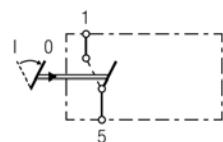
Part no.	Pk.	
6GM 007 832-221	1	Suitable for use with location light



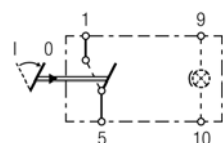
Part no.	Pk.	
6GM 007 832-581	1	Without location light, with mechanism for blocking operation



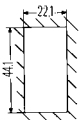
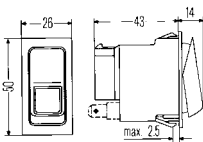
Part no.	Pk.	
6GM 007 832-271	1	Suitable for use with location light, with mechanism for blocking operation



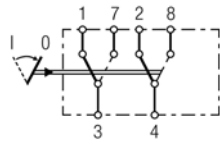
Part no.	Pk.	
6GM 007 832-181	1	Without location light



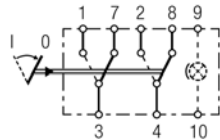
Part no.	Pk.	
6GM 007 832-191 6GM 007 832-197	1 50	Suitable for use with location light



Key, 1-stage, with two circuits



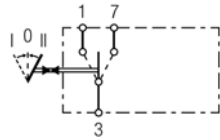
Part no.	Pk.	
6GM 007 832-521	1	Without location light



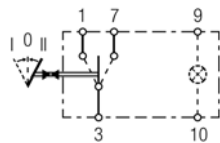
Part no.	Pk.	
6FH 007 832-621	1	Suitable for use with location light



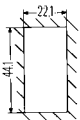
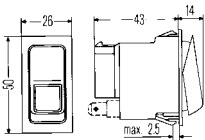
Key, 2-stage, with one circuit



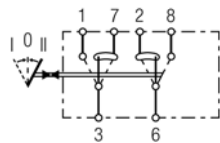
Part no.	Pk.	
6GM 007 832-231	1	Without location light



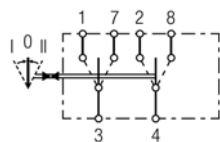
Part no.	Pk.	
6GM 007 832-241	1	Suitable for use with location light



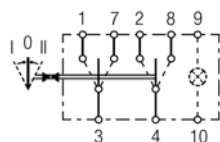
Key, 2-stage, with two circuit



Part no.	Pk.	
6GM 007 832-631	1	Without location light

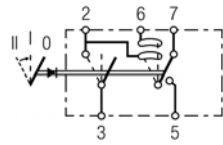


Part no.	Pk.	
6GM 007 832-261	1	Without location light

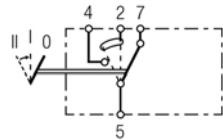


Part no.	Pk.	
6GM 007 832-251	1	Suitable for use with location light

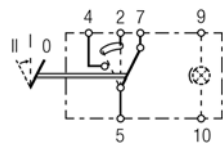
Key, 2-stage, with one circuit



Part no.	Pk.	
6RH 008 948-002	1	Without location light, 2nd stage key, combination switch



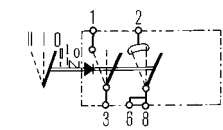
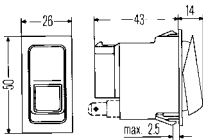
Part no.	Pk.	
6RH 007 832-551	1	Without location light, 2nd stage key, combination switch



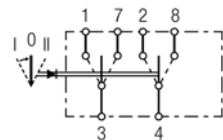
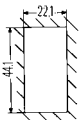
Part no.	Pk.	
6RH 007 832-411	1	Suitable for use with location light, 2nd stage key, combination switch



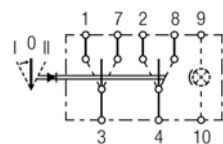
Key, 2-stage, with two circuit



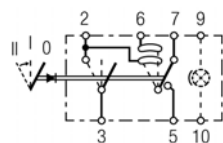
Part no.	Pk.	
6RH 007 832-651	1	Suitable for use with location light and pilot light, with mechanism for blocking operation, 2nd stage key, combination switch



Part no.	Pk.	
6FH 007 832-171	1	Without location light

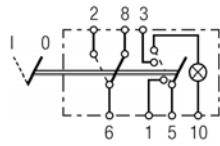
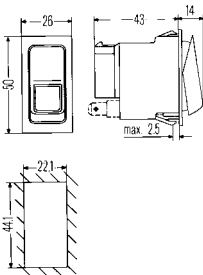


Part no.	Pk.	
6FH 008 948-022	1	Suitable for use with location light

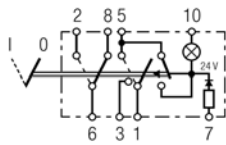


Part no.	Pk.	
6RH 007 832-421	1	Suitable for use with location light, combination switch

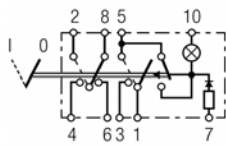
Hazard flasher switches



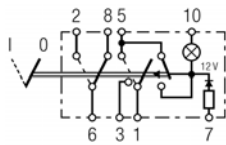
Part no.	Pk.	
6HH 007 832-281	1	With 12V bulb and location light



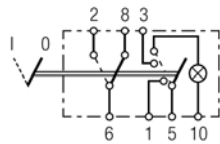
Part no.	Pk.	
6HH 007 832-297	1	With 24V bulb, location light and pilot light



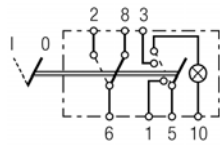
Part no.	Pk.	
6HH 007 832-301	1	With 24V bulb, location light and pilot light
6HH 007 832-307	50	



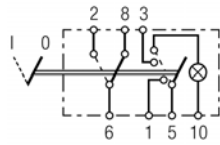
Part no.	Pk.	
6HH 007 832-321	1	With 12V bulb, with location light and pilot light red push-button
6HH 007 832-807	50	



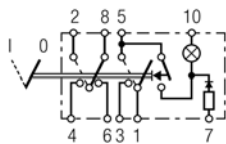
Part no.	Pk.	
6HH 007 832-591	1	With 24V bulb and pilot light



Part no.	Pk.	
6HH 007 832-641	1	With 24V bulb, with location light and red push-button



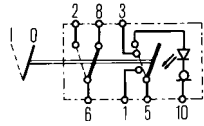
Part no.	Pk.	
6HH 007 832-661	1	With 12V bulb, with pilot light, red push-button



Part no.	Pk.	
6HH 007 832-771	1	With 12V bulb, with location light and pilot light

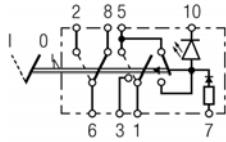
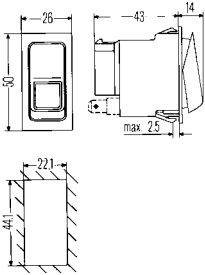
Switches

Hazard flasher switches



Hazard flasher switches

Part no.	Pk.	
6HH 007 832-711	1	With LED 12V - 32V, with location light



Part no.	Pk.	
6HH 007 832-721	1	With LED 12V - 32V, with location light and pilot light, with mechanism for blocking operation on.

The Hella switch series 004 570 / 008 910 have been designed for interior use in commercial vehicles and cars. The model series make use of common standards in vehicle construction.

The advantages of the Hella model series are their modular design and high switching performance.

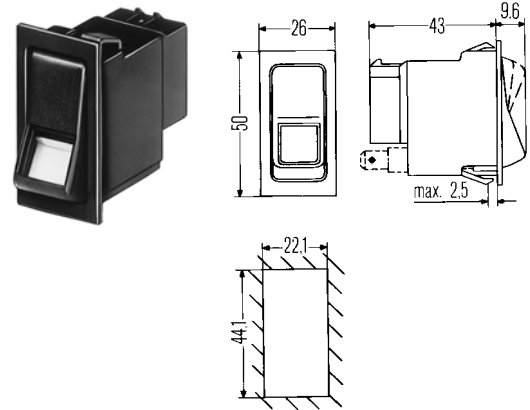
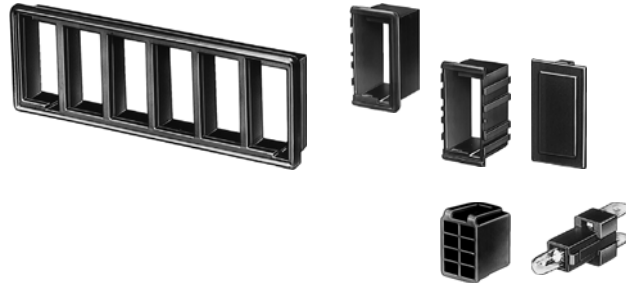
Available are:

- > Complete automotive functional range (standards and specified functions)
- > One-stage and two-stage switches
- > One circuit and two circuits
- > Push button or locking keys
- > Effective locking system
- > 12V/24V versions
- > LED-technology and bulbs
- > A range of symbol panels can be clipped in place
- > Both original equipment and retrofitting are possible thanks to standardised mounting opening 41.1 x 2.2 mm and mounting frame

Examples of symbols
see page 3.33 - 3.45



Accessories
see page 3.31 - 3.32



Technical details:

Housing, flush-fit accessories:	Plastic, black nobbing
Functional range:	-35 °C to +65 °C
Storage ability:	-40 °C to +90 °C
Protection system:	Suitable for interiors acc. to IP6 (DIN 40050)
Permissible drop in voltage:	before endurance run max. 10mV/A after endurance run max. 20mV/A
Bulb:	W5/1.2 12V/24V, DIN 72601
Dashboard thickness:	1 - 2.5 mm
Contacting:	Blade terminal contacts 6.3 mm, DIN 46244, fed out of the switch housing

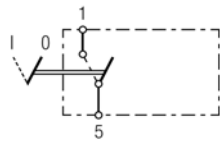
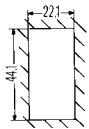
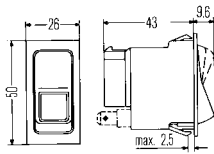
Load values (without load):	Test voltage 13.5V		Test voltage 27.5V	
	Amp.	Service life	Amp.	Service life
	6	250.000 switch positions	3	150.000 switch positions
	10	150.000 switch positions	5	100.000 switch positions
	10	20.000 switch positions	8	20.000 switch positions

Switching forces					
1-stage	0-I	2-stage	0-I-II	2-stage	I-0-II
	0-I; I-0 = 6N±3N		0-I; II-I=6N±3N		I-0; II-0=5N±2N
			I-0; I-II= 11N±4N		0-I; 0-II=11N±4N
Key contact:	8N±3N				

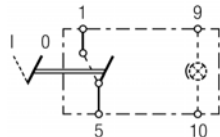
For types 6HH 004 570-43/-45/-47/-48/-49/-58/-59 the following is valid:

Load values at:
12V/24V: 10A = 10.000 switch positions
Switching forces: 0-I; I-0=8N±3N
Max. load: 12V 16A; 24V 8A

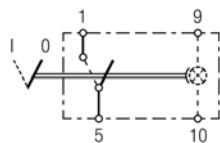
Locking, 1-stage, with one circuit



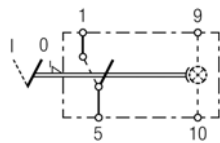
Part no.	Pk.	
6EH 004 570-001	1	Without location light



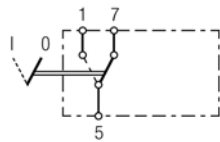
Part no.	Pk.	
6EH 004 570-011	1	Suitable for use with location light



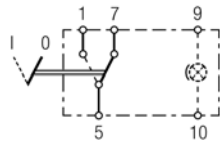
Part no.	Pk.	
6EH 004 570-021	1	Suitable for use with location light and pilot light
6EH 004 570-027	50	



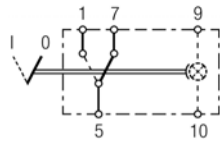
Part no.	Pk.	
6EH 004 570-621	1	Suitable for use with location light and pilot light, with mechanism for blocking operation



Part no.	Pk.	
6FH 004 570-101	1	Without location light

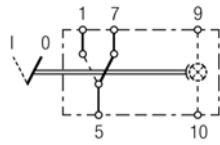


Part no.	Pk.	
6FH 004 570-111	1	Suitable for use with location light

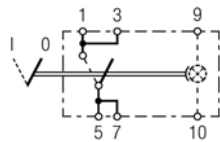


Part no.	Pk.	
6FH 004 570-121	1	Suitable for use with location light and pilot light
6FH 004 570-127	50	

Locking, 1-stage, with one circuit



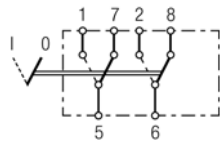
Part no.	Pk.	
6FH 004 570-777	50	Suitable for use with location light and pilot light, with gold-plated contacts



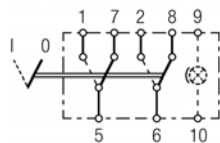
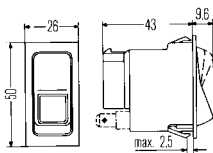
Part no.	Pk.	
6EH 004 570-681	1	Suitable for use with location light and pilot light



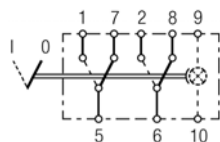
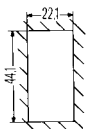
Locking, 1-stage, with two circuits



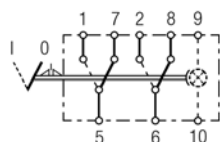
Part no.	Pk.	
6FH 004 570-501	1	Without location light



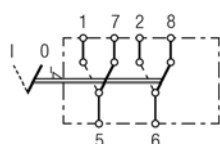
Part no.	Pk.	
6FH 004 570-341	1	Suitable for use with location light



Part no.	Pk.	
6FH 004 570-131	1	Suitable for use with location light and pilot light
6FH 004 570-137	50	

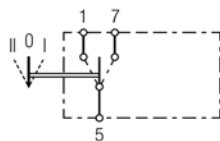
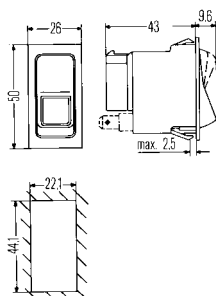


Part no.	Pk.	
6EH 004 570-641	1	Suitable for use with location light and pilot light, with two mechanisms for blocking operation
6EH 004 570-647	50	

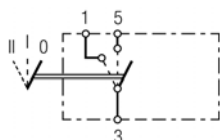


Part no.	Pk.	
6RH 008 910-011	10	Without location light, with mechanism for blocking operation, with gold-plated contacts

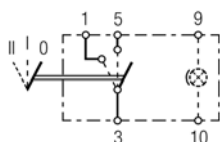
Locking, 2-stage, with one circuit



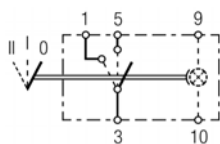
Part no.	Pk.	
6FH 004 570-511	10	Without location light
6FH 004 570-517	50	



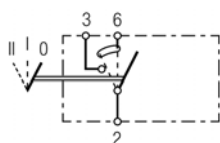
Part no.	Pk.	
6RH 004 570-151	1	Without location light



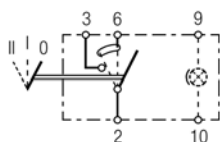
Part no.	Pk.	
6RH 004 570-161	1	Suitable for use with location light



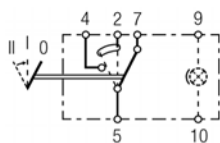
Part no.	Pk.	
6RH 004 570-171	1	Suitable for use with location light and pilot light
6RH 004 570-177	50	



Part no.	Pk.	
6RH 004 570-351	1	Without location light, combination switch

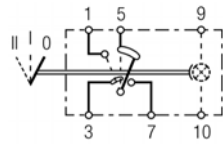


Part no.	Pk.	
6RH 004 570-361	1	Suitable for use with location light, combination switch



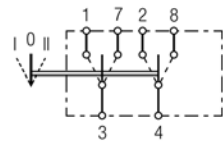
Part no.	Pk.	
6RH 004 570-311	1	Suitable for use with location light, 2nd stage key, combination switch

Locking, 2-stage, with one circuit

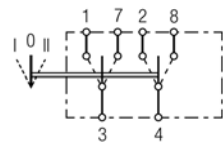


Part no.	Pk.	
6RH 004 570-261	1	Suitable for use with location light, combination switch
6RH 004 570-267	50	

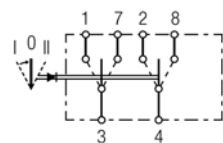
Locking, 2-stage, with two circuits



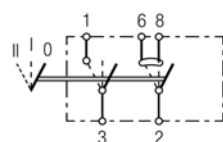
Part no.	Pk.	
6FH 004 570-531	1	Without location light



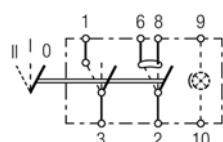
Part no.	Pk.	
6FH 004 570-521	1	Suitable for use with location light



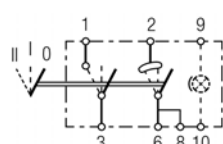
Part no.	Pk.	
6FH 004 570-541	1	Without location light, 1st stage key



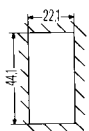
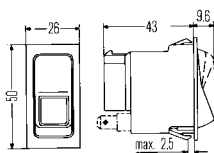
Part no.	Pk.	
6RH 004 570-401	1	Without location light, combination switch



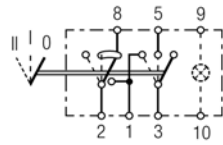
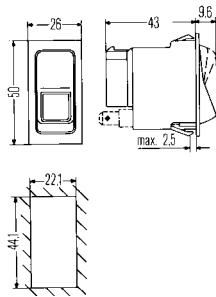
Part no.	Pk.	
6RH 004 570-411	1	Suitable for use with location light, combination switch
6RH 004 570-417	50	



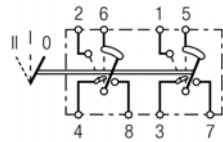
Part no.	Pk.	
6RH 008 910-022	10	Suitable for use with location light and pilot light, combination switch



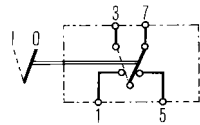
Locking, 2-stage, with two circuits



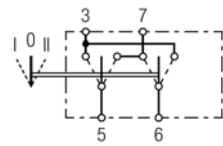
Part no.	Pk.	
6RH 008 910-037	50	Suitable for use with location light, combination switch



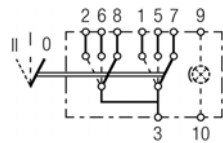
Part no.	Pk.	
6RH 004 570-191	1	Without location light, combination switch



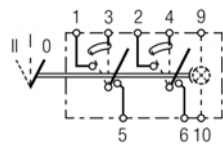
Part no.	Pk.	
6RH 004 570-382	10	Suitable for use with location light and pilot light, combination switch



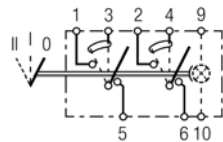
Part no.	Pk.	
6RH 004 570-751	1	Without location light



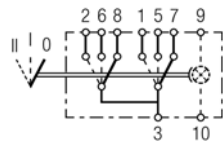
Part no.	Pk.	
6RH 004 570-371	1	Suitable for use with location light



Part no.	Pk.	
6RH 004 570-187	1	Suitable for use with location light and pilot light, combination switch



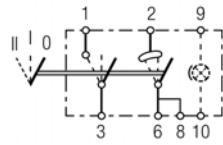
Part no.	Pk.	
6RH 004 570-787	1	Suitable for use with location light and pilot light, gold-plated contacts, combination switch



Part no.	Pk.	
6RH 004 570-321	1	Suitable for use with location light and pilot light

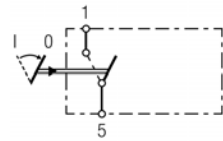
Accessories see page 3.31 - 3.45

Locking, 2-stage, with two circuits

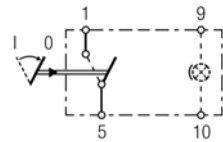


Part no.	Pk.	
6RH 004 570-671	1	Suitable for use with location light and pilot light, combination switch

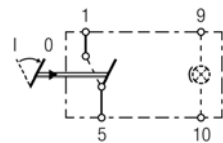
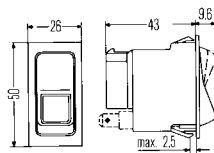
Key, 1-stage, with one circuit



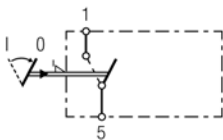
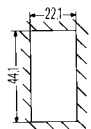
Part no.	Pk.	
6GM 004 570-051	1	Without location light



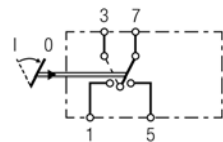
Part no.	Pk.	
6GM 004 570-061	1	Suitable for use with location light
6GM 004 570-067	50	



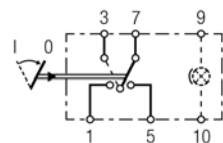
Part no.	Pk.	
6GM 004 570-767	1	Suitable for use with location light, gold-plated contacts



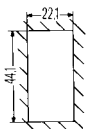
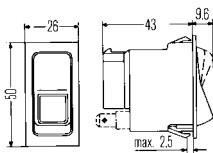
Part no.	Pk.	
6GM 004 570-691	1	Without location light, with mechanism for blocking operation



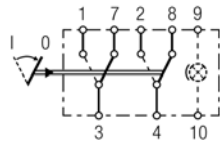
Part no.	Pk.	
6GM 004 570-071	1	Without location light



Part no.	Pk.	
6GM 004 570-081	1	Suitable for use with location light

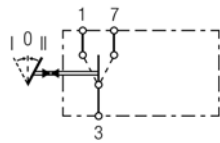


Key, 1-stage, with two circuits

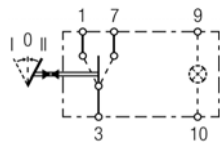


Part no.	Pk.	
6FH 004 570-571	1	Suitable for use with location light
6FH 004 570-577	50	

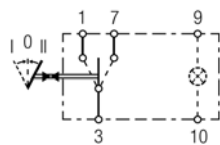
Key, 2-stage, with one circuit



Part no.	Pk.	
6GM 004 570-201	1	Without location light

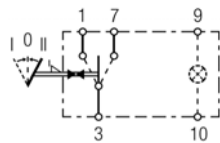


Part no.	Pk.	
6GM 004 570-211	1	Suitable for use with location light



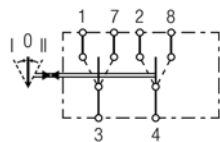
Part no.	Pk.	
6GM 004 570-797	50	Suitable for use with location light, gold-plated contacts

Locking, 2-stage, with two circuits



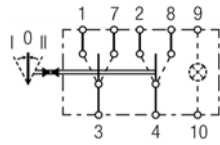
Part no.	Pk.	
6FH 008 910-047	50	Suitable for use with combination light and mechanism for blocking operation

Key, 2-stage, with two circuit

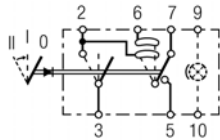


Part no.	Pk.	
6GM 004 570-231	1	Without location light

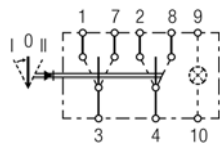
Key, 2-stage, with two circuit



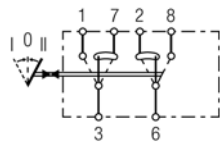
Part no.	Pk.	
6GM 004 570-221	1	Suitable for use with location light
6GM 004 570-227	50	



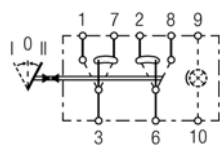
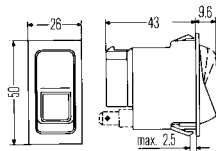
Part no.	Pk.	
6RH 004 570-331	1	Suitable for use with location light, 2nd stage key, combination switch



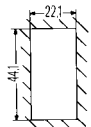
Part no.	Pk.	
6FH 004 570-241	1	Suitable for use with location light, 1st stage key, 2nd stage locking



Part no.	Pk.	
6GM 004 570-271	1	Without location light, key, combination switch



Part no.	Pk.	
6GM 004 570-297	50	Suitable for use with location light, key, combination switch

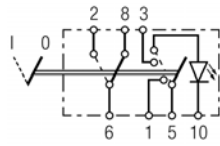
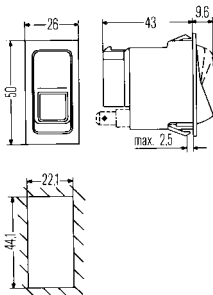


Switches

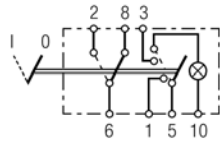
Hazard flasher switches



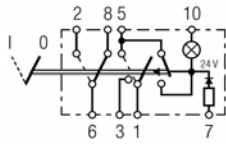
Hazard flasher switches



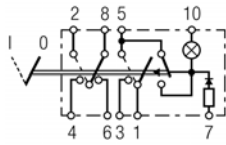
Part no.	Pk.	
6HH 004 570-431	1	With LED 12V - 32V, with location light



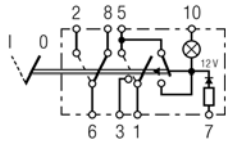
Part no.	Pk.	
6HH 004 570-451	1	With 12V-bulb, with location light



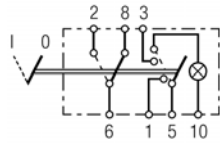
Part no.	Pk.	
6HH 004 570-477	1	With 24V bulb, location light and pilot light



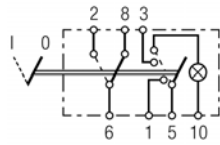
Part no.	Pk.	
6HH 004 570-481	1	With 24V bulb, location light and pilot light



Part no.	Pk.	
6HH 004 570-491	1	With 12V bulb, with location light and pilot light

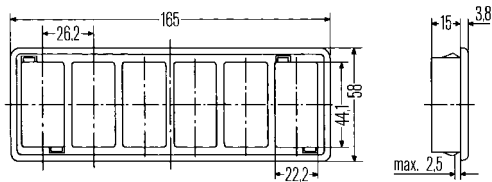
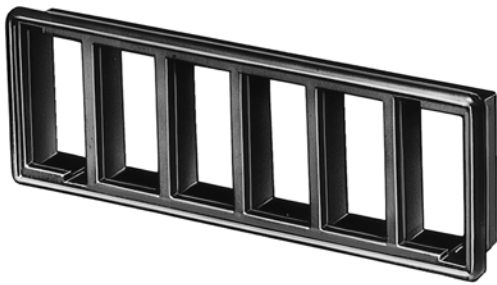


Part no.	Pk.	
6HH 004 570-581	1	With 12V bulb, with pilot light, red push-button



Part no.	Pk.	
6HH 004 570-591	1	With 24V-bulb, with location light, red push-button

Accessories see page 3.31 - 3.45



Mounting panels

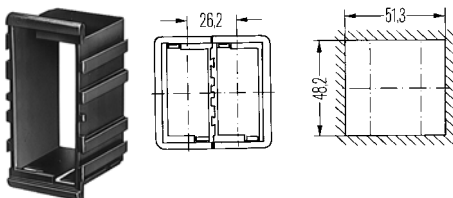
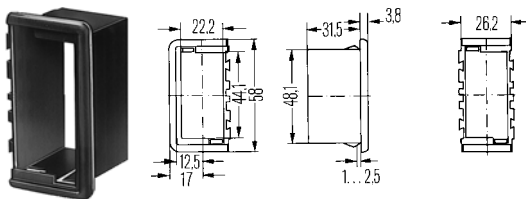
Black.

Part no.	Pk.	
8HG 713 626-001	12	Mounting aperture: 156.1 x 48.2 mm Mounting panel for 6 switches
8HG 714 504-001	10	Mounting aperture: 77.6 x 48.2 mm Mounting panel for 3 switches

Modular mounting-panel system

Black.

2 end pieces and 1 middle piece are needed to make a mounting panel. By adding middle pieces, this panel can be extended as required.



Part no.	Pk.	
8HG 716 734-001	10	End piece
8HG 716 734-007	200	
8HG 716 735-001	10	Middle piece
8HG 716 735-007	200	

Cover plug

For closing empty switch apertures in mounting panel.



Part no.	Pk.	
9HB 713 629-001	10	Plug

Socket housing



Part no.	Pk.	
8JA 713 631-001	10	Socket housing, 8-pole
8JA 713 631-007	1000	

Accessories for switches in model range

007 832-..., 008 948-..., 004 570-..., 008 910-...



Warning lights for switches 007 832-... and 008 948-...

Part no.	Pk.	
2AA 713 628-021	10	with 12V bulb
2AA 713 628-031	10	with 24V bulb
2AA 713 628-041	10	with LEDs, 12V and 24V



Warning lights for switches 004 570-... and 008 910-...

Part no.	Pk.	
2AA 713 628-001	10	with 12V bulb
2AA 713 628-011	10	with 24V bulb
2AA 713 628-051	10	with LEDs, 12V and 24V
8GP 002 095-121	1	Spare parts: W5/1.2 bulb, 12V1.2W
8GP 002 095-241	10	24V1.2W



Bulb holders

Part no.	Pk.	
		Bulb holders for warning lights. Changeable against bulb holder with LEDs.
9FF 713 627-001	10	with 12V bulb
9FF 713 627-011	10	with 24V bulb
8GP 002 095-121	1	Spare parts: W5/1.2 bulb, 12V1.2W
8GP 002 095-241	10	24V1.2W
		Bulb holders with LEDs, 12V and 24V
9FF 713 627-031	10	for warning lights with 5 mm dia. LEDs



Socket housing

Part no.	Pk.	
		for bulb holders
8JA 715 600-001	10	Socket housing, 2-pole



Light	Part no.	Symbol	Colour		Light	Part no.	Symbol	Colour	
Light	9XT 713 630-301		green	001	Interior light, medium	9XT 714 300-031		green	021
Dipped beam	9XT 713 630-311		green	002	Interior light, weak	9XT 713 630-501		green	022
Main beam	9XT 714 300-131		blue	002	Interior light, illumination, bright	9XT 714 300-241		green	023
Additional main beam	9XT 714 300-671		blue	004	Interior light, illumination, weak				024
Fog light	9XT 713 630-351		green	005	Light off			green	025
Work light front	9XT 713 630-421		green	006	Map light	9XT 713 630-511		green	026
Work light rear	9XT 713 630-701 9XT 740 763-491		green red	007	Map light			green	027
Position light	9XT 713 630-331		green	009	Driving compartment lighting	9XT 713 630-491		green	028
Side light	9XT 714 300-651		green	010	Passenger-side lighting			green	029
Position light 1	9XT 714 300-681		green	011	Boot lighting	9XT 713 630-641		green	030
Rear fog light	9XT 713 630-361 9XT 713 630-411		yellow green	012	Main light	9XT 713 630-261		green	031
Indicator	9XT 714 300-141		green	014	Room lamps	9XT 714 300-321		green	032
Warning light	9XT 713 630-391		red	015	Worklighting 1	9XT 713 630-371 9XT 734 713-121		green yellow	033
Warning light	9XT 714 300-691		orange	016	Worklighting 2	9XT 713 630-371			034
Front flasher	9XT 740 763-571		green	017	Table light	9XT 714 300-721		green	035
Cargo area illumination	9XT 740 763-311		yellow	018	Night light	9XT 714 300-701		green	036
Instrument panel	9XT 714 300-661		green	019	Rotating beacon 1	9XT 713 630-281 9XT 713 630-711		green yellow	037
Interior light, bright	9XT 713 630-271		green	020	Rotating beacon 2				038

All symbol cards with part no. are packed in 25s.

Switches

Symbol cards for 354 100 / 007 832 / 008 948 / 004 570 / 008 910



Light	Part no.	Symbol	Colour		Light	Part no.	Symbol	Colour	
Light switch 1				039	UFB				221
Light switch 2				040	Rod-type light				223
Bulb test	9XT 714 300-501		green	226	Rear fog light on/off				229
Light pole	9XT 740 763-601		yellow		Worklighting top				234
Bulb	9XT 740 763-121		red		Fog light off				234
Stairs	9XT 740 763-701		green		Adjustment work light				265
Rotating beacon				205	Wall illumination				325
Light pole				208	Headlights up				334
Tool room				209	Headlights down				335
RKL driver cab				212	Boom light				342
Rotating beacon 3				213					
Signal				214					
Front flasher				215					
Front flasher				216					
Rear flasher				217					
Rear flasher				218					
VWA				219					
RFS				220					

All symbol cards with part no. are packed in 25s.

Brake system	Part no.	Symbol	Colour		Sight	Part no.	Symbol	Colour	
Parking brake	9XT 714 300-011		red	086	Windscreen wiper	9XT 713 630-101		green	170
Brake malfunction	9XT 714 300-231		red	087	Windscreen wiper/wash	9XT 713 630-121		green	171
Hand brake				088	Windscreen wash	9XT 713 630-131		green	172
Brake lining				089	Wiping intervall switch	9XT 740 763-371		green	173
Oil pressure	9XT 740 763-391			089	Rear windowwiper	9XT 713 630-141		green	174
ASR			yellow	091	Heated rear window	9XT 713 630-231 9XT 714 300-741		yellow green	175
Disable ASR	9XT 714 300-491		green	332	Heated outside mirror	9XT 713 630-481		green	176
Retarder				227	Windscreen defrosting	9XT 714 300-761		yellow	177
Engine Brake				228	Defroster	9XT 713 630-521		green	179
Retarder 2				272	Heated door window				230
Retarder 1				313	Defroster stage 1				257
ABS				314	Defroster stage 2				258
Brake				316	Windscreen wash				280
Retarder switched off				355	Wiping intervall				281
					Heated window				293
					Heated window				294

All symbol cards with part no. are packed in 25s.

Switches

Symbol cards for 354 100 / 007 832 / 008 948 / 004 570 / 008 910



Inside	Part no.	Symbol	Colour		Inside	Part no.	Symbol	Colour	
Lifting roof	9XT 714 300-021		green	138	Auxiliary heating 1	9XT 713 630-211		green	166
Central locking system	9XT 714 300-541		green	149	Heater fan	9XT 713 630-221		green	167
Window lift	9XT 713 630-181		green	150	Seat heating	9XT 714 300-781		green	168
Window lift	9XT 714 300-041		yellow	151	Heating driver's side	9XT 714 300-791		green	169
Window lift	9XT 714 300-341		green	152	Buzzer	9XT 714 300-641		green	
Sun roof			green	153	Auxiliary heating 2	9XT 713 630-601		green	
Air conditioning	9XT 714 300-771		green	154	Arrow, down				211
Fan, fast	9XT 713 630-251		green	155	Description AC				235
Fan, slow	9XT 713 630-531		green	156	Window lift up				236
Fan, fast/slow	9XT 714 300-311		green	157	Window lift down				237
Fan, speed adjustment	9XT 740 763-511		green	158	Window up				249
Fan	9XT 714 300-751		green	159	Window down				250
Fresh air	9XT 713 630-291		green	160	Window dark up				251
Air filter	9XT 740 763-401		yellow	161	Window dark down				252
Roof fan	9XT 713 630-681		green	162	Fan				284
Activate sunshades	9XT 714 300-591		green	163	Sun protection up				285
Heater	9XT 713 630-201		green	164	Sun protection down				286
Heater	9XT 713 630-671		green	165	Heaters slow				287

All symbol cards with part no. are packed in 25s.

Inside	Part no.	Symbol	Colour		Body	Part no.	Symbol	Colour	
Seat heating on			288		Level adjustment	9XT 714 300-471		yellow	128
Heating stage 1			289		Level 1				129
Heating stage 2			290		Height adjustment	9XT 714 300-071		yellow	130
Fan slow			291		Lower	9XT 713 630-621		yellow	131
Fan fast			292		Raise	9XT 713 630-631		green	132
Container heating			295		Raise			yellow	135
Front ventilation damper			296		Raise/lower	9XT 734 713-521		yellow	136
Recirculation mode			297		All raise/ lower			yellow	137
Roof ventilation driver seat			298		Lifting table head down/up	9XT 714 300-251		green	139
Roof deaeration driver seat			299		Operating hydraulic system				140
Jalousie up			307		Trailing axle			green	141
Jalousie down			308		Full floating axle	9XT 713 630-761		yellow	142
Rollo up / down			359		Lift axle				143
					Deaeration 3rd axle axle raise	9XT 714 300-431		green	144
					Dumping	9XT 734 713-281		orange	145
					Cylinder down			yellow	146
					Cylinder down rapid			yellow	147
					Ground pressure regulator	9XT 740 763-501		green	148

All symbol cards with part no. are packed in 25s.

Switches

Symbol cards for 354 100 / 007 832 / 008 948 / 004 570 / 008 910



Body	Part no.	Symbol	Colour		Body	Part no.	Symbol	Colour	
Lifting table on/off	9XT 714 300-261		green		Close 2nd door				323
Lock Telescopic arm 1	9XT 714 300-161		green		Open 3rd door				328
Support right	9XT 713 630-731		green		Close 3rd door				329
Support left	9XT 713 630-741		green		Open cabin				338
Operating hydraulic system	9XT 734 713-551		red		Close cabin				339
Tipper, loading-area repositioning (turned 180°)	9XT 740 763-531 9XT 740 763-541		green red		Driving position				354
Driving side door									225
Cab lock									240
Tilt cabin									274
Door PRG									276
Lower bus									278
Door right									279
Open trunk									317
Lock trunk									318
Open ventilating hatch									319
Ventilating hatch closed									320
Close 1st door									321
Open 2nd door									322

All symbol cards with part no. are packed in 25s.

Drive	Part no.	Symbol	Colour		Drive	Part no.	Symbol	Colour	
Lubrication	9XT 714 300-181		red	092	All-wheel drive	9XT 734 713-771		green	109
Engine start	9XT 714 300-381		green	093	Power take-off	9XT 734 713-231		green	110
Preheating	9XT 714 300-391		yellow	094	Differential lock	9XT 714 300-111		green	111
Preheating fuel	9XT 714 300-481		green	095	Differential lock			green	112
Engine stop	9XT 714 300-401		red	096	Differential lock	9XT 740 763-331		red	113
Motor malfunction	9XT 734 713-431		yellow	097	Differential lock	9XT 740 763-381		red	114
Throttle valve				098	Automatic idle	9XT 713 630-751		red	116
Increased rpm	9XT 714 300-421		orange	099	Fuel	9XT 734 713-511		yellow	117
Battery	9XT 714 300-201		yellow	100	Change-over tanks	9XT 714 300-051		green	118
Auxiliary battery	9XT 714 300-331		green	101	Turbine	9XT 740 763-341		red	119
Breaker 1	9XT 740 763-231		green	102	Speed of PTO shaft, front	9XT 744 039-002		yellow	120
Breaker 2				102	All-wheel drive	9XT 734 713-411		yellow	121
Temperature	9XT 714 300-191		red	103	Transmission oil pressure	9XT 734 713-591		red	122
Pre-heater	9XT 713 630-451		yellow	104	Transmission, oil temperature	9XT 734 713-611		red	123
STOP	9XT 734 713-211		green	105	Hydraulic oil filter	9XT 734 713-371		red	124
On/off			green	106	Torque converter oil filter			red	125
Fast	9XT 713 630-401		green	107	Oil pressure/temperature	9XT 744 039-052		red	126
Slow	9XT 713 630-691		yellow	108	Interruption in power train			green	127

All symbol cards with part no. are packed in 25s.

Switches

Symbol cards for 354 100 / 007 832 / 008 948 / 004 570 / 008 910



Drive	Part no.	Symbol	Colour		Drive	Part no.	Symbol	Colour	
Start	9XT 734 713-151		green		Rear-wheel drive off				300
Vibrating device	9XT 734 713-341		yellow		All-wheel drive off				301
Steering aid 1	9XT 734 713-421		red		ECO				304
Steering aid 2	9XT 734 713-351		red		Engine				315
Fremo Motore/Retarder	9XT 744 039-082		green		Min level hydraulic oil				326
Undervoltage				206	Air circulation				327
Right-hand drive				238	Decrease speed				336
Right-hand drive				238 R	Increase speed				337
Left-hand drive				239	Engine increasing				346
Left-hand drive				239 R	Engine STOP				347
Start				241	Engine check				348
Engine				242	Engine cooling				351
Additional axle				246	Battery Main				353
Separate steering (can be turned through 180°)				247					
Air supply system left				255					
Air supply system right				256					
Battery low				261					
Battery bypass				262					

All symbol cards with part no. are packed in 25s.

Auxiliary symbol cards	Part no.	Symbol	Colour		Auxiliary symbol cards	Part no.	Symbol	Colour	
Without symbol	9XT 713 630-001 9XT 713 630-011 9XT 713 630-021 9XT 713 630-031 9XT 734 713-131 9XT 734 713-621 9XT 740 763-291		green black red yellow clear blue orange		Bell				056
Without laser symbol				000	Door opener	9XT 714 300-631		green	057
Overload warning device	9XT 713 630-381		red	041	Front door	9XT 713 630-551		green	058
Compressed air horn	9XT 713 630-461 9XT 734 713-601		green black	042	Rear door	9XT 713 630-561		green	059
Horn	9XT 734 713-601			043	Door plate	9XT 740 763-251		red	060
Horn test button WA 3	9XT 714 300-291		green	044	Arrow, up	9XT 740 763-461		yellow	061
Signal-switch-over	9XT 714 300-301		green	045	Arrow, left	9XT 740 763-451		yellow	062
Reverse signal	9XT 734 713-241		green	046	Arrow, right	9XT 740 763-471		yellow	063
City/country signal	9XT 740 763-581		green	047	Tail gate	9XT 740 763-591		green	064
Km/h			green	048	Cutting tool, reversing	9XT 740 763-481		green	065
Speed limit			yellow	049	Cutting tool, locked			red	066
WC	9XT 713 630-591		green	050	Socket	9XT 714 300-611		green	067
TV	9XT 714 300-551		green	051	Water on/off	9XT 744 039-012		orange	068
Camera	9XT 714 300-561		green	052	Plate broom (turned left)	9XT 734 713-251		orange	069
Radio/Music	9XT 714 300-571		green	053	Plate broom (turned right)				070
Refrigerator	9XT 714 300-101		green	054	Plate broom up	9XT 734 713-271		orange	071
Bell			green	055	Double plate broom			orange	072
					Plate broom			orange	073

All symbol cards with part no. are packed in 25s.

Switches

Symbol cards for 354 100 / 007 832 / 008 948 / 004 570 / 008 910



Auxiliary symbol cards	Part no.	Symbol	Colour		Auxiliary symbol cards	Part no.	Symbol	Colour	
Plate broom spray water	9XT 740 763-621		green	074	Rear warning unit				210
Brush right on/off			orange	075	Rear warning unit				211
Brush raise/lower	9XT 744 039-042		orange	076	Working tool				222
Brush side	9XT 740 763-711		green	077	Water pump				224
Spray water	9XT 740 763-631		green	078	Driving side door				225
Hasp	9XT 740 763-641		green	079	Retarder				227
Broom up/down	9XT 740 763-651		green	080	Engine Brake				228
Dumping	9XT 740 763-611		white	081	ISO 2W	9XT 714 300-731		green	
Fast tipping	9XT 740 763-681		white	082	Hostess-call	9XT 714 300-581		green	
Auxiliary unit open	9XT 740 763-661		red	083	Off-road gear	9XT 734 713-401		green	
Float position				084	Fuel leak cut-off	9XT 714 300-001		orange	
Wheel chair				085	Exhaust	9XT 714 300-281		green	
WAIL Signal				180	Mann with stik	9XT 714 300-621		orange	
YELP-Signal				181	Signal light wheelchair	9XT 740 763-001		red	
HILO-Signal				181	Caution	9XT 740 763-011		red	
Step				183	Unsuitable for wheelchair	9XT 740 763-081		red	
Undervoltage				206	Suitable for wheelchair	9XT 740 763-101		green	
Radio				207	Wheelchair	9XT 744 039-212		blue	

All symbol cards with part no. are packed in 25s.

Auxiliary symbol cards	Part no.	Symbol	Colour		Auxiliary symbol cards	Part no.	Symbol	Colour	
Fire alarm	9XT 744 039-092		red		Socket off				263
ZIG ZAG	9XT 744 039-062		red		Hook				264
Proportional function	9XT 744 039-132		green		Slewing gear				266
High-pressure cleaner			green		Hook 2nd level				267
Funnel drain			green		Throttle body				268
Hose	9XT 744 039-192		green		Hook 1st level				269
Request next stop		NEXT STOP		194	Boom up				270
Lower				195	Raise / Lower boom				271
Radio				207	Extend / Retract boom				273
Main switch, radio				231	Raise / Lower boom cap				275
Monitor control				232	INFO		INFO		277
Pump		PUMP		243	Return				282
Cap lock				244	OK		OK		283
Autom. Cap lock		A		245	Hydraulic gear pump off				302
Intercom				248	Hydraulic gear pump on				303
Malfunction vehicle electronics				253	RAG		RAG		305
Water level diesel engine				254	Slew ring blocked				306
Horn off				259	BORD SONDOR		BORD SONDOR		309

All symbol cards with part no. are packed in 25s.





Switches

Symbol cards for 354 100 / 007 832 / 008 948 / 004 570 / 008 910

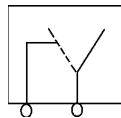


Auxiliary symbol cards	Part no.	Symbol	Colour		Auxiliary symbol cards	Part no.	Symbol	Colour	
SEL II				310	Driver light				358
N				311	Driver microphone				360
Coffee				312	Hostess call-boiler				361
Emergency				324	Panorama camera				362
INFO				330	Universal camera				363
Heating pump				331	Park distance control				364
Bridge hoist end switch				333	Toilet dump				365
Bridge boom				340	Refrigerator				366
Setup RCL				341	Outlet Fan				367
CASSA				343	Fresh air				368
Hostess call				344	Heater				369
LIM				345	Request for stop-off				370
Locking cargo-body				349	Stop				371
Alternative steering wheel				350	Ticket machine				372
Hydromech. transmission				352	Snow chains				373
Lane departure warning				356	Loudspeaker				374
Central locking				357	Handicapped access				375

All symbol cards with part no. are packed in 25s.

Auxiliary symbol cards	Part no.	Symbol	Colour	
(Media on demand)				376
Light sleeping compartment				377
Heating sleeping compartment				378

All symbol cards with part no. are packed in 25s.



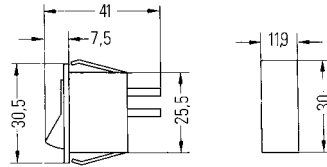
On-off switches

**Rocker switch.
Black push-button.**

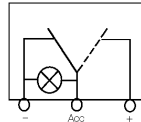
With two 6.3 mm blade terminal contacts.

2 switch positions: 0 = off, 1 = on.

Max. load: 10A at 12V.



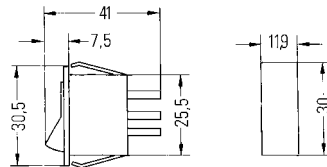
Part no.	Pk.	
6EH 004 406-001	1	On-off switch
6EH 004 406-002	10	carded



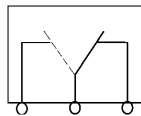
**With 12V bulb,
self-service box.**

Three 6.3 mm blade terminal contacts.

Max. load: 10A at 12V.



Part no.	Pk.	
6EH 004 406-012	1	On-off switch with red warning light
6EH 004 406-022	1	with amber warning light
6EH 004 406-032	1	with green warning light
6EH 004 406-042	1	with blue warning light



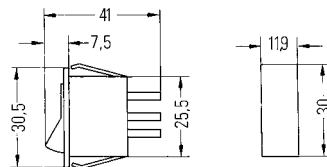
Change-over switch

**Rocker switch.
Black push-button.**

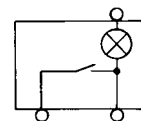
With three 6.3 mm blade terminal contacts.

2 switch positions: 1 and 2.

Max. load: 10A at 12V.



Part no.	Pk.	
6FH 004 406-052	1	Change-over switch



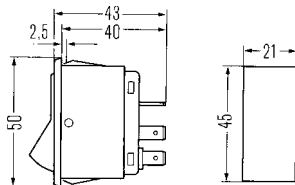
On-off switch

**Rocker switch
with 12V bulb.**

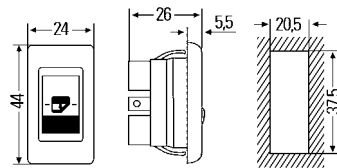
With three 6.3 mm blade terminal contacts.

2 switch positions: 0 = off, 1 = on.

Max. load: 16A at 12V.



Part no.	Pk.	
6EH 003 268-001	5	On-off switch with red warning light
8GP 002 095-121	10	Spare parts: W5/1.2 bulb, 12V1.2W



Power window switch

For window lifts 8EF 006 288-00/-01 and 8EF 006 291-80.

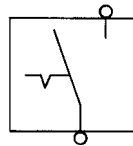
Rocker switch

With five 4.8 mm blade terminal contacts.

3 switch positions: down, 0 = off, up, automatic spring return to off position.

Max. load: 10A at 12V.

Part no.	Pk.	
6GH 857 414-001	1	Power window switch



On-off switches

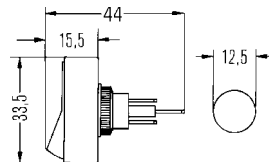
Rocker switch. Black push-button.

Self-service box.

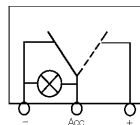
With two 6.3 mm blade terminal contacts.

2 switch positions: 0 = off, 1 = on.

Max. load: 10A at 12V.



Part no.	Pk.	
6EH 004 407-002	1	On-off switch

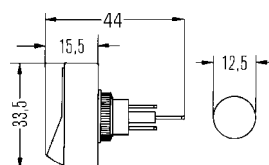


Rocker switch. With 12V bulb.

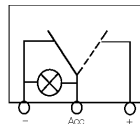
Self-service box.

With three 6.3 mm blade terminal contacts.

Max. load: 10A at 12V.



Part no.	Pk.	
6EH 004 407-012	1	On-off switch with red warning light
6EH 004 407-022	1	with amber warning light
6EH 004 407-032	1	with green warning light
6EH 004 407-042	1	with blue warning light



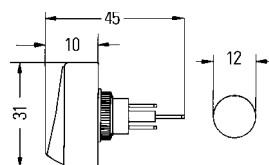
Rocker switch. With 12V bulb.

Self-service box.

With three 6.3 mm blade terminal contacts.

2 switch positions: 0 = off, 1 = on.

Max. load: 10A at 12V.



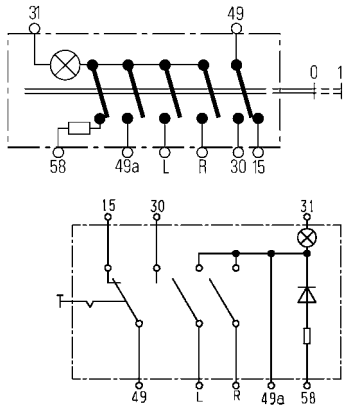
Part no.	Pk.	
6EH 007 946-001	1	On-off switch with green warning light
6EH 007 946-011	1	with red warning light
6EH 007 946-031	1	with amber warning light
6EH 007 946-041	1	with LEDs and green warning light

Hazard flasher switches

On-off switch with red warning light.
With pre-fitted 24V bulb.
 Eight 6.3 mm blade terminal contacts.

2 switch positions: 0 = off, 1 = on.

Max. load: 10 x 21W.

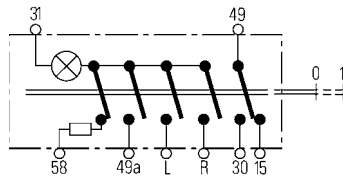


Part no.	Pk.	
6HH 004 175-021	1	Hazard flasher switch without diode
6HH 004 175-077	58	Hazard flasher switch with diode
8GP 002 095-241	1	Spare parts: W5/1.2 bulb, 24V1.2W

Rocker switch with red warning light.
With pre-fitted 12V bulb.
 With eight pin terminals.

2 switch positions: 0 = off, 1 = on.

Max. load: 6 x 21W + 2 x 5W.



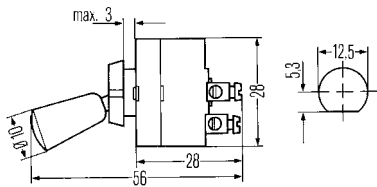
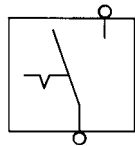
Part no.	Pk.	
6HH 003 631-021	1	Hazard flasher switch
8GP 002 095-121	1	Spare parts: W5/1.2 bulb, 12V1.2W

On-off switches

Toggle switch.
Black lever.
 With two screw contacts.

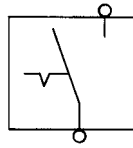
2 switch positions: 0 = off, 1 = on.

Max. load: 6A at 12V, 3A at 24V.



Part no.	Pk.	
6EG 001 567-011	10	On-off switch

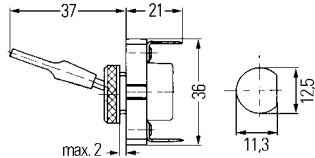
On-off switches



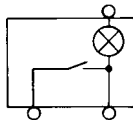
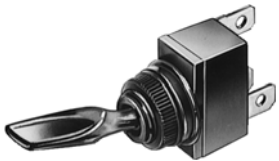
Toggle switch.
Black lever,
made of flexible plastic.
 With two 6.3 mm blade terminal contacts.
 Round nut for fixing.

2 switch positions: 0 = off, 1 = on.

Max. load: 5A at 12V.



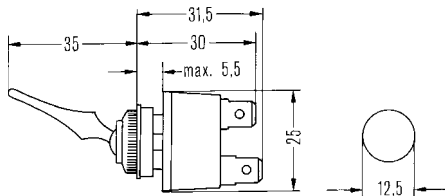
Part no.	Pk.	
6EG 001 567-041	10	On-off switch
6EG 001 567-042	1	carded



Toggle switch.
With 12V bulb.
 With three 6.3 mm blade terminal contacts.

2 switch positions: 0 = off, 1 = on.

Max. load: 10A at 12V.



Part no.	Pk.	
6EG 001 567-112	1	On-off switch with green warning light
6EG 001 567-111	1	carded
6EG 001 567-122	1	with amber warning light

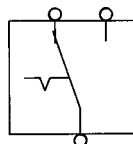


Blower switch, multiple stage.
 With five 6.3 mm blade terminal contacts.
 Type of protection: IP 53 acc. to DIN 400 50
 Temperature resistance: -30 °C - +80 °C.
 Max. load: 30A at 12V.

4 switch positions:
 0 = off
 Position I: 10A
 Position II: 15A
 Position III: 30A

Part no.	Pk.	
6EB 008 845-007	50	On-off switch

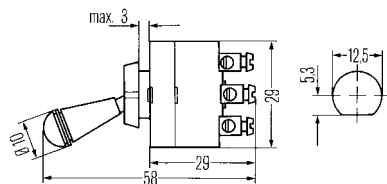
Change-over switches



Toggle switch.
Switch lever silver-coloured.
 With three screw contacts.

2 switch positions: 1 and 2.

Max. load: 5A at 12V, 2A at 24V.



Part no.	Pk.	
6FG 002 312-001	10	Change-over switch
6FG 002 312-002	1	carded



Change-over switches

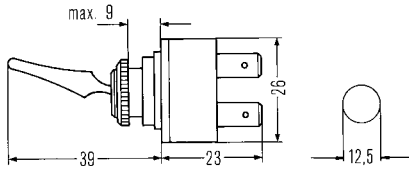
Toggle switch.

**Black lever,
made of flexible plastic.**

With three 6.3 mm blade terminal contacts.

2 switch positions: 1 and 2.

Max. load: 5A at 12V.



Part no.	Pk.	
6FG 002 315-001	1	Change-over switch



Flasher switch

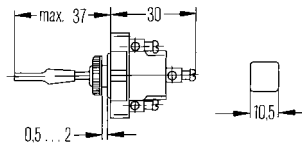
Toggle switch.

Black lever.

With three screw contacts.

3 switch positions: middle = off,
right and left.

Max. load: 5A at 12V, 2A at 24V.



Part no.	Pk.	
6BG 001 545-001	10	Flasher switch

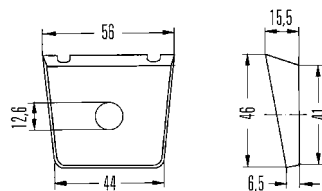


Mounting panel

Suitable for switches

6BG 001 545-..., 6EG 001 567-..., 6EH 004 407-...,
6FG 002 312-..., 6FG 002 315-...

Black grained finish.



Part no.	Pk.	
8HG 002 107-017	1	Mounting panel

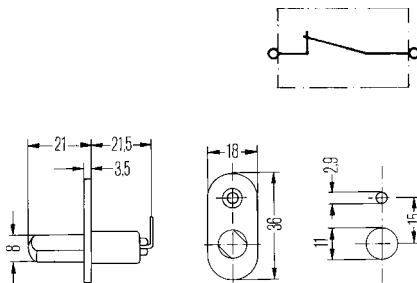


Switches/Door-contact

With one 6.3 mm blade terminal contact.

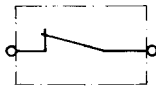
Pin protrudes in "on" position.

Max load: 3.5A at 12V.



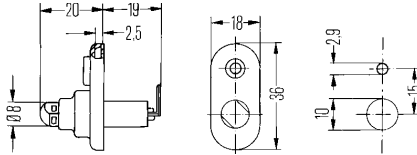
Part no.	Pk.	
6ZF 005 388-001	10	Switch/Door-contact with cover

Switches/Door-contact

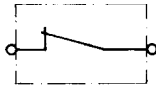


With one 6.3 mm blade terminal contact.
Pin protrudes in "on" position.

Max load: 3.5A at 12V.

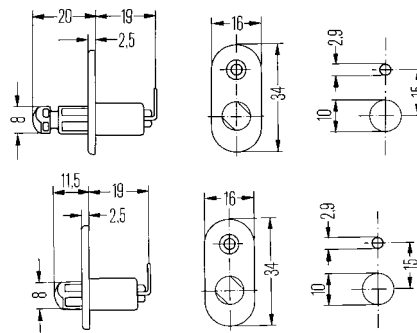


Part no.	Pk.	
6ZF 004 365-031	10	Switch/Door-contact

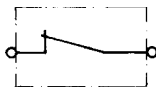


With one 6.3 mm blade terminal contact.
Pin protrudes in "on" position.

Max load: 3.5A at 12V.



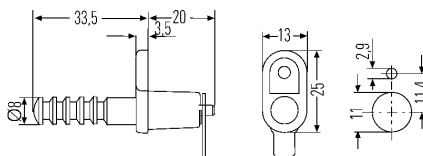
Part no.	Pk.	
6ZF 004 365-001	10	Switch/Door-contact
6ZF 004 365-011	10	Switch/Door-contact



Particularly suitable for anti-theft warning systems and use with low current.

With one 6.3 mm blade terminal contact.
Pin protrudes in "on" position.
Sections of contact pin can be shortened individually up to 20 mm.

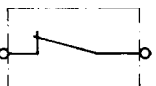
Max. load: 0.4A at 12V.



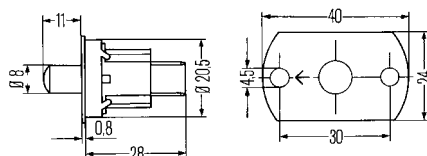
Part no.	Pk.	
6ZF 007 239-001	10	Switch/Door-contact

With two 6.3 mm blade terminal contacts.

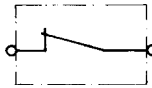
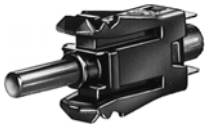
Max. load: 1.5A at 12V, 0.75A at 24V.



Part no.	Pk.	
6ZF 003 549-001	1	Switch/Door-contact Pin protrudes in "on" position
6ZF 003 549-021	10	Pin protrudes in "off" position

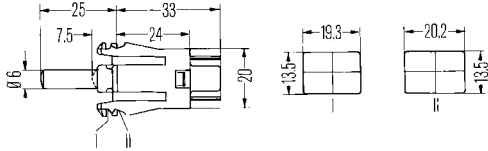


Switches/Door-contact



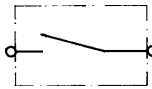
With two 6.3 mm blade terminal contacts.
Pin protrudes in "on" position.

Max. load: 1.5A at 12V.



Part no.	Pk.	
6ZF 004 229-011	1	Switch/Door-contact
6ZF 004 229-017	250	

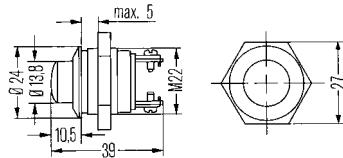
Push-button switches



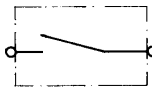
For flush fitting. **Black button.**
Without damp-proof cover.

Two combined screw-/blade terminal contacts,
for mounting surfaces up to 5 mm thick.

Short term load: 20A at 12V, 15A at 24V.



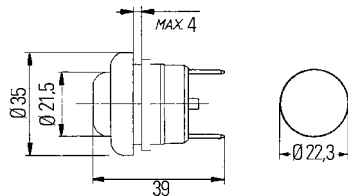
Part no.	Pk.	
6JF 001 571-001	5	Push-button switch
6JF 001 571-002	1	carded



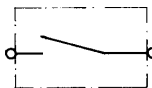
For flush fitting. **Black button.**
With damp-proof cover.

Rubber cap (IP 54 DIN 40050) from the operation side.

Short term load: 20A at 12V, 15A at 24V.



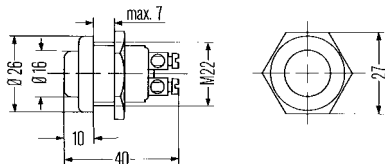
Part no.	Pk.	
6JF 001 571-041	5	Push-button switch
6JF 001 571-047	150	with two 6.3 mm blade terminal contacts
6JF 001 571-071	5	with two screw contacts



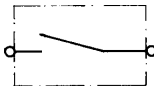
For flush fitting. **Black button.**

With two screw contacts,
for mounting surfaces up to 7 mm thick.

Short term load: 12.5A at 12V, 6.25A at 24V.



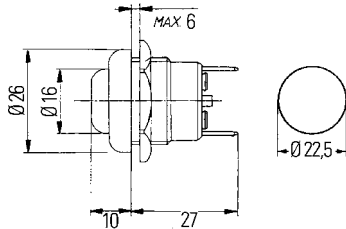
Part no.	Pk.	
6JF 001 571-101	10	Push-button switch



Push-button switches

For flush fitting. Black button.
With two 6.3 mm blade terminal contacts,
for mounting surfaces up to 6 mm thick.

Short term load: 16A at 12V, 8A at 24V.

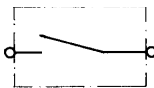


Part no.	Pk.	
6JF 001 571-131	10	Push-button switch



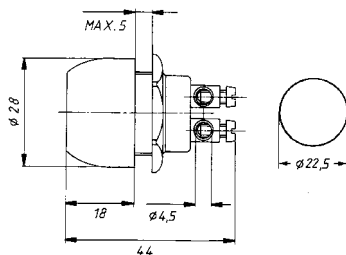
Damp-proof cover,
for switches in model range 6JF 001 571-...

Part no.	Pk.	
9GH 045 833-001	10	Damp-proof cover

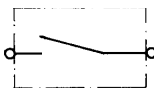


For flush fitting. Black button.
With damp-proof cover.
With two screw contacts,
for mounting surfaces up to 5 mm thick.

Max. load: 16A at 12V, 8A at 24V.

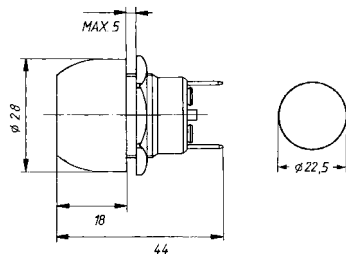


Part no.	Pk.	
6JF 001 571-151	10	Push-button switch



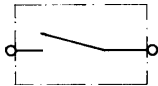
For flush fitting. Black button.
With damp-proof cover.
With two 6.3 mm blade terminal contacts,
for mounting surfaces up to 5 mm thick.

Max. load: 16A at 12V, 8A at 24V.



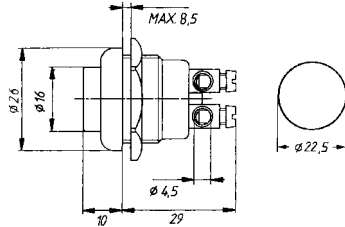
Part no.	Pk.	
6JF 001 571-161	10	Push-button switch

Push-button switches

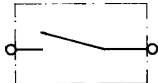


For flush fitting. Metal body.
With 2 screw contacts.

Short term load: 16A at 12V, 8A at 24V.

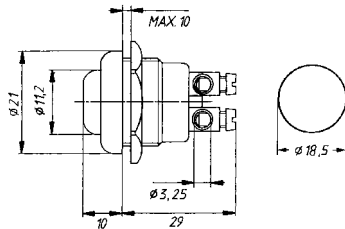


Part no.	Pk.	
6JF 001 571-171	10	Push-button switch for mounting surfaces up to 8.5 mm thick



For flush fitting. Metal body.
With 2 screw contacts.

Short term load: 12A at 12V, 5A at 24V.

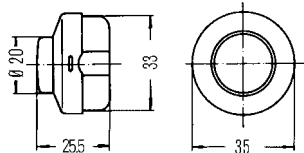


Part no.	Pk.	
6JF 001 571-181	10	Push-button switch for mounting surfaces up to 10 mm thick



For external fitting.
Black button.
Chrome-nickel alloy cap.
With two screw contacts.

Max. load: 10 ecs. with 10A at 12V, 5A at 24V.

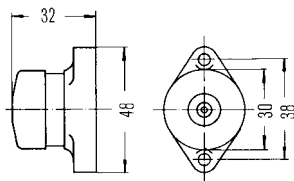


Part no.	Pk.	
6JF 001 572-001	10	Push-button switch



For external fitting.
With two screw contacts.

Max. load: 6A at 12V.



Part no.	Pk.	
6EJ 001 569-001	10	Push-button switch

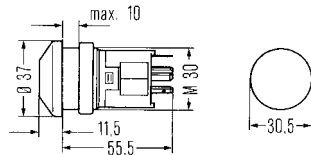
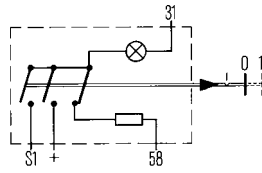
On-off switch

Push-button switch with green warning light. With 12V bulb.

Splash-proofed in front of the dashboard
(according to DIN 40 005, IP 66 A).
With four 6.3 mm blade terminal contacts.

2 switch positions: 0 = off, 1 = on.

Max. load: 14A at 12V.



Part no.	Pk.	
6EF 003 916-061	1	On-off switch
8GP 002 095-121	1	Spare parts: W5/1.2 bulb, 12V1.2W

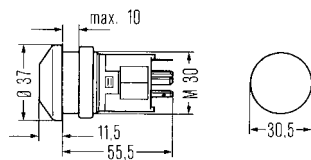
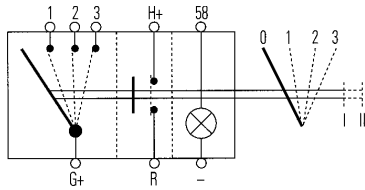
On-off switches

Push-button switch with red warning light.

Predected against spray water
(according to DIN 40 050, IP 66 A).
With nine 6.3 mm blade terminal contacts.

2 switch positions: 0 = off, 1 = on.

Max. load: 14A at 12V, 7A at 24V.



Part no.	Pk.	
6HF 003 916-011	1	Hazard flasher switch with 12V bulb
6HF 003 916-031	1	Hazard flasher switch without contact 30b, with 12V bulb
6HF 003 916-037	50	
6HF 003 916-107	50	with 24V bulb
8GP 002 095-121	1	Spare parts: W5/1.2 bulb, 12V1.2W
8GP 002 095-241	1	24V1.2W

Socket housing

for switches in model range 003 916-...



Part no.	Pk.	
8JA 711 375-001	5	Socket housing, 9-pole carded

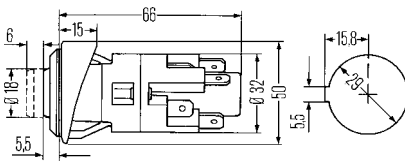
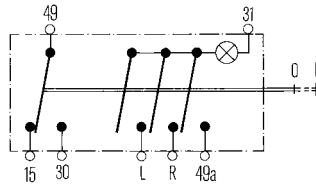
Hazard flasher switches

Push-button switch, for use with combined direction and hazard flasher units 4DM 003 944-041 or 4DW 003 944-051 only.

Except vehicles with stop/flasher change-over.
Red push-button with symbol.
Black grained plastic mounting panel for under-dashboard fitting. Can be mounted into dashboards without mounting panel.

2 switch positions: 0 = off, 1 = on.

Max. load at 12V: Terminal 49-15, 49a-L and 49a-R: 7A, 30b-30: 14A.



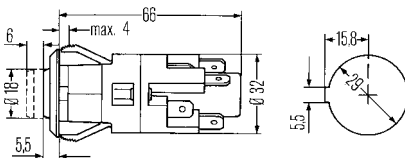
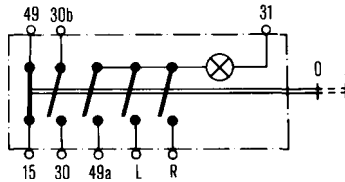
Part no.	Pk.	
6HF 001 579-052	1	Hazard flasher switch with bracket
6HF 001 579-061	2	without bracket
Accessories:		
8GP 002 066-121	10	J bulb, 12V
8GP 002 066-241	10	24V

Push-button switch, for use with combined direction and hazard flasher units 4DM 003 944-041 or 4DW 003 944-051 only.

Except vehicles with stop/flasher change-over.
Red push-button with symbol.
Black grained plastic mounting panel for under-dashboard fitting. Can be mounted into dashboards without mounting panel.

2 switch positions: 0 = off, 1 = on.

Max. load at 12V: Terminal 49-15, 49a-L and 49a-R: 7A, 30b-30: 14A.



Part no.	Pk.	
6HF 001 579-011	5	Hazard flasher switch without bracket
6HF 001 579-071	10	without bracket, with 24 bulb
6HF 001 579-157	100	without bracket, with 24 bulb and red push-button
Spare parts/Accessories:		
8GP 002 066-121	10	J bulb, 12V
8GP 002 066-241	10	24V

Socket housing

Eight 6.3 mm blade terminal contacts for switches in model range 6HF 001 579-...

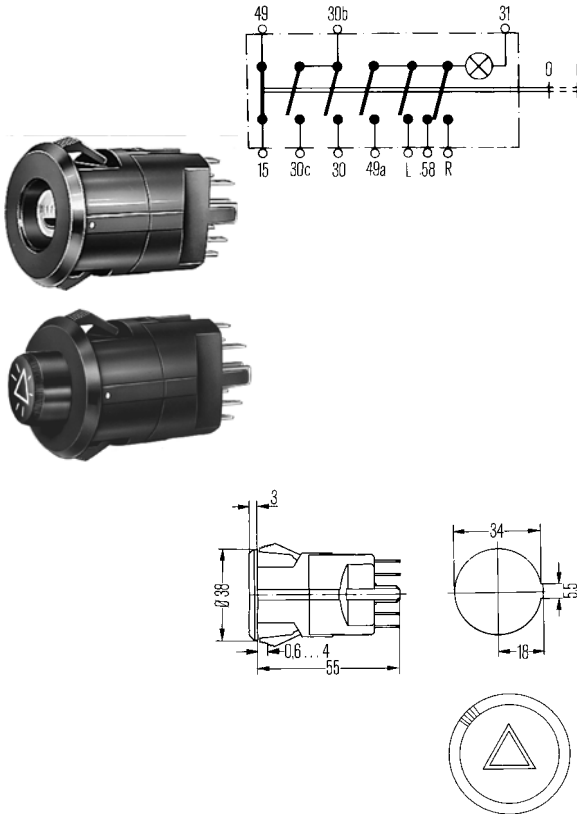


Part no.	Pk.	
8JA 001 926-001	10	Socket housing, 8-pole, carded

Hazard flasher switches

Push button switch.

With ten 6.3 mm blade terminal contacts.
 2 switch positions: 0 = off, 1 = on.
 Max. load: 8 bulbs 21W.



Part no.	Pk.	
6HF 002 372-041	1	Hazard flasher switches without red button
6HF 002 372-051	1	with red button, included separately
Accessories:		
8GP 002 068-121	10	T8/2 bulb, 12V2W
8GP 002 068-241	10	24V2W
9SK 702 331-071	10	Spare parts/Accessories: Push-button, red

Socket housing

for hazard flashes switch 6HF 002 372-041/-051



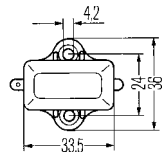
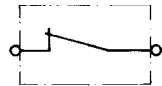
Part no.	Pk.	
8JA 703 947-011	5	Socket housing, 10-pole

Switch, stop light (push-type)

Switch is " on " when in normal position.

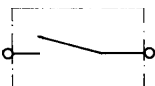
With rubber protective cap.
 With two screw contacts.

Max. load: 7A at 12V.



Part no.	Pk.	
6DF 001 551-091	2	Switch, stop light

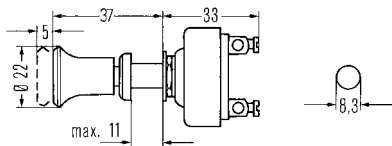
On-off switches



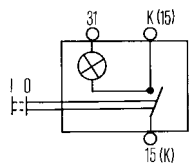
**Push-pull switch, black knob,
for dashboards up to 11 mm thick.**
Two screw contacts.

2 switch positions: 0 = off, 1 = on.

Max. load: 10A at 12V, 5A at 24V.



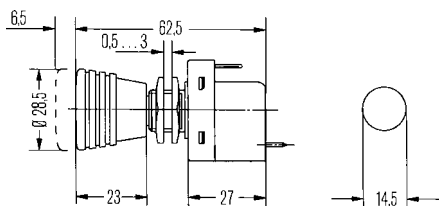
Part no.	Pk.	
6ED 001 564-001	10	On-off switch



**Push-pull switch,
with soft plastic safety knob.**
Three 6.3 mm blade terminal contacts.
Pilot or location light
by reversing terminals 15 and K.

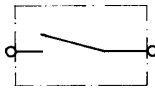
2 switch positions: 0 = off, 1 = on.

Max load: 8A at 12V, 4A at 24V.



Part no.	Pk.	
6ED 004 778-011	2	On-off switch with red warning light
6ED 004 778-021	2	with green warning light
6ED 004 778-031	2	with amber warning light
6ED 004 778-001	2	with green warning light and 12V bulb, in self-service box, interchangeable lenses (1 red and 1 amber) included
Accessories:		
8GP 002 095-121	10	W5/1.2 bulb, 12V1.2W
8GP 002 095-241	10	24V1.2W

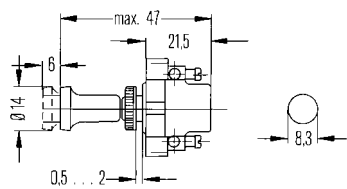
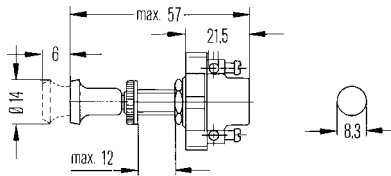
On-off switches



Push-pull switch with black knob.
With two screw contacts.

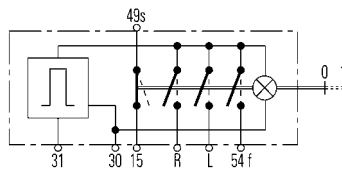
2 switch positions: 0 = off, 1 = on.

Max. load: 10A at 12V.



Part no.	Pk.	
6ED 001 563-001	1	On-off switch for dashboards up to 12 mm thick
6ED 001 563-003	25	
6ED 001 563-004	1	
6ED 001 563-021	10	On-off switch for dashboards up to 2 mm thick

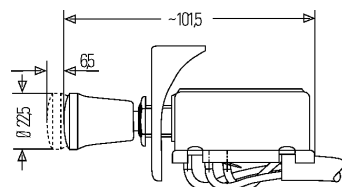
Hazard warning systems



Push-pull switch,
red knob with warning light.
With holder and 600 mm lead set.

2 switch positions: 0 = off, 1 = on.

Max. load: 6 x 21W.



Part no.	Pk.	
6HD 002 535-031	1	Hazard warning system with 12V bulb
6HD 002 535-101	1	with 12V bulb, splash-proof
6HD 002 535-111	1	with 24V bulb
Spare parts:		
8GP 002 095-121	1	W5/1.2 bulb, 12V1.2W
8GP 002 095-241	1	24V1.2W

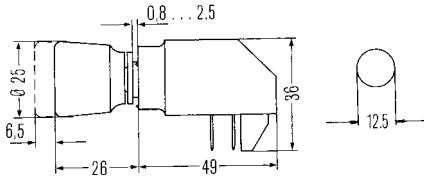
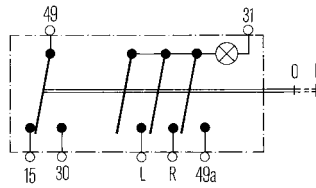
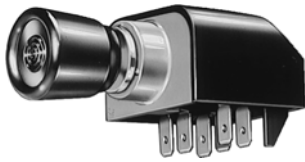
Hazard warning systems

Push-pull switch. With 12V bulb.

Red warning light with safety symbol in soft plastic switch knob.
For mounting to dashboard
or other suitable surface.
Seven 6.3 mm blade terminal contacts.

2 switch positions: 0 = off, 1 = on.

Max. load: 6 x 21W.



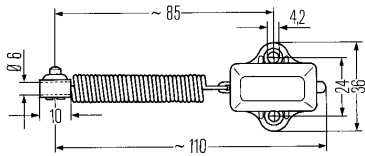
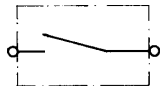
Part no.	Pk.	
6HD 001 561-001	1	Hazard flasher switch
8GP 002 095-121	1	Spare parts: W5/1.2 bulb, 12V1.2W

Push-pull switches, stop light

Push-pull switch, spring is tensioned in "on" position, switch is "off" when in normal position.

Plastic body.
Clamp for 6 mm brake linkage dia.
With two screw contacts.

Max. load: 7A at 12V.



Part no.	Pk.	
6DD 001 551-001	2	Switch, stop light without rubber protective cap, with 65 mm spring length
6DD 001 551-011	2	with rubber protective cap and 65 mm spring length
6DD 001 551-017	250	
6DD 001 551-187	126	with rubber protective cap and 72 mm spring length

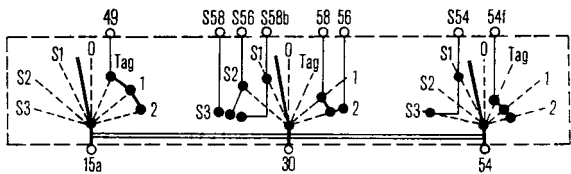
Lighting switch

Rotary switch for mounting into dashboards.

Painted after RAL 6031.
Splash-proof,
with eleven screw contacts.

For 2 mutually separated circuits
a = standard legal circuit, b = camouflage circuit.

Max.load: 5A at 24V.



Part no.	Pk.	
6LB 005 389-001	1	Lighting switch

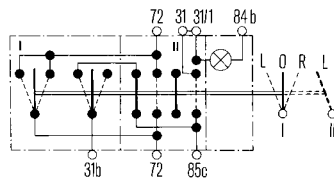


Switch for headlight levelling

Regulating switch for installation in dashboard. With 12V bulb.

With five 2.8 mm blade terminal contacts.
4 switch positions:
zero position snap-locked, limit stop.

Part no.	Pk.	
6ZB 006 377-017	30	Regulating switch



Alarm switches

Push-pull-rotary alarm switch with warning light.

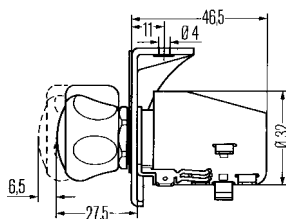
Softplastic knob with inscription ALARM and symbol for rotating beacon.
Seven blade terminal contacts.

4 switch positions: 0 = off,
right = rotating beacon on, townhorn ready for operation,
left = rotating beacon on, successive-tone signal ready for operation,
pulled out = rotating beacon on; permanent operation of successive-tone signal.

Max. load terminal 72 to 72: 20A at 12V,
terminal 31 to 31 or 85c: max. 1A.

For positive input (positive earth) it is necessary to separate the clamp on terminal 31/1.

Part no.	Pk.	
6ZE 001 759-051	1	Alarm switch with 12V bulb
6ZE 001 759-061	2	with 24V bulb
Spare parts:		
9SG 703 965-007	1	Knob
8GP 002 095-121	10	W5/1.2 bulb, 12V1.2W
8GP 002 095-241	1	24V1.2W



Push-pull-rotary alarm switch with warning light.

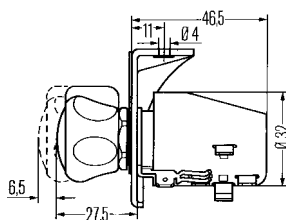
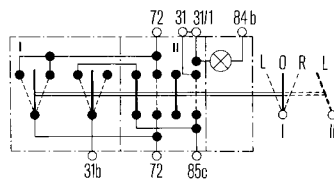
Softplastic knob with inscription ALARM and symbol for rotating beacon.
Seven blade terminal contacts.

3 switch positions: 0 = off,
left = rotating beacon on, successive-tone signal ready for operation,
pulled out = rotating beacon on, operation of successive-tone signal.

Max. load terminal 72 to 72: 20A at 12V,
terminal 31 to 31 or 85c: max. 1A.

For positive input (positive earth) it is necessary to separate the clamp on terminal 31/1.

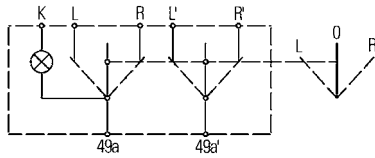
Part no.	Pk.	
6ZE 001 759-071	1	Alarm switch with 12V bulb and spare 24V bulb
Spare parts:		
9SG 703 965-007	1	Knob
8GP 002 095-121	10	W5/1.2 bulb, 12V1.2W
8GP 002 095-241	1	24V1.2W



Flasher switches

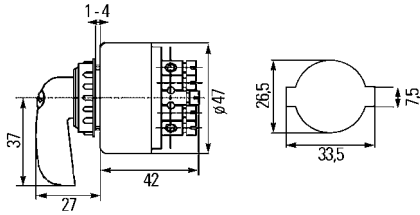
Rotary switch, with red warning light incorporated in lever.

With integrated bulb holder.
Seven screw contacts.
With a complete circuit diagram, the switch can also be used as a two-pole change-over switch with Off in the central position.



3 switch positions: middle = off, right and left.

Max. load: 4A at 12V.



Part no.	Pk.	
6BB 001 540-001	1	Flasher switch
8GP 002 066-121	10	Accessories: J bulb, 12V

Rotary switch.

With three 6.3 mm blade terminal contacts.

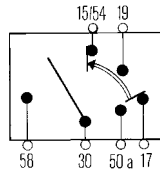
3 switch positions: middle = off, left and right,

Max. load at 25,000 switch positions: 5A.
Switching point per switch position: $25^\circ \pm 5^\circ$ from the 0-position.



Part no.	Pk.	
6BG 008 844-007	50	Flasher switch

Pre-heating starter switches



Rotary switch with safety lock.

2 keys with plastic cap supplied.
Key removable in position P and 0.

5 switch positions:

P = side light, 0 = off,

1 = driving position, 2 = pre-heat, 3 = start.

Key with spring-loaded return from positions 2 and 3.

Max. load:

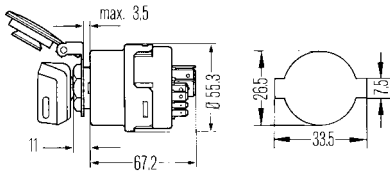
Terminal 30 with 58: 8A at 12V

Terminal 30 with 15/54: 35A at 12V, 17,5A at 24V

Terminal 30 with 19: 60A at 12V, 130A at 24V

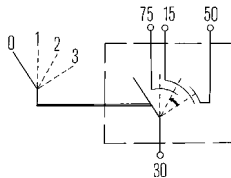
Terminal 30 with 17: 60A at 12V, 130A at 24V

Terminal 30 with 50a: 60/18A at 12V, 140/5A at 24V.



Part no.	Pk.	
6JB 003 959-001	1	Pre-heating starter switch with cap
6JB 003 959-067	48	without cap
6JB 003 959-011	1	with wall key and starter repeat lockout and cap
6JB 003 959-021	1	with switching key, moisture protection and cap
6JB 003 959-031	1	with switching key with moisture protection, starter repeat lockout and cap
		Spare parts/Accessories:
8JA 735 460-001	1	Plug, 4-pole
8JA 735 461-001	1	6-pole
9SL 740 558-007	1	Key

Ignition and starter switches



Rotary switch with safety lock.

2 keys with plastic cap supplied.
Key removable in position 0.

4 switch positions:

0 = off,

1 = special loadson,

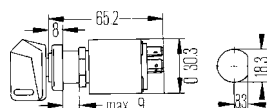
2 = ignition,

3 = start, special loads off.

Switch lever with spring-loaded return from position 3.

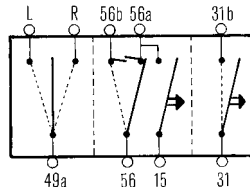
Max. load at 12V:

terminal 15 = max. 25A, terminal 50 = max. 50A, terminal 75 = max. 20A.



Part no.	Pk.	
6JK 007 232-001	1	Ignition and starter switch, 12V with repeat start block
6JK 007 232-011	1	with repeat start block, IP65
6JK 007 232-017	50	

Combination switches

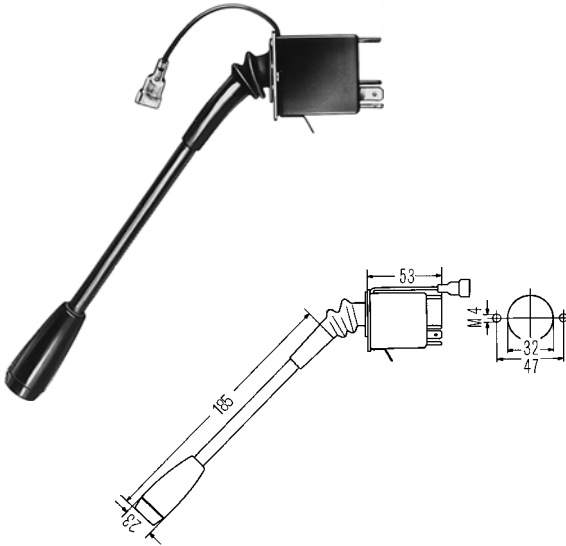


Steering column mounted switch for flush fitting. Flasher switch with contact for horn and direction indicator light.

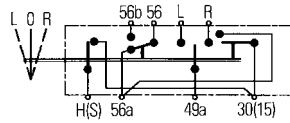
Black handle.
With eight blade terminal contacts and connecting lead.
Two M4 fixing screws.

Switch positions: middle = off, dipped beam, flasher light left and right, forward = main beam, backward = headlamp flasher on, push button = horn, on and off.

Max. load at 12V: 8A for direction indicator light, 15A for main/dipped beam, 10A for headlamp flasher (inductive), 10A for horn (inductive).



Part no.	Pk.	
6TA 003 394-001	1	Combination switch with 185 mm long lever
6TA 003 394-007	30	
6TA 003 394-011	1	with 126 mm long lever
6TA 003 394-017	48	
6TA 003 394-047	1	with 111 mm long lever

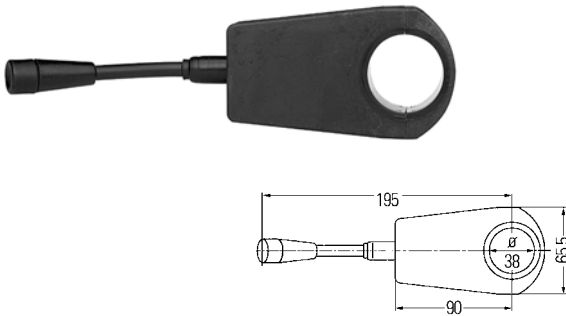


Steering column mounted switch for flush fitting. Flasher switch with contact for horn and direction indicator light.

Black body and handle.
Mounting strap for steering column 38 mm dia.

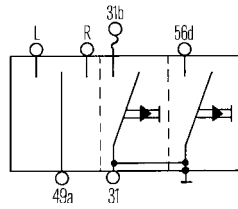
Positions: middle = off, dipped beam, flasher light left and right, forward = headlamp flasher on, push button = horn, on and off.

Max. load:
Direction indicator light: 8A at 12V, 3,5A at 24V,
dipped beam and driving-beam light:
15A at 12V, 4,5A at 24V,
headlamp flasher on: 10A at 12V, 4,5A at 24V,
horn: 10A at 12V, 4A at 24V.



Part no.	Pk.	
6TA 008 520-017	1	Combination switch, with 200 mm lead and 9-pole connector AMP 350720-1
6TA 008 520-027	1	
6TA 008 520-047	1	with 430 mm lead and 9-pole connector AMP 350720-1

Combination switches

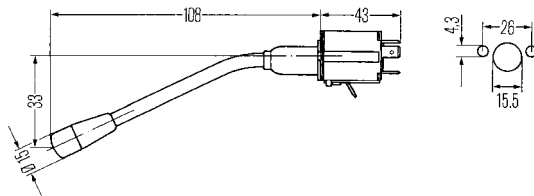


**Steering column mounted switch for flush fitting.
Flasher switch with contact for horn and direction indicator light.**

Black knob and lever.
Six 6.3 mm blade terminal contacts.
Two M4 fixing screws.

Switch positions: middle = off,
flasher light left and right,
push button = horn on and off,
lever in raised position = headlamp flasher on.

Max. load at 12V: 8A for flasher light,
10A (inductive) for horn,
2A (inductive) for headlamp flasher.



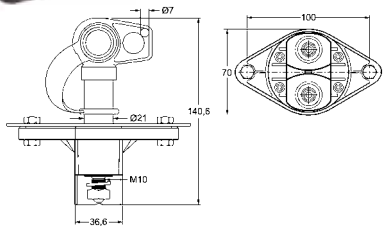
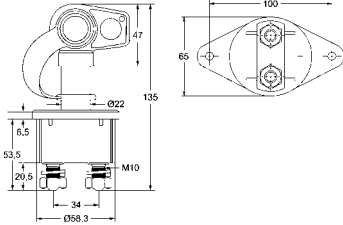
Part no.	Pk.	
		Flasher switch
		with 108 mm long, lever bent 26° and 60 mm long lead with 6.3 mm blade terminal contact for terminal 31b
6BA 001 539-001	1	
6BA 001 539-007	100	
		with 123 mm long, black lever bent 45° and 60 mm long lead with 6.3 mm blade terminal contact for terminal 31b
6BA 001 539-027	1	
		with 115 mm long lever bent 12° and 60 mm long lead with 6.3 mm blade terminal contact for terminal 31b
6BA 001 539-017	1	
		with 123 mm long lever, bent upwards 45°, knob with symbols, with lead set
6BA 001 539-057	1	
		with 115 mm long, straight, lever, knob with symbols, with lead set
6BA 001 539-047	1	
		without headlamp flasher contact, with 120 mm long, straight, lever, knob with symbols, with lead set
6BA 001 539-107	100	

Battery master switches



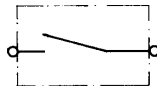
For battery - and ignition current, red control key.
Housing and key made of plastic.
Screw fixing.
Two screw contacts M10 x 1,5.
Connection cross-sections of the supply lines for three-phase current:
35 sq. mm at 100A, 70 sq. mm at 250A, 250 sq. mm at 500A.

2 switch positions: 0 = off, 1 = on.



Part no.	Pk.	
		Max. load: 2000A at 24V (5 sec.) Nominal current: 250A. Type of protection: IP65 in accordance with DIN/ISO 40 050.
6EK 002 843-111	1	Battery master switch
		Max. load: 2500A at 32V (10 sec.) Nominal current: 500A Type of protection: IP65 in accordance with DIN/ISO IEC 529.
6EK 002 843-121	1	Battery master switch
		Max. load: 2000A at 24V (5 sec.) Nominal current: 250A Type of protection: IP69K in accordance with DIN/ISO 40 050.
6EK 002 843-131	1	Battery master switch
		Max. load: 2000A at 24V (5 sec.) Nominal current: 250A. Type of protection: IP65 in accordance with DIN/ISO 40 050. Switchable under load: can be activated 50 times at most with a load of 250A.
6EK 002 843-141	1	Battery master switch
		Max. load: 2000A at 24V (5 sec.) Nominal current: 250A. Type of protection: IP65 in accordance with DIN/ISO 40 050. Switchable under load: can be activated 50 times at most with a load of 250A.
6EK 002 843-151	1	Battery master switch

Battery master switches

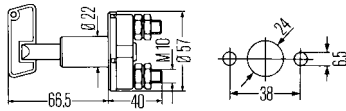


For battery and ignition current. With red key.
 Connection to either positive or negative lead.
 Switch key removable in "off" position only.
 Current supply interrupted when key removed.
 Two screw contacts.

2 switch positions: 0 = off, 1 = on.

Max. continuous load:
 1000A at 12V (10 sec.), 500A at 24V (10 sec.).

50A at max. ambient temperature of 80° C with
 35 sq. mm lead connected with ring-type terminals
 Ringzungen angeschlossenen Leitung von 35 mm².
 Type of protection DIN 40 050 - IPX 2.



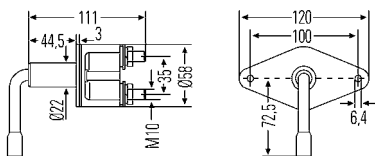
Part no.	Pk.	
6EK 002 843-001	1	Battery master switch
6EK 002 843-003	1	carded
6EK 002 843-007	120	
Type of protection DIN 40 050: Key side IPX4, connection side IPX 2. Max. load: 100A at 24V		
6EK 002 843-013	1	Battery master switch
6EK 002 843-017	20	with tinned screw contacts
Type of protection: Key side IPX4, connection side IPX 2. Max. load: 150A at 24V.		
6EK 002 843-051	1	Battery master switch
6EK 002 843-057	50	with silver-plated screw contacts
Spare parts:		
9SL 706 729-011	10	Key

For battery main lead, with key.
 Connection to either positive or negative lead.
 Switch key removable in "off" position only.
 Current supply interrupted when key removed. Two screw contacts.

2 switch positions: 0 = off, 1 = on.
 Max. load: 2500A at 24V (10 sec.)

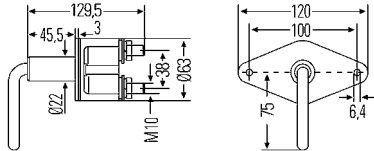
Max. continuous load: 100A at max. ambient
 temperature of 60 °C with 50 sq. mm lead connected
 with ring-type terminals.

Type of protection:
 Key side IPX4, connection side IP53.



Part no.	Pk.	
6EK 001 559-001	1	Battery master switch
6EK 001 559-007	24	with one screw for each screw terminal
6EK 001 559-011	1	with two screws for each screw terminal

Battery master switches



Part no.	Pk.	
6EK 008 458-011	1	<p>Max. continuous load: 250A at max. ambient temperature of 60 °C with 70 sq. mm lead connected with ring-type terminals. With min. 70 sq. mm lead. Type of protection: IP65. Operating temperature: -40° C to + 85° C.</p> <p>Battery master switch, key without loss-protection</p> <hr/> <p>Operating current: 250A continuous load, 800A / 30 sec., 2500 / 5 sec. Type of protection: IP65.</p>
6EK 008 458-037	20	<p>Battery master switch, key with loss-protection</p>



Rotary switch for flush- or external fitting.

Housing and button switch made of plastic.
Several switches can be connected together saving space by removing the side wall. The red button switch can only be removed if it has been turned 45° anti-clockwise.
Splash-proof. Current connection: 2 x M10 screws.
Type of protection: IP56 in compliance with DIN 40 050.
Max. load: 225A (continuous load) at 12V/24V, max. 1000A (10 sec.) at 12V/24V.

Part no.	Pk.	
6EK 002 843-071	1	Battery master switch

Battery master switches

With 2 predictive caps.

Key-controlled master switches for separating and protecting the battery and all vehicle electric circuits.

The versions with separate coil feed make it possible to separate any other circuits, e.g. side lifts.

The switches can also be used to protect cables with large power capacities, e.g. cables for starters, electromagnetic retarders etc.

Technical data:

Nominal operating voltage: 12V/24V.

Operating current during continuous operation: max. 250A.

Operating current during brief operation:

1. 2500A for max. 5 seconds
2. 2000A for max. 30 seconds
3. 1500A for max. 60 seconds

Type of protection: IP65 (IEC 529)

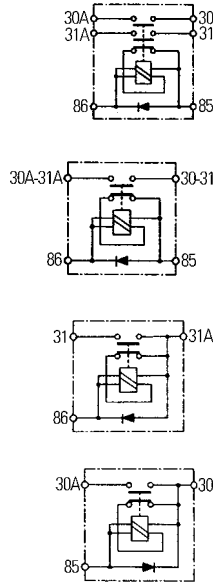
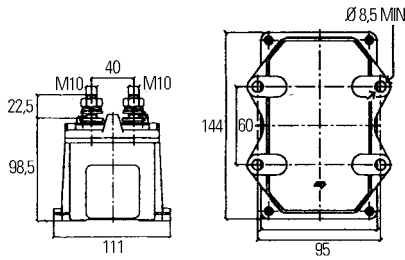
Min./max. operating temperature: -40 °C/ +85 °C.

Nominal peak consumption of the coil: 2.6A at 12V, 3.2A at 24V.

Nominal consumption of the coil during normal operation:

0.4A at 12V, 0.3A at 24V.

Connection bolts M10 (galvanised brass). Brass nuts for contacts.



Part no.	Pk.	
6EK 008 776-001	1	Battery master switch, separates + and - poles, 12V
6EK 008 776-011	1	24V
6EK 008 776-021	1	Battery master switch, with separate coil, 12V
6EK 008 776-031	1	24V
6EK 008 776-041	1	Battery master switch, separates - pole, 24V
6EK 008 776-051	1	Battery master switch, separates + pole, 24V

Foot-operated dipper switch

With catch.

A dark zone is not generated during the switchover procedure.

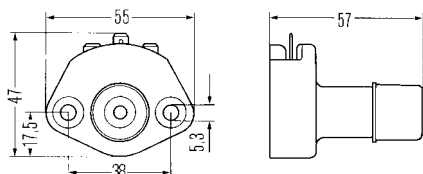
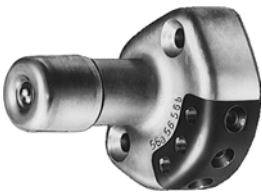
Operating pressure 40-60 N.

Metal body.

Three screw contacts. (According to C DIN 72 758).

2 switch positions: 0 = off, 1 = dipped beam on.

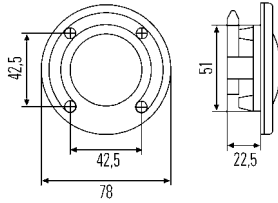
Max. load: 15A at 12V..



Part no.	Pk.	
6AJ 001 751-021	1	Foot-operated dipper switch

Foot-operated switches / Loading platform switches

Die-cast zinc housing.
 Temperature stability: -20 °C to +80 °C.
 Switch with 0.5 m lead.
 Max. load: 5A at 24V.

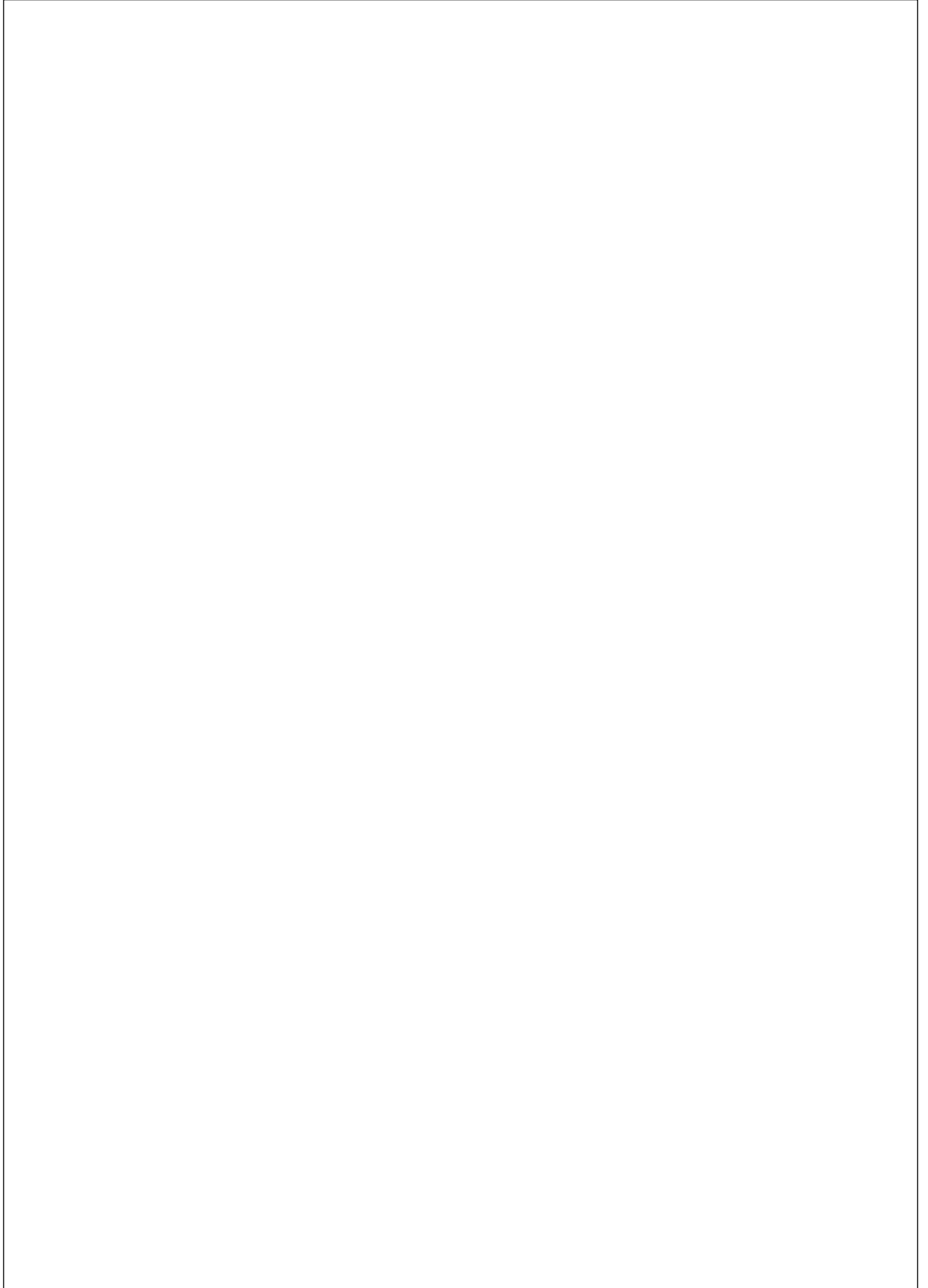


Part no.	Pk.	
6EJ 996 067-631	1	Foot-operated switch, black = neutral
6EJ 996 067-621	1	red = raise
6EJ 996 067-611	1	green = lower
<hr/>		
6EJ 996 067-737	100	Loading platform switch with mounted silicone micro-switch, black = neutral
6EJ 996 067-727	100	black = raise
6EJ 996 067-717	100	black = lower

Pressure and tappet switches



Part no.	Pk.	
6ZF 182 914-001	1	ZF transmissions 16S-1650 MAZ, 8S-1350 KAMAZ Tappet switch
6ZF 182 914-011	1	VW do Brasil ZF transmission S5-420, bus 8-120, 8-150, 9-150 Tappet switch
6ZF 182 914-021	1	Various ZF transmissions Tappet switch
6ZF 182 914-031	1	ZF transmissions 16S-1650, S5-20 16K/S-112, 130, 151, 160, 190, 220, 1300, 1600 5S-111GP/-150GP, S6-90 ZF transmissions S5-680/S6-680/8S-1350/9S-75/ 16S-1300/16S-1600/16S-1650 Mercedes-Benz commercial vehicles L 1218/LK 1218/L 1418/LK 1418/L 1620 LK 1620/L 1622/L L 1632/LS 1632/L 1633/ ... Mercedes-Benz buses 0371 RSD/0373/0400 RSD/0400RSE MAN and Scania commercial vehicles Tappet switch
6ZF 182 914-041	1	MAN commercial vehicles Control switch for locking the driver's cab Tappet switch
6ZF 182 914-051	1	MAN and Kamaz pressure switch Scania and DAF gear switch ZF transmissions S6-1550/8S-1350/16S-1300/ 16S-1600/16S-1650/16S-1900 Mercedes-Benz G-24/G-32/G-60 Mercedes-Benz commercial vehicles L 1632/LS 1632/L 1633/LS 1633/L 1634/LS 1634/L 1935/L 1938/1938 S/L 1941 Mercedes-Benz buses 0371 RSD/0373/0400 RSD/0400 RSE Tappet switch
6ZF 182 914-061	1	Mercedes-Benz Lock pressure switch for transfer case G-Class Tappet switch





Wiper Blades, Water Pumps, Water Tanks, Headlight Cleaning Systems



Wiper blades (left hand drive)

Product descriptions

4.02-4.04

**Circulation pumps, vacuum pumps, water pumps,
window- and headlight cleaning**
Product descriptions

4.05-4.12

Water tanks

Product descriptions

4.14-4.19

Application combinations, water pumps / water tanks

4.20-4.23

Headlight cleaning systems

4.13

**The vehicle application overviews can be found
in the Hella Online Catalogue and TecDoc**

Wiper blade sets for cars, vans, commercial and agriculture vehicles

Contains: 2 pieces

S = with spoiler; G = jointless, vehicle-specific;

GN = jointless, retrofit



Part no.	Pk.		
9XW 857 505-801	1	WB 1	280/280 mm
9XW 857 510-801	1	WB 3	400/400 mm
9XW 857 512-801	1	WB 4	450/450 mm
9XW 857 514-801	1	WB 5	500/500 mm
9XW 857 511-801	1	WB 7	420/420 mm
9XW 857 513-801	1	WB 8	475/475 mm
9XW 857 515-801	1	WB 9	530/530 mm
9XW 857 509-801	1	WB 12	380/380 mm
9XW 857 516-801	1	WB 13	550/550 mm
9XW 858 790-801	1	WB 19	500/450 mm
9XW 859 308-801	1	WB 20	600/600 mm S
9XW 859 865-801	1	WB 21	530/530 mm S
9XW 859 866-801	1	WB 22	530/475 mm S
9XW 860 645-801	1	WB 23	600/600 mm
9XW 860 646-801	1	WB 24	530/500 mm S
9XW 860 647-801	1	WB 26	500/500 mm (rubber)
9XW 860 648-801	1	WB 27	340/340 mm
9XW 860 649-801	1	WB 28	550/500 mm
9XW 860 651-801	1	WB 30	600/500 mm S
9XW 860 658-801	1	WB 31	600/475 mm S
9XW 860 659-801	1	WB 32	575/400 mm
9XW 861 931-801	1	WB 33	475/475 mm S
9XW 860 660-801	1	WB 35	500/500 mm S
9XW 861 933-801	1	WB 36	550/550 mm S
9XW 861 935-801	1	WB 37	700/700 mm
9XW 861 934-801	1	WB 38	530/450 mm S
9XW 861 941-801	1	WB 41	600/550 mm S
9XW 861 942-801	1	WB 42	530/530 mm S
9XW 862 043-801	1	WB 43	650/550 mm
9XW 862 044-801	1	WB 44	650/500 mm
9XW 862 064-801	1	WB 45	530/475 mm S
9XW 862 065-801	1	WB 46	600/500 mm
9XW 862 066-801	1	WB 47	450/450 mm S
9XW 862 067-801	1	WB 48	500/475 mm
9XW 862 068-801	1	WB 49	580/500 mm S
9XW 862 115-801	1	WB 51	600/600 mm S
9XW 862 181-801	1	WB 53	550/530 mm
9XW 862 220-801	1	WB 55	550/475 mm S
9XW 862 221-801	1	WB 56	640/400 mm S
9XW 862 223-801	1	WB 58	650/650 mm
9XW 862 743-801	1	WB 60	600/550 mm S
9XW 862 771-801	1	WB 61	400/550 mm S
9XW 863 099-801	1	WB 63	550/500 mm S
9XW 863 146-801	1	WB 65	500/480 mm S
9XW 863 147-801	1	WB 66	530/450 mm
9XW 863 148-801	1	WB 67	475/475 mm S
9XW 864 092-801	1	WB 68	650/475 mm S
9XW 864 093-801	1	WB 69	700/650 mm S
9XW 864 094-801	1	WB 70	600/450 mm S
9XW 863 873-801	1	WB 73	530/530 mm G
9XW 863 874-801	1	WB 74	475/530 mm G
9XW 863 875-801	1	WB 75	550/550 mm G
9XW 863 876-801	1	WB 76	700/700 mm G
9XW 863 877-801	1	WB 77	475/600 mm G
9XW 863 879-801	1	WB 79	650/650 mm G
9XW 863 880-801	1	WB 80	680/680 mm G
9XW 863 881-801	1	WB 81	650/475 mm G
9XW 863 882-801	1	WB 82	650/550 mm G
9XW 168 955-801	1	WB 83	700/600 mm G
9XW 168 956-801	1	WB 84	650/425 mm G
9XW 010 189-801	1	WB 85	530/475 mm G
9XW 010 190-801	1	WB 86	600/475 mm G
9XW 864 075-801	1	WB 90	475/475 mm GN
9XW 864 076-801	1	WB 91	530/450 mm GN
9XW 864 077-801	1	WB 92	530/475 mm GN
9XW 864 078-801	1	WB 93	530/530 mm GN
9XW 864 079-801	1	WB 94	550/475 mm GN
9XW 864 080-801	1	WB 95	550/530 mm GN

Wiper blade sets for cars, vans, commercial and agriculture vehicles

Contains: 2 pieces

S = with spoiler; G = jointless, vehicle-specific;

GN = jointless, retrofit



Part no.	Pk.	Wiper Blade	Dimensions
9XW 864 081-801	1	WB 96	600/475 mm GN
9XW 864 082-801	1	WB 98	600/400 mm GN
9XW 864 083-801	1	WB 99	600/450 mm GN
9XW 864 084-801	1	WB 100	650/400 mm GN
9XW 168 958-801	1	WB 101	650/450 mm GN
9XW 168 959-801	1	WB 102	650/650 mm GN
9XW 168 960-801	1	WB 103	550/400 mm GN
9XW 168 962-801	1	WB 104	575/400 mm GN
9XW 168 963-801	1	WB 105	450/450 mm GN
9XW 177 810-801	1	WB 106	550/500 mm S/GN
9XW 177 811-801	1	WB 107	500/475 mm S/GN
9XW 177 815-801	1	WB 108	500/450 mm S/GN
9XW 177 816-801	1	WB 109	600/600 mm S/GN
9XW 177 817-801	1	WB 110	475/425 mm S/GN
9XW 177 818-801	1	WB 111	530/530 mm S/GN
9XW 177 819-801	1	WB 112	530/500 mm S/GN
9XW 177 820-801	1	WB 113	600/475 mm S/G
9XW 177 824-801	1	WB 114	650/575 mm S/G
9XW 177 827-801	1	WB 115	600/575 mm S/G
9XW 177 828-801	1	WB 116	550/450 mm S/G
9XW 177 829-801	1	WB 117	700/650 mm S/G
9XW 177 830-801	1	WB 118	550/400 mm S/G
9XW 177 832-801	1	WB 119	600/450 mm S/G
9XW 177 833-801	1	WB 120	600/450 mm S/G

Wiper blades, single for cars, vans, commercial and agriculture vehicles

Contains: 1 piece

S = with spoiler; G = jointless, vehicle-specific;

GN = jointless, retrofit



Part no.	Pk.		
9XW 860 653-001	1	WB H1	340 mm
9XW 860 654-001	1	WB H2	400 mm
9XW 860 655-001	1	WB H3	450 mm
9XW 860 656-001	1	WB H4	480 mm
9XW 860 657-001	1	WB H5	500 mm
9XW 862 998-001	1	WB H6	280 mm
9XW 858 084-001	1	WB 18	600 mm
9XW 860 652-001	1	WB 25	650 mm
9XW 861 932-001	1	WB 34	640 mm
9XW 857 513-001	1	WB 54	450 mm
9XW 863 871-001	1	WB 71	750 mm G
9XW 168 957-001	1	WB 97	650 mm GN
9XW 862 050-001	1	NB 400	400 mm
9XW 862 051-001	1	NB 450	450 mm
9XW 862 052-001	1	NB 500	500 mm
9XW 862 054-001	1	NB 550	550 mm
9XW 862 055-001	1	NB 551	560 mm
9XW 862 056-001	1	NB 600	600 mm
9XW 862 058-001	1	NB 650	650 mm
9XW 862 059-001	1	NB 700	700 mm
9XW 862 060-001	1	NB 800	800 mm
9XW 862 061-001	1	NB 900	900 mm
9XW 862 062-001	1	NB 1000	1000 mm
9XW 178 878-141	1	WP 14	350 mm
9XW 178 878-151	1	WP 15	375 mm
9XW 178 878-161	1	WP 16	400 mm
9XW 178 878-171	1	WP 17	425 mm
9XW 178 878-181	1	WP 18	450 mm
9XW 178 878-191	1	WP 19	475 mm
9XW 178 878-201	1	WP 20	500 mm
9XW 178 878-211	1	WP 21	525 mm
9XW 178 878-221	1	WP 22	550 mm
9XW 178 878-231	1	WP 23	575 mm
9XW 178 878-241	1	WP 24	600 mm
9XW 178 878-261	1	WP 26	650 mm
9XW 184 107-201	1	WT 20	500 mm
9XW 184 107-221	1	WT 22	550 mm
9XW 184 107-241	1	WT 24	600 mm
9XW 184 107-261	1	WT 26	650 mm
9XW 184 107-281	1	WT 28	700 mm
9XW 184 107-321	1	WT 32	800 mm
9XW 184 107-361	1	WT 36	900 mm
9XW 184 107-401	1	WT 40	1000 mm

Circulation pumps

MP 30

Output: 950l/h at 0,1 bar
Consumption: 1.2A
Ø In: 20 mm
Ø Out: 20 mm
Plug: AMP 350 777-1

Part no.	Pk.	
8TW 005 755-117	20	Circulation Pump, 12V



MP 32

Output: 1200l/h bei 0,2 bar
Consumption: 2.4A
Ø In: 20 mm
Ø Out: 20 mm
Plug: AMP Junior-Power-Timer 927771-1

Part no.	Pk.	
8TW 007 121-047	12	Circulation Pump, 12V



Vacuum Pumps

for brake booster



Vacuum pumps

UP 28



Power consumption approx.: 150W
 Vacuum at ambient pressure: 50% at <= 5s
 70% at <= 10,5s
 max. >= 86%
 Intake socket dia.: 12 mm
 Plug: Kostal 09401630

Part no.	Pk.	
8TG 008 570-027	6	Vacuum pump, 12V

Power consumption approx.: 150W
 Vacuum at ambient pressure: 50% at <= 5s
 70% at <= 10,5s
 max. >= 86%
 Intake socket dia.: in acc. with SAE J2044
 Plug: Yasaki 2.8



Part no.	Pk.	
8TG 009 428-087	6	Vacuum pump, 12V

UP 30

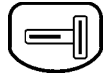
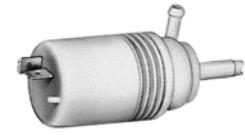


Power consumption approx.: 240W
 Vacuum at ambient pressure: 50% at <= 5s
 70% at <= 7,0s
 max. >= 86%
 Intake socket dia.: in acc. with SAE J2044
 Plug: Yasaki 2.8

Part no.	Pk.	
8TG 009 286-001	1	Vacuum pump, 12V

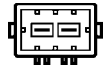
Water pumps

WSS = window cleaning / SRA = headlight cleaning



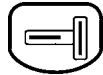
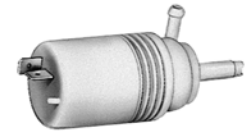
Application: WSS / SRA
Power: 2 bar, 1 l/min
Ø Housing: 35 mm
Design: mono
Ø In: 7 mm
Ø Out: 6 mm
Plug: 8JD 008 151-021

Part no.	Pk.	
8TW 004 223-031	1	



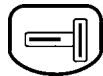
Application: WSS
Power: 2 bar, 1 l/min
Ø Housing: 35 mm
Design: mono
Ø In: 7 mm
Ø Out: 6 mm
Plug: VAG: 357 972 752

Part no.	Pk.	
8TW 004 223-061	1	Water pump, 12V



Application: WSS
Power: 1.5 bar, 1 l/min
Ø Housing: 35 mm
Design: mono
Ø In: 7 mm
Ø Out: 6 mm
Plug: 8JD 008 151-021

Part no.	Pk.	
8TW 004 223-097	1	Water pump, 12V



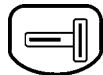
Application: SRA
Power: 2.5 bar, 7.2 l/min
Ø Housing: 35 / 46 mm
Design: mono
Ø In: 10.5 mm
Ø Out: 11 mm
Plug: 8JD 008 151-021

Part no.	Pk.	
8TW 004 764-021	1	Water pump, 12V



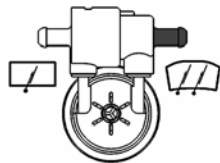
Application: WSS / SRA
Power: 2,5 bar, 7,2 l/min
Ø Housing: 35 / 46 mm
Design: mono
Ø In: 10,5 mm
Ø Out: 11 mm
Plug: 8JD 008 151-021

Part no.	Pk.	
8TW 004 764-041	1	Water pump, 24V



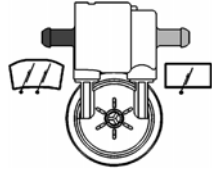
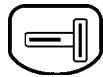
Application: WSS
Power: 2 bar, 1 l/min
Ø Housing: 35 mm
Design: dual
Ø In: 7 mm
Ø Out: 6 mm
Plug: 8JD 008 151-021

Part no.	Pk.	
8TW 005 206-011	1	Water pump, 12V



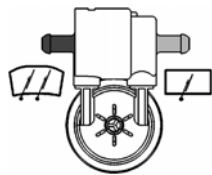
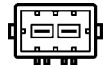
Water pumps

WSS = window cleaning / SRA = headlight cleaning



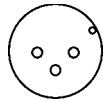
Application: WSS
Power: 2 bar, 1 l/min
Ø Housing: 35 mm
Design: dual
Ø In: 7 mm
Ø Out: 6 mm
Plug: 8JD 008 151-021

Part no.	Pk.	
8TW 005 206-031	1	Water pump, 12V



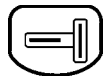
Application: WSS
Power: 2 bar, 1 l/min
Ø Housing: 35 mm
Design: dual
Ø In: 7 mm
Ø Out: 6 mm
Plug: AMP 828962

Part no.	Pk.	
8TW 005 206-051	1	Water pump, 12V



Application: WSS / SRA
Power: 2 bar, 1 l/min
Ø Housing: 35 mm
Design: mono
Ø In: 7 mm
Ø Out: 6 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 005 496-011	1	Water pump, 12V



Application: WSS
Power: 2 bar, 1 l/min
Ø Housing: 35 mm
Design: mono
Ø In: 7 mm
Ø Out: 6 mm
Plug: 8JD 008 151-021

Part no.	Pk.	
8TW 005 496-051	1	Water pump, 12V



Application: WSS
Power: 1 bar, 1.5 l/min
Ø Housing: 30 mm
Design: dual
Ø In: 17 mm
Ø Out: 5.5 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 847-001	1	Water pump, 12V

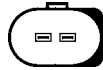


Application: WSS
Power: 1.5 bar, 1.9l/min
Ø Housing: 37 mm
Design: dual
Ø In: 7.5 mm
Ø Out: 6 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 847-011	1	Water pump, 12V

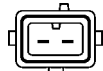
Water pumps

WSS = window cleaning / SRA = headlight cleaning



Application: WSS
Power: 5 bar, 2 l/min
Ø Housing: 35 mm
Design: dual
Ø In: 6.5 mm
Ø Out: 6 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 847-021	1	Water pump, 12V



Application: WSS
Power: 2 bar, 1 l/min
Ø Housing: 30 mm
Design: dual
Ø In: 17 mm
Ø Out: 5.5 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 847-031	1	Water pump, 12V



Application: WSS
Power: 1 bar, 1.5 l/min
Ø Housing: 30 mm
Design: mono
Ø In: 17 mm
Ø Out: 5.5 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 848-001	1	Water pump, 12V



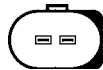
Application: WSS
Power: 2.5 bar, 2 l/min
Ø Housing: 35 mm
Design: mono
Ø In: 6.5 mm
Ø Out: 6 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 848-021	1	Water pump, 12V



Application: WSS / SRA
Power: 2.5 bar, 2 l/min
Ø Housing: 35 mm
Design: mono
Ø In: 6.5 mm
Ø Out: 5.5 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 848-031	1	Water pump, 12V



Application: WSS
Power: 2 bar, 2.5 l/min
Ø Housing: 34.5 mm
Design: mono
Ø In: 6.5 mm
Ø Out: 6 mm
Plug: -

Part no.	Pk.	
8TW 006 848-041	1	Water pump, 12V

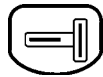


Application: WSS
Power: 2.5 bar, 2 l/min
Ø Housing: 37 mm
Design: mono
Ø In: 7 mm
Ø Out: 4.8 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 848-051	1	Water pump, 12V

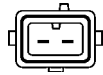
Water pumps

WSS = window cleaning / SRA = headlight cleaning



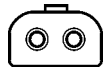
Application: WSS / SRA
Power: 1 bar, 2 l/min
Ø Housing: 27.5 mm
Design: mono
Ø In: 17 mm
Ø Out: 5.5 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 848-061	1	Water pump, 12V



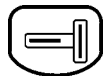
Application: WSS
Power: 1 bar, 2 l/min
Ø Housing: 30,5 mm
Design: mono
Ø In: 17 mm
Ø Out: 5.5 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 848-071	1	Water pump, 12V



Application: WSS
Power: -
Ø Housing: -
Design: mono
Ø In: -
Ø Out: -
Plug: -

Part no.	Pk.	
8TW 006 848-101	1	Water pump, 12V



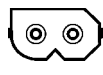
Application: WSS
Power: 1 bar, 1.5 l/min
Ø Housing: 30 mm
Design: mono
Ø In: 17 mm
Ø Out: 5.5 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 849-001	1	Water pump, 12V



Application: SRA
Power: 2.8 bar, 8 l/min
Ø Housing: 35 mm
Design: mono
Ø In: 11.5 mm
Ø Out: 9.2 mm (coupling)
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 849-011	1	Water pump, 12V



Application: SRA
Power: 2.8 bar, 8 l/min
Ø Housing: 35 mm
Design: mono
Ø In: 11.5 mm
Ø Out: 10 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 849-021	1	Water pump, 12V



Application: SRA
Power: 2.8 bar, 8 l/min
Ø Housing: 35 mm
Design: mono
Ø In: 11.5 mm
Ø Out: 9.5 mm (coupling)
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 849-031	1	Water pump, 12V

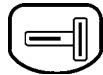
Water pumps

WSS = window cleaning / SRA = headlight cleaning



Application: SRA
Power: 3 bar, 8 l/min
Ø Housing: 35 mm
Design: mano
Ø In: 11.5 mm
Ø Out: 10 mm (coupling)
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 849-051	1	Water pump, 12V



Application: SRA
Power: 2.5 bar, 7.2 l/min
Ø Housing: 35 / 46 mm
Design: mono
Ø In: 10.5 mm
Ø Out: 11 mm
Plug: 8JD 008 151-021

Part no.	Pk.	
8TW 007 540-037	32	Water pump, 12V



Application: SRA
Power: 2.5 bar, 7.2 l/min
Ø Housing: 35 / 46 mm
Design: mano
Ø In: 10.5 mm
Ø Out: 11 mm
Plug: VAG: 1J0 973 722 A

Part no.	Pk.	
8TW 007 540-141	1	Water pump, 12V



Application: SRA
Power: 2.5 bar, 7.2 l/min
Ø Housing: 35 / 46 mm
Design: mano
Ø In: 10.5 mm
Ø Out: 11 mm
Plug: VAG: 1J0 973 722 A

Part no.	Pk.	
8TW 007 540-391	32	Water pump, 12V



Application: WSS
Power: -
Ø Housing: 35 mm
Design: mano
Ø In: 6.5 mm
Ø Out: 6 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 006 849-081	1	Water pump, 24V



Application: WSS
Power: 1.2 bar, 2.1 l/min
Ø Housing: 34 mm
Design: mano
Ø In: 8.7 mm
Ø Out: 6 mm
Plug: vehicle-specific with integr. level control switch

Part no.	Pk.	
8TW 006 849-091	1	Water pump, 24V



Application: WSS
Power: -
Ø Housing: 30.3 mm
Design: dual
Ø In: 17 mm
Ø Out: 6 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 010 958-001	1	Water pump, 12V

Water pumps

WSS = window cleaning / SRA = headlight cleaning



Application: WSS
Power: -
Ø Housing: 30.3 mm
Design: dual
Ø In: 17 mm
Ø Out: 6 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 010 958-011	1	Water pump, 12V



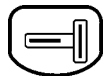
Application: SRA
Power: -
Ø Housing: 40.1 mm
Design: Mono
Ø In: -
Ø Out: -
Plug: Fzg. spez.

Part no.	Pk.	
8TW 010 958-021	1	Water pump, 12V



Application: SRA
Power: -
Ø Housing: 35 mm
Design: mano
Ø In: 11.5 mm
Ø Out: 9.9 mm
Plug: vehicle-specific

Part no.	Pk.	
8TW 010 958-031	1	Water pump, 12V



Application: SRA
Power: 2.5 bar, 7.2 l/min
Ø Housing: 35 mm
Design: mano
Ø In: 11.5 mm
Ø Out: 11 mm
Plug: 8JD 008 151-021.

Part no.	Pk.	
8TW 007 540-211	1	Water pump, 12V

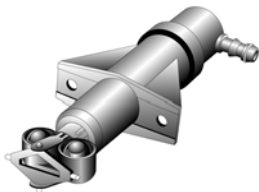
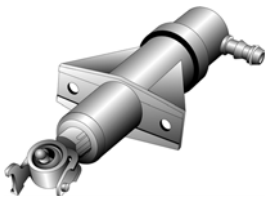
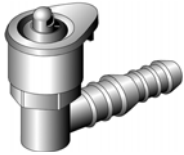


Application: SRA
Power: 2.5 bar, 7.2 l/min
Ø Housing: 35 mm
Design: mano
Ø In: 10.5 mm
Ø Out: 11 mm
Plug: 8JD 008 151-021

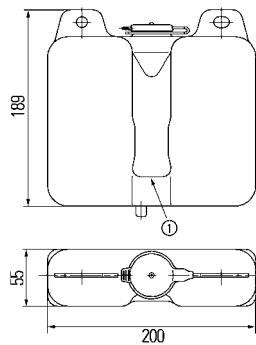
Part no.	Pk.	
8TW 007 540-231	1	Water pump, 24V

Headlight cleaning systems

With pump, control unit incl. wiring harness, nozzles for cleaning 2 to 4 headlamps and fabric hose. For sports cars, tuned versions and motor homes etc.



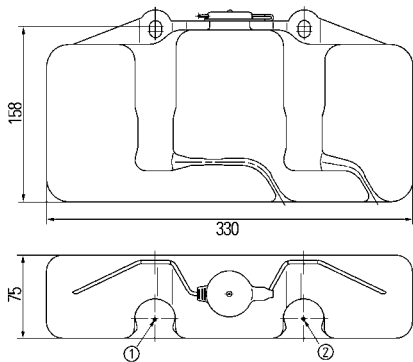
Part no.	Pk.	
8WS 008 549-001	1	Headlight cleaning system with fixed nozzles, 12V
8WS 008 549-501	1	24V
		Spare parts:
8TW 007 540-211	1	Water pump, 12V
8TW 007 540-231	1	24V
8WV 115 095-001	10	T-piece
8WT 008 549-101	1	Headlight cleaning system with single telescopic nozzles, 12V
8WT 008 549-601	1	24V
		Spare parts:
8TW 007 540-211	1	Water pump, 12V
8TW 007 540-231	1	24V
8WV 115 095-001	10	T-piece
8WT 008 549-201	1	Headlight cleaning system with double telescopic nozzles, 12V
8WT 008 549-701	1	24V
		Spare parts:
8TW 007 540-211	1	Water pump, 12V
8TW 007 540-231	1	24V
8WV 115 095-001	10	T-piece
		Accessories:
8TW 004 223-031	1	Water pump, 12V
8TW 005 496-051	1	24V
		Telescopic nozzle unit,
8WT 007 982-018	1	left
8WT 007 982-028	1	right
9GD 853 490-001	200	Grommet
9GT 960 380-005	400	Plug
9XD 856 165-005	100	Adapter
9XL 564 781-002	50	One way valve



Water tanks

Capacity: 1.5 l.

Part no.	Pk.	
		Pump holder position 1: 35 mm dia. hole position 1: 11 mm dia. hole
8WB 003 248-001	1	Water tank, white, with bracket and water pump, 12V
8WB 003 248-007	50	
		Spare parts:
8TW 004 223-031	1	Water pump, 12V
8WB 851 385-025	50	Tank
		Water tank, white, with bracket and water pump, 24V
8BW 003 248-037	50	
		Spare parts:
8TW 005 496-039	1	Water pump, 24V
8WB 851 385-025	50	Tank
		Pump holder position 1: 11 mm dia. hole
8BW 851 385-025	50	Water tank, white, with bracket, without water pump



Water tanks

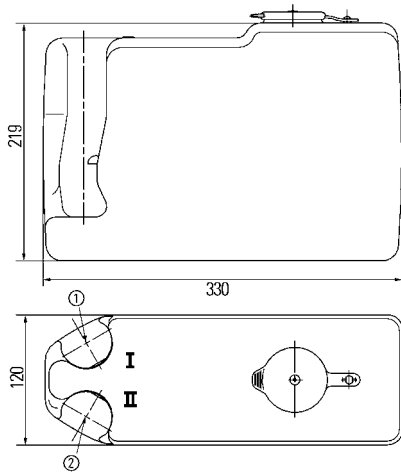
Capacity: 3.0 l.

Part no.	Pk.	
		Pump holder position 1, 2: 35 mm dia. hole position 1: 11 mm dia. hole position 2: closed
8BW 003 443-008	1	Water tank, white, with water pump, 12V
8TW 004 223-031	1	Spare parts: Water pump, 12V
8BW 003 443-011	1	Water tank, white, with water pump, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V
8HG 851 387-007	75	Accessories: Holder
8BW 003 443-047	51	Pump holder position 1: 11 mm dia. hole position 2: 11 mm dia. hole, grommet with stuff with water pump, 12V
8TW 004 223-031	1	Spare parts: Water pump, 12V
8BW 857 850-005	51	Tank
8BW 003 443-057	51	Pump holder position 1: 11 mm dia. hole position 2: 11 mm dia. hole with 2 water pumps, 12V
8TW 004 223-031	1	Spare parts: Water pump, 12V
8BW 857 850-005	51	Tank
8BW 003 443-067	51	Pump holder position 1: 11 mm dia. hole position 2: 11 mm dia. hole, grommet with water pump, 12V
8TW 004 223-031	1	Spare parts: Water pump, 12V
8BW 857 850-005	51	Tank



Water tanks

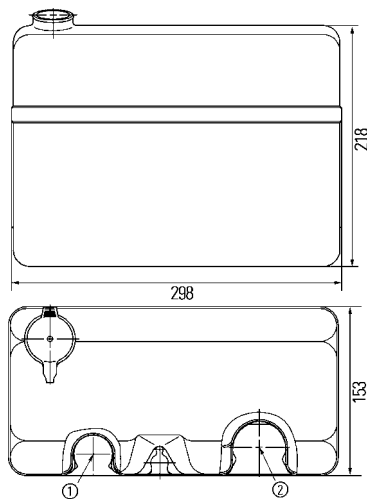
Capacity: 5.0 l.



Part no.	Pk.	
		Pump holder position 1, 2: 46 mm dia. hole position 1: 20 mm dia. hole, grommet position 2: closed
8BW 860 169-007	28	Water tank, white, with water pump, 12V

Water tanks

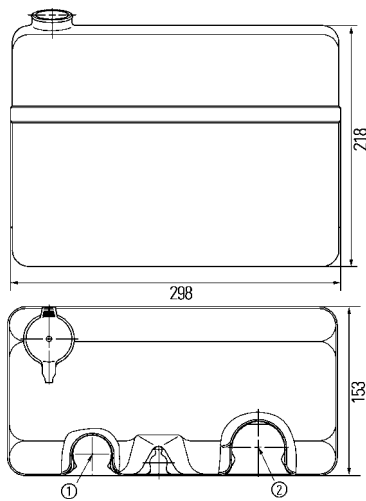
Capacity: 8.0 l.



Part no.	Pk.	
		Pump holder position 1: 35 mm dia. hole position 2: 46 mm dia. hole position 1: 11 mm dia. hole position 2: 11 mm dia. hole, grommet with stuff
8BW 003 966-047	24	Water tank, white, with water pump, 12V
8TW 004 223-031	1	Spare parts: Water pump, 12V
		Pump holder position 1: 11 mm dia. hole position 2: 20 mm dia. hole, open
8BW 003 966-007	24	with water pump, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V
		Pump holder position 1: 11 mm dia. hole position 2: closed
8BW 003 966-037	1	with water pump, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V
		Pump holder position 1: 11 mm dia. hole position 2: 11 mm dia. hole, open
8BW 003 966-057	1	with water pump, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V
		Pump holder position 1: 11 mm dia. hole position 2: 20 mm dia. hole, grommet with stuff
8BW 003 966-067	28	with water pump, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V

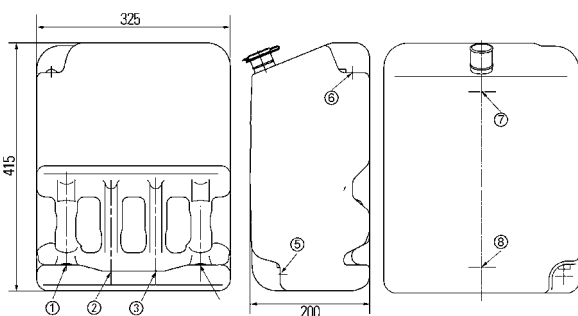
Water tanks

Capacity: 8.0 l.



Part no.	Pk.	
		Pump holder position 1: 35 mm dia. hole position 2: 46 mm dia. hole position 1: 11 mm dia. hole position 2: 11 mm dia. hole, with adapter
8BW 504 000-037	24	Water tank, white, with water pump, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V
9XD 856 165-005	100	Adapter (position 2)

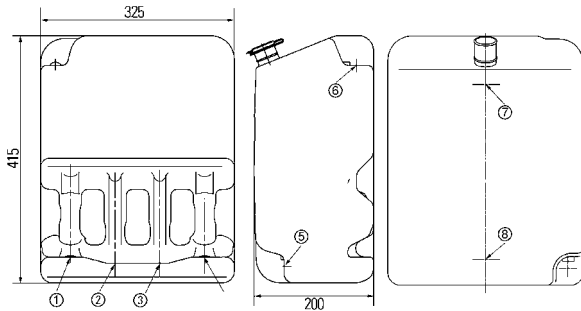
Capacity: 20.0 l.



Part no.	Pk.	
		Pump holder position 1-4: 35 mm dia. hole position 1: closed position 2: 11 mm dia. hole position 3: 11 mm dia. hole position 4: 20 mm dia. hole position 5-8: closed
8BW 007 757-007	20	Water tank, black, with 3 water pumps, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V (position 2 and 3)
8TW 004 764-041	1	Water pump, 24V (position 4)
		Pump holder position 1: closed position 2: 11 mm dia. hole position 3: 11 mm dia. hole position 4-6: closed position 7-8: 11 mm dia. hole, level indication
8BW 007 757-017	20	with 2 water pumps, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V (position 2 and 3)

Water tanks

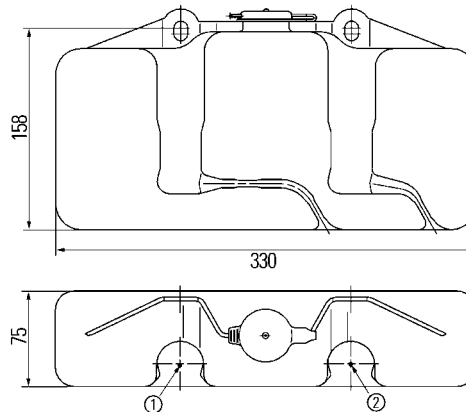
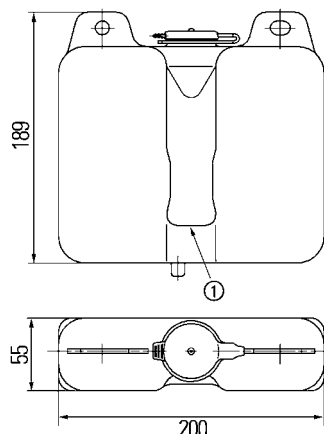
Capacity: 20.0 l.



Part no.	Pk.	
		Pump holder position 1-4: 35 mm dia. position 1: closed position 2: 11 mm dia. hole position 3: 11 mm dia. hole position 4-8: closed
8BW 007 757-027	20	Water tank, black, with 2 water pumps, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V (position 2 and 3)
		Pump holder position 1: closed position 2: 11 mm dia. hole position 3: 11 mm dia. hole position 4: 20 mm dia. hole, grommet with stuff position 5-8: closed
8BW 007 757-037	20	with 2 water pumps, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V (position 2 and 3)
		Pump holder position 1: closed position 2: 11 mm dia. hole position 3: 11 mm dia. hole position 4: closed position 5: level control switch 6EZ 005 345-021 Position 6: 11 mm dia. hole, one-way valve position 7-8: 11 mm dia. hole, level indication
8BW 007 757-047	20	with 2 water pumps, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V (position 2 and 3)
		Pump holder position 1: closed position 2: 11 mm dia. hole position 3-8: closed
8BW 007 757-067	20	with water pump, 24V
8TW 005 496-051	1	Spare parts: Water pump, 24V (position 2)

Application Combinations

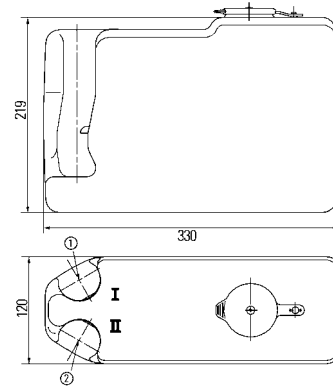
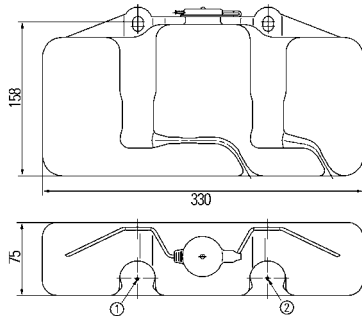
Water Pumps / Water Tanks



	Water tank, 1.5 l	Water tanks, 3.0 l	
	8WB 851 385-025	8BW 003 443-047	8BW 003 443-067
Water pump	Position	Position	Position
8TW 004 223-031	1. in conjunction with grommet 9GD 853 918-006	2. Plug not applicable	2. Plug not applicable
8TW 004 223-061	1. in conjunction with grommet 9GD 853 918-006	2. Plug not applicable	2. Plug not applicable
8TW 004 223-097	1. in conjunction with grommet 9GD 853 918-006	-	-
8TW 004 764-041	-	-	-
8TW 005 496-011	1. in conjunction with grommet 9GD 853 918-006	-	2. Plug not applicable
8TW 005 496-051	1. in conjunction with grommet 9GD 853 918-006	-	-
8TW 005 206-011	1. in conjunction with grommet 9GD 853 918-006	2. Plug not applicable	2. Plug not applicable
8TW 005 206-031	1. in conjunction with grommet 9GD 853 918-006	2. Plug not applicable	2. Plug not applicable
8TW 005 206-051	1. in conjunction with grommet 9GD 853 918-006	2. Plug not applicable	2. Plug not applicable
8TW 004 764-021	-	-	-
8TW 005 535-091	-	-	-
8TW 007 540-037	-	-	-
8TW 007 540-141	-	-	-



Application Combinations Water Pumps / Water Tanks



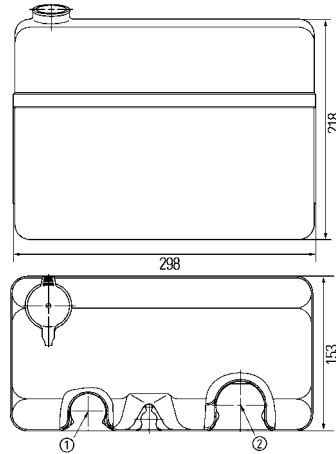
Water tank, 1.5 l
8BW 857 850-005

Water tanks, 3.0 l
8BW 850 169-007

Water pump	Position	Position
8TW 004 223-031	1./ 2. in conjunction with grommet 9GD 853 918-006	-
8TW 004 223-061	1./ 2. in conjunction with grommet 9GD 853 918-006	-
8TW 004 223-097	1./ 2. in conjunction with grommet 9GD 853 918-006	-
8TW 004 764-041	-	1.
8TW 005 496-011	1./ 2. in conjunction with grommet 9GD 853 918-006	-
8TW 005 496-051	-	-
8TW 005 206-011	1./ 2. in conjunction with grommet 9GD 853 918-006	-
8TW 005 206-031	1./ 2. in conjunction with grommet 9GD 853 918-006	-
8TW 005 206-051	1./ 2. in conjunction with grommet 9GD 853 918-006	-
8TW 004 764-021	-	1.
8TW 005 535-091	-	1.
8TW 007 540-037	-	1.
8TW 007 540-141	-	1.

Application Combinations

Water Pumps / Water Tanks

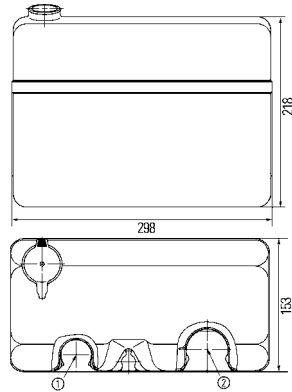


Water tank, 8.0 l

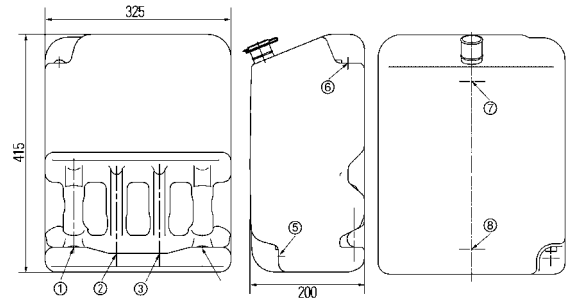
Water pump	Water tank, 8.0 l		
	8BW 003 966-007	8BW 003 966-047	8BW 003 966-057
	Position	Position	Position
8TW 004 223-031	-	2. in conjunction with adapter ring 9XD 856 165-005	-
8TW 004 223-061	-	2. in conjunction with adapter ring 9XD 856 165-005	-
8TW 004 764-041	2. in conjunction with grommet 9GD 853 490-007	-	-
8TW 005 496-011	-	-	-
8TW 005 496-051	-	-	2. in conjunction with grommet 9GD 853 918-006
8TW 005 206-011	-	2. in conjunction with adapter ring 9XD 856 165-005	-
8TW 005 206-031	-	2. in conjunction with adapter ring 9XD 856 165-005	-
8TW 005 206-051	-	2. in conjunction with adapter ring 9XD 856 165-005	-
8TW 004 764-021	-	-	-
8TW 005 535-091	-	-	-
8TW 007 540-037	2. in conjunction with adapter ring 9XD 856 165-005 and grommet 9GD 853 490-007	-	-
8TW 007 540-141	-	-	-



Application Combinations Water Pumps / Water Tanks

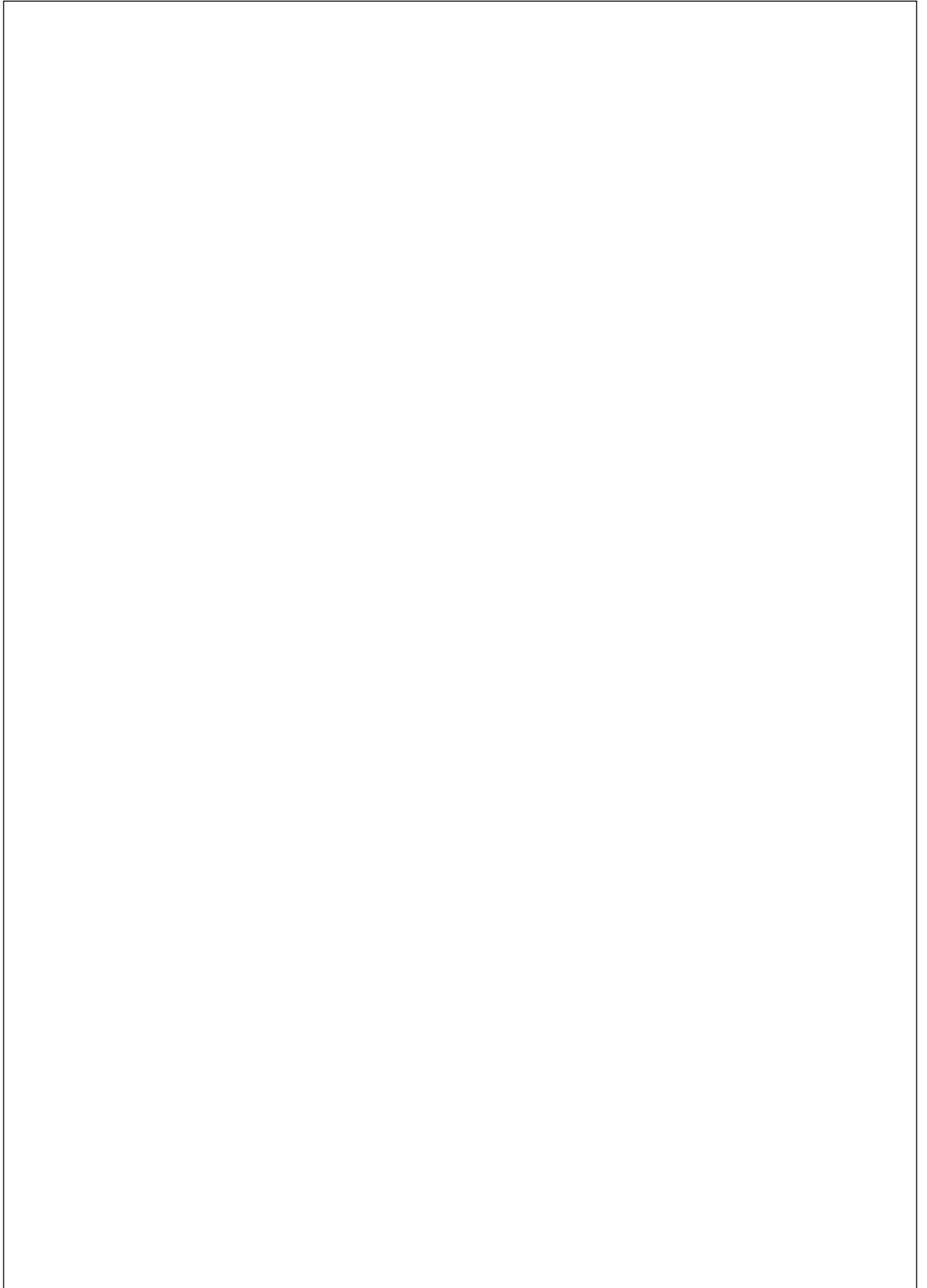


**Water tank, 8.0 l
8BW 003 966-067**



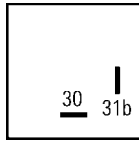
**Water tank, 20.0 l
8BW 007 757-037**

Water pump	Position	Position
8TW 004 223-031	-	-
8TW 004 223-061	-	-
8TW 004 223-091	-	-
8TW 004 223-041	2. Plug not applicable	4. Plug and adapter not applicable
8TW 005 496-011	-	-
8TW 005 496-051	-	-
8TW 005 206-011	-	-
8TW 005 206-031	-	-
8TW 005 206-051	-	-
8TW 004 764-021	-	-
8TW 005 535-091	-	-
8TW 007 540-037	2. in conjunction with adapter ring, plug not applicable 9XD 856 165-005	4. Plug not applicable
8TW 007 540-141	-	-





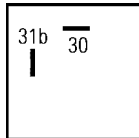
Buzzers	5.02, 5.12
Reverse and warning alarm	5.03-5.04
Disc-type horns	5.05-5.11
Supertone horns	5.12-5.13
Electric twin-tone horns	5.14
Compressed air horns	5.15-5.16



Buzzer

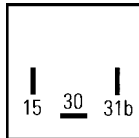
With bracket.
Two 6.3 mm blade terminal contacts.
Frequency: 500 Hz. Acoustic pressure level: 70dB(A) (1.0 m).
Operating temperature: -40 °C to +85 °C.

Part no.	Pk.	
3SB 003 985-047	170	Buzzer, 12V
3SB 003 985-061	1	24V
3SB 003 985-067	40	



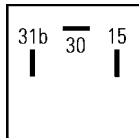
With cable set, bracket and installation material.
Two 6.3 mm blade terminal contacts.
Frequency: 325 Hz. Acoustic pressure level: 85dB(A) (0.17 m).
Operating temperature: -40°C bis +85°C.

Part no.	Pk.	
3SB 004 438-161	1	Buzzer, 12V



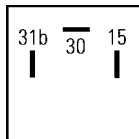
With Piezo technology, without bracket.
Three 6.3 mm blade terminal contacts.
Frequency: 3.4 KHz. Acoustic pressure level: 93 dB(A) (0.3 m).
Operating temperature: -30 °C to +85 °C.

Part no.	Pk.	
3SB 004 438-137	1	Buzzer, 12V



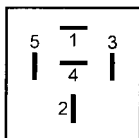
With Piezo technology.
Three 6.3 mm blade terminal contacts.
Frequency: 325 Hz. Acoustic pressure level: 85dB(A) (0.17 m).
Operating temperature: -40 °C to +85 °C.

Part no.	Pk.	
3SB 004 438-141	1	Buzzer, 12V, for Opel



With Piezo technology.
Three 6.3 mm blade terminal contacts.
Frequency: 325 Hz. Acoustic pressure level: 85dB(A) (0.17 m).
Operating temperature: -40 °C to +85 °C.

Part no.	Pk.	
3SB 004 438-177	1	Buzzer, 12V



Without bracket.
Five 6.3 mm blade terminal contacts.
Frequency: 325 Hz. Acoustic pressure level: 85dB(A) (0.17 m).
Operating temperature: -40 °C to +85 °C.

Part no.	Pk.	
3SB 004 438-155	1	Buzzer, for Mercedes-Benz, Faun

Reverse and warning alarm

Black steel housing with integrated bracket for universal mounting.
 Acoustic pressure level generated by solid state electronic circuitry.
 Tested for electro-magnetic compatibility and to SAE standards.
 With protection against polarity reversal and voltage spikes.
 Operating temperature: -40 °C to +85 °C.
 Frequency: 60 signals per minute.
 Type of protection: IP5K9K, CE, SAE J994, e11.



Part no.	Pk.	
		Voltage: 12V - 24V. Power requirement: 0.59A-0.71A Acoustic pressure level: 87-112dB (1.2 m). Frequency: 1200 Hz ± 20%.
3SL 996 139-001	1	Reverse and warning alarm with variable output level for automatic adaptation to surroundings. Solid state electronic circuitry automatically adjusts to at least 5dB(A) above ambient noise level, with 160 mm connection lead
		Voltage: 12V - 36V. Power requirement: 0.4A Acoustic pressure level: 107dB(A) (1.2 m). Frequency: 1300 Hz ± 20%.
3SL 996 139-101	1	Reverse and warning alarm with 160 mm connection lead
		Voltage: 12V - 36V. Power requirement: 0.4A Acoustic pressure level: 112dB(A) (1.2 m). Frequency: 1250 Hz ± 20%.
3SL 996 139-111	4	Reverse and warning alarm with 160 mm connection lead
		Voltage: 12V - 24V. Power requirement: 0.59A-0.71A Acoustic pressure level: 87-112dB (1.2 m). Frequency: 1200 Hz ± 20%.
3SL 996 139-202	18	Reverse and warning alarm with variable output level for automatic adaptation to surroundings. Solid state electronic circuitry automatically adjusts to at least 5dB(A) above ambient noise level. With 140 mm connection lead and DEUTSCH 2-pole plug connector

Reverse and warning alarm

Black plastic housing.
 With integrated bracket for universal mounting.
 Acoustic pressure level generated by solid state electronic circuitry.
 Tested for electro-magnetic compatibility and to SAE standards.
 With protection against polarity reversal and voltage spikes.
 EPOXY encapsulated housing.
 Operating temperature: -40 °C to +85 °C.
 Frequency: 60 signals per minute: 1250 Hz ± 20%.



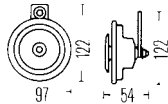
Part no.	Pk.	
3SL 009 148-001	1	Voltage: 12V - 24V Power requirement: 0.1A - 0.2A Acoustic pressure level: 90dB(A) (1.2 m). With integrated AMP plug.
		Reverse and warning alarm
3SL 009 148-011	1	Voltage: 12V - 24V Power requirement: 0.3A - 0.4A Acoustic pressure level: 97dB(A) (1.2 m). With integrated AMP plug.
		Reverse and warning alarm
3SL 009 148-021	1	Voltage: 12V - 24V Power requirement: 0.6A - 0.7A Acoustic pressure level: 107dB(A) (1.2 m). With integrated AMP plug.
		Reverse and warning alarm
3SL 009 148-061	1	Voltage: 12V - 48V Power requirement: 0.1A Acoustic pressure level: 97dB(A) (1.2 m). With integrated AMP plug.
		Reverse and warning alarm
3SL 009 148-071	1	Voltage: 12V - 24V Power requirement: 0.5A - 0.7A Acoustic pressure level: 102/102dB(A) (1.2 m). With connection cable.
		Reverse and warning alarm with second tone for additional function
3SL 009 148-101	1	Voltage: 12V - 24V Power requirement: 0.6A - 0.8A Acoustic pressure level: 82dB(A) - 102dB(A) (1.2 m). With integrated AMP plug.
		Reverse and warning alarm with variable output level for automatic adaptation to surroundings. Solid state electronic circuitry automatically adjusts to at least 5dB(A) above ambient noise level
9GH 993 984-001	1	Accessories: Rubber cap for AMP connector, 2-pin
9GH 993 984-007	250	
8KB 990 299-001	1	Wiring harness with AMP connector, 2-pin, 2000 mm long

Disc-type-horns

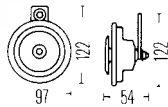
M 26

Galvanized metal body, black diaphragm.
 Sound pressure level 2 m away: 115 dB(A).
 Power consumption: 66W per horn.

Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Without teflon seal to protect against damp.



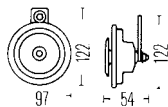
Part no.	Pk.	Contents:
3AL 002 952-891	1	2 disc-type horns
3AL 002 952-811	1	Disc-type horn set, 12V, 335/400 Hz
3AL 002 952-817	40	Disc-type horn, 12V, 400 Hz
3AL 002 952-861	1	12V, 335 Hz
3AL 002 952-867	40	



Galvanized metal body, black diaphragm.
 Sound pressure level 2 m away: 115 dB(A).
 Power consumption: 72W per horn.

Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Teflon seal protects against damp.

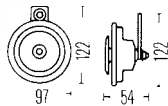
Part no.	Pk.	Contents:
3AL 002 952-871	1	Disc-type horn, 24V, 335 Hz
3AL 002 952-877	40	



Special version for combines and other harvesting machines, continuous tone.
 Galvanized metal body, black diaphragm.
 Power consumption: 48W.

With 6.3 mm blade terminal contacts.
 Without teflon seal to protect against damp.

Part no.	Pk.	Contents:
3AL 002 952-887	40	Disc-type horn, 12V, 400 Hz



Galvanized metal body, black diaphragm.
 Sound pressure level 2 m away: 115 dB(A).
 Power consumption: 72W per horn.

Bracket on horn with rivet nut for M8 fixing screw.
 With protected 6.3 mm blade terminal contacts.
 Teflon seal protects against damp.

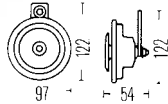
Part no.	Pk.	Contents:
3AL 002 952-841	1	Disc-type horn, 12V, 335 Hz

Disc-type-horns

M 26

Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 54W.

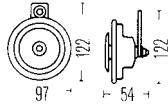
Bracket on horn with rivet nut for M8 fixing screw.
 Teflon seal protects against damp.
 With protected 6.3 mm blade type terminal contacts.
 Teflon seal protects against damp.



Part no.	Pk.	
3AL 002 952-827	40	Disc-type horn, 12V, 400 Hz

Metal body with blackfront, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 48W.

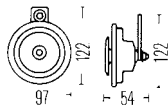
With 6.3 mm blade terminal contacts.
 Without teflon seal to protect against damp.



Part no.	Pk.	
3AL 002 952-857	1	Disc-type horn, 12V, 400 Hz

Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 48W.

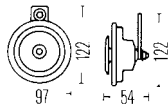
With 6.3 mm blade terminal contacts.
 Without teflon seal to protect against damp,
 with suppression capacitor.



Part no.	Pk.	
3AL 002 952-837	40	Disc-type horn, 12V, 400 Hz

Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 72W per horn.

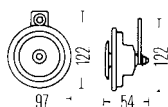
With 6.3 mm blade terminal contacts.
 Without teflon seal to protect against damp,
 with suppression diode.



Part no.	Pk.	
3AL 002 952-907	40	Disc-type horn, 12V, 400 Hz

Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 48W.

With protected 6.3 mm blade type terminal contacts.
 Teflon seal protects against damp.



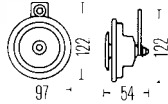
Part no.	Pk.	
3AL 002 952-917	40	Disc-type horn, 12V, 335 Hz

Disc-type-horns

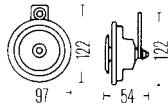
M 26

Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 48W.

With protected 6.3 mm blade type terminal contacts.
 Teflon seal protects against damp.
 With suppression diode.



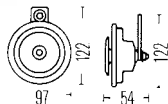
Part no.	Pk.	
3AL 002 952-927	1	Disc-type horn, 24V, 335 Hz



Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 72W per horn.

Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Teflon seal protects against damp.

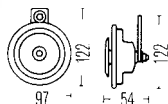
Part no.	Pk.	
3AL 908 571-021	1	Disc-type horn, 12V, 400 Hz



Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 66W per horn.

Bracket on horn with rivet nut for M8 fixing screw.
 With 6.3 mm blade type terminal contacts.
 Teflon seal protects against damp.
 Minusanschluss über Gehäuse.

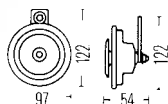
Part no.	Pk.	
3AL 908 571-031	1	Disc-type horn, 12V, 335 Hz



Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 48W.

Bracket on horn with rivet nut for M8 fixing screw.
 Teflon seal protects against damp.
 With protected 6.3 mm blade type terminal contacts.
 Teflon seal protects against damp.

Part no.	Pk.	
3AL 006 958-807	40	Disc-type horn, 12V, 400 Hz, continuous tone



Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 66W per horn.

Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Teflon seal protects against damp.

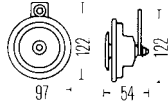
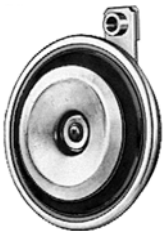
Part no.	Pk.	
3AL 006 958-811	1	Disc-type horn, 12V, 400 Hz

Disc-type-horns

M 26

Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 110 dB(A).
Power consumption: 84W.

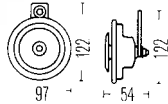
Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Without teflon seal to protect against damp.



Part no.	Pk.	
3AL 006 958-827	1	Disc-type horn, 24V, 400 Hz

Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Power consumption: 66W per horn.

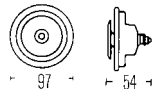
Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Teflon seal protects against damp.



Part no.	Pk.	
3AL 006 958-837	1	Disc-type horn, 12V, 400 Hz

Galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 115 dB(A).
Without bracket.

Power consumption: 60W.
 With 6.3 mm blade terminal contacts.
 Without teflon seal to protect against damp.

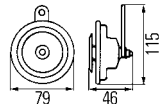


Part no.	Pk.	
3AL 006 958-857	1	Disc-type horn, 12V, 400 Hz

M 28

Black, galvanized metal body, black diaphragm.
Sound pressure level 2 m away: 110 dB(A).
Power consumption: 72W.

With 6.3 mm blade terminal contacts.
 Bracket on horn for M10 fixing screw.
 Teflon seal protects against damp.
 With suppression diode.



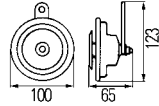
Part no.	Pk.	
3AL 007 425-427	40	Disc-type horn, 12V, 335 Hz
3AL 007 425-791	1	12V, 400 Hz

Disc-type-horns

M 100

Black body and diaphragm.
Sound pressure level 2 m away: 113 dB(A).
Power consumption: 42W.

With 6.3 mm blade terminal contacts.
 Bracket on horn for M8 fixing screw.
 Teflon seal protects against damp.

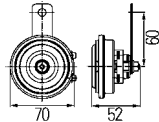


Part no.	Pk.	
3AL 922 300-207	10	Disc-type horn, 12V, 335 Hz

S 70

Black finish metal body, diaphragm and bracket.
Sound pressure level 2 m away: 112 dB(A).
Power consumption: 30W per horn.

Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Without teflon seal to protect against damp.

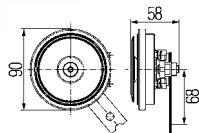


Part no.	Pk.	
3AL 922 196-011	1	Disc-type horn, 12V, 420 Hz
3AL 922 195-021	1	12V, 340 Hz

S 90

Black finish metal body, diaphragm and bracket.
Sound pressure level 2 m away: 113 dB(A).
Power consumption: 42W per horn.

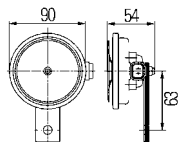
Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Teflon seal protects against damp.



Part no.	Pk.	
3AL 922 200-431	1	Disc-type horn, 12V, 350 Hz
3AL 922 200-161	1	12V, 415 Hz

Black finish metal body, diaphragm and bracket.
Sound pressure level 2 m away: 113 dB(A).
Power consumption: 42W per horn.

Bracket on horn for M8 fixing screw.
 Teflon seal protects against damp.



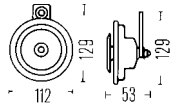
Part no.	Pk.	
3AL 922 200-761	40	Disc-type horn with two 6.3 mm blade terminal contacts, 12V, 350 Hz
3AL 922 200-617	1	Disc-type horn with protected 6.3 mm blade terminal contacts, 12V, 415 Hz
8JA 990 295-127	1	Accessories: DEUTSCH plug

Disc-type-horns

B 36

Galvanized metal body, black diaphragm.
 Sound pressure level 2 m away: 116 dB(A).
 Power consumption: 72W per horn.

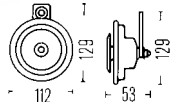
Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Without teflon seal to protect against damp.



Part no.	Pk.	Contents:
3BB 002 768-661	1	2 disc-type horns
		Disc-type horn set, 12V, 335/400 Hz
3BA 002 768-082	1	Disc-type horn, 12V, 335 Hz
3BA 002 768-551	1	12V, 400 Hz

Galvanized metal body, black diaphragm.
 Sound pressure level 2 m away: 116 dB(A).
 Power consumption: 72W per horn.

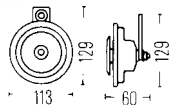
Bracket on horn for M8 fixing screw.
 Without teflon seal to protect against damp.



Part no.	Pk.	Contents:
3BA 002 768-382	1	Disc-type-horn, with 6.3 mm blade terminal contacts, 24V, 335 Hz
3BA 002 768-431	1	with protected 6.3 blade terminal contacts, 12V, 400 Hz
3BA 002 768-437	24	

Galvanized metal body, black diaphragm.
 Sound pressure level 2 m away: 116 dB(A).
 Power consumption: 72W per horn.

Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Teflon seal protects against damp.



Part no.	Pk.	Contents:
3BB 002 768-151	1	2 disc-type horns
		Disc-type horn set, 12V, 335/400 Hz

Disc-type-horns

B 36

Galvanized metal body, black diaphragm.
 Sound pressure level 2 m away: 116 dB(A).
 Power consumption: 72W per horn.
 Bracket on horn for M8 fixing screw.
 Teflon seal protects against damp.



Part no.	Pk.	
3BA 002 768-131	1	Disc-type horn, with 6.3 mm blade terminal contacts, 12V, 335 Hz
3BA 002 768-651	1	24V, 335 Hz
3BA 002 768-201	1	with protected 6.3 blade terminal contacts, 24V, 400 Hz



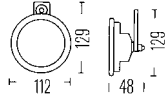
Galvanized metal body, black diaphragm.
 Sound pressure level 2 m away: 116 dB(A).
 Power consumption: 72W per horn.
 Bracket on horn for M8 fixing screw.
 With 6.3 mm blade terminal contacts.
 Teflon seal protects against damp.

Part no.	Pk.	
3BA 002 768-427	24	Disc-type horn, bracket with capable of rotating 80°, 24V, 335 Hz
3BA 002 768-447	24	bracket with capable of rotating 260°, 24V, 335 Hz



For electric vehicles/alarm units.
 Power consumption: 72W per Horn.
 Bracket on horn for M10 fixing screw.
 With protected 6.3 mm blade terminal contacts.
 Teflon seal protects against damp.
 With suppression capacitor.

Part no.	Pk.	
3BA 002 768-771	1	Disc-type horn, 48V, 335 Hz, power consumption: 62W
3BA 002 768-777	24	
3BA 002 768-001	1	80V, 335 Hz, power consumption: 40W



Buzzer

Galvanized metal body, diaphragm grey.

Power consumption: 31W.

Screw connections M4.

Bracket on horn for M8 fixing screw.

Teflon seal protects against damp,

With suppression capacitor.

Part no.	Pk.	
3SB 002 768-031	1	Buzzer, 24V, 550 Hz

Supertone horns

B 133

For high-priority vehicles.

Sound pressure level 2 m away: 118 dB(A).

DIN 14 610/ CH 2098.

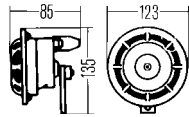
Black metal body and protective grille.

Bracket on horn for M10 fixing screw.

With protected 6.3 mm blade terminal contacts.

Teflon seal protects against damp, with anti-interference capacitor.

Grommet for protection against contact.



Part no.	Pk.	
		Inhalt: 2 supertone horns 375/500 Hz
3AG 003 399-081	1	Supertone horn-set, power consumption: 78W per horn, 12V
3AG 003 399-101	1	Supertone horn-set, power consumption: 84W per horn, 24V
3AF 003 399-041	1	Supertone horn, power consumption: 78W, 12V, 375 Hz
3AF 003 399-051	1	Supertone horn, power consumption: 78W, 12V, 500 Hz
3AF 003 399-061	1	Supertone horn, power consumption: 84W, 24V, 375 Hz
3AF 003 399-071	1	Supertone horn, power consumption: 84W, 24V, 500 Hz

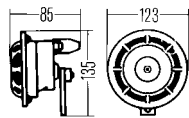
Extremely focused sound characteristics - therefore highest penetration force - particularly important for motorway driving.

Black metal body and red protective grille.

Bracket on horn for M8 fixing screw M8.

With 6.3 mm blade terminal contacts.

Without teflon seal to protect against damp



Part no.	Pk.	
		Contents: 2 supertone horns 310 Hz/380 Hz
3AG 003 399-801	1	Supertone horn-set, power consumption: 66W per horn, 12V, 300/500 Hz

Supertone horns

For high-priority vehicles.

Sound pressure level 2 m away: 118 dB(A).

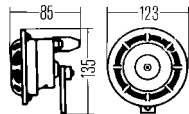
DIN 14 610/ CH 2098.

Black metal body and protective grille.

Bracket on horn for M10 fixing screw.

Teflon seal protects against damp, with anti-interference capacitor.

Grommet for protection against contact.



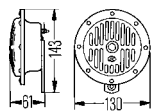
Part no.	Pk.	
3AF 003 399-327	1	Supertone horn, with protected 6.3 mm blade terminal contacts, power consumption: 78W, 24V, 375 Hz
3AF 003 399-337	1	
3AF 003 399-347	1	Supertone horn, with 2-pole DEUTSCH plug, power consumption: 84W, 24V, 375 Hz
3AF 003 399-357	1	
8JA 990 295-127	1	Accessories: DEUTSCH plug

DL 50

Sound pressure level 2 m away: 114 dB(A).

Black metal body and protective grille.

Bracket on horn for M8 fixing screw.



Part no.	Pk.	
3CB 004 811-042	1	Contents: 2 supertone horns Supertone horn-set with 6.3 mm blade terminal contacts. Power consumption: 72W per horn, 12V, 310/380 Hz
3CA 004 811-001	1	Supertone horn with 6.3 mm blade terminal contacts. Power consumption: 72W per horn. 12V, 310 Hz
3CA 004 811-011	1	
3CA 004 811-021	1	Supertone horn with 6.3 mm blade terminal contacts. Power consumption: 84W per horn. 24V, 310 Hz
3CA 004 811-031	1	
3CA 004 811-057	1	Supertone horn with screw-type connection M4. Power consumption: 84W per horn, 24V, 310 Hz
3CA 004 811-067	1	

Electric twin-tone horns

TE 16

Sound pressure level 2 m away: 110 dB(A).

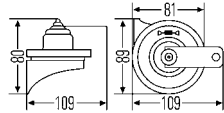
Power consumption: 72W per horn.

Galvanized body and bracket.

Trumpet made of plastic.

With 6.3 mm blade terminal contacts.

Bracket on horn for M8 fixing screw, capable of rotating 270°.



Part no.	Pk.	Contents:
		2 horns with red horn trumpet
3FH 007 424-801	1	Electric twin-tone horn set, 12V, 400/500 Hz with relay
3FH 007 424-811	1	without relay
3FG 007 424-001	1	Electric twin-tone horn with red horn trumpet, 12V, 400 Hz
3FG 007 424-011	1	12V, 500 Hz
3FG 940 800-817	1	Electric twin-tone horn with black horn trumpet, 12V, 400 Hz

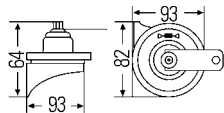
Sound pressure level 2 m away: 110 dB(A).

Galvanized steel body.

Trumpet made of black plastic.

With 6.3 mm blade terminal contacts.

Bracket on horn for M8 fixing screw, capable of rotating 90°.



Part no.	Pk.	Contents:
		2 horns
3FH 007 728-831	1	Electric twin-tone horn set, 12V, 400/500 Hz
3FH 007 728-833	1	12V, 400/500 Hz, carded

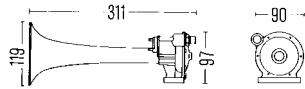
Compressed-air horns



For vehicles with compressed-air brake systems.
Sound pressure level 2 m away: 118 dB(A).
Power consumption: 36W at 12V, 48W at 24V.

Air pressure required: 6 - 8.3 bar.

Suitable for 10 mm dia. compressed air pipe.
 housing made of diecast.
 Grey plastic trumpet.
 2 holes for M10 fixing screws.
 With 6.3 mm blade terminal contacts.



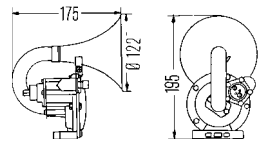
Part no.	Pk.	
3PA 004 206-041	1	Compressed-air horn, 12V, 400 Hz
3PA 004 206-011	1	24V, 400 Hz
3PA 004 206-051	1	24V, 400 Hz, without approval



For vehicles with compressed-air brake systems.
With curved trumpet.
Sound pressure level 2 m away: 118 dB(A).
Power consumption: 108W.

Air pressure required: 6 - 8.3 bar.

Suitable for 8 mm dia. compressed air pipe.
 housing made of diecast.
 Grey plastic trumpet.
 2 holes for M10 fixing screws.
 With 6.3 mm blade terminal contacts.



Part no.	Pk.	
3PA 004 206-031	1	Compressed-air horn, 24V, 350 Hz



Highway

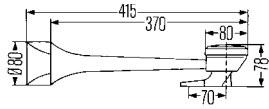
For vehicles with compressed-air brake systems.

Air pressure required: 4 - 8.5 bar.

300 Hz (trumpet 295 mm long),
320 Hz (trumpet 340 mm long).

With 2 trumpets.

Rustproof chrome housing with
black base.



Part no.	Pk.	
3PB 005 411-001	1	Twin-tone compressed air horn Accessories: The air horn can be operated in the following 3 ways: Mounted on roof of cab. Operated by pull rod 120 cm length. 120 cm long.
9XL 715 989-001	1	Hand-operated valve Mounted on floor of cab. Operated by foot.
9XL 715 990-001	1	Foot-operated valve Mounted in engine compartment. Operated via horn push button. With 6.3 mm blade terminal contacts. Power consumption: 20W.
9XL 715 991-001	1	Electro valve, 24V



**Application chart
(indicating corresponding catalogue page)**

- Transporters	6.02-6.03
- Trucks and buses	6.04-6.17
- Agricultural and construction machinery	6.18-6.19

Mirror program (for specific vehicles)

- Mercedes-Benz	6.20-6.29
- MAN	6.30-6.35
- Iveco	6.36-6.37
- Scania	6.38
- Volvo	6.39
- DAF	6.40
- Volkswagen	6.40-6.42
- Buses	6.43-6.54
- Agricultural and construction machinery	6.55
- Universal	6.56-6.61

Accessories

- Connecting cables	6.62
- Mirror arms	6.62-6.64

Caravan mirror

	6.64
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External Mirrors

Concorde - Mercedes-Benz



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
Concorde					Mercedes-Benz				
Travel mobil		8SB 501 247-895 heated, 12V, upright, left	1	6.46	Sprinter Van (1980 mm vehicle width)	02/95 ->	8SB 507 042-001 manually adjustable, left	1	6.24
Travel mobil		8SB 501 247-905 heated, 12V, upright, right	1	6.46			8SB 507 043-001 manually adjustable, right	1	6.24
Hanomag-Henschel							8SB 507 042-011 electrically adjustable, heated, 12V, left	1	6.24
Small delivery vans and other trucks		8SB 002 997-001	1	6.59			8SB 507 043-011 electrically adjustable, heated, 12V, right	1	6.24
Hymer					Vario	10/96 ->	8SB 501 358-002 manually adjustable	1	6.24
Mobil homes		8SB 501 156-021	1	6.32			8SB 501 358-012 manually adjustable heated, 12V	1	6.24
		8SB 501 156-031 heated, 24V	1	6.32			8SB 501 358-082 electrically adjustable, heated, 12V	1	6.24
		8SB 501 358-082 electrically adjustable, heated, 12V	1	6.24			8SB 501 358-032 manually adjustable heated, 24V	1	6.24
		8SB 501 147-021 Wide-angle mirror for mirror arms Ø 16 - 22 mm	1	6.35			8SB 501 359-002 Wide-angle mirror, manually adjustable	1	6.25
		8SB 501 147-031 Wide-angle mirror for mirror arms Ø 16 - 22 mm, heated, 24V	1	6.35			8SB 501 359-012 Wide-angle mirror, manually adjustable, heated, 12V	1	6.25
Mobil homes		8SB 501 247-792 with wide-angle mirror, heated, 24V, hanging, right	1	6.45			8SB 501 359-022 Wide-angle mirror, manually adjustable, heated, 24V	1	6.25
Mobil homes		8SB 501 247-895 heated, 12V, upright, left	1	6.46	207 D - 308 (T1, TN-series)	05/77->07/81	8SB 003 609-061	1	6.20
Mobil homes		8SB 501 247-905 heated, 12V, upright, right	1	6.46	207 D - 410 (T1, TN-series)	08/81->02/95	8SB 004 288-001 for mirror arm Ø 10 mm	1	6.21
LMC							8SB 004 288-092 for mirror arm Ø 18 mm	1	6.21
Travel mobil		8SB 501 247-895 heated, 12V, upright, left	1	6.46			8SB 004 288-103 heated, 12V, for mirror arm Ø 10 mm	1	6.21
		8SB 501 247-905 heated, 12V, upright, right	1	6.46					
Mercedes-Benz									
L 206 - L 307 (T1-series)	->04/77	8SB 003 609-061	1	6.20					



Manufacturer Model	Model year	Part no.	Pk.	see Page
Mercedes-Benz				
230 G - 300 GD (W 460)	05/79->	8SB 003 609-061	1	6.20
507 D - 814 D (T2, LN1-series)	01/86->	8SB 003 614-001	1	6.21
		8SB 003 614-081 heated, 12V	1	6.21
		8SB 003 614-011 heated, 24V	1	6.21
Mitsubishi				
Canter FE 306, FE 331, FE 334, FE 444, FB 436		8SB 002 995-011 black	1	6.24
Canter 8.5t	94->	8SB 501 147-003 Wide-angle mirror	1	6.35
Pajero		8SB 003 609-061	1	6.20
		8SB 003 614-091	1	6.21
Nissan				
Patrol		8SB 004 288-001 Mirror arm Ø 10 mm	1	6.22
Steyr				
230 G - 300 GD (W 460)	05/79->	8SB 003 609-061	1	6.20
Volkswagen				
LT I all models with M-equipment LT I 35 D - 45 D	04/75->	8SB 002 995-011 black	1	6.24
LT I 50 D LT I 28	08/83-> 90->	8SB 560 991-012	1	6.34
		8SB 560 991-041 heated, 24V	1	6.34
		8SB 501 045-002	1	6.40
		8SB 501 045-012 heated, 12V	1	6.40
Transporter (T2)		8SB 002 407-001	1	6.42
		8SB 002 407-011	1	6.42
Transporter (T4) Bus, Van	09/90->04/03	8SB 507 047-001 plane, left	1	6.41
		8SB 507 047-011 convex, left	1	6.41
		8SB 507 048-001 convex, right	1	6.41
Transporter (T4) Flatbed	09/90->04/03	9EY 562 033-003 Mirror glass, convex	1	6.41



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Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page	
Auwärter E.					Büssing					
Buses		8SB 003 978-041 heated, 24V	1	6.22	Trucks to 7.5 t and over and buses, e.g. VÖV buses		8SB 002 993-001	1	6.33	
		8SB 501 246-822 heated, 24V, left	1	6.44			8SB 002 405-001	1	6.58	
		8SB 501 246-812 heated, 24V, right	1	6.44			8SB 002 405-011	1	6.58	
		8SB 501 246-892 with wide-angle and door observation mirror, heated, 24V, right	1	6.44	Caetano					
Eurostar SHD		8SB 501 246-892 heated, 24V, right	1	6.44	Buses		8SB 501 081-031 tinted	1	6.23	
Avia					DAF					
A 21 T, TF, TFC A 31 T-K, A 31 T-K, T-N, T-L, T-LL (Light-weight class)		8SB 501 156-021	1	6.32	CF 65, CF 75, CF 85	01/01->	8SB 354 507-001 electrically adjustable, heated, 24V	1	6.40	
		8SB 501 156-031 heated, 24V	1	6.32	XF 95	09/02 ->	8SB 354 508-001 Wide-angle mirror, heated, 24V	1	6.40	
Berkhof					CF 65, CF 75, CF 85	01/01 ->	Complies with the EU Directive 2003/97/EG and 2003/38/EG			
Buses		8SB 501 246-834 with wide-angle mirror, heated, 24V, left	1	6.44	XF 95	09/02 ->		9MX 564 250-001 Wide-angle mirror glass, heated, 24V	1	6.40
		8SB 501 246-803 with wide-angle mirror, heated, 24V, right	1	6.44	75, 85, 95	07/92->		for conversion of wide-angle mirror		
Buses		8SB 501 247-803 heated, 24V, upright, left	1	6.46	Drögmöller					
Buses		8SB 501 247-842 heated, 24V, upright, right	1	6.46	E 280 - E 440 (Travel coaches)		8SB 501 081-031 tinted	1	6.23	
Bova					E 280, E 290 E 320 (Europullmann) E 330 H (Eurocomet) E 330 K (Minicomet) E 420 E 430 U (Supercomet) E 440 (Meteor)		8SB 501 081-041 tinted, heated, 24V	1	6.23	
Futura	82->86	8SB 003 978-041 heated, 24V	1	6.22	E 320 - E 430		8SB 501 246-892 heated, 24V, right	1	6.44	
Futura	86->92	8SB 501 081-041 tinted, heated, 24V	1	6.23	E 320, E 330, K E 330-11,3, E 330 H E 330 H-11,3 E 430					
Futura		8SB 501 246-834 with wide-angle mirror, heated, 24V, left	1	6.44	EOS					
		8SB 501 246-803 with wide-angle mirror, heated, 24V, right	1	6.44	Buses		8SB 501 246-822 heated, 24V, left	1	6.44	
EvoBus					Setra Van		8SB 501 247-803 heated, 24V, upright, left	1	6.46	



External Mirrors

EvoBus - Iveco



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
EvoBus					Faun				
Buses		8SB 501 311-812 with front end observation mirror, heated, 24V, right	1	6.43	Community service vehicles, skip lorries, e.g. D 35		8SB 003 290-001	1	6.34
					D 35		8SB 003 290-011 heated, 24V	1	6.34
Buses		8SB 501 325-012 manually adjustable heated, 24V	1	6.31	Heavy lorries for trailers Goliath, Gigant, Herkules, Koloss		8SB 002 994-001	1	6.20
							8SB 003 978-001	1	6.22
		8SB 501 325-002 electrically adjustable, heated, 24V	1	6.31	Fire-fighting crane RTT 50-4		8SB 003 978-041 heated, 24V	1	6.22
Combibus					Fiat				
		8SB 501 401-802 left, heated, 24V, electrically adjustable	1	6.52	see Iveco				
					Hanomag-Henschel				
		8SB 501 401-822 left, heated, 24V, manually adjustable	1	6.52	Small delivery vans and other trucks		8SB 002 997-001	1	6.60
		8SB 501 403-802 right, heated, 24V, electrically adjustable	1	6.52	Construction machines		8SB 002 993-001	1	6.33
		8SB 501 403-822 right, heated, 24V, manually adjustable	1	6.52	Hino				
Citaro (O 530)	01/98->	8SB 501 401-802 left, heated, 24V, electrically adjustable	1	6.52	Trucks FD, FF, FG		8SB 003 978-001	1	6.22
							8SB 501 147-021 Wide-angle mirror for mirror arms Ø 16 - 22 mm	1	6.35
		8SB 501 401-822 left, heated, 24V, manually adjustable	1	6.52			8SB 501 147-031 Wide-angle mirror for mirror arms Ø 16 - 22 mm, heated, 24V	1	6.35
		8SB 501 402-802 right, heated, 24V, electrically adjustable	1	6.52	Irisbus				
		8SB 501 402-822 right, heated, 24V, manually adjustable	1	6.52	Axer		8SB 501 403-802 right, heated, 24V, electrically adjustable	1	6.52
Citaro (O 530)					Irizar				
					Century		8SB 501 246-803 with wide-angle mirror, heated, 24V, right	1	6.44
Iveco					Iveco				
					Trucks		8SB 002 993-001	1	6.33
					EuroCargo	09/00->03/06	Complies with the EU Directive 2003/97/EG and 2003/38/EG		
					EuroStar	01/93->02/02			
					EuroTech	01/92->03/06			
					EuroTrakker	01/93->11/04			
					Stralis	02/02->03/06	9MX 564 253-001 Wide-angle mirror glass, heated, 24V for conversion	1	6.37



External Mirrors

Iveco - MAN



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
Iveco					Krupp				
EuroClass travel coach 380 HD, ND		8SB 501 247-803 heated, 24V, upright, left	1	6.46	Trucks		8SB 003 290-001	1	6.34
		8SB 501 246-892 with wide-angle and door observation mirror, heated, 24V, right	1	6.44			8SB 003 290-011 heated, 24V	1	6.34
110-13 A - 130-16 AH (MK-series)		8SB 003 978-001	1	6.22	LAG				
		8SB 003 978-041 heated, 24V	1	6.22	Buses		8SB 003 978-041 heated, 24V	1	6.22
120-13 ANW - 340-34 AH (P/PA-series construction vehicles)		8SB 003 290-001	1	6.34	LIAZ				
		8SB 003 290-011 heated, 24V	1	6.34	18.33 TBV, 19.33 TBV (Heavy-weight class)		8SB 501 156-021	1	6.32
160-17 - 340-34 AH Platform truck						8SB 501 137-031 Safety manoeuvre mirror	1	6.35	
120-13 ANW - 330-36 HW Four-wheel-drive tipper					Liebherr				
Jonckheere					Vehicle cranes, e.g. 102 K slewing crane LTM 1040 - 3 telecrane LTM 1025 - LTM 1800 Automobile crane LTM 1120 (Progress 2000)		8SB 003 290-001	1	6.37
Travel coaches Jubilee, Deauville		8SB 003 978-041 heated, 24V	1	6.36		8SB 003 290-011 heated, 24V	1	6.37	
Overland bus Neuilly		8SB 501 081-031 tinted	1	6.23	MAN				
Route bus City 041 etc. travel coaches and route buses		8SB 501 081-041 tinted, heated, 24V	1	6.23	Buses		8SB 560 991-012	1	6.34
Buses		8SB 501 325-032 electrically adjustable, heated, 12V	1	6.31		8SB 560 991-041 heated, 24V	1	6.34	
		8SB 501 325-012 manually adjustable heated, 24V	1	6.31		8SB 002 990-001	1	6.33	
		8SB 501 325-002 electrically adjustable, heated, 24V	1	6.31		8SB 003 978-001	1	6.36	
Kässbohrer						8SB 003 978-041 heated, 24V	1	6.36	
Setra S 210 - S 250		8SB 003 978-001	1	6.22	Buses		8SB 501 081-031 tinted	1	6.23
S 210 H, HI Travel coach		8SB 003 978-041 heated, 24V	1	6.22		8SB 003 978-041 heated, 24V	1	6.36	
S 213 UL						8SB 501 081-031 tinted	1	6.23	
S 215 HDH/NR, S 216 HDS						8SB 501 081-041 tinted, heated, 24V	1	6.23	
Super double-decker S 219 SL urban route articulated bus									
S 228 DT double- decker travel coach									
S 250 Special Regional, overland route bus									
					Buses		8SB 501 247-822 with wide-angle mirror, heated, 24V, hanging, left	1	6.45
					Buses		8SB 501 311-842 with front end- and door observation mirror, heated, 24V, right	1	6.43
					ÜL 313/353		8SB 501 247-812 heated, 24V, hanging, left	1	6.45



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MAN



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
MAN					MAN				
Solarisbuses		8SB 501 325-012 manually adjustable heated, 24V	1	6.31	12.152 - 24.272 (M 90)	08/88 ->	8SB 501 156-021	1	6.32
Route buses City NG 263, NG 313 NL 263 NM 223, NM 313 NÜ 263		8SB 501 325-002 electrically adjustable, heated, 24V	1	6.31			8SB 501 156-031 heated, 24V	1	6.32
		8SB 501 325-032 electrically adjustable, heated, 12V	1	6.31			8SB 501 147-021 Wide-angle mirror for mirror arms Ø 16 - 22 mm	1	6.35
							8SB 501 147-031 Wide-angle mirror for mirror arms Ø 16 - 22 mm, heated, 24V	1	6.35
ÜL 313/353		8SB 501 246-812 heated, 24V, right	1	6.44	19.242 - 48.502 (F 90)	08/88->09/94	8SB 501 156-021	1	6.32
							8SB 501 156-031 heated, 24V	1	6.32
Lions Star FRH 322, FRH 372, FRH 422		8SB 501 247-803 heated, 24V, upright, left	1	6.46			8SB 501 147-021 Wide-angle mirror for mirror arms Ø 16 - 22 mm	1	6.35
		8SB 501 246-892 with wide-angle and door observation mirror, heated, 24V, right	1	6.44			8SB 501 147-031 Wide-angle mirror for mirror arms Ø 16 - 22 mm, heated, 24V	1	6.35
Trucks F-types	70->	8SB 002 990-001	1	6.33			8SB 501 137-031 Safety manoeuvre mirror	1	6.35
Trucks to 7.5 t		8SB 002 993-001	1	6.33					
Trucks		8SB 002 991-001	1	6.57	19.293 - 48.603 (F 2000)	10/94 ->	8SB 501 325-012 manually adjustable heated, 24V	1	6.31
		8SB 501 081-031 tinted	1	6.23			8SB 501 325-002 electrically adjustable, heated, 24V	1	6.31
8.113 - 10.224 (L 2000)	10/93->	8SB 501 325-012 manually adjustable heated, 24V	1	6.31			8SB 501 325-032 electrically adjustable, heated, 12V	1	6.31
		8SB 501 325-002 electrically adjustable, heated, 24V	1	6.31					
		8SB 501 325-032 electrically adjustable, heated, 12V	1	6.31					
10.136 F, 10.150 F (G, G 90)	10/79->09/93	8SB 560 991-012	1	6.34					
		8SB 560 991-041 heated, 24V	1	6.34					
		8SB 501 137-031 Safety manoeuvre mirror	1	6.35					
11.136 - 38.320	10/75->	8SB 003 290-001	1	6.37					
		8SB 003 290-011 heated, 24V	1	6.37					



External Mirrors

MAN - Mercedes-Benz



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page		
MAN					MAN						
7.150 - 12.240 (TGL)	04/05->	8SB 354 504-011	1	6.30	7.150 - 12.240 (TGL)	04/05 ->	Complies with the EU Directive 2003/97/EG and 2003/38/EG				
12.240 - 26.330 (TGM)	10/05->	electrically adjustable, heated, 24V, left (RH traffic)			12.240 - 26.330 (TGM)	10/05->					
18.310 - 41.660 (TGA)	03/00->	8SB 354 504-021	1	6.30	18.310 - 41.660 (TGA)	03/00->	9MX 863 847-011	1	6.30		
		electrically adjustable, heated, 24V, right (RH traffic)					Ramp mirror glass, heated, 24V, left/right				
		8SB 354 505-011	1	6.30			for conversion of ramp mirror 8SB 354 509-001				
		Wide-angle mirror, electrically adjustable, heated, 24V, left			MAN/VW						
		8SB 354 505-021	1	6.30	6.90 F - 9.150 F (G, G 90-series)	0/79 ->09/93	8SB 560 991-012	1	6.34		
		Wide-angle mirror, electrically adjustable, heated, 24V, right					8SB 560 991-041	1	6.34		
		8SB 354 509-001	1	6.30			8SB 501 137-031	1	6.35		
		Ramp mirror, electrically adjustable, heated, 24V					Safety manoeuvre mirror				
7.150 - 12.240 (TGL)	04/05->	Complies with the EU Directive 2003/97/EG and 2003/38/EG			Mannesmann-Demag						
12.240 - 26.330 (TGM)	10/05->				Construction machines autom. cranes, e.g. AC 615, AC 1600, CT 40, TC 3600, TC 3800, TC/PC 4200 CC						
18.310 - 41.660 (TGA)	03/00->				8SB 003 290-001	1	6.34	Mercedes-Benz			
		9MX 564 249-001	1	6.30	Older truck models						
		Mirror glass with heating element, 24V, left/right					8SB 002 995-011	1	6.24		
		for conversion of external mirror 8SB 354 504-011 and -021					black				
							8SB 002 995-001	1	6.24		
							grey				
7.150 - 12.240 (TGL)	04/05->	Complies with the EU Directive 2003/97/EG and 2003/38/EG			Trucks						
12.240 - 26.330 (TGM)	10/05->				8SB 002 991-001	1	6.58				
18.310 - 41.660 (TGA)	03/00->				9MX 863 839-011	1	6.30	8SB 002 993-001	1	6.33	
		Wide-angle mirror glass, heated, 24V, left/right									
		for conversion of external mirror 8SB 354 505-011 and -021									



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Mercedes-Benz



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
Mercedes-Benz					Mercedes-Benz				
Actros	09/96->10/02				Actros	09/96->10/02			
Actros MP2	10/02->10/08	Mirror head, mirror glass and mounting element will be ordered and delivered separately			Actros MP2	10/02->05/07	Complies with the EU Directive 2003/97/EG and 2003/38/EG		
		8SB 507 044-001 Mirror head, heated, 24V, left	1	6.26			9MX 564 235-021 Wide-angle mirror glass, heated, 24V, highly convex	1	6.26
		8SB 507 044-011 Mirror head, electrically adjustable, heated, 24V, left	1	6.26			for conversion of wide-angle mirror 8SB 507 045-001		
		9MX 564 234-001 Mirror glass with heating element, 24V, convex	1	6.26	Actros	09/96->10/02			
		9HD 564 236-001 Mounting element incl. cover	1	6.26	Actros MP2	10/02 ->05/07	Complies with the EU Directive 2003/97/EG and 2003/38/EG		
		8SB 507 045-001 Wide-angle mirror head, heated, 24V, right	1	6.26			8SB 507 049-001 Ramp mirror	1	6.26
		9MX 564 235-001 Wide-angle mirror glass, heated, 24V, highly convex	1	6.26	Atego I	01/98 ->09/04	Mirror head, mirror glass and mounting element will be ordered and delivered separately		
		9HD 564 236-001 Mounting element incl. cover	1	6.26			8SB 507 046-001 Mirror head, manually adjustable, heated, 24V	1	6.27
Actros	09/96->10/02						8SB 507 046-011 Mirror head, electrically adjustable, heated, 24V	1	6.27
Actros MP2	10/02->10/08	Complies with the EU Directive 2003/97/EG and 2003/38/EG					9MX 564 235-011 Mirror glass with heating element, 24V, convex	1	6.27
		9MX 564 234-011 Mirror glass with heating element, 24V, convex	1	6.26			8SB 507 045-001 Wide-angle mirror head, heated, 24V, right	1	6.26
		for conversion of external mirror 8SB 507 045-001 and -011					9MX 564 235-001 Wide-angle mirror glass, heated, 24V, highly convex	1	6.26
Actros	09/96->10/02						9HD 564 236-001 Mounting element incl. cover	1	6.26
Actros MP2	10/02->10/08	Complies with the EU Directive 2003/97/EG and 2003/38/EG							
		8SB 507 050-001 Front mirror, with mirror arm, heated, 24V	1	6.29					



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Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
Mercedes-Benz					Mercedes-Benz				
Atego I	01/98->09/04	Complies with the EU Directive 2003/97/EG and 2003/38/EG 9MX 564 235-031 Mirror glass with heating element, 24V, convex for conversion of external mirror 8SB 507 046-001 and -011	1	6.27	Atego II	10/04->	Mirror head, mirror glass and mounting element will be ordered and delivered separately 8SB 507 046-001 Mirror head, manually adjustable, heated, 24V 8SB 507 046-011 Mirror head, electrically adjustable, heated, 24V 9MX 564 235-011 Mirror glass with heating element, 24V, convex 8SB 507 045-001 Wide-angle mirror head, heated, 24V, right 9MX 564 235-001 Wide-angle mirror glass, heated, 24V, highly convex 9HD 564 236-001 Mounting element incl. cover	1	6.27
Atego I	01/98->09/04	Complies with the EU Directive 2003/97/EG and 2003/38/EG 8SB 507 052-001 Front mirror, with mirror arm, heated, 24V	1	6.29					
Atego I	01/98->09/04	Complies with the EU Directive 2003/97/EG and 2003/38/EG 9MX 564 235-021 Wide-angle mirror glass, heated, 24V, highly convex for conversion of wide-angle mirror 8SB 507 045-001	1	6.26					
Atego I	01/98->09/04	Complies with the EU Directive 2003/97/EG and 2003/38/EG 8SB 507 049-001 Ramp mirror	1	6.28					



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Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page		
Mercedes-Benz					Mercedes-Benz						
Atego II	10/04->	Complies with the EU Directive 2003/97/EG and 2003/38/EG			Atego II	06/07->	Complies with the EU Directive 2003/97/EG and 2003/38/EG				
		8SB 507 053-001 manually adjustable heated, 24V, left	1	6.28			8SB 507 060-001 Ramp mirror, manually adjustable, left/right	1	6.28		
		8SB 507 053-011 manually adjustable heated, 24V, right	1	6.28							
		8SB 507 054-001 electrically adjustable, heated, 24V, left	1	6.28			Axor I	09/01->09/04	Mirror head, mirror glass and mounting element will be ordered and delivered separately		
		8SB 507 054-011 electrically adjustable, heated, 24V, right	1	6.28			8SB 507 046-001 Mirror head, manually adjustable, heated, 24V	1	6.27		
		8SB 507 056-001 Front mirror, with mirror arm, heated, 24V	1	6.29			8SB 507 046-011 Mirror head, electrically adjustable, heated, 24V	1	6.27		
		8SB 507 055-001 Wide-angle mirror, manually adjustable, left/right	1	6.27			9MX 564 235-011 Mirror glass with heating element, 24V, convex	1	6.27		
		8KA 188 573-001 Adapter lead 8SB 507 053-001/-011, 8SB 507 055-001 for veh. ->06/10	1	6.27			8SB 507 045-001 Wide-angle mirror head, heated, 24V, right	1	6.26		
		8KA 188 581-001 Adapter lead 8SB 507 054-001/-011 for veh. ->06/10	1	6.28			9MX 564 235-001 Wide-angle mirror glass, heated, 24V, highly convex	1	6.26		
						9HD 564 236-001 Mounting element incl. cover	1	6.26			
Atego II	10/04->	Complies with the EU Directive 2003/97/EG and 2003/38/EG			Axor I	09/01->09/04	Complies with the EU Directive 2003/97/EG and 2003/38/EG				
		8SB 507 056-001 Front mirror, with mirror arm, heated, 24V	1	6.29			9MX 564 235-031 Mirror glass with heating element, 24V, convex for conversion of external mirror 8SB 507 046-001 and -011	1	6.27		



External Mirrors

Mercedes-Benz



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
Mercedes-Benz					Mercedes-Benz				
Axor I	09/01->09/04	Complies with the EU Directive 2003/97/EG and 2003/38/EG 8SB 507 052-001 Front mirror, with mirror arm, heated, 24V	1	6.29	Axor II	10/04->	Mirror head, mirror glass and mounting element will be ordered and delivered separately 8SB 507 046-001 Mirror head, manually adjustable, heated, 24V	1	6.27
Axor I	09/01->09/04	Complies with the EU Directive 2003/97/EG and 2003/38/EG 9MX 564 235-021 Wide-angle mirror glass, heated, 24V, highly convex for conversion of wide-angle mirror 8SB 507 045-001	1	6.26			8SB 507 046-011 Mirror head, electrically adjustable, heated, 24V	1	6.27
Axor I	09/01->09/04	Complies with the EU Directive 2003/97/EG and 2003/38/EG 8SB 507 049-001 Ramp mirror	1	6.28			9MX 564 235-011 Mirror glass with heating element, 24V, convex	1	6.27
							8SB 507 045-001 Wide-angle mirror head, heated, 24V, right	1	6.26
							9MX 564 235-001 Wide-angle mirror glass, heated, 24V, highly convex	1	6.26
							9HD 564 236-001 Mounting element incl. cover	1	6.26



External Mirrors

Mercedes-Benz



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page		
Mercedes-Benz					Mercedes-Benz						
Axor II	10/04->	Complies with the EU Directive 2003/97/EG and 2003/38/EG			Axor II	06/07->	Complies with the EU Directive 2003/97/EG and 2003/38/EG				
		8SB 507 053-001 manually adjustable heated, 24V, left	1	6.28			8SB 507 060-001 Ramp mirror, manually adjustable, left/right	1	6.28		
		8SB 507 053-011 manually adjustable heated, 24V, right	1	6.28			Econic	01/98->	Mirror head, mirror glass and mounting element will be ordered and delivered separately		
		8SB 507 054-001 electrically adjustable, heated, 24V, left	1	6.28					8SB 507 044-001 Mirror head, heated, 24V, left	1	6.26
		8SB 507 054-011 electrically adjustable, heated, 24V, right	1	6.28					8SB 507 044-011 Mirror head, electrically adjustable, heated, 24V, left	1	6.26
		8SB 507 056-001 Front mirror, with mirror arm, heated, 24V	1	6.29					9MX 564 234-001 Mirror glass with heating element, 24V, convex	1	6.26
		8SB 507 055-001 Wide-angle mirror, manually adjustable, left/right	1	6.27					9HD 564 236-001 Mounting element incl. cover	1	6.26
		8KA 188 573-001 Adapter lead 8SB 507 053-001/-011, 8SB 507 055-001 for veh. ->06/10	1	6.27					8SB 507 045-001 Wide-angle mirror head, heated, 24V, right	1	6.26
		8KA 188 581-001 Adapter lead 8SB 507 054-001/-011 for veh. ->06/10	1	6.28					9MX 564 235-001 Wide-angle mirror glass, heated, 24V, highly convex	1	6.26
			9HD 564 236-001 Mounting element incl. cover	1	6.26						
Axor II	10/04->	Complies with the EU Directive 2003/97/EG and 2003/38/EG			Econic	01/98->	Complies with the EU Directive 2003/97/EG and 2003/38/EG				
		8SB 507 056-001 Front mirror, with mirror arm, heated, 24V	1	6.29			9MX 564 234-011 Mirror glass with heating element, 24V, convex for conversion of external mirror 8SB 507 045-001 and -011	1	6.26		



External Mirrors

Mercedes-Benz



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
Mercedes-Benz					Mercedes-Benz				
Econic	01/98->05/07	Complies with the EU Directive 2003/97/EG and 2003/38/EG			Unimog		8SB 501 358-002 manually adjustable	1	6.24
		9MX 564 235-021 Wide-angle mirror glass, heated, 24V, highly convex for conversion of wide-angle mirror 8SB 507 045-001	1	6.26			8SB 501 358-012 manually adjustable heated, 12V	1	6.24
Econic	01/98->05/07	Complies with the EU Directive 2003/97/EG and 2003/38/EG					8SB 501 358-032 manually adjustable heated, 24V	1	6.24
		8SB 507 049-001 Ramp mirror	1	6.28			8SB 501 359-002 Wide-angle mirror, manually adjustable	1	6.25
LP 608 - LP 1113 (LP-series)	01/79->	8SB 003 614-001	1	6.21	709 - 1524 (LK, LN2-series)	3/84 ->	8SB 003 614-001	1	6.21
		8SB 003 614-081 heated, 12V	1	6.21			8SB 003 614-081 heated, 12V	1	6.21
		8SB 003 614-011 heated, 24V	1	6.21			8SB 003 614-011 heated, 24V	1	6.21
		8SB 003 978-001	1	6.22			8SB 003 978-001	1	6.22
		8SB 003 978-041 heated, 24V	1	6.22			8SB 003 978-041 heated, 24V	1	6.22
Route buses and travel coaches, etc. O 303/10 RHS, O 303/14 RHD, O 402, O 404, O 405 N/G		8SB 002 995-001 grey	1	6.24	1013 - 2632 (NG)	01/79 ->	8SB 003 978-001	1	6.22
		8SB 003 614-001	1	6.21			8SB 003 978-041 heated, 24V	1	6.22
		8SB 003 614-081 heated, 12V	1	6.21	1422 - 2633 (NG)	01/80->	8SB 501 081-031 tinted	1	6.23
		8SB 003 614-011 heated, 24V	1	6.21			8SB 501 081-041 tinted, heated, 24V	1	6.23
		8SB 003 978-001	1	6.22			8SB 501 081-082 with aspherical mirror glass, heated, 24V	1	6.23
		8SB 003 978-041 heated, 24V	1	6.22			8SB 501 274-001 für driver's side, manually adjustable, heated, 24V, left	1	6.25
Unimog 403 - 421	->06/78	8SB 002 994-001	1	6.59	1222 - 2534 (MK) 1729 - 4850 (SK)		8SB 501 273-001 for passenger's side, electrically adjustable, heated, 24V, right	1	6.25
Unimog 425, 435	07/78->	8SB 003 290-001	1	6.34					



External Mirrors

Mitsubishi - Sisu



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
Mitsubishi					Neoplan				
F 415, FH 100, FK 315		8SB 560 991-012	1	6.34	Buses Cityliner Skyliner Starliner Spaceliner		8SB 501 311-812 with front end observation mirror, heated, 24V, right	1	6.43
		8SB 560 991-041 heated, 24V	1	6.34					
FK 455, FP 418, FU 418, FU 515, FV 438		8SB 003 290-001	1	6.34	Buses Cityliner N, H Megaliner Skyliner Spaceliner		8SB 501 311-842 with front end- and door observation mirror, heated, 24V, right	1	6.43
Neoplan					O&K				
Buses, etc. Cityliner N 116 Spaceliner N 117/3 Skyliner N 122/3 Jetliner N 208 Airport service bus N 940 Metroliner N 4008 Low-platform busses N 4009, N 4021 SG, Transliner K	74->	8SB 003 290-011 heated, 24V	1	6.34	see Faun				
		8SB 003 978-001	1	6.36	ÖAF				
		8SB 003 978-041 heated, 24V	1	6.36	Special vehicles and buses, etc. ÜH 290 M 12, 41.332 VFAH, 48.700 VFAS		8SB 501 156-021	1	6.32
		8SB 501 156-031 heated, 24V	1	6.32			8SB 501 156-031 heated, 24V	1	6.32
		8SB 501 190-082 electrically adjustable, heated, 24V	1	6.56	various trucks		8SB 003 290-001	1	6.37
		8SB 501 191-202 electrically adjustable, heated, 24V	1	6.56			8SB 003 290-011 heated, 24V	1	6.37
Buses Cityliner N, H Jetliner N, H, SHD Megaliner Skyliner Spaceliner Transliner, K, Ü, L, SHD		8SB 501 247-803 heated, 24V, upright, left	1	6.46	Saurer				
					Trucks		8SB 003 290-001	1	6.37
Buses, etc. Jetliner N, H, SHD Transliner, K, Ü, L, SHD		8SB 501 246-822 heated, 24V, left	1	6.44	Scania				
		8SB 501 246-812 heated, 24V, right	1	6.44	Buses		8SB 501 247-803 heated, 24V, upright, left	1	6.46
		8SB 501 246-834 with wide-angle mirror, heated, 24V, left	1	6.44			8SB 501 311-842 with front end- and door observation mirror, heated, 24V, right	1	6.43
		8SB 501 246-803 with wide-angle mirror, heated, 24V, right	1	6.44	124, 144 (series 4)	09/95->09/04	9MX 564 242-001 Mirror glass for external mirror	1	6.38
		8SB 501 246-892 with wide-angle and door observation mirror, heated, 24V, right	1	6.44			9MX 564 243-001 Mirror glass for external mirror, heated, 24V	1	6.38
Buses Centroliner Cityliner N, H Skyliner Spaceliner Starliner		8SB 501 247-812 heated, 24V, hanging, left	1	6.45			9MX 564 244-001 Wide-angle mirror glass, heated, 24V	1	6.38
					Trucks		8SB 003 978-001	1	6.38
							8SB 003 978-041 heated, 24V	1	6.38
					Sisu				
					Trucks	06/85->	8SB 003 290-001	1	6.34



External Mirrors

Steyr - Volvo



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
Steyr					Volvo				
9 S - 17 S	01/86->	8SB 501 081-031 tinted	1	6.23	FH 12, FH 16	08/93 ->12/01	9MX 564 215-012 Mirror glass for external mirror, heated, 24V, convex	1	6.39
19 S - 40 S	10/87->	8SB 003 978-001	1	6.32					
1291		8SB 003 978-041 heated, 24V	1	6.32					
Temsa									
Buses		8SB 501 246-822 heated, 24V, left	1	6.44	FH 12, FH 16	08/93->12/01	8SB 354 506-801 External mirror set incl. mirror arm, electrically adjustable, heated, 24V, left (RH traffic)	1	6.39
							8SB 354 506-811 External mirror set incl. mirror arm, electrically adjustable, heated, 24V, right (RH traffic)	1	6.39
Van Hool									
Acron, Alizee, Astromega, Astron		8SB 003 978-001	1	6.22					
		8SB 003 978-041 heated, 24V	1	6.22					
Buses		8SB 501 081-031 tinted	1	6.23					
Buses		8SB 501 246-812 heated, 24V, right	1	6.44					
Buses		8SB 501 247-803 heated, 24V, hanging, left	1	6.46					
Buses		8SB 501 247-812 heated, 24V, hanging, left	1	6.45					
Buses		8SB 501 311-812 with front end observation mirror, heated, 24V, right	1	6.43					
Vetter									
Buses		8SB 003 290-011 heated, 24V	1	6.43					
Volvo									
Buses		8SB 501 246-822 heated, 24V, left	1	6.44					
		8SB 501 246-892 with wide-angle and door observation mirror, heated, 24V, right	1	6.44					
Trucks		8SB 003 978-001	1	6.39					
		8SB 003 978-041 heated, 24V	1	6.39					
F 7, F 10, F 12, F 16	12/77->	8SB 003 290-001	1	6.34					
		8SB 003 290-011 heated, 24V	1	6.34					



External Mirrors

Atlas-Weyhausen - Hanomag-Henschel



Manufacturer Model	Model year	Part no.	Pk.	see Page	Manufacturer Model	Model year	Part no.	Pk.	see Page
Atlas-Weyhausen					Dieteg				
Wheel excavator		8SB 002 990-001	1	6.58	Tractors-, forklifts- and other cabs		8SB 002 997-001	1	6.60
AK 6002 T (telemast crane)		8SB 003 290-001	1	6.34			8SB 003 290-001	1	6.34
6500 M CTU (Loading/salvaging crane)		8SB 002 997-001	1	6.60			8SB 560 991-012	1	6.34
							8SB 002 407-001	1	6.42
							8SB 002 995-001	1	6.24
						8SB 002 995-011	1	6.24	
Case IH					Eicher				
Tractors		8SB 501 263-003	1	6.55	Tractors and agricultural machines		8SB 560 991-012	1	6.34
733 - 933 XL (B-series)		8SB 002 995-011	1	6.24			8SB 002 994-001	1	6.59
V 2120 - E 2150 (2100-series)		8SB 002 405-001	1	6.58	Wotan 3108, 3125, 3145				
1640 - 9000 (Combine harvester)		8SB 002 405-001	1	6.58	656 PB, PBA 666 PB, PBA 680 PAB				
Caterpillar					Fendt				
Construction machines		8SB 501 263-003	1	6.55	Tractors		8SB 002 991-001	1	6.55
Telescope loader		8SB 501 156-021	1	6.32	Farmer 102 - 105 S		8SB 002 994-001	1	6.59
		8SB 501 156-031 heated, 24V	1	6.32	Farmer 200 S - 280 P		8SB 002 997-001	1	6.29
		8SB 501 147-003 Wide-angle mirror	1	6.35			8SB 003 290-001	1	6.34
Claas					Farmer 304 LS - 312 LSA		8SB 003 290-001	1	6.34
Combine harvester		8SB 002 991-001	1	6.55	Favorit 600 LS - 626 LS		8SB 002 994-001	1	6.59
Mannesmann-Demag							8SB 003 290-001	1	6.34
Construction machines autom. cranes, e.g. AC 615, AC 1600, CT 40, TC 3600, TC 3800, TC/PC 4200 CC		8SB 003 290-001	1	6.34	F 231 GT - F 275 KGT		8SB 002 994-001	1	6.59
Deutz-Fahr					F 345 GT - F 395 GHA		8SB 003 290-001	1	6.34
Tractors		8SB 002 991-001	1	6.55	Fritzmeier				
Tractors		8SB 501 263-003	1	6.55	Cabs for tractors		8SB 002 994-001	1	6.59
DX 3.10 - DX 3.70 with variable cab		8SB 002 994-001	1	6.59	533-833 (Combi-Cab)		8SB 002 994-001	1	6.59
DX 35 - DX 160		8SB 002 997-001	1	6.60	1350-2650 (Multi-Cab)				
		8SB 002 991-001	1	6.55	533/633 (Cab M 711)		8SB 002 997-001	1	6.60
Dieteg					1350-2450 (Cab M 782)				
Cabs for tractors		8SB 002 994-001	1	6.59	Hanomag-Henschel				
					Construction machines		8SB 002 993-001	1	6.33



Manufacturer Model	Model year	Part no.	Pk.	see Page
JCB				
Tractors		8SB 501 263-003	1	6.55
Mauser				
Cabs for tractors		8SB 004 288-001	1	6.21
		8SB 002 994-001	1	6.59
		8SB 003 609-061	1	6.20
Massey-Ferguson				
3000 - 3090		8SB 002 997-001	1	6.60
		8SB 002 994-001	1	6.59
135 - 185		8SB 002 994-001	1	6.59
Peco				
Cabs for tractors		8SB 002 994-001	1	6.59
Same				
Tractors		8SB 501 263-003	1	6.55
Scharwächter				
Cabs for tractors		8SB 002 994-001	1	6.59
Sennebogen				
Construction machines		8SB 501 263-003	1	6.55
Sirocco				
Cabs for tractors		8SB 002 994-001	1	6.59
Steyr				
Tractors		8SB 002 991-001	1	6.55
		8SB 501 263-003	1	6.55
Zetor				
Tractors 5211 - 16145		8SB 002 993-001	1	6.33
Zettelmeyer				
Wheeled loader		8SB 003 290-001	1	6.37

External Mirrors

Mercedes-Benz



Mercedes-Benz Unimog 403, 408, 421, Eicher, Faun, tractors with Dieteg-, Fritzmeier-, Peco-, Scharwächter- and Sirocco-cabines

Steel mirror head with black Durocoat finish.
 Mirror head: 265 x 160 mm.
 Mirror glass: 255 x 156 mm.
 Radius of curvature: 1400 mm.
 Mounted on 10 mm dia. arms.

Part no.	Pk.	
8SB 002 994-001	1	External mirror
9EY 117 127-001	2	Spare parts: Mirror glass



Safety manoeuvre mirror for mounting on the passenger side of the vehicle

Black plastic mirror head.
 Mirror head: 241 x 158 mm.
 Mirror glass: 233 x 148 mm.
 Radius of curvature: 800 mm.
 Adjustable by means of rotating ball support.
 With bracket and mounting flange for the passenger door pillar.

Part no.	Pk.	
8SB 002 995-151	1	Safety manoeuvre mirror



Mercedes-Benz 207D - 208 (T1, TN-series) 5/77->7/81, Cross-country vehicles (G-series), Mitsubishi, Steyr

Black plastic mirror head.
 Mirror head: 210 x 138 mm.
 Mirror glass: 198 x 129 mm.
 Radius of curvature: 1400 mm.
 Mounted on 10 mm dia. arm.

Part no.	Pk.	
8SB 003 609-061	1	External mirror



Mercedes-Benz 207 D - 410 (T1, TN-series) 8/81->2/95

Black plastic mirror head.
Mirror head: 244 x 157 mm.
Mirror glass: 236 x 146 mm.
Radius of curvature: 2100 mm.

Part no.	Pk.	
8SB 004 288-001	1	External mirror, mounted on 10 mm dia. arm
8SB 004 288-092	1	mounted on 18 mm dia. arm
8SB 004 288-103	1	External mirror mounted on 10 mm dia. arm, heated, 12V
8KA 003 806-001	1	Accessories: Connecting cable with 2-pole plug, 2000 mm long



Mercedes-Benz LP 608 - 1113 1/79->

Black plastic mirror head.
Mirror head: 305 x 184 mm.
Mirror glass: 292 x 170 mm.
Radius of curvature: 2200 mm.
Monted on 18/22 mm dia. arm.

Part no.	Pk.	
8SB 003 614-001	1	External mirror without fixing material
9EY 122 979-001	2	Spare parts: Mirror glass
8SB 003 614-081	1	External mirror, without fixing material, heated, 12V
8SB 003 614-011	1	without fixing material, heated, 24V
9MX 127 586-032	1	Spare parts/Accessories: Mirror glass with heating element for -081
9MX 127 586-001	1	for -011
8KA 003 806-001	1	Connecting cable with 2-pole plug, 2000 mm long
8HS 562 691-002	1	Fixing clamp for 18/22 mm dia. arm



Mitsubishi Pajero

Black plastic mirror head.
Mirror head: 305 x 184 mm.
Mirror glass: 292 x 170 mm.
Radius of curvature: 2200 mm.
Mounted on vehicle-side mirror arm.

Part no.	Pk.	
8SB 003 614-091	1	External mirror without fixing material
9EY 122 979-001	2	Spare parts/Accessories: Mirror glass



Mercedes-Benz 1013-2632 (NG) 1/79->, MAN, Iveco, Neoplan, Kässbohrer, Hino, Steyr and Van Hool

Black plastic mirror head.
 Mirror head: 367 x 182 mm.
 Mirror glass: 355.5 x 169.5 mm.
 Radius of curvature: 2100 mm.
 Mounted on 18/22 mm dia. arm.

Complies with the EU Directive 2003/97

Part no.	Pk.	
8SB 003 978-001	1	External mirror without fixing material
9EY 125 314-001	1	Spare parts: Mirror glass

Mercedes-Benz 1013-2632 (NG) 1/79->, MAN, Iveco, Neoplan, Kässbohrer, Bova, Jonckheere, LAG, Steyr, Ernst Auwärter and Van Hool

Black plastic mirror head.
 Mirror head: 367 x 182 mm.
 Mirror glass: 355.5 x 169.5 mm.
 Radius of curvature: 2200 mm.
 Mounted on 18/22 mm dia. arm.



Part no.	Pk.	
8SB 003 978-041	1	External mirror without fixing material, 24V
9MX 127 585-002	1	Spare parts/Accessories: Mirror glass with heating element
8KA 003 806-001	1	Connecting cable with 2-pole plug, 2000 mm long
8HS 562 691-002	1	Fixing clamp for 18/22 mm dia. arm



Mercedes-Benz 1422-2633 (NG) 1/80->, MAN and buses from Van Hool, Caetano and others

Black plastic mirror head.
 Mirror head: 422 x 200 mm.
 Mirror glass: 408 x 185.5 mm.
 Radius of curvature: 2200 mm.
 Mounted on 18 mm dia. arm.

Complies with the EU Directive 2003/97

Part no.	Pk.	
8SB 501 081-031	1	External mirror, tinted, with fixing material
9EY 561 445-001	1	Spare parts: Mirror glass

Mercedes-Benz and Bova buses

Black plastic mirror head.
 Mirror head: 422 x 200 mm.
 Mirror glass: 408 x 185.5 mm.
 Radius of curvature: 2200 mm.
 Mounted on 18 mm dia. arm.



Part no.	Pk.	
8SB 501 081-041	1	External mirror, tinted, without mounting hardware and fixing material, heated, 24V
9MX 561 449-001	1	Spare parts/Accessories: Mirror glass with heating element
8KA 003 806-001	1	Connecting cable with 2-pole plug, 2000 mm long
8HS 562 691-002	1	Fixing clamp for 18/22 mm dia. arm

Mercedes-Benz

Two-part mirror head, with aspherical glass.
 Mirror head: 422 x 200 mm.
 Mirror glass: 408 x 186 mm.
 Radius of curvature: 1800 mm.
 Mounted on 18/22 mm dia. arm.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 501 081-082	1	External mirror with fixing material, heated, 24V

External Mirrors

Mercedes-Benz



Mercedes-Benz trucks, older models

Mirror head: 246 x 158 mm.
 Mirror glass: 241 x 150 mm.
 Radius of curvature: 2200 mm.

Part no.	Pk.	
8SB 002 995-001	1	External mirror with grey plastic mirror head and hexagonal nut mount

Mercedes-Benz, Case International, Mitsubishi and VW

Part no.	Pk.	
8SB 002 995-011	1	External mirror with black plastic mirror head and round nut mount



Mercedes-Benz Sprinter Van (1980 mm vehicle width)

Black plastic mirror head.
 Mirror head: 283 x 177 mm.
 Mirror glass: 238 x 142 mm.
 Radius of curvature: 2000 mm.
 Mounted to integrated special bracket/clip.

Part no.	Pk.	
8SB 507 042-001	1	External mirror, manually adjustable, left
8SB 507 043-001	1	right
8SB 507 042-011	1	External mirror, electrically adjustable, heated, 12V, left
8SB 507 043-011	1	right



Mercedes-Benz Transporter Vario/Unimog

Black plastic mirror head.
 Mirror head: 336 x 194.5 mm.
 Mirror glass: 315 x 174 mm.
 Radius of curvature: 173.5 mm.
 Mounted on 22 mm dia. arm.

Part no.	Pk.	
8SB 501 358-002	1	External mirror, manually adjustable
8SB 501 358-012	1	manually adjustable, heated, 12V
8SB 501 358-082	1	electrically adjustable, heated, 12V
8SB 501 358-032	1	manually adjustable, heated, 24V
Spare parts:		
9MX 563 710-012	1	Mirror glass assembly for -002
9MX 563 717-032	1	Mirror glass assembly with heating element, 24V



Mercedes-Benz Transporter Vario/Unimog

Black plastic mirror head.
 Mirror head: 195 x 189 mm.
 Mirror glass: 174 x 168.5 mm.
 Radius of curvature: 450 mm.
 Mounted on 22 mm dia. arm.



Part no.	Pk.	
8SB 501 359-002	1	External mirror, manually adjustable
8SB 501 359-012	1	manually adjustable, heated, 12V
8SB 501 359-022	1	manually adjustable, heated, 24V
Spare parts:		
9MX 563 710-012	1	Mirror glass assembly for -002
9MX 563 717-032	1	Mirror glass assembly with heating element, 24V

Mercedes-Benz 1222 - 2534 (MK) 1729 -4850 (SK)

Black plastic mirror head.
 Mirror head: 440 x 182 mm.
 Mirror glass: 427 x 169 mm.
 Radius of curvature: 2000 mm.
 Mounted on 28 mm dia. arm.



Part no.	Pk.	
8SB 501 274-001	1	External mirror for driver's side, manually adjustable, heated, 24V, (RH traffic), left
8SB 501 273-001	1	for passenger's side, electrically adjustable, heated, 24V, (RH traffic), right
Spare parts:		
9EY 563 168-001	5	Mirror glass for original MB-mirror
9MX 563 167-001	5	with heating element, 24V

External Mirrors

Mercedes-Benz



Mercedes-Benz Actros 09/96->10/02, Actros MP2 10/02->, Econic 01/98->

Black plastic mirror head.
Mirror head: 433 x 188 mm.
Mirror glass: 433 x 188 mm.
Radius of curvature: 2000 mm.
Mounted on 28 mm dia. arm.

**Mirror head, -glass and holding element
are not supplied.**



Part no.	Pk.	
8SB 507 044-001	1	Mirror head, without glass,, manually adjustable, heated, 24V
8SB 507 044-011	1	electrically adjustable, heated, 24V
9MX 564 234-001	1	Mirror glass with heating element, 24V, convex
9MX 564 234-011	1	Mirror glass with heating element, 24V, convex. Radius of curvature: 1200 mm. For conversion to the EU Directive 2003/97 and 2003/38
9HD 564 236-001	1	Holding element incl. cap 74 x 65 mm



Mercedes-Benz Actros 09/96->10/02, Actros MP2 10/02->, Atego I 01/98->09/04, Atego II 10/04->, Axor 01/02->, Econic 01/98->

Black plastic mirror head.
Mirror head: 200 x 200 mm.
Mirror glass: 200 x 200 mm.
Mounted on 28 mm dia. arm.

**Mirror head, -glass and holding element
are not supplied.**



Part no.	Pk.	
8SB 507 045-001	1	Wide-angle mirror head without glass, heated, 24V
9MX 564 235-001	1	Wide-angle mirror glass, heated, 24V, Radius of curvature: 450 mm
9MX 564 235-021	1	Wide-angle mirror glass, heated, 24V. Radius of curvature: 300 mm. For conversion to the EU Directive 2003/97 and 2003/38
9HD 564 236-001	1	Holding element incl. cap 74 x 65 mm

Mercedes-Benz Atego I 01/98->09/04, Atego II 10/04->, Axor 01/02->

Black plastic mirror head.
Mirror head: 380 x 170 mm.
Mirror glass: 378 x 168 mm.
Mounted on 28 mm dia. arm.

Mirror head, -glass and holding element
are not supplied.



Part no.	Pk.	
8SB 507 046-001	1	Mirror head, without glass,, manually adjustable, heated, 24V
8SB 507 046-011	1	electrically adjustable, heated, 24V
9MX 564 235-011	1	Mirror glass with heating element, 24V, convex Radius of curvature: 2000 mm
9MX 564 235-031	1	Mirror glass with heating element, 24V, convex. Radius of curvature: 1200 mm. For conversion to the EU Directive 2003/97 and 2003/38
9HD 564 236-001	1	Holding element incl. cap 74 x 65 mm



Mercedes-Benz Atego II 10/04->, Axor II 10/04->

Black plastic mirror head.
Mirror head: 200 x 200 mm.
Mirror glass: 200 x 200 mm.
Radius of curvature: 300 mm.
Mounted on 28 mm dia. arm.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 507 055-001	1	Wide-angle mirror, heated, 24V
9MX 564 248-001	1	Spare parts/Accessories: Mirror glass with heating element, 24V
9HD 564 236-011	1	Fastening hardware
8KA 188 573-001	1	Adapter cable



Mercedes-Benz Atego II 10/04->, Axor II 10/04->

Black plastic mirror head.
 Mirror head: 435 x 215 x 129 mm.
 Mirror glass: 431 x 186 mm.
 Radius of curvature: 1200 mm.
 Mounted on 28 mm dia. arm.

Complies with the EU Directive 2003/97 and 2003/38



Part no.	Pk.	
8SB 507 053-001	1	Mirror head, manually adjustable, heated, 24V, left
8SB 507 053-011	1	
8SB 507 054-001	1	Mirror head, electrically adjustable, heated, 24V, left
8SB 507 054-011	1	
		Spare parts/Accessories:
9MX 564 247-001	1	Mirror glass with heating element, 24V
9HD 564 236-011	1	Fastening hardware
8KA 188 573-001	1	Adapter cable
8KA 188 583-001	1	Adapter cable
8KA 188 581-001	1	for 8SB 507 053-001/-011 ->06/2010
		for 8SB 507 054-001/-011 ->06/2010



MB Actros I 9/96->5/07, Atego I 1/98->9/04, Axor 9/01->9/04, Econic 3/98->5/07

Mirror head: 298 x 158 mm.
 Radius of curvature: 300 mm.

Complies with the EU Directive 2003/97 and 2003/38

Part no.	Pk.	
8SB 507 049-001	1	Ramp mirror, manually adjustable
9MX 564 245-001	1	Spare parts: Mirror glass

MB Axor II 06/07->, Atego II 06/07->

Mirror head: 293 x 153 mm.
 Radius of curvature: 300 mm.

Complies with the EU Directive 2003/97 and 2003/38

Part no.	Pk.	
8SB 507 060-001	1	Ramp mirror, manually adjustable



**MB Actros I 9/96->9/04,
Actros II 10/04->**

Mirror glass: Ø 250 mm.
Radius of curvature: 300 mm.
With 150 mm cable and 2-pole plug.

Complies with the EU Directive 2003/97 and 2003/38



Part no.	Pk.	
8SB 507 050-001	1	Front mirror, heated, 24V
Spare parts:		
9MX 564 246-001	1	Mirror glass with heating element, 24V

**MB Axor I 1/98->9/04,
Atego I 1/98->9/04**

Mirror glass: Ø 250 mm.
Radius of curvature: 300 mm.
With 800 mm cable.

Complies with the EU Directive 2003/97 and 2003/38



Part no.	Pk.	
8SB 507 052-001	1	Front mirror, heated, 24V
Spare parts:		
9MX 564 246-001	1	Mirror glass with heating element, 24V

**MB Axor II 10/04->,
Atego II 10/04->**

Mirror glass: Ø 250 mm.
Radius of curvature: 300 mm.

Complies with the EU Directive 2003/97 and 2003/38



Part no.	Pk.	
8SB 507 056-001	1	Front mirror, heated, 24V

External Mirrors

MAN



MAN TGA 03/00->

Black plastic mirror head.
 Mirror head: 399 x 207 mm, left.
 Mirror head: 399 x 222 mm, right.
 Mirror glass: 379 x 176 mm.
 Radius of curvature: 2000 mm.
 Mounted on 28 mm dia. arm.



Part no.	Pk.	
8SB 354 504-011	1	External mirror, electrically adjustable, heated, 24V, left
8SB 354 504-021	1	
		Spare parts:
		Mirror head with heating element, 24V, Radius of curvature: 2000 mm.
9MX 863 837-001	1	left
9MX 863 838-001	1	right
		Mirror head with heating element, 24V. Radius of curvature: 1200 mm. For conversion to the EU Directive 2003/97 and 2003/38,
9MX 564 249-001	1	left and right
		Cap
9HB 863 835-001	1	left
9HB 863 836-001	1	right



Black plastic mirror head.
 Mirror head: 188 x 207 mm, left.
 Mirror head: 188 x 220 mm, right.
 Mirror glass: 177 x 176 mm.
 Radius of curvature: 450 mm.



Part no.	Pk.	
8SB 354 505-011	1	Wide-angle mirror, electrically adjustable, heated, 24V, left
8SB 354 505-021	1	
		Spare parts:
		Mirror glass with heating element, 24V Radius of curvature: 450 mm
9MX 863 848-001	1	Mirror head with heating element, 24V. Radius of curvature: 300 mm. For conversion to the EU Directive 2003/97 and 2003/38
9MX 863 839-011	1	Cap
9HB 863 839-001	1	left
9HB 863 840-001	1	right



Black plastic mirror head.
 Mirror head: 324 x 185 mm.
 Mirror glass: 324 x 185 mm.
 Radius of curvature: 450 mm.
 Mounted to door frame.

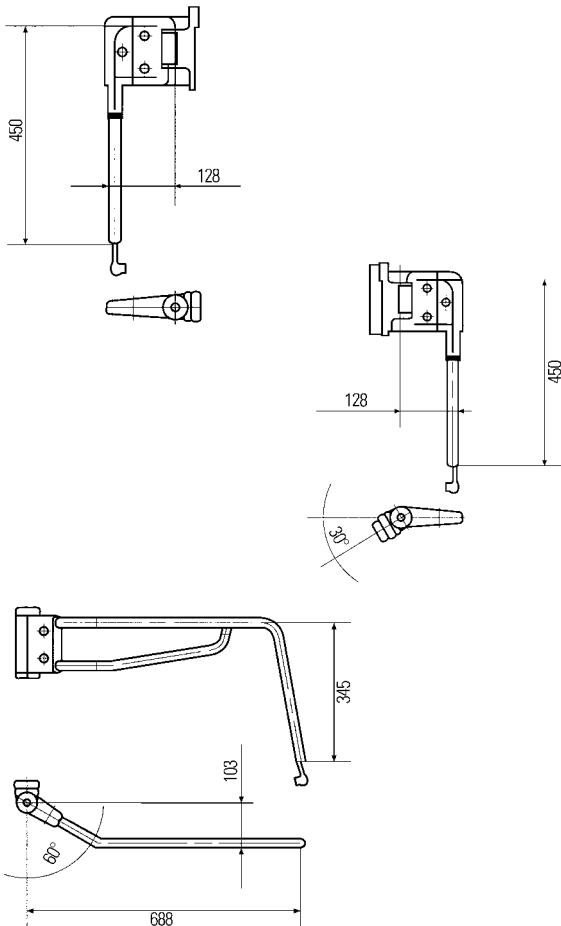


Part no.	Pk.	
8SB 354 509-001	1	Ramp mirror, electrically adjustable, heated, 24V
		Spare parts:
		Mirror glass with heating element, 24V Radius of curvature: 450 mm
9MX 863 847-001	1	Mirror head with heating element, 24V. Radius of curvature: 300 mm. For conversion to the EU Directive 2003/97 and 2003/38
9MX 863 847-011	1	

MAN F 2000, L 2000 9/94->, Jonckheere, EvoBus, Mobile homes

MAN buses for public transport and solar buses

Black plastic mirror head.
with removable cap on back.
Mirror head: 383 x 206 mm.
Mirror glass: 371 x 197 mm.
Radius of curvature: 2100 mm.
Mounted on 22 mm dia. arm.



Part no.	Pk.	
8SB 501 325-032	1	External mirror, electrically adjustable, heated, 12V
8SB 501 325-012	1	manually adjustable, heated, 24V
8SB 501 325-002	1	electrically adjustable, heated, 24V
Spare parts:		
9MX 563 468-002	1	Mirror glass carrier assembly for -012/-002, 24V
9HD 563 475-041	1	Cap
Accessories:		
Mirror arm with 6-pin round plug, left		
8HG 503 009-022	1	
Mirror arm right, with 2-pin round plug		
8HG 503 009-082	1	right
Mirror arm right, with 6-pin intermediate plug		
8HG 503 019-012	1	
8HG 503 019-022	1	with 6-pin intermediate plug



MAN 19.242 - 48.502 (F 90-series) 1/87->, 12.152 - 24.272 (M 90-series) 8/88->9/94, Neoplan, LIAZ, ÖAF, Van Hool, Avia, Hymer and Caterpillars Teleportas

Black plastic mirror head.
 Mirror head: 375.5 x 186.5 mm.
 Mirror glass: 364 x 175 mm.
 Radius of curvature: 2200 mm.
 Mounted on 15/20 mm dia. arm.



Part no.	Pk.	
8SB 501 156-021	1	External mirror
8SB 501 156-031	1	heated, 24V
Spare parts/Accessories:		
9EY 120 010-001	5	Mirror glass for -021
9MX 561 891-001	1	with heating element for -011
8KA 500 218-002	1	Connecting cable with 2-pole plug, 1150 mm long



MAN, Mercedes-Benz, Iveco, Neoplan, Den Oudsten, Hainje, Hino, Steyr and Van Hool

Black plastic mirror head.
 Mirror head: 367 x 182 mm.
 Mirror glass: 355.5 x 169.5 mm.
 Radius of curvature: 2100 mm.
 Mounted on 18/22 mm dia. arm.

Complies with the EU Directive 2003/97

Part no.	Pk.	
8SB 003 978-001	1	External mirror without fixing material
9EY 125 314-001	1	Mirror glass

MAN, Mercedes-Benz, Iveco, Neoplan, Bova, Den Oudsten, Hainje, Jonckheere, LAG, Steyr and Van Hool

Black plastic mirror head.
 Mirror head: 367 x 182 mm.
 Mirror glass: 355.5 x 169.5 mm.
 Radius of curvature: 2200 mm.
 Mounted on 18 mm dia. arm.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 003 978-041	1	External mirror without fixing material, heated, 24V
Spare parts/Accessories:		
9MX 127 585-002	1	Mirror glass with heating element
8KA 003 806-001	1	Connecting cable with 2-pole plug, 2000 mm long
8HS 562 691-002	1	Fixing clamp for 18/22 mm dia. arm



MAN F-series 70-> and buses

Grey, steel mirror head with Durocoat finish.
 Mirror head: 420 x 220 mm.
 Mirror glass: 410 x 210 mm.
 Radius of curvature: 1400 mm.
 Mounted on 18 mm dia. arm.

Without approval.

Part no.	Pk.	
8SB 002 990-001	1	External mirror
9EY 117 124-001	1	Spare parts: Mirror glass



MAN trucks up to 7,5t, Mercedes-Benz, Büssing and Iveco

Grey, steel mirror head with Durocoat finish.
 Mirror head: 260 x 180 mm.
 Mirror glass: 250 x 170 mm.
 Radius of curvature: 1400 mm.
 Mounted on 15 mm dia. arm.

Without approval.

Part no.	Pk.	
8SB 002 993-001	1	External mirror
9EY 117 125-001	1	Spare parts: Mirror glass



**MAN 10.136, 10.150 (G, G 90-series) 10/79->9/93,
MAN/VW 6.90 F - 9.150 F (G, G 90-series) 10/79->9/93,
Mitsubishi, VW and buses**

Black plastic mirror head.
Mirror head: 320 x 186 mm.
Mirror glass: 312.5 x 180 mm.
Radius of curvature: 2200 mm.
Mounted on 16/18 mm dia. arm.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 560 991-012	1	External mirror
8SB 560 991-041	1	heated, 24V
9EY 117 125-001	1	Spare parts/Accessories: Mirror glass for -012
9MX 561 044-002	1	with heating element for -041
8KA 560 271-002	1	Connecting cable with 2-pole plug, 2000 mm long



**MAN 11.136 - 38.320 10/75->,
Mercedes-Benz, Faun, Iveco, Krupp, Liebherr,
Mitsubishi, ÖAF, Sisu, Saurer, Volvo and Zettelmeyer**

Black plastic mirror head.
Mirror head: 382 x 187 mm.
Mirror glass: 364 x 175 mm.
Radius of curvature: 2100 mm.
Mounted on 14/18 mm dia. arm.

Complies with the EU Directive 2003/97

Part no.	Pk.	
8SB 003 290-001	1	External mirror
9EY 120 010-001	5	Spare parts: Mirror glass

Neoplan, Iveco, Liebherr and Vetter

Adapted, can also be used for same commercial vehicles as mirror 8SB 003 290-001.
Black plastic mirror head.
Mirror head: 382 x 187 mm.
Mirror glass: 364 x 175 mm.
Radius of curvature: 2100 mm.
Mounted on 16/18 mm dia. arm.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 003 290-011	1	External mirror, heated, 24V
9MX 560 096-002	5	Spare parts/Accessories: Mirror glass with heating element
8KA 560 271-002	1	Connecting cable with 2-pole plug, 2000 mm long



MAN G, G 90-series and all trucks over 7.5 t

Black plastic mirror head.
 Mirror head: 247 x 157 mm.
 Mirror glass: 245 x 155 mm.
 Radius of curvature: 450 mm.
 With universal bracket for passenger door pillar.

Part no.	Pk.	
8SB 501 137-031	1	Approach mirror
8SB 501 137-001	1	Spare parts: Mirror head



MAN M 90 and F 90-series 8/88->9/94

Black plastic mirror head.
 Mirror head: 211 x 161 mm.
 Mirror glass: 200 x 150 mm.
 Radius of curvature: 450 mm.

Part no.	Pk.	
8SB 501 147-021	1	Wide-angle mirror mounted on 16/22 mm dia. arm
8SB 501 147-031	1	heated, 24V
9EY 561 814-001	1	Spare parts/Accessories: Mirror glass for -021
9MX 561 890-001	1	Mirror glass with heating element for -031
8KA 500 218-002	1	Connecting cable with 2-pole plug, 1500 mm long

Mitsubishi

Black plastic mirror head.
 Mirror head: 211 x 161 mm.
 Mirror glass: 200 x 150 mm.
 Radius of curvature: 450 mm.

Part no.	Pk.	
8SB 501 147-003	1	Wide-angle mirror mounted on 18/22 mm dia. arm
9EY 561 814-001	1	Spare parts: Mirror glass

External mirrors

Iveco



Iveco, MAN, Mercedes-Benz, Neoplan, Bova, Den Oudsten, Hainje, Hino, Steyr and Van Hool

Black plastic mirror head.
 Mirror head: 367 x 182 mm.
 Mirror glass: 355.5 x 169.5 mm.
 Mounted on 18/22 mm dia. arm.

Complies with the EU Directive 2003/97

Part no.	Pk.	
8SB 003 978-001	1	External mirror, radius of curvature: 2100 mm, without fixing material
9EY 125 314-001	1	Spare parts/Accessories: Mirror glass
8HS 562 691-002	1	Fixing material for mirror arm 18/22 mm dia.

Iveco, MAN, Mercedes-Benz, Neoplan, Bova, Den Oudsten, Hainje, Jonckheere, AG, Steyr and Van Hool

Black plastic mirror head.
 Mirror head: 367 x 182 mm.
 Mirror glass: 355.5 x 169.5 mm.
 Radius of curvature: 2200 mm.
 Mounted on 18 mm dia. arm.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 003 978-041	1	External mirror without fixing material, 24V
9MX 127 585-002	1	Spare parts/Accessories: Mirror glass with heating element
8KA 003 806-001	1	Connecting cable with 2-pole plug, 2000 mm long
8HS 562 691-002	1	Fixing clamp for 18/22 mm dia. arm



Iveco, MAN, Mercedes-Benz, Faun, Krupp, Liebherr, Mitsubishi, ÖAF, Sisu, Saurer, Volvo and Zettelmeyer

Black plastic mirror head.
 Mirror head: 382 x 187 mm.
 Mirror glass: 364 x 175 mm.
 Radius of curvature: 2100 mm.
 Mounted on 14/18 mm dia. arm.

Complies with the EU Directive 2003/97

Part no.	Pk.	
8SB 003 290-001	1	External mirror
9EY 120 010-001	5	Spare parts: Mirror glass

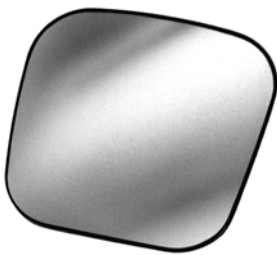
Iveco, Neoplan, Liebherr and Vetter

Adapted, can also be used for same commercial vehicles as mirror 8SB 003 290-001.
 Black plastic mirror head.
 Mirror head: 382 x 187 mm.
 Mirror glass: 364 x 175 mm.
 Radius of curvature: 2100 mm.
 Mounted on 16/18 mm dia. arm.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 003 290-011	1	External mirror, heated, 24V
9MX 560 096-002	5	Spare parts/Accessories: Mirror glass with heating element
8KA 560 271-002	1	Connecting cable with 2-pole plug, 2000 mm long



**Iveco EuroCargo 9/00->3/06,
 EuroStar 1/93->2/02,
 EuroTech 1/92->3/06,
 EuroTrakker 1/93->11/04,
 Stralis 2/02->3/06**

Mirror glass: 200 x 175 mm.
 Radius of curvature: 300 mm.

Complies with the EU Directive 2003/97 and 2003/38



Part no.	Pk.	
9MX 564 253-001	1	Mirror glass for wide-angle mirror, heated, 24V, left and right

External Mirrors

Scania



Scania

Black plastic mirror head.
 Mirror head: 367 x 182 mm.
 Mirror glass: 355.5 x 169.5 mm.
 Mounted on 18/22 mm dia. arm.

Complies with the EU Directive 2003/97

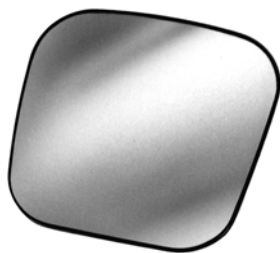
Part no.	Pk.	
8SB 003 978-001	1	External mirror, radius of curvature: 2100 mm, without fixing material
8SB 003 978-041	1	External mirror, radius of curvature: 2200 mm, without fixing material, heated, 24V
9EY 125 314-001	1	Spare parts/Accessories: Mirror glass for -001 Mirror glass with heating element for -041
9MX 127 585-002	1	
8KA 003 806-001	1	Connecting cable with 2-pole plug, 2000 mm long
8HS 562 691-002	1	Fixing clamp for 18/22 mm dia. arm



Scania 124/144 (400-series) 96->

Mirror glass: 431 x 201 mm.
 Radius of curvature: 2000 mm.

Part no.	Pk.	
9MX 564 242-001	1	Mirror glass for main mirror, left and right
9MX 564 243-001	1	heated, 24V, left and right



Mirror glass: 186 x 163 mm.
 Radius of curvature: 400 mm.

Part no.	Pk.	
9MX 564 244-001	1	Mirror glass for wide-angle mirror, heated, 24V, left and right



Volvo

Black plastic mirror head.
 Mirror head: 367 x 182 mm.
 Mirror glass: 355.5 x 169.5 mm.
 Mounted on 18/22 mm dia. arm.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 003 978-001	1	External mirror, radius of curvature: 2100 mm, without fixing material
8SB 003 978-041	1	External mirror, radius of curvature: 2200 mm, without fixing material, heated, 24V
Spare parts/Accessories:		
9EY 125 314-001	1	Mirror glass for -001
9MX 127 585-002	1	Mirror glass with heating element for -041
8KA 003 806-001	1	Connecting cable with 2-pole plug, 2000 mm long
8HS 562 691-002	1	Fixing clamp for 18/22 mm dia. arm

Volvo FH-series 08/93->12/01, FM-series 08/98->12/01

Black plastic mirror head.
 Mirror head: 469 x 440 mm.
 Mirror glass: 433 x 198 mm.
 Radius of curvature: 2000 mm.
 Mirror arm integrated.



Part no.	Pk.	
8SB 354 506-801	1	External mirror set incl. mirror arm, electrical adjustable, heated, 24V, left
8SB 354 506-811	1	right
Spare parts/Accessories:		
9MX 564 215-012	1	Mirror glass, heated, 24V
8HG 863 841-001	1	Mirror arm, left
8HG 863 842-001	1	right
9MN 863 849-001	1	Motor for mirrorsystem

External Mirrors

DAF - Volkswagen



DAF CF, XF

Black plastic mirror head.
 Mirror head: 384 x 205 mm.
 Mirror glass: 368 x 189 mm.
 Radius of curvature: 2000 mm.
 Mounted on 22 - 28 mm dia. arm.



Part no.	Pk.	
8SB 354 507-001	1	External mirror electrically adjustable, heated, 24V
Spare parts:		
9MX 863 845-001	1	Mirror glass with heating element, 24V
9HB 863 833-001	1	Cap



Black plastic mirror head.
 Mirror head: 219 x 170 mm.
 Mirror glass: 203 x 154 mm.
 Radius of curvature: 450 mm.
 Mounted on 22 - 28 mm dia. arm.



Part no.	Pk.	
8SB 354 508-001	1	Wide-angle mirror, manually adjustable, heated, 24V
Spare parts:		
9MX 863 846-001	1	Mirror glass with heating element, 24V, Radius of curvature: 450 mm
9MX 564 250-001	1	Mirror head with heating element, 24V. Radius of curvature: 300 mm. For conversion to the EU Directive 2003/97 and 2003/38
9HB 863 834-001	1	Cap



Volkswagen LT, old model

Black plastic mirror head.
 Mirror head: 255 x 165 mm.
 Mirror glass: 245 x 156 mm.
 Radius of curvature: 2200 mm.
 Mounted on 18/22 mm dia. arm.



Part no.	Pk.	
8SB 501 045-002	1	External mirror without fixing material
8SB 501 045-012	1	heated, 12V

Volkswagen bus, van, T4 Transporter 09/90 ->

Black plastic mirror head.
 Mirror head: 230 x 180 mm.
 Mirror glass: 197 x 157 mm.
 Radius of curvature (glass convex): 1400 mm.
 Mounted to integrated bracket.



Part no.	Pk.	
8SB 507 047-001	1	External mirror, flat glass, left
8SB 507 047-011	1	convex glas, left
8SB 507 048-001	1	convex glass, right
Spare parts:		
9MX 564 240-001	1	Mirror glass, flat, left
9MX 564 240-011	1	convex, left
9MX 564 241-001	1	convex, right

Volkswagen T4 Transporter Platform truck 09/90 ->

Convex mirrorglass: 267 x 175 mm.



Part no.	Pk.	
9EY 562 033-003	1	Mirror glass

External Mirrors

Volkswagen



Volkswagen T2 Transporter

Grey, steel mirror head with
Durocoat finish.
Mirror head: 192 x 124 mm.
Mirror glass: 185 x 118 mm.
Radius of curvature: 1400 mm.
Mounted on 10/12 mm dia. arm.

Without approval



Part no.	Pk.	
8SB 002 407-001	1	Secured by means of fixing clamp with reducing sleeve. External mirror
8SB 002 407-011	1	Secured by means of ball support with reducing sleeve. External mirror

E.g. for MAN, Neoplan and Scania



Black plastic mirror head and arm.
 Driving mirror electrically adjustable.
 Front end observation mirror and door observation mirror manually adjustable.

Radius of curvature:
 Driving mirror: 2100 mm.
 Front end observation mirror: 240 mm.
 Door observation mirror: 240 mm.

Complies with the EU Directive 2003/97

Part no.	Pk.	
		External mirror with front end observation - and door observation mirror, heated, 24V, (RH traffic), right
8SB 501 311-842	1	
8SB 501 311-812	1	without door observation mirror, heated, 24V, right
		Spare parts:
9BG 562 812-002	1	Housing upper support
9BG 562 814-002	1	Housing bottom support
9MX 562 841-002	1	Mirror glass carrier for main mirror
9GH 562 803-002	1	Bellows
9HB 563 317-052	1	Arm cover assembly
9HD 562 802-012	1	Cap
9XD 563 637-012	1	Holder assembly
8HS 563 390-002	1	Fastening hardware assembly for holder
9BP 563 482-002	1	Support holder assembly
9SV 562 840-003	1	Cover mounting assembly
6GM 500 212-002	1	Double switch, 24V
8JA 500 431-002	1	Collective plug for double switch
9MN 562 843-022	1	Adjustment drive, 24V



**For buses and mobile homes
e.g. for MAN, Neoplan, Jetliner,
Transliner, Drögmöller E 320/330/470,
Bova Futura, Kovex, Irizar, Berghof,
Ernst Auwärter, Van Hool**

Black plastic mirror head and arm.
Driving mirror electrically adjustable.
Wide-angle mirror and door observation mirror manually adjustable.
Driving mirror: 375 x 165 mm. Wide-angle mirror: 145 x 170 mm.
Radius of curvature:
Driving mirror: 2100 mm.
Wide-angle mirror: 450 mm.
Door observation mirror: 240 mm.
Fastened to dovetail.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 501 246-822	1	External mirror heated, 24V, (RH traffic), left
8SB 501 246-812	1	
8SB 501 246-834	1	External mirror with wide-angle mirror, heated, 24V, (RH traffic), left
8SB 501 246-803	1	
8SB 501 246-892	1	External mirror with wide-angle - and door observation mirror, heated, 24V, right with wide-angle - and observation mirror, heated, 24V, right
8SB 501 246-431	1	
9BG 562 812-002	1	Spare parts:
9BG 562 813-002	1	
9BG 562 814-002	1	
9MX 562 841-002	1	
9MX 562 846-002	1	
8SB 501 346-032	1	
9GH 562 803-002	1	
9HB 562 824-022	1	
9HD 562 802-012	1	
9XD 562 800-052	1	
9XD 563 637-012	1	
8HS 563 390-002	1	
9BP 563 482-002	1	
9SV 562 840-003	1	
6GM 500 212-002	1	
8JA 500 431-002	1	
8KB 500 299-251	1	
9SV 562 829-002	1	
9MN 562 843-022	1	
9MN 562 843-002	1	

Coaches and overland buses e.g. for Berkhof, MAN, Neoplan and Van Hool

Black plastic mirror head and arm.
Driving mirror electrically adjustable.
Wide-angle mirror manually adjustable.
Driving mirror: 375 x 165 mm.
Wide-angle mirror: 145 x 170 mm.
Radius of curvature:
Driving mirror: 2100 mm.
Wide-angle mirror: 450 mm.
Fastened to dovetail.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 501 247-812	1	External mirror, heated, 24V, pendant mounting, (RH traffic), right
8SB 501 247-822	1	External mirror with wide-angle mirror, heated, 24V, pendant mounting, (RH traffic), left
8SB 501 247-792	1	right
Spare parts:		
9BG 562 812-002	1	Housing upper support
9BG 562 813-002	1	Housing centre section
9BG 562 814-002	1	Housing bottom support
9MX 562 841-012	1	Mirror glass carrier for main mirror, 12V
9MX 562 841-002	1	Mirror glass carrier for main mirror 24V
9MX 562 846-002	1	Spiegelglasträger für Weitwinkelspiegel, 24V
9GH 562 803-002	1	Bellows
8HG 562 851-012	1	Mirror arm assembly
9HB 562 824-022	1	Arm cover assembly
9HD 562 802-012	1	Cap
9SV 562 840-003	1	Cover mounting assembly
6GM 500 212-012	1	Double switch, 12V
6GM 500 212-002	1	24V
8JA 500 431-002	1	Collective plug for double switch
9SV 562 829-002	1	TIP-TAP adjusting device for -742/-752/-792/-822





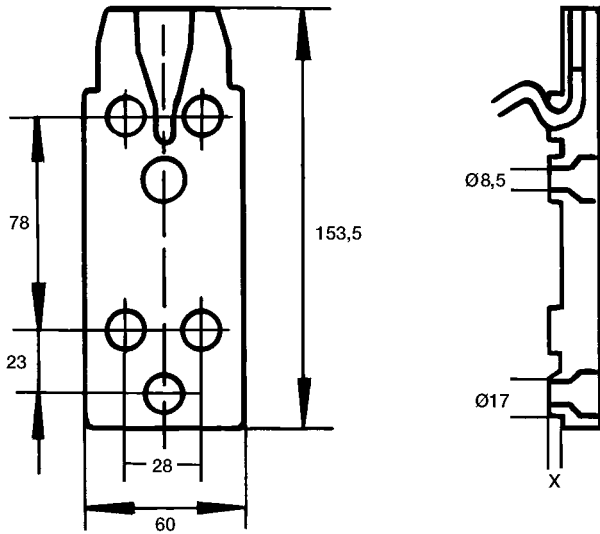
**Coaches and overland buses
e.g. for Berkhof, EvoBus (Setra), Neoplan and Van Hool**

Black plastic mirror head and arm.
Driving mirror electrically adjustable.
Driving mirror: 375 x 165 mm.
Wide-angle mirror: 145 x 170 mm.
Radius of curvature:
Driving mirror: 2100 mm.
Wide-angle mirror: 450 mm.
Fastened to dovetail.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 501 247-895	1	External mirror, heated, 12V, upright mounting, (RH traffic), left
8SB 501 247-905	1	right
8SB 501 247-803	1	External mirror, heated, 24V, upright mounting, (RH traffic), left
8SB 501 247-842	1	right
Spare parts:		
9BG 562 812-002	1	Housing upper support
9BG 562 813-002	1	Housing centre section
9BG 562 814-002	1	Housing bottom support
		Mirror glass carrier for main mirror
9MX 562 841-012	1	12V
9MX 562 841-002	1	24V
9GH 562 803-002	1	Bellows
8HG 562 851-002	1	Mirror arm assembly
9HB 562 837-022	1	Arm cover assembly
9HD 562 802-012	1	Cap
9SV 562 840-003	1	Cover mounting assembly
		Double switch,
6GM 500 212-012	1	12V
6GM 500 212-002	1	24V
8JA 500 431-002	1	Collective plug for double switch
		TIP-TAP adjusting device
9SV 562 829-002	1	for -742/-752/-792/-822



Base plates

Base plate for mounting bus mirror on body, black, 7-pole.

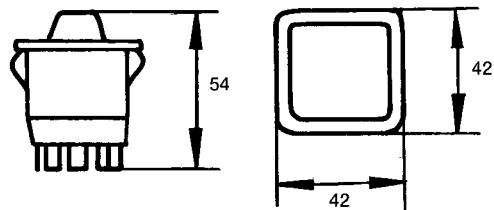
Part no.	Pk.	Height X	Wire length
9BP 501 237-002	1	5 mm	2500 mm
9BP 501 237-012	1	5 mm	5500 mm
9BP 501 238-002	1	0 mm	2500 mm
9BP 501 238-012	1	5 mm	4000 mm
9BP 501 238-022	1	0 mm	5500 mm
<hr/>			
9BP 561 006-012	1	Base plate, without cable	
9BP 561 138-052	1	Base plate with cable, 2-pole, 2000 mm long	
9BP 561 138-013	1	Base plate with cable, 2-pole, 1500 mm long	



Holder set

For complete replacement of holder.
Suitable for mirrors
8SB 501 246-..., 8SB 501 311-...,
8SB 501 420-... and 8SB 501 602-...

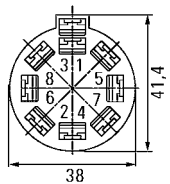
Part no.	Pk.	
9XD 563 637-012	1	Holder set



Double switches

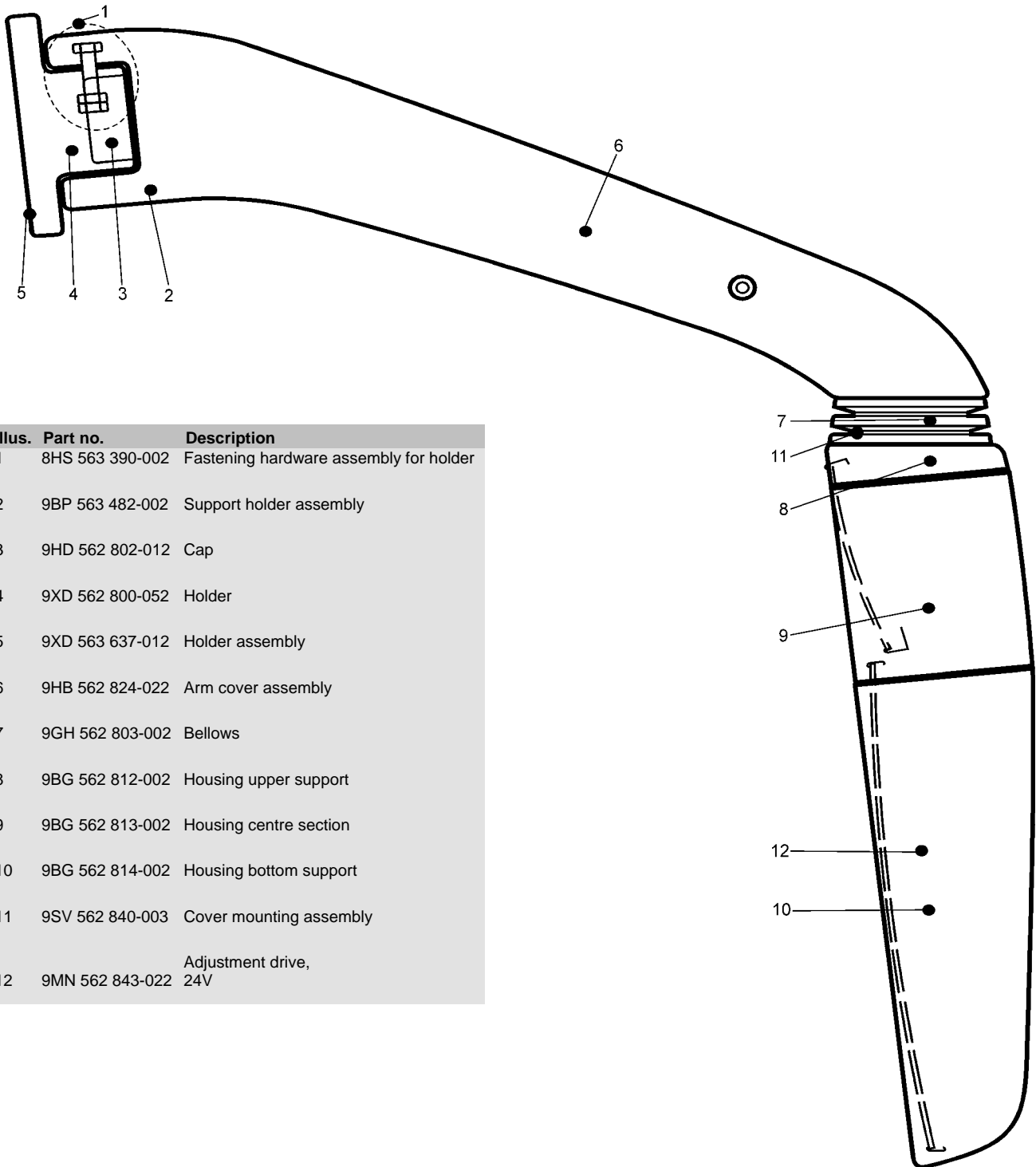
With control lamp for two-mirror operation.

Part no.	Pk.	
6GM 500 212-012	1	Double switch, 12V
6GM 500 212-002	1	Double switch, 24V

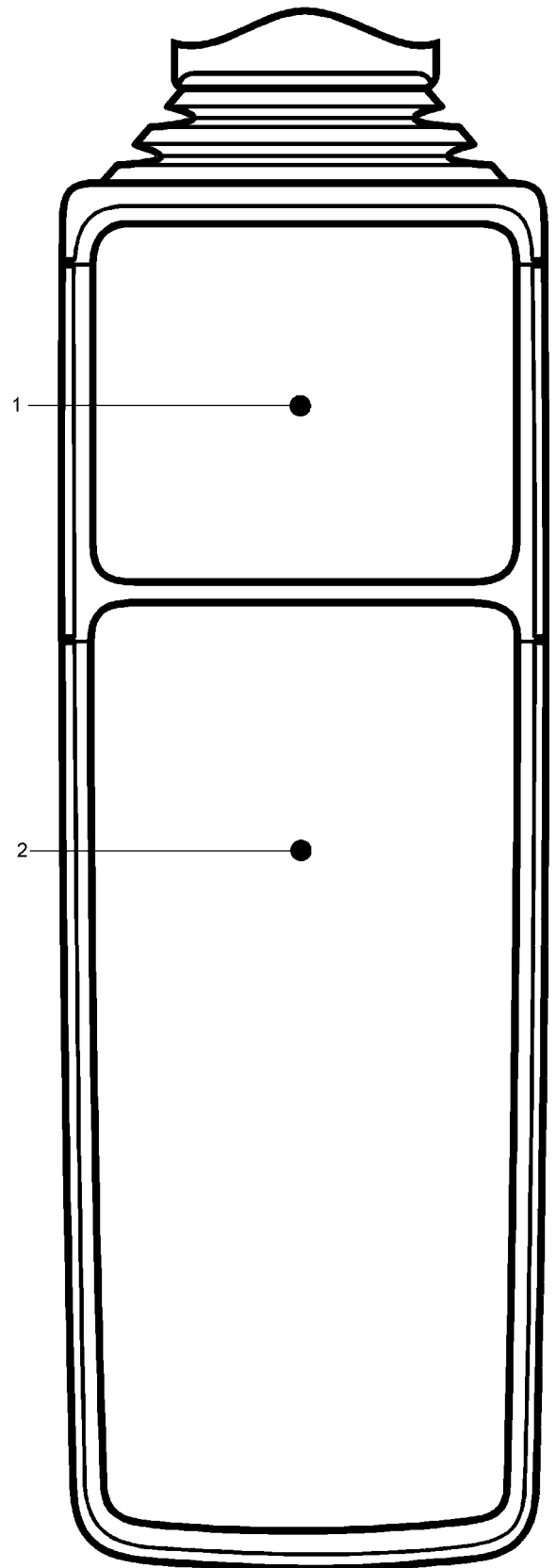


Common plug

Part no.	Pk.	
8JA 500 431-002	1	Common plug, 7-pole

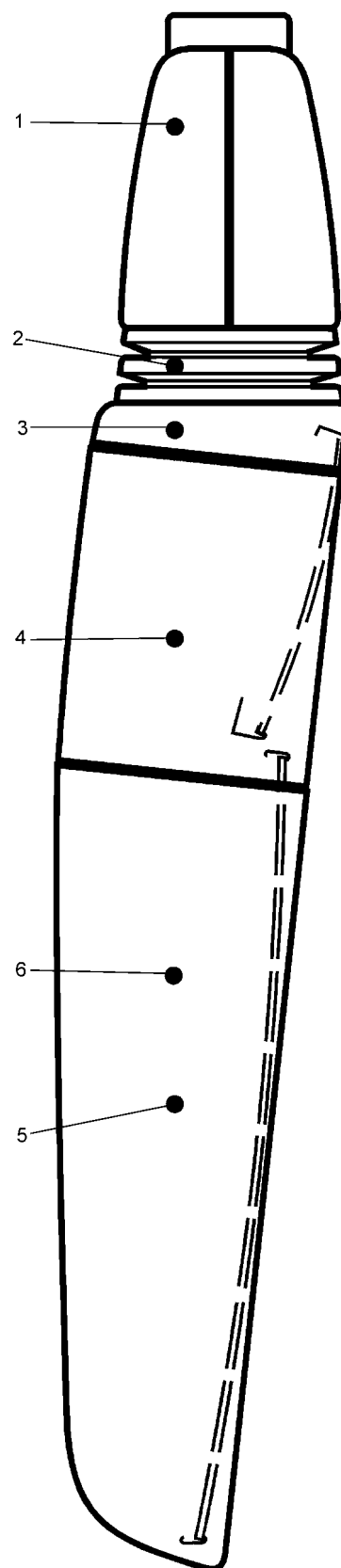


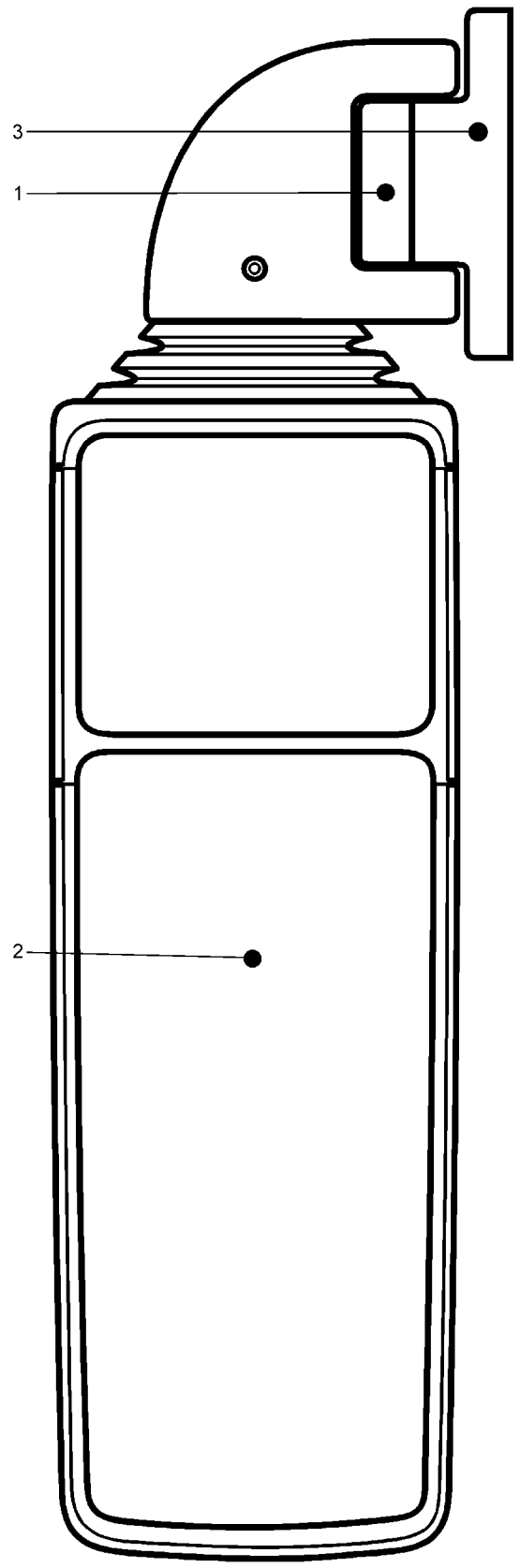
Illus.	Part no.	Description
1	8HS 563 390-002	Fastening hardware assembly for holder
2	9BP 563 482-002	Support holder assembly
3	9HD 562 802-012	Cap
4	9XD 562 800-052	Holder
5	9XD 563 637-012	Holder assembly
6	9HB 562 824-022	Arm cover assembly
7	9GH 562 803-002	Bellows
8	9BG 562 812-002	Housing upper support
9	9BG 562 813-002	Housing centre section
10	9BG 562 814-002	Housing bottom support
11	9SV 562 840-003	Cover mounting assembly
12	9MN 562 843-022	Adjustment drive, 24V



Illus.	Part no.	Description
1	9MX 562 846-002	Mirror glass carrier assembly for wide-angle mirror
2	9MX 562 841-002	Mirror glass carrier assembly for main mirror

Illus.	Part no.	Description
		Arm cover assembly (2 half shells)
1	9HB 562 837-022	Arm cover assembly (2 half shells)
2	9GH 562 803-002	Bellows
3	9BG 562 812-002	Housing upper support
4	9BG 562 813-002	Housing centre section
5	9BG 562 814-002	Housing bottom support





Illus.	Part no.	Description
1	9HD 562 802-012	Cap
2	9MX 562 841-002	Mirror glass assembly for main mirror
3	8HG 562 851-002	Mirror arm assembly upright
3	8HG 562 851-012	pendant



EvoBus (Mercedes-Benz) Citaro, EvoBus (Setra) Combibus

Black/grey plastic mirror head.
Mirror head: 479 x 210 mm.
Mirror glass: 400 x 165 mm.
Radius of curvature: 1800 mm.

Complies with the EU Directive 2003/97



Part no.	Pk.	
8SB 501 401-802	1	External mirror, left, heated, 24V, electrically adjustable
8SB 501 401-822	1	manually adjustable
Spare parts/Accessories:		
9MX 564 305-002	1	Mirror glass carrier
9MN 562 843-002	1	Electrical adjustment drive
9MN 562 844-032	1	Manual adjustment drive
9HD 564 316-002	1	Cap, grey
9XD 564 323-002	1	Folding hinge



Black/grey plastic mirror head and arm.
Driving mirror: 340 x 175 mm.
Wide-angle mirror: 188 x 134 mm.

Complies with the EU Directive 2003/97



Part no.	Pk.	
EvoBus (Mercedes-Benz) Citaro		
8SB 501 402-802	1	External mirror (length of arm: 687 mm) with multifunction mirror (wide angle/door observation), right, heated, 24V, electrically adjustable
8SB 501 402-822	1	manually adjustable
EvoBus (Setra) Combibus		
8SB 501 403-802	1	External mirror (length of arm: 633 mm) with multifunction mirror (wide angle/door observation), right, heated, 24V, electrically adjustable
8SB 501 403-822	1	manually adjustable
Spare parts:		
9MX 564 356-002	1	Mirror glass carrier for main mirror
9MX 564 357-002	1	Mirror glass carrier for multifunction mirror
9HB 564 363-002	1	Arm cover assembly above
9HB 564 364-002	1	Arm cover assembly below
9XD 564 376-002	1	Mirror base for 501 402-...
9HB 564 365-002	1	Trim for mirror base for 501 402-...
9XD 564 384-002	1	Mirror base for 501 403-...
9HB 564 381-002	1	Trim for mirror base for 501 403-...
9BP 564 386-002	1	Support holder assembly
9GD 564 362-002	1	Trim
9BG 564 360-002	1	Housing
9HD 564 383-002	1	Cap, grey
9SV 562 829-002	1	TIP-TAP adjusting device for wide-angle mirror, for 8SB 501 402-802/-822 and 8SB 501 403-802/-822
9MN 562 843-002	1	Adjustment drive, electrically
9MN 562 844-032	1	manually

Bus mirror with extremely large viewing angle

Black plastic mirror head.
 Mirror head: 205 x 125 mm.
 Mirror glass: 205 x 118 mm.
 Radius of curvature: 240 mm.
 Mounted on 18/22 mm dia. arm,
 incl. holder, fastening hardware and cable.

Without approval



Part no.	Pk.	
8SB 501 511-802	1	Bus mirror set, heated, 24V

Black plastic mirror head.
 Mirror head: 205 x 125 mm.
 Mirror glass: 205 x 118 mm.
 Radius of curvature: 240 mm.
 Mounted on 18/22 mm dia. arm,
 incl. fastening hardware.

Without approval



Part no.	Pk.	
8SB 501 346-022	1	Bus mirror
8SB 501 346-032	1	heated, 24V, with cable
8KA 500 218-002	1	Spare parts/Accessories: Connecting cable with 2-pole plug and free cable end, 1150 mm long



Universal

Grey, steel mirror head with Durocoat finish.
 Mirror head: 270 x 155 mm
 Mirror glass: 257 x 143 mm.
 Radius of curvature: 1400 mm.

Without approval

Part no.	Pk.	
8SB 002 405-001	1	External mirror, mounted on 10/12 mm dia. arm
8SB 002 405-011	1	mounted on 15/18 mm dia. arm
9EY 111 231-001	1	Spare parts: Mirror glass



Grey, steel mirror head with Durocoat finish.
 Mirror head: 420 x 220 mm.
 Mirror glass: 410 x 210 mm.
 Radius of curvature: 1400 mm.
 Mounted on 18 mm dia. arm.

Without approval

Part no.	Pk.	
8SB 002 990-001	1	External mirror,
9EY 117 124-001	1	Spare parts: Mirror glass



External Mirrors for Agricultural and Construction Machinery

Et al. for Deutz-Fahr, Fendt und Steyr



Steel mirror head with Durocoat finish.
 Mirror head: 300 x 210 mm.
 Mirror glass: 290 x 200 mm.
 Radius of curvature: 1400 mm.
 Mounted on 18 mm dia. arm.

Part no.	Pk.	
8SB 002 991-001	1	External mirror, grey
8SB 002 991-081	1	black
9EY 117 126-001	1	Spare parts: Mirror glass

Universal



Black plastic mirror head.
 Mirror head: 316 x 230 mm.
 Mirror glass: 302 x 215 mm.
 Radius of curvature: 2200 mm.
 Secured by fixing clamp.
 Mounted on 22 mm dia. arm, with reducing sleeve on 18 mm dia. arm.

Complies with the EU Directive 2003/97.

Part no.	Pk.	
8SB 501 263-003	1	External mirror with fixing clamp
8SB 501 263-014	1	without fixing clamp
8SB 501 263-052	1	heated, 12V
9EY 117 126-014	1	Spare parts: Mirror glass for -003
8HS 562 691-002	1	Fixing clamp for 18/22 mm dia. arm





Universal

Black plastic mirror head.
 Mirror head: 434 x 227 mm.
 Mirror glass: 423 x 216 mm.
 Radius of curvature: 2100 mm.
 Mirror electrically adjustable, horizontally and vertically.
 Mounted on 18/22 mm dia. arm.
 Connecting cable and switch are not supplied.



Part no.	Pk.	
8SB 501 190-082	1	External mirror, electrically adjustable, heated, 24V
Spare parts/Accessories:		
9MX 562 159-023	1	Mirror glass with heating element
8KA 562 423-002	1	Connecting cable with single switch
8KA 562 422-002	1	with double switch



Black plastic mirror head.
 Mirror head: 376 x 197 mm.
 Mirror glass: 366 x 187 mm.
 Radius of curvature: 2100 mm.
 Mirror electrically adjustable, horizontally and vertically.
 Mounted on 18/22 mm dia. arm.
 Connecting cable and switch are not supplied.



Part no.	Pk.	
8SB 501 191-202	1	External mirror, electrically adjustable, heated, 24V
Spare parts/Accessories:		
9MX 562 159-013	1	Mirror glass with heating element
8KA 562 423-002	1	Connecting cable with single switch
8KA 562 422-002	1	with double switch



Black plastic mirror head.
 Mirror head: 310 x 225 mm.
 Mirror glass: 299 x 215 mm.
 Radius of curvature: 2100 mm.
 Mirror electrically adjustable, horizontally and vertically.
 Mounted on 18/22 mm dia. arm.
 Connecting cable and switch are not supplied.



Part no.	Pk.	
8SB 501 192-002	1	External mirror, electrically adjustable, heated, 24V
Spare parts/Accessories:		
9MX 562 159-052	1	Mirror glass with heating element
8KA 562 423-002	1	Connecting cable with single switch
8KA 562 422-002	1	with double switch



Universal

Black plastic mirror head.
 Mirror head: 376 x 187 mm.
 Mirror glass: 364 x 175 mm.
 Radius of curvature: 2000 mm.
 Mounted on 16/20 mm dia. arm.

Part no.	Pk.	
8SB 507 041-011	1	External mirror
		Spare parts:
9EY 120 010-001	1	Mirror glass



Black plastic mirror head.
 Mirror head: 244 x 157 mm.
 Mirror glass: 236 x 146 mm.
 Radius of curvature: 2100 mm.
 Mounted on 18 mm dia. arm.

Part no.	Pk.	
8SB 004 288-092	1	External mirror



Black plastic mirror head.
 Mirror head: 247 x 157 mm.
 Mirror glass: 245 x 155 mm.
 Radius of curvature: 450 mm.
 With universal bracket for passenger door pillar.

Part no.	Pk.	
8SB 501 137-082	1	Approach mirror
		Spare parts:
8SB 501 137-001	1	Mirror head



Universal

Grey, steel mirror head with Durocoat finish.
 Mirror head: 270 x 155 mm
 Mirror glass: 265 x 149 mm.
 Radius of curvature: 1400 mm.

Without approval

Part no.	Pk.	
8SB 002 405-001	1	External mirror mounted on 10/12 mm dia. arm
8SB 002 405-011	1	mounted on 15/18 mm dia. arm
9EY 111 231-001	1	Spare parts: Mirror glass



Grey, steel mirror head with Durocoat finish.
 Mirror head: 420 x 220 mm.
 Mirror glass: 410 x 210 mm.
 Radius of curvature: 1400 mm.
 Mounted on 18 mm dia. arm.

Without approval

Part no.	Pk.	
8SB 002 990-001	1	External mirror
9EY 117 124-001	1	Spare parts: Mirror glass



Steel mirror head with Durocoat finish.
 Mirror head: 300 x 210 mm.
 Mirror glass: 290 x 200 mm.
 Radius of curvature: 1400 mm.
 Mounted on 18 mm dia. arm.

Part no.	Pk.	
8SB 002 991-001	1	External mirror grey
8SB 002 991-081	1	black
9EY 117 126-001	1	Spare parts: Mirror glass



Universal

Black, steel mirror head.
 Mirror head: 280 x 200 mm.
 Mirror glass: 272 x 193 mm.
 Radius of curvature: 2100 mm.
 Mounted on 12 mm dia. arm.

Part no.	Pk.	
8SB 501 047-011	1	External mirror
9EY 117 126-014	1	Spare parts: Mirror glass



Black plastic mirror head.
 Mirror head: 316 x 230 mm.
 Mirror glass: 302 x 215 mm.
 Radius of curvature: 2200 mm.
 Secured by fixing clamp.
 Mounted on 22 mm dia. arm, with reducing sleeve on 18 mm dia. arm.
Complies with the EU Directive 2003/97

Part no.	Pk.	
8SB 501 263-003	1	External mirror with fixing clamp
8SB 501 263-014	1	without fixing clamp
9EY 117 126-014	1	Spare parts/Accessories: Mirror glass for -003
8HS 562 691-002	1	Fixing clamp for 18/22 mm dia. arm



Steel mirror head with black Durocoat finish.
 Mirror head: 265 x 160 mm.
 Mirror glass: 260 x 156 mm.
 Radius of curvature: 1400 mm.
 Mounted on 10 mm dia. arm.

Part no.	Pk.	
8SB 002 994-001	1	External mirror
9EY 117 127-001	2	Spare parts: Mirror glass



Universal

Grey, steel mirror head with Durocoat finish.
 Mirror head: 270 x 155 mm.
 Mirror glass: 265 x 149 mm.
 Radius of curvature: 1400 mm.
 Mounted on 15/18 mm dia. arm.

Without approval

Part no.	Pk.	
8SB 002 992-001	1	External mirror
9EY 111 231-001	1	Spare parts: Mirror glass



Steel mirror head with Durocoat finish.
 Mirror head: 186 x 131 mm.
 Mirror glass: 180 x 125 mm.
 Radius of curvature: 1400 mm.
 Mounted on 10 mm dia. arm.

Without approval

Part no.	Pk.	
8SB 002 997-001	1	External mirror, grey
8SB 002 997-103	1	black
9EY 117 129-001	1	Spare parts: Mirror glass



Black, plastic mirror head.
 Mirror head: 210 x 165 mm.
 Mirror glass: 202 x 160 mm.
 Radius of curvature: 1400 mm.
 Mounted on 10/12 mm dia. arm.

Without approval

Part no.	Pk.	
8SB 002 404-121	1	Secured by means of fixing clamp with reducing sleeve External mirror



Universal

Grey, plastic mirror head.
 Mirror head: 210 x 165 mm.
 Mirror glass: 202 x 160 mm.
 Radius of curvature: 1400 mm.
 Secured by means of ball support with reducing sleeve
 for 12/10 mm dia. arm.

Without approval

Part no.	Pk.	
8SB 002 404-131	1	External mirror
9EY 111 230-001	4	Spare parts: Mirror glass



For small delivery vans and tractors

Grey plastic mirror head.
 Mirror head: 127 mm dia.
 Mirror glass: 121 mm dia.
 Mounted on 10/12 mm dia. arm..

Without approval

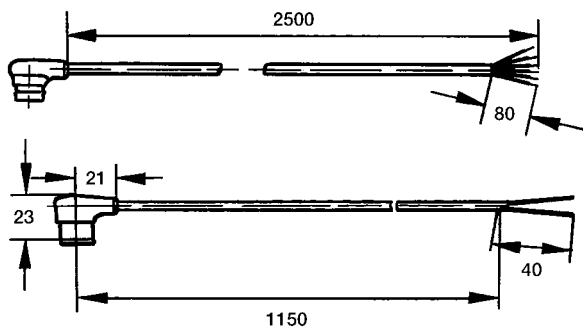
Part no.	Pk.	
8SB 002 406-001	1	External mirror



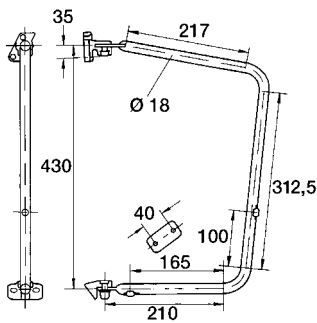
Grey, steel mirror head with Durocoat finish.
 Mirror head: 155 mm dia.
 Mirror glass: 141 mm dia.
 Radius if curvature: 1400 mm.
 Mounted on 10/12 mm dia. arm.

Without approval

Part no.	Pk.	
8SB 003 212-001	1	External mirror



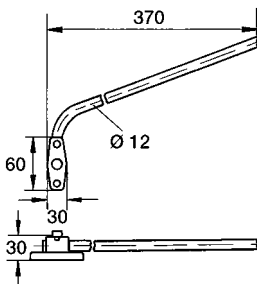
Part no.	Pk.	
8KA 562 671-002	1	Connecting cable, 2500 mm long, with 6-pole round plug
8KA 500 218-002	1	Connecting cable, 1150 mm long, with 2-pole angular plug



Mitsubishi

Diameter of mirror arm: 18 mm.

Part no.	Pk.	
8HG 003 323-032	1	Mirror arm, black, left

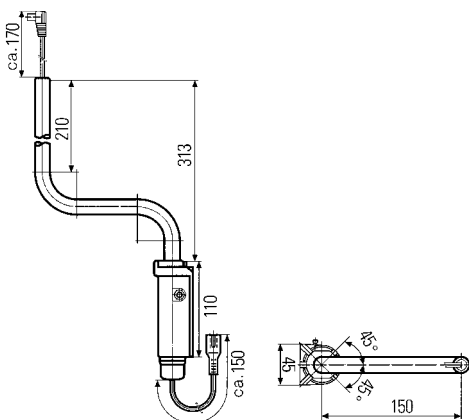


Universal

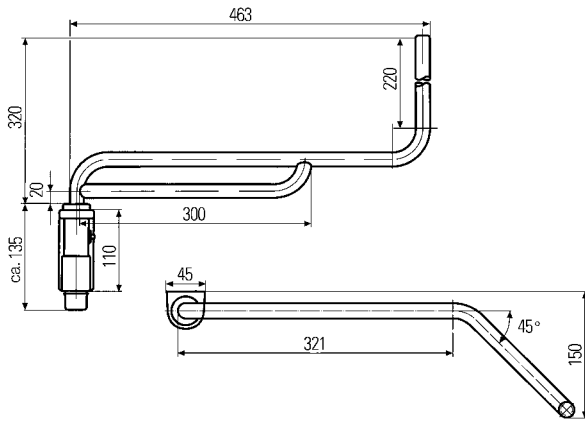
Galvanized tubular steel arm.
Grey cast iron mount with silver colour enamel finish.
Secured with 2 M6 screws
on left or right side of vehicle.
Distance between screws: 43 mm.
Diameter of mirror arm: 12 mm.

Part no.	Pk.	
8HG 002 211-001	2	Mirror arm

Diameter of mirror arm: 18 mm.



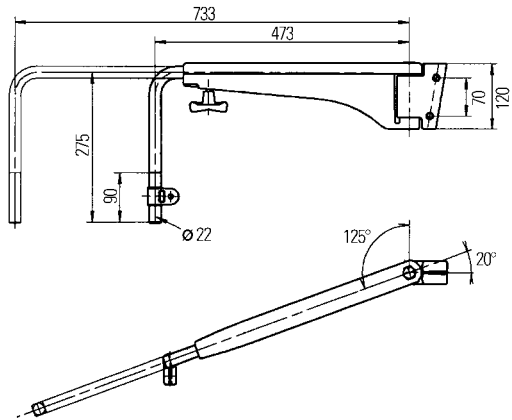
Part no.	Pk.	
8HG 561 107-112	1	Mirror arm, black, with 2-pole cable, left
Accessories:		
9BP 561 138-013	1	Base plate with cable, 2-pole, 1500 mm long
9BP 561 138-052	1	2000 mm long



Universal

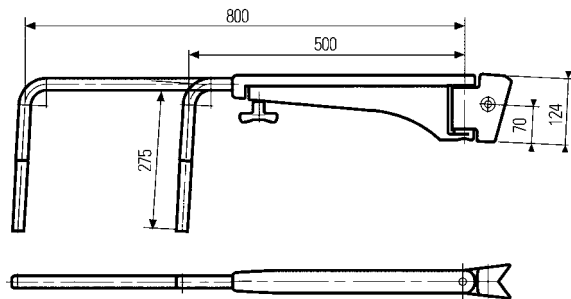
Diameter of mirror arm: 18 mm.

Part no.	Pk.	
8HG 561 108-002	1	Mirror arm, black, right



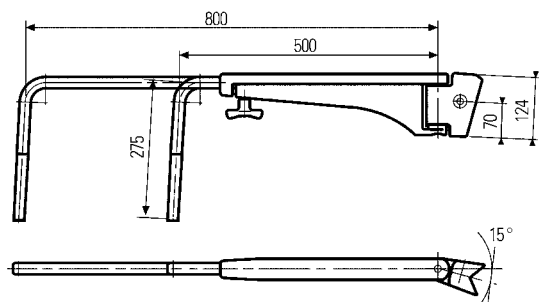
Diameter of mirror arm: 22 mm.

Part no.	Pk.	
8HG 501 253-012	1	Telescopic-mirror arm, black, left
8HG 501 253-022	1	right



Diameter of mirror arm: 22 mm.

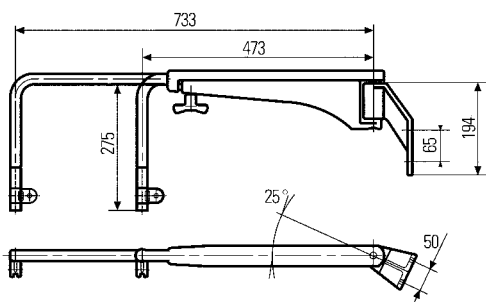
Part no.	Pk.	
8HG 501 257-002	1	Telescopic-mirror arm



Diameter of mirror arm: 22 mm.

Part no.	Pk.	
8HG 501 257-032	1	Telescopic-mirror arm, left
8HG 501 257-042	1	right

Connecting Cables / Mirror Arms Caravan Mirror



Universal

Can be extended from 473 to 733 mm.
Laterally by 25° swivel.
Diameter of mirror arm: 22 mm.

Part no.	Pk.	
8HG 501 266-022	1	Telescopic-mirror arm, black, left
8HG 501 266-032	1	right



Universal

Universal mirror for cars.
Black plastic mirror head.
Mirror with rods for insertion on the top of standard car wing mirrors. Can be mounted on the left or right.
Can be mounted and dismantled easily in no time.
Mirror glass: 148 x 107 mm.

Part no.	Pk.	
8SD 501 201-011	1	Caravan mirror



Product descriptions

7.02

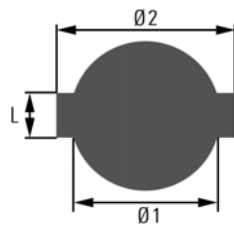
The vehicle application overviews can be found in the Hella Online Catalogue and TecDoc

Filler Caps

Lockable, with 2 keys, without fastening tape.

- 1) with cap against dust and frost
- 2) with valve ventilation
(can be used with ventiled as well as non-ventiled tanks)
- 3) without lock
- 4) metal
- 5) black plastic
- 6) 1-key vehicle-pool version

It is final seller's responsibility to decide wether unventiled filler caps can be used in a particular case.



Part no.	Pk.		Ø 1 mm	Ø 2 mm	L mm	Ventilation	
8XY 004 715-001	1	PT 1	35,5	42,0		with	
8XY 004 716-001	1	PT 2	38,0	44,0		without	
8XY 004 717-001	1	PT 3	38,0	44,0		with	
8XY 004 718-001	1	PT 4	38,0	44,0		without	
8XY 004 719-001	1	PT 5				without	
8XY 004 720-001	1	PT 6	34,0	40,0		with	
8XY 004 721-001	1	PT 7		58,0		without	
8XY 004 723-001	1	PT 9	34,0	41,0		without	
8XY 004 725-001	1	PT 11	34,0	40,0		without	
8XY 004 727-001	1	PT 13	34,0	41,0		without	
8XY 004 727-011	1	PT 13	34,0	41,0		without	1)
8XY 004 729-001	1	PT 15	44,5			with	
8XY 005 067-001	1	PT 20	34,0	40,0		with	
8XY 005 587-001	1	PT 23				without	
8XY 006 369-001	1	PT 26	38,5	44,0		without	
8XY 006 481-001	1	PT 27	44,5			with	
8XY 006 587-001	1	PT 28	44,0	57,5		without	
8XY 006 894-001	1	PT 29	38,0	44,0		without	
8XY 007 021-001	1	PT 30	33,5	40,0		with	2) 3)
8XY 007 022-001	1	PT 31	38,0	44,0		with	2) 3)
8XY 007 103-001	1	PT 34		43,0		without	
8XY 007 102-001	1	PT 35	29,0			without	
8XY 007 101-001	1	PT 36	30,0			without	
8XY 007 526-001	1	PT 40	31,0			without	
8XY 004 729-101	1	PT 43	44,5			with	2) 3)
8XY 006 481-101	1	PT 44	44,5			with	2) 3)
8XY 007 747-001	1	PT 45				without	
8XY 007 746-001	1	PT 46				without	
8XY 008 240-001	1	PT 62		68,0	6,0	with	
8XY 008 530-001	1	PT 63	33,0	45,0		with	
8XY 008 238-011	1	PT 67	39,0	46,0	8,0	with	
8XY 004 734-001	1	LT 1	78,0	115,0		with	4)
8XY 004 734-011	1	LT 1	78,0	115,0		with	5) 6)
8XY 004 735-001	1	LT 2	60,0	85,0		with	4)
8XY 007 023-001	1	LT 3	78,0	115,0		with	3) 5)
8XY 004 735-031	1	LT 4	60,0	95,0		with	3) 5)
8XY 004 735-041	1	LT 5	60,0	95,0		with	5)



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Crimp Terminals

Insulated



Colour of insulation: red
Crimp terminals for 0.5 to 1 sq. mm cables

Colour of insulation: blue
Crimp terminals for 1.5 to 2.5 sq. mm cables
(except 8KW 044 035-003 transparent insulation)

Colour of insulation: yellow
Crimp terminals for 4.0 to 6.0 sq. mm cables

OEM names and numbers were used for identification of the items only.

Illustration	Description	Cable section sq. mm	Description	Colour	Part no.	Pk.	Part no. Pro-fit pack	Pcs. p. Pro-fit pack
	Blade receptacles	0.5 - 1.0	for blade terminals 2.8 x 0.5 mm	red	8KW 705 393-003	100	8KW 705 393-812	10
	Blade receptacles	0.5 - 1.0 1.5 - 2.5	for blade terminals 4.8 x 0.5 mm for blade terminals 4.8 x 0.8 mm	red blue	8KW 705 392-003 8KW 744 697-003 8KW 744 698-003	100 100 100	8KW 705 392-812	10
	Blade receptacles	0.5 - 1.0 1.5 - 2.5 4.0 - 6.0	for blade terminals 6.3 x 0.8 mm	red blue yellow	8KW 044 036-003 8KW 044 036-004 8KW 044 022-003 8KW 044 022-004 8KW 044 023-003 8KW 044 023-004	100 1000*) 100 1000*) 50 1000*)	8KW 044 036-812	15 10 10
	Blade receptacles	max. 3.0	for asymmetrical headlamps, plug width 7.7 x 0.8 mm	blue	8KW 044 024-003	50		
	Blade receptacles	4.0 - 6.0	for regulators and dynamos 9.5 x 1.2 mm	yellow	8KW 700 142-003			
	2-way connectors	0.5 - 1.0 1.5 - 2.5	size of blade terminal 6.3 x 0.8 mm	red blue	8KW 700 143-003 8KW 044 032-003 8KW 044 032-004	50 50 1000*)	8KW 700 143-812	12 12
	Blade terminals	0.5 - 1.0	size of blade terminal 2.8 x 0.8	red	8KW 744 699-003	100		
	Blade terminals	0.5 - 1.0 1.5 - 2.5 4.0 - 6.0	size of blade terminal 6.3 x 0.8 mm	red blue yellow	8KW 702 796-003 8KW 044 288-003 8KW 044 288-004 8KW 744 700-003	100 100 1000*) 50	8KW 702 796-811	10 15
	Pin terminals	0.5 - 1.0 1.5 - 2.5 4.0 - 6.0	4 mm dia. 5 mm dia.	red blue yellow	8KW 044 040-003 8KW 044 040-004 8KW 044 025-003 8KW 044 025-003	100 1000*) 100 50	8KW 044 040-812	12 12 12
	Pin sockets	0.5 - 1.0 1.5 - 2.5 4.0 - 6.0	4 mm dia. 5 mm dia.	red blue yellow	8KW 045 145-003 8KW 045 145-004 8KW 044 026-003 8KW 744 734-003	50 1000*) 50 50	8KW 045 145-812	10 10
	Ring connectors	0.5 - 1.0 1.5 - 2.5	for pins M3	red blue	8KW 044 275-003 8KW 044 041-003	100 100		
	Ring connectors	0.5 - 1.0 1.5 - 2.5 4.0 - 6.0	for pins M4	red blue yellow	8KW 044 276-003 8KW 044 276-004 8KW 044 028-003 8KW 044 028-004 8KW 744 776-003	100 1000*) 100 1000*) 50	8KW 044 276-812	12 12

*) Standard pack

Illustration	Description	Cable section sq. mm	Description	Colour	Part no.	Pk.	Part no. Pro-fit pack	Pcs. p. Pro-fit pack
	Ring connectors	0.5 - 1.0	for pins M5	red	8KW 044 291-003	100		
		1.5 - 2.5		blue	8KW 044 027-003 8KW 044 027-004	100 1000 *)	8KW 044 027-812	12
		4.0 - 6.0		yellow	8KW 044 029-003 8KW 044 030-003	50 1000 *)		
	Ring connectors	0.5 - 1.0	for pins M6	red	8KW 744 772-003	100		
		1.5 - 2.5		blue	8KW 044 039-003 8KW 044 039-004	100 1000 *)	8KW 044 039-812	12
		4.0 - 6.0		yellow	8KW 044 030-003 8KW 044 030-004	50 1000 *)		
	Ring connectors	0.5 - 1.0	for pins M8	red	8KW 744 773-003	50		
		1.5 - 2.5		blue	8KW 044 277-003	50	8KW 044 277-812	10
		4.0 - 6.0		yellow	8KW 044 031-003	50		
	Ring connectors	0.5 - 1.0	for pins M10	red	8KW 744 774-003	50		
		1.5 - 2.5		blue	8KW 744 775-003	50		
		4.0 - 6.0		yellow	8KW 044 038-003	50		
	Fork connectors	0.5 - 1.0	for pins M3	red	8KW 744 777-003	100		
	Fork connectors	0.5 - 1.0	for pins M4	red	8KW 744 778-003	100		
		1.5 - 2.5		blue	8KW 744 782-003	100		
	Fork connectors	1.5 - 2.5	for pins M5	blue	8KW 044 282-003	50	8KW 044 282-811	10
	Fork connectors	0.5 - 1.0	for pins M5	red	8KW 744 779-003	100		
		4.0 - 6.0		yellow	8KW 744 784-003	50		
	Fork connectors	0.5 - 1.0	for pins M6	red	8KW 744 780-003	100		
		1.5 - 2.5		blue	8KW 744 783-003	100		
		4.0 - 6.0		yellow	8KW 744 785-003	50		
	Fork connectors	4.0 - 6.0	for pins M8	yellow	8KW 744 786-003	50		
	Fork connectors	1.5 - 2.5	for pins M5	blue	8KW 044 037-003	100		
	Fork connectors	0.5 - 1.0	for pins M6	red	8KW 744 790-003	50		
	Blade terminals	0.5 - 1.0	fully insulated size of blade terminal 6.3 x 0.8 mm	red	8KW 744 703-003	50		
		1.5 - 2.5		blue	8KW 744 704-003	50		
		4.0 - 6.0		yellow	8KW 744 705-003	25		
	Blade receptacles	0.5 - 1.0	fully insulated for blade terminals 6.3 x 0.8 mm	red	8KW 708 373-003 8KW 708 373-004	50 1000 *)	8KW 708 373-812	8
		1.5 - 2.5		blue	8KW 708 374-003 8KW 708 374-004	50 1000 *)	8KW 708 374-812	8
		4.0 - 6.0		yellow	8KW 744 799-003	50		8
	Contact pin bushes	0.5 - 1.0		red	8KW 744 769-003	100		
		1.5 - 2.5		blue	8KW 744 770-003	100		
		4.0 - 6.0		yellow	8KW 744 771-003	50		

*) Standard pack

Crimp Terminals

Insulated



Illustration	Description	Cable section sq. mm	Description	Colour	Part no.	Pk.	Part no. Pro-fit pack	Pcs. p. Pro-fit pack
	Butt connectors	0.5 - 1.0		red	8KW 044 280-003 8KW 044 280-004	100 1000 *)	8KW 044 280-811	12
		1.5 - 2.5		blue	8KW 044 033-002 8KW 044 033-004	100 1000 *)	8KW 044 033-812	12
		4.0 - 6.0		yellow	8KW 044 034-003 8KW 044 034-004	50 1000 *)	8KW 044 034-811	12
	Coupling		for 8KW 044 036-... 8KW 044 022-... 8KW 044 023-... for 2 blade receptacles, size of blade terminal 6.3 x 0.8 mm	trans- parent	8KW 044 035-003	25	8KW 044 035-811	5
	Splice connectors	0.3 - 0.75		red	8KV 715 923-003	25	8KV 715 923-801	5
		0.8 - 2.0		blue	8KV 705 123-002 8KV 705 123-004	25 1000	8KV 705 123-813	5
		3.3 - 5.2		yellow	8KV 712 169-003	10	8KV 712 169-811	5
	Splice connectors	0.5 - 1.0	for blade terminals 8KW 744 703-003	red	8KV 744 858-003	50		
		1.5 - 2.5	8KW 744 704-003	blue	8KV 744 859-003	50		
		4.0 - 6.0	8KW 744 705-003	yellow	8KV 744 860-003	25		
	Cable connectors	1.0 - 2.5	Contents: 5 cable connectors 5 blade terminals				8KV 713 222-812	10
	Cable end bushes	0.5		orange	8KW 744 839-003	100		
		0.75		white	8KW 744 840-003	100		
		1.0		yellow	8KW 744 841-003	100		
		1.5		red	8KW 744 842-003	100		
				blue	8KW 744 843-003	100		
		4.0		grey	8KW 744 844-003	100		
		6.0		black	8KW 744 845-003	100		
		10.0		ivory	8KW 744 846-003	100		
16.0		green	8KW 744 847-003	50				

*) Standard pack



8KW 009 254-801

Crimp connector set

Case with various crimp connectors, one junction connector, one coupling and one set crimping pliers (reorder quantity is not the same quantity in the set).

Part no. spare parts	Piece	Type	Connector width	Cable section sq. mm
8KW 044 276-003	20	Ring connectors	M4	0.5 - 1.0
8KW 044 291-003	20	Ring connectors	M5	0.5 - 1.0
8KW 044 036-003	20	Blade receptacles	6.3 x 0.8 mm	0.5 - 1.0
8KW 702 796-003	20	Blade terminals	6.3 x 0.8 mm	0.5 - 1.0
8KW 044 040-003	20	Pin terminals	4 mm dia.	0.5 - 1.0
8KW 044 037-003	20	Fork connectors	M5	1.5 - 2.5
8KW 044 022-003	20	Blade receptacles	6.3 x 0.8 mm	1.5 - 2.5
8KW 044 028-003	20	Ring connectors	M4	1.5 - 2.5
8KW 044 027-003	20	Ring connectors	M5	1.5 - 2.5
8KW 044 039-003	20	Ring connectors	M6	1.5 - 2.5
8KW 044 033-003	20	Butt connectors		1.5 - 2.5
8KW 044 032-003	20	2-way connectors	6.3 x 0.8 mm	1.5 - 2.5
8KW 044 288-003	20	Blade terminals	6.3 x 0.8 mm	1.5 - 2.5
8KW 045 145-003	20	Pin sockets	4 mm dia.	0.5 - 1.0
8KW 705 393-003	20	Blade receptacles	2.8 x 0.5 mm	0.5 - 1.0
8KW 708 373-003	20	Blade receptacles	6.3 x 0.8 mm	0.5 - 1.0
8KW 044 029-003	20	Ring connectors	M5	4.0 - 6.0
8KW 044 030-003	20	Ring connectors	M6	4.0 - 6.0
8KV 705 123-002	20	Splice connectors		0.8 - 2.0
8KW 044 035-003	20	Coupling	6.3 x 0.8 mm	
8PE 002 006-001	1	Crimping tool		
9XX 863 802-001	1	Assortment case, empty without dividers		
9XX 863 800-001	16	Dividers 9-1 for assortment case		
9XX 863 800-011	4	Dividers 8-1 for assortment case		

Crimp Terminals

Completely Insulated



Duraseal-completely insulated cable terminals

with shrink-on nylon cap containing glue for water tight connection.
Shrink-on nylon cap either with hot-air gun or other heat source - shrinking temperature 135 °C.

Illustration	Type	Cable section sq. mm	Description	Colour	Part no.	Pk Pro-fit pack.
	Blade receptacles completely insulated	0.5 - 1.0	for blade terminals 2.8 x 0.8 mm	red	8KW 744 761-003	25
		0.5 - 1.0	for blade terminals 4.8 x 0.8 mm	red	8KW 744 762-003	25
	Blade receptacles completely insulated	0.5 - 1.0	for blade terminals 6.3 x 0.8 mm	red	8KW 732 566-003	25
		1.5 - 2.5		blue	8KW 732 567-003	25
		4.0 - 6.0		yellow	8KW 744 763-003	25
	Blade terminals	0.5 - 1.0	size of blade terminal 6.3 x 0.8 mm	red	8KW 732 568-003	25
		1.5 - 2.5		blue	8KW 732 569-003	25
	Ring connectors	0.5 - 1.0	for pins M4	red	8KW 732 570-003	25
		1.5 - 2.5		blue	8KW 732 571-003	25
	Ring connectors	0.5 - 1.0	for pins M5	red	8KW 732 572-003	25
		1.5 - 2.5		blue	8KW 732 573-003	25
		4.0 - 6.0		yellow	8KW 732 574-003	25
	Ring connectors	1.5 - 2.5	for pins M6	blue	8KW 732 575-003	25
		4.0 - 6.0		yellow	8KW 732 576-003	25
	Ring connectors	1.5 - 2.5	for pins M8	blue	8KW 732 577-003	25
		4.0 - 6.0		yellow	8KW 732 578-003	25
	Ring connectors	1.5 - 2.5	for pins M10	blue	8KW 744 754-003	25
		4.0 - 6.0		yellow	8KW 744 755-003	25
	Pin terminals	0.5 - 1.0	4 mm dia.	red	8KW 744 765-003	25
		1.5 - 2.5	5 mm dia.	blue	8KW 744 766-003	25
	Round plug sockets completely insulated	0.5 - 1.0	4 mm dia.	red	8KW 744 767-003	25
		1.5 - 2.5	5 mm dia.	blue	8KW 744 768-003	25
	Butt connectors	0.5 - 1.0		red	8KW 732 579-003	25
		1.5 - 2.5		blue	8KW 732 580-003	25
		4.0 - 6.0		yellow	8KW 732 581-003	15

8KW 009 253-801

Duraseal crimp connector set

Case with various Duraseal crimp connectors
(reorder quantity is not the same as the quantity in the set).



Part no. spare parts	Piece	Type	Connector width	Cable section sq. mm
8KW 732 579-003	15	Butt connectors		0.5 - 1.0
8KW 732 575-003	15	Ring connectors	M6	1.5 - 2.5
8KW 732 566-003	15	Blade receptacles completely insulated	6.3 x 0.8 mm	0.5 - 1.0
8KW 744 766-003	15	Pin terminals	5 mm dia.	1.5 - 2.5
8KW 732 580-003	15	Butt connectors		1.5 - 2.5
8KW 732 576-003	15	Ring connectors	M6	4.0 - 6.0
8KW 732 567-003	15	Blade receptacles completely insulated	6.3 x 0.8 mm	1.5 - 2.5
8KW 744 768-003	15	Round plug sockets completely insulated	5 mm dia.	1.5 - 2.5
8KW 732 581-003	15	Butt connectors		4.0 - 6.0
8KW 732 577-003	15	Ring connectors	M8	1.5 - 2.5
8KW 732 568-003	15	Blade terminals	6.3 x 0.8 mm	0.5 - 1.0
8KW 744 757-00	15	Fork connectors		15
8KW 732 573-003	15	Ring connectors	M5	1.5 - 2.5
8KW 732 574-003	15	Ring connectors	M5	4.0 - 6.0
8KW 732 569-003	15	Blade terminals	6.3 x 0.8 mm	1.5 - 2.5
8KW 744 758-00	15	Fork connectors		15
9XX 863 802-001	1	Assortment case, empty without dividers		
9XX 863 800-011	16	Dividers 8-1 for assortment case		

Crimp Terminals, Shrink Connectors

Completely Insulated



Crimp Terminals

with Nylon insulation, DIN 46237, -> 600V, -> 105 °C

Illustration	Type	Cable section sq. mm	Description	Colour	Part no.	Pk Pro-fit pack.
	Ring connectors	0.5 - 1.0	for pins M3	red	8KW 178 042-002	100
			for pins M4		8KW 178 042-012	100
			for pins M5		8KW 178 042-022	100
			for pins M6		8KW 178 042-032	100
			for pins M8		8KW 178 042-042	100
			for pins M10		8KW 178 042-052	100
	Ring connectors	1.5 - 2.5	for pins M3	blue	8KW 178 042-102	100
			for pins M4		8KW 178 042-112	100
			for pins M5		8KW 178 042-122	100
			for pins M6		8KW 178 042-132	100
			for pins M8		8KW 178 042-142	100
			for pins M10		8KW 178 042-152	100
	Ring connectors	4.0 - 6.0	for pins M4	yellow	8KW 178 042-202	50
			for pins M5		8KW 178 042-212	50
			for pins M6		8KW 178 042-222	50
			for pins M8		8KW 178 042-232	50
			for pins M10		8KW 178 042-242	50
					Fork connectors	0.5 - 1.5
	for pins M5	8KW 178 045-012		100		
1.5 - 2.5		blue		8KW 178 045-102		50
	for pins M6			8KW 178 045-112		50
4.0 - 6.0	for pins M5	yellow		8KW 178 045-202		50
	for pins M6			8KW 178 045-212		50
	for pins M8	8KW 178 045-222	50			
	Butt connectors	0.5 - 1.5		red	8KW 178 043-002	100
		1.5 - 2.5		blue	8KW 178 043-012	50
		4.0 - 6.0		yellow	8KW 178 043-022	50
	Contact pin bushes	0.5 - 1.5	1.9 mm	red	8KW 178 044-002	100
		1.5 - 2.5		blue	8KW 178 044-012	100
		4.0 - 6.0	2.8 mm	yellow	8KW 178 044-022	50

Shrink Connectors ROAS

	Shrinksoldering connectors	0.7 - 2.4	green	8KW 177 727-002	20
		2.0 - 4.0	red	8KW 177 727-012	20
		3.5 - 8.0	blue	8KW 177 727-112	20
		7.5 - 12.0	yellow	8KW 177 727-212	20

CWT-soldering bushings

for wires sensitive to temperature where soldering is impossible.

The soldering bushing is shrunk using a hot-air gun, but preferably with the reflector.

The integrated solder ring melts and the hot shrink tubing coated with adhesive connects to the insulation on the wire.

After it has been heated the connection is soldered, insulated and mechanically balanced.

Suitable as a high-quality connection for individual wires and for grounding the screening of coaxial wires.



Illustration	Type	Cable section sq. mm	Max. diameter insulation mm	Colour	Part no.	Pk. Pro-fit pack
	CWT-soldering bushings	2 x 0.3 - 0.8	1.7	clear	8KW 744 890-013	50
		2 x 0.8 - 2.0	2.7	red	8KW 744 887-013	50
		2 x 1.0 - 2.0	4.3	blue	8KW 744 888-013	50
		2 x 4.0 - 6.0	5.8	yellow	8KW 744 889-013	50

*) Standard pack

Superseal-Assortments



Part no.	Pk.	Contents:
8KW 744 805-801	1	Contents: 1 pin housing 1 bush housing 2 pin contacts 1.0 - 1.5 sq. mm 2 bush contacts 1.0 - 1.5 sq. mm 2 single conductor seals 1.8 - 2.4 mm dia. 2 single conductor seals 2.6 - 3.3 mm dia.
		Superseal set, 1-pole
8KW 744 806-801	1	Contents: 1 pin housing 1 bush housing 3 pin contacts 1.0 - 1.5 sq. mm 3 bush contacts 1.0 - 1.5 sq. mm 4 single conductor seals 1.8 - 2.4 mm dia. 4 single conductor seals 2.6 - 3.3 mm dia. 2 dummy plugs
		Superseal set, 2-pole
8KW 744 807-801	1	Contents: 1 pin housing 1 bush housing 4 pin contacts 1.0 - 1.5 sq. mm 4 bush contacts 1.0 - 1.5 sq. mm 6 single conductor seals 1.8 - 2.4 mm dia. 6 single conductor seals 2.6 - 3.3 mm dia. 4 dummy plugs
		Superseal set, 3-pole
8KW 744 808-801	1	Contents: 1 pin housing 1 bush housing 5 pin contacts 1.0 - 1.5 sq. mm 5 bush contacts 1.0 - 1.5 sq. mm 8 single conductor seals 1.8 - 2.4 mm dia. 8 single conductor seals 2.6 - 3.3 mm dia. 6 dummy plugs
		Superseal set, 4-pole
8KW 744 809-801	1	Contents: 1 pin housing 1 bush housing 6 pin contacts 1.0 - 1.5 sq. mm 6 bush contacts 1.0 - 1.5 sq. mm 10 single conductor seals 1.8 - 2.4 mm dia. 10 single conductor seals 2.6 - 3.3 mm dia. 8 dummy plugs
		Superseal set, 5-pole
8KW 744 810-801	1	Contents: 1 pin housing 1 bush housing 7 pin contacts 1.0 - 1.5 sq. mm 7 bush contacts 1.0 - 1.5 sq. mm 12 single conductor seals 1.8 - 2.4 mm dia. 12 single conductor seals 2.6 - 3.3 mm dia. 10 dummy plugs
		Superseal set, 6-pole



Superseal Connectors

Type	Pole Cable section	Part no.	Pk. Pro-fit pack
Pin housing	1-pole	8JA 746 183-012	10
Bush housing	1-pole	8KW 744 837-002	10
Pin housing	2-pole	8JA 746 183-022	10
Bush housing	2-pole	8JA 746 184-022	10
Pin housing	3-pole	8JA 746 183-032	10
Bush housing	3-pole	8JA 746 184-032	10
Pin housing	4-pole	8JA 746 183-042	10
Bush housing	4-pole	8JA 746 184-042	10
Pin housing	5-pole	8JA 746 183-052	10
Bush housing	5-pole	8JA 746 184-052	10
Pin housing	6-pole	8JA 746 183-062	10
Bush housing	6-pole	8JA 746 184-062	10
Pin contact	1.0 - 1.5 sq. mm	8KW 744 836-002	50
Bush contact	1.0 - 1.5 sq. mm	8KW 744 837-002	50
Single conductor seal	1.8 - 2.4 sq. mm	9GD 746 185-002	10
Single conductor seal	2.6 - 3.3 sq. mm	9GD 746 186-002	10
Dummy plug		9GD 746 187-002	50

8JA 009 256-801

Superseal connector set

Case with various Superseal plug housings, pin/socket contacts, single conductor seals and dummy plugs (reorder quantity is not the same as the quantity in the set).



Part no.	Piece	Type	Lead size Poles
spare parts			
9GD 746 185-002	100	Single conductor seal	1.8 - 2.4 sq. mm
9GD 746 187-002	100	Dummy plug	
8KW 744 836-002	100	Pin contact	1.0 - 1.5 sq. mm
8KW 744 837-002	100	Bush contact	1.0 - 1.5 sq. mm
8JA 746 183-012	5	Pin housing	1-pole
8JA 746 183-022	5	Pin housing	2-pole
8JA 746 184-022	5	Bush housing	2-pole
8JA 746 183-032	5	Pin housing	3-pole
8JA 746 184-032	5	Bush housing	3-pole
8JA 746 183-042	5	Pin housing	4-pole
8JA 746 184-042	5	Bush housing	4-pole
8JA 746 183-052	5	Pin housing	5-pole
8JA 746 184-052	5	Bush housing	5-pole
8JA 746 183-062	5	Pin housing	6-pole
8JA 746 184-062	5	Bush housing	6-pole
9XX 863 802-001	1	Assortment case, empty without dividers	
9XX 863 800-001	4	Dividers 9-1 for assortment case	
9XX 863 800-011	10	Dividers 8-1 for assortment case	
9XX 863 800-021	2	Dividers 7-1 for assortment case	

Illustration	Description	Cable section sq. mm	Size of blade terminals mm	Material / Surface	Part no.	Pk. Pro-fit pack
	Blade receptacles	0.5 - 1.0	4.8 x 0.8	CuZn/bk	8KW 744 828-003	100
		0.75 - 1.5	6.3 x 0.8	CuZn/bk	8KW 043 629-013	100
		1.5 - 2.5	6.3 x 0.8	CuZn/AG	8KW 744 825-003	100
		1.5 - 2.5	6.3 x 0.8	CuZn/bk	8KW 043 630-013	100
		1.5 - 2.5	6.3 x 0.8	CuZn/bk	8KW 043 630-014	1500
	Blade receptacles	4.0 - 6.0	9.5 x 1.2	CuSn/bk	8KW 744 787-003	50
	Blade receptacles	0.5 - 1.5	6.3 x 0.8	CuSn/Sn	8KW 744 827-003	100
	Blade receptacles with locking tab	0.5 - 1.0	2.8 x 0.8	CuSn/Sn	8KW 744 817-003	100
		0.5 - 1.0	4.8 x 0.8	CuZn/Sn	8KW 733 815-003	100
		0.5 - 1.0	6.3 x 0.8	CuZn/bk	8KW 744 819-003	100
		1.5 - 2.5	6.3 x 0.8	CuZn/Sn	8KW 701 235-033	100
		1.5 - 2.5	6.3 x 0.8	CuZn/Sn	8KW 701 235-034	1500
		Soldered pin	6.3 x 0.8	CuSn/frSn	8KW 719 874-007	2500
		1.5 - 2.5	6.3 x 0.8	CuZn/Ag	8KW 744 820-003	100
4.0 - 6.0	9.5 x 0.8	CuSn4	8KW 744 822-003	50		
	Blade receptacles with locking tab	1.5 - 2.5	6.3 x 0.8	CuSn/Ag	8KW 744 821-003	100
	Blade terminals	0.5 - 1.0	2.8 x 0.8	CuZn/bk	8KW 744 752-003	100
		0.5 - 1.0	6.3 x 0.8	CuZn/Sn	8KW 043 635-013	100
		1.5 - 2.5	6.3 x 0.8	CuZn/bk	8KW 744 823-003	100
	Blade terminals with locking tab	0.5 - 1.0	2.8 x 0.8	CuZn/Sn	8KW 744 834-003	100
		0.5 - 1.0	2.8 x 0.8	CuSn/Sn	8KW 744 879-003	100
		0.5 - 1.0	6.3 x 0.8	CuZn/frSn	8KW 744 832-003	100
		1.5 - 2.5	6.3 x 0.8	CuZn/frSn	8KW 048 056-033	100
		1.5 - 2.5	6.3 x 0.8	CuZn/Ag	8KW 744 833-003	100
	2-way connectors	0.5 - 1.0	6.3 x 0.8	CuZn/bk	8KW 701 671-003	100
		1.5 - 2.5	6.3 x 0.8	CuZn/bk	8KW 744 885-013	100
	2-way connectors		6.3 x 0.8	CuZn/bk	8KW 043 636-003	100
	3-way connectors		6.3 x 0.8	CuZn/Sn	8KW 700 144-003	50
	Coupling 45 degrees		6.3 x 0.8 4.2 mm dia.	CuZn/Sn	8KW 044 285-023	100
	Insulating sleeves	for blade receptacles			8KX 707 925-003	100
		for blade terminals	6.3 x 0.8 mm		8KX 707 924-003	100

Crimp Terminals

Non-Insulated



8KW 009 255-801

Crimp connector set, not insulated

Case with various uninsulated connectors
(reorder quantity is not the same as the quantity in the set).

Part no. spare parts	Piece	Type	Connector width	Cable section sq. mm
8KW 744 817-003	50	Blade receptacles with locking tab	2.8 x 0.8	0.5 - 1.0
8KW 744 828-003	50	Blade receptacles	4.8 x 0.8	0.5 - 1.0
8KW 744 834-003	50	Blade terminals with locking tab	2.8 x 0.8	0.5 - 1.0
8KW 733 815-003	50	Blade receptacles with locking tab	4.8 x 0.8	0.5 - 1.0
8KW 043 629-013	50	Blade receptacles	6.3 x 0.8	0.75 - 1.5
8KW 744 832-003	50	Blade terminals with locking tab	6.3 x 0.8	0.5 - 1.0
8KW 744 819-003	50	Blade receptacles with locking tab	6.3 x 0.8	0.5 - 1.0
8KW 043 630-013	50	Blade receptacles	6.3 x 0.8	1.5 - 2.5
8KW 048 056-033	50	Blade terminals with locking tab	6.3 x 0.8	1.5 - 2.5
8KW 701 235-033	50	Blade receptacles with locking tab	6.3 x 0.8	1.5 - 2.5
8KW 744 787-003	20	Blade receptacles	9.5 x 1.2	4.0 - 6.0
8KW 744 823-003	50	Blade terminals	6.3 x 0.8	1.5 - 2.5
8KW 043 636-003	50	2-way connectors	6.3 x 0.8	
8KW 700 144-003	20	3-way connectors	6.3 x 0.8	
8KW 744 885-013	20	2-way connectors	6.3 x 0.8	1.5 - 2.5
8KW 744 821-003	20	Blade receptacles with locking tab	6.3 x 0.8	1.5 - 2.5
8KW 744 827-003	20	Blade receptacles	6.3 x 0.8	0.5 - 1.5
8KW 744 804-00	20	Blade terminal 45 degrees		
8KW 044 285-00	20	Coupling	6.3 x 0.8	
9XX 863 802-001	1	Assortment case, empty without dividers		
9XX 863 800-001	8	Dividers 9-1 for assortment case		
9XX 863 800-011	12	Dividers 8-1 for assortment case		

Illustration	Description	Cable section sq. mm	Size of blade terminals mm	Material / Surface	Part no.	Pk. Pro-fit pack
	Micro Timer II Blade receptacles	0.5 - 1.0	1.6 x 0.8	CuFe/Sn	8KW 863 933-003	50
	Blade terminals for single conductor seal	0.5 - 1.0	1.6 x 0.8	CuFe/Sn CuSn/Sn	8KW 863 932-003 8KW 863 932-013	50 50
	Single conductor seal	1.4 x 1.9 mm		Silicon grey	9GD 863 952-012	50
	Dummy plug			Silicon white	9GD 863 952-002	50
	Junior Timer Blade receptacles with one catch spring	0.5 - 1.0 1.0 - 2.5	2.8 x 0.8	CuZn/Sn CuZn/Sn	8KW 863 926-003 8KW 863 926-013	50 50
	Blade terminals with asymmetric upper steel spring	0.5 - 1.0	2.8 x 0.8	CuFe/Sn	8KW 863 931-003	50
	Blade terminals with symmetric upper steel spring	0.5 - 1.0	2.8 x 0.8	CuFe/Sn	8KW 863 930-003	50

Illustration	Description	Cable section sq. mm	Size of blade terminals mm	Material / Surface	Part no.	Pk. Pro-fit pack
	Junior Power Timer Blade receptacles	0.5 - 1.0	2.8 x 0.8	CuSn/Sn	8KW 863 934-003	50
		1.0 - 2.5		CuSn/Sn	8KW 863 934-023	50
					8KW 863 934-024	1000
					8KW 863 934-013	50
	for single conductor seal	0.5 - 1.0		CuSn/Sn	8KW 863 934-013	50
	Blade terminals with asymmetric upper steel spring	0.5 - 1.0	2.8 x 0.8	CuFe/Sn	8KW 863 931-003	50
	Blade terminals with symmetric upper steel spring	0.5 - 1.0	2.8 x 0.8	CuFe/Sn	8KW 863 930-003	50
	Blade terminals with symmetric upper steel spring for single conductor seal	0.5 - 1.0	2.8 x 0.8	CuSn/Sn	8KW 863 930-013	50
	Single conductor seal	1.2 - 2.1 mm		Silicon blue	9GD 863 953-012	50
	Dummy plug			Silicon nature	9GD 863 953-002	50
	Standard Timer Blade receptacles with one catch spring	0.5 - 1.5	4.8/5.8/6.8 x 0.8	CuZn/Sn	8KW 863 925-003	50
		1.0 - 2.5		CuSn/Sn	8KW 863 925-013	50
	Blade terminals with symmetric upper steel spring	0.5 - 1.0	5.8 x 0.8	CuFe/Sn	8KW 863 928-003	50
		1.5 - 2.5		CuFe/Sn	8KW 863 928-013	50
	Standard Power Timer Blade receptacles	0.5 - 1.0	4.8/5.8/6.8 x 0.8	CuFe/Sn	8KW 863 927-003	50
		1.5 - 2.5		CuFe/Sn	8KW 863 927-013	50
		2.5 - 4.0		CuFe/Sn	8KW 863 927-023	50
		for single conductor seal		1.5 - 2.5	CuFe/Sn	8KW 863 927-033
	Blade terminals with symmetric upper steel spring	0.5 - 1.0	5.8 x 0.8	CuFe/Sn	8KW 863 928-003	50
		1.5 - 2.5		CuFe/Sn	8KW 863 928-013	50
	Blade terminals with symmetrical upper steel spring for single conductor seal	1.5 - 2.5		CuFe/Sn	8KW 863 928-023	50
	Single conductor seal	2.2 - 3.0 mm		Silicon white	9GD 863 954-012	50
	Dummy plug			Silicon black	9GD 863 954-002	50
	Maxi Power Timer Blade receptacles for single conductor seal	2.5 - 4.0	9.5 x 1.2	CuNi/Sn	8KW 863 951-003	10
		4.0 - 6.0		CuNi/Sn	8KW 863 951-013	10
		6.0 - 10.0		CuNi/Sn	8KW 863 951-023	10
	Single conductor seal	4.7 - 5.3 mm		Silicon blue	9GD 863 961-012	10
		5.8 - 6.6 mm		Silicon light blue	9GD 863 961-022	10
	Plug connectors: CIC Bush contact	0.5 - 1.5	1.6	CuZn/Sn	8KW 863 918-003	50
		1.0 - 2.5		CuSn/Sn	8KW 863 918-013	50

Crimp Terminals

Non-Insulated

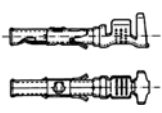

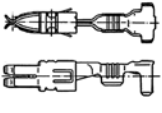
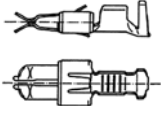
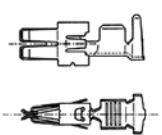


Illustration	Description	Cable section sq. mm	Size of blade terminals mm	Material / Surface	Part no.	Pk. Pro-fit pack
	Pin contact	0.5 - 1.5	1.6	CuZn/Sn	8KW 863 919-003	50
		1.0 - 2.5		CuZn/Sn	8KW 863 919-013	50
	Plug connectors: Type III for M series Bush contact	0.75 - 1.5	1.6	CuZn/Sn	8KW 863 945-003	50
		0.2 - 0.56		CuSn/Sn	8KW 863 945-013	50
	Pin contact	0.75 - 1.5	1.6	CuZn/Sn	8KW 863 929-003	50
		0.2 - 0.56		CuSn/Sn	8KW 863 929-013	50
	Plug connectors: CI 2 Bush contact	0.5 - 1.0	1.6	CuSn/Sn	8KW 863 917-013	50
	Pin contact	0.5 - 1.5	1.6	CuZn/Sn	8KW 863 924-003	50
	Plug connectors: Mate-N-Lock Bush contact	0.5 - 1.0	2.1	CuZn/Sn	8KW 863 916-003	50
		1.0 - 2.5		CuZn/Sn	8KW 863 916-013	50
	Pin contact	0.5 - 1.0	2.1	CuZn/Sn	8KW 863 915-013	50
		1.0 - 2.5		CuZn/Sn	8KW 863 915-003	50
	Plug connectors: Universal Mate-N-Lock Bush contact	0.5 - 2.1	2.1	CuSn/Sn	8KW 863 923-003	50
		1.5 - 2.5		CuZn/Sn	8KW 863 923-013	50
	Sockets	3-pole			8JA 180 664-002	10
		6-pole			8JA 180 664-012	10
		12-pole			8JA 180 664-022	10
		15-pole			8JA 180 664-032	10
	Pin contact	0.5 - 2.1	2.1	CuZn/Sn	8KW 863 922-013	10
		1.5 - 2.5		CuZn/Sn	8KW 863 922-003	10
	Sockets	3-pole			8JA 180 663-002	10
		6-pole			8JA 180 663-012	10
		12-pole			8JA 180 663-022	10
		15-pole			8JA 180 663-032	10
	Cable connectors for Coni-Round plug system	0.75 - 1.5 sleeve	1.6 mm dia.	CuZn/frSn	8KW 054 946-003	50
		1.5 - 2.5 sleeve	1.6 mm dia.	CuZn/frSn	8KW 744 864-003	50
	Cable connectors for Coni-Round plug system	0.75 - 1.5 plug	1.6 mm dia.	CuSn/frSn	8KW 054 945-003	50
		1.5 - 2.5 plug	1.6 mm dia.	CuZn/frSn	8KW 744 866-003	50
	RAM-Round plug systems	1.5 - 2.5 sleeve	3.5 mm dia.	CuZn/frSn	8KW 054 948-003	50
		4.0 - 6.0 sleeve	3.5 mm dia.	CuZn/frSn	8KW 054 948-013	50
	RAM-Round plug systems	1.5 - 2.5 plug	3.5 mm dia.	CuSn/frSn	8KW 054 947-003	50
		4.0 - 6.0 plug	3.5 mm dia.	CuSn/frSn	8KW 054 947-013	50



Crimp Terminals

Non-Insulated

Illustration	Description	Cable section sq. mm	Size of blade terminals mm	Material / Surface	Part no.	Pk. Pro-fit pack
	RSA-Round plug systems	1.5 - 2.5 sleeve	1.6 mm dia.	CuSn/frSn	8KW 054 950-003	50
	RSA-Round plug systems	1.5 - 2.5 plug	1.6 mm dia.	CuSn/frSn	8KW 054 949-003	50
	MDK5-Blade receptacles	0.5 - 1.0 1.5 - 2.5	2.8/4.8 x 0.8 2.8/4.8 x 0.8	CuSn/frSn CuSn/frSn	8KW 054 942-003 8KW 054 941-003	50 50
	DFK 2-Blade receptacles	1.5 - 2.5 2.5 - 4.0	4.8 + 6.3 x 0.8 4.8 + 6.3 x 0.8	CuSn/frSn CuSn/frSn	8KW 054 944-003 8KW 054 943-003	50 50
	AFK-Blade receptacles	1.5 - 2.5	4.8 + 6.3 x 0.8	CuFe/frSn	8KW 172 971-002 8KW 172 971-003	50 1000



CONI housings for round plug connections

splash-proof, 1.6 mm dia., for cable cross-section 0.2 - 2.5 sq. mm, max. 250V

Illustration	Description	Pole	Part no.	Pk. Pro-fit pack
	Pin housing	3-pole	8KW 744 851-003	10
	Bush housing	3-pole	8KW 744 854-003	10
	Pin housing	6-pole	8KW 744 852-003	10
	Bush housing	6-pole	8KW 744 855-003	10
	Bush housing	12-pole	8KW 744 853-003	10
	Bush housing	12-pole	8KW 744 857-003	10
	Pin housing	15-pole	8KW 744 886-003	10
	Bush housing	15-pole	8KW 744 856-003	10



Solder-free tubular cable lugs
for pressing, ring-shaped, made of copper, tin-plated

Illustration	Cable section sq. mm	Eyelet hole dia. mm	For screw	Part no.	Pk. Pro-fit pack
	> 1.0 - 2.5	3.2	M3	8KW 744 708-003	100
	> 1.0 - 2.5	4.3	M4	8KW 744 709-003	100
	> 1.0 - 2.5	5.3	M5	8KW 744 710-003	100
	> 1.0 - 2.5	6.5	M6	8KW 744 711-003	100
	> 2.5 - 6.0	4.3	M4	8KW 744 712-003	100
	> 2.5 - 6.0	5.3	M5	8KW 744 713-003	100
	> 2.5 - 6.0	6.5	M6	8KW 744 714-003	100
	> 2.5 - 6.0	8.4	M8	8KW 744 715-003	50
	> 6.0 - 10.0	5.3	M5	8KW 744 716-003	50
	> 6.0 - 10.0	6.5	M6	8KW 744 717-003	50
	> 6.0 - 10.0	8.4	M8	8KW 744 718-003	50
	> 6.0 - 10.0	10.5	M10	8KW 744 719-003	50
	> 10.0 - 16.0	5.3	M5	8KW 744 720-003	50
	> 10.0 - 16.0	6.5	M6	8KW 744 721-003	50
	> 10.0 - 16.0	8.4	M8	8KW 744 722-003	50
	> 10.0 - 16.0	10.5	M10	8KW 744 723-003	50
	> 16.0 - 25.0	6.5	M6	8KW 744 724-003	25
	> 16.0 - 25.0	8.4	M8	8KW 744 725-003	25
	> 16.0 - 25.0	10.5	M10	8KW 744 726-003	25
	> 25.0 - 35.0	6.5	M6	8KW 744 727-003	25
	> 25.0 - 35.0	8.4	M8	8KW 744 728-003	25
	> 25.0 - 35.0	10.5	M10	8KW 744 729-003	25
	> 35.0 - 50.0	8.4	M8	8KW 744 730-003	10
	> 35.0 - 50.0	10.5	M10	8KW 744 731-003	10
	> 35.0 - 50.0	13.0	M12	8KW 744 732-003	10
	> 50.0 - 70.0	8.4	M8	8KW 746 778-003	10
	> 50.0 - 70.0	10.5	M10	8KW 746 779-003	10
	> 50.0 - 70.0	13.0	M12	8KW 746 783-003	10
	> 70.0 - 95.0	10.5	M10	8KW 746 780-003	2
	> 70.0 - 95.0	13.0	M12	8KW 746 781-003	2
	> 95.0 - 120.0	13.0	M12	8KW 746 782-003	2

Solder Tubular Cable Lugs



Solder tubular cable lugs
(DIN 42 611), ring-shaped, brass, tin-plated, non-insulated

Illustration	Cable section sq. mm	Eyelet hole dia. mm	For screw	Part no.	Pk. Pro-fit pack
	> 1.5 - 2.5	6.5	M6	8KW 177 784-012	100
	> 2.5 - 6.0	5.3	M5	8KW 177 784-002	100
	> 2.5 - 6.0	6.5	M6	8KW 177 784-102	50
	> 6.0 - 10.0	6.5	M6	8KW 177 784-202	25
	> 10.0 - 16.0	6.5	M6	8KW 177 784-302	50
	> 2.5 - 6.0	8.4	M8	8KW 177 784-112	50
	> 6.0 - 10.0	8.4	M8	8KW 177 784-212	25
	> 10.0 - 16.0	8.4	M8	8KW 177 784-312	25
	> 16.0 - 25.0	8.4	M8	8KW 177 784-402	10
	> 25.0 - 35.0	8.4	M8	8KW 177 784-502	10
	> 2.5 - 6.0	10.5	M10	8KW 177 784-122	50
	> 6.0 - 10.0	10.5	M10	8KW 177 784-222	25
	> 10.0 - 16.0	10.5	M10	8KW 177 784-322	25
	> 16.0 - 25.0	10.5	M10	8KW 177 784-412	10
	> 25.0 - 35.0	10.5	M10	8KW 177 784-512	10
	> 35.0 - 50.0	10.5	M10	8KW 177 784-602	5
	> 50.0 - 70.0	10.5	M10	8KW 177 784-702	5
	> 10.0 - 16.0	13.0	M12	8KW 177 784-332	25
	> 16.0 - 25.0	13.0	M12	8KW 177 784-422	10
	> 25.0 - 35.0	13.0	M12	8KW 177 784-522	10
	> 35.0 - 50.0	13.0	M12	8KW 177 784-612	5
	> 50.0 - 70.0	13.0	M12	8KW 177 784-712	5

Special crimping tools

Model Profi I

For crimping cable terminals and butt connectors with insulation. Even low force application ensures extremely high contact pressure. This guarantees crimp connections with maximum contact and high electrical values.

Catch mechanism guarantees uniform contact pressure.



Part no.	Pk.	
8PE 002 007-001	1	Special crimping tool for insulated crimp terminals, cable cross-section 0.5 - 6.0 sq. mm (red, blue, yellow)

Model Profi II

For crimping cable terminals and butt connectors without insulation. Even low force application ensures extremely high contact pressure. This guarantees crimp connections with maximum contact and high electrical values.

Catch mechanism guarantees uniform contact pressure.












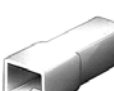




Part no.	Pk.	
8PE 002 007-011	1	Special crimping tool for non-insulated crimp terminals, cable cross-section 0.5 - 6.0 sq. mm

Expert

Suitable for cutting bolts with threads in conformance with ISO from M2.6 - M3.5 and for shortening and stripping insulation on conductors with cross-section from 0.75 - 6.0 sq. mm.



Part no.	Pk.	
8PE 002 006-001	1	Special crimping tool for insulated crimp terminals, cable cross-section 0.5 - 6.0 sq. mm (red, blue, yellow)

Illustration	Type	For receiving of	Size of blade terminal	Pole	Part no.	Pk.
	Sockets	1 blade receptacle	6.3 mm	1-pole	8JD 008 151-001	10
	Sockets	1 blade receptacle	6.3 mm	1-pole	8JD 008 151-072	10
	Sockets	2 blade receptacles	6.3 mm	2-pole	8JD 008 151-011	10
	Sockets	2 blade receptacles	6.3 mm	2-pole	8JD 008 151-021	10
	Sockets	3 blade receptacles	6.3 mm	3-pole	8JD 008 151-031	10
	Sockets	4 blade receptacles	6.3 mm	4-pole	8JD 008 151-041	10
	Sockets	6 blade receptacles	6.3 mm	6-pole	8JD 008 151-051	10
	Sockets	8 blade receptacles	6.3 mm	8-pole	8JD 008 151-061	10
	Sockets	1 blade terminal	6.3 mm	1-pole	8JD 008 152-001	10
	Sockets	2 blade terminals	6.3 mm	2-pole	8JD 008 152-011	10
	Sockets	2 blade terminals	6.3 mm	2-pole	8JD 008 152-021	10
	Sockets	3 blade terminals	6.3 mm	3-pole	8JD 008 152-031	10
	Sockets	4 blade terminals	6.3 mm	4-pole	8JD 008 152-041	10
	Sockets	6 blade terminals	6.3 mm	6-pole	8JD 008 152-051	10



Sockets

For receiving max. eight 6.3 mm blade terminals.

Part no.	Pk.	
8JA 713 631-001	10	Socket, 8-pole

For bulb holders 9FF 713 627-001/011.

Part no.	Pk.	
8JA 715 600-001	10	Socket, 2-pole

For receiving max. nine 6.3 mm blade terminals.
For switches in model range 003 916-...

Part no.	Pk.	
8JA 711 375-001	5	Socket, 9-pole Self-service box

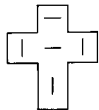
For receiving max. eight 6.3 mm blade terminals.
For switches in model range 6HF 001 579-...

Part no.	Pk.	
8JA 001 926-001	10	Socket, 8-pole Self-service box

Sockets for relays

For mini-relays.

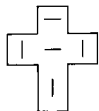
With SAE terminal arrangement, 5-pole,
for receiving five 6.3 mm blade receptacles.



Part no.	Pk.	
8JA 715 606-001	50	Socket, 5-pole

For mini-relays.

With SAE terminal arrangement, 5-pole,
for receiving five 6.3 mm blade receptacles.
Made of black plastic.
For mounting on PCB's.



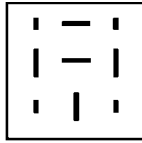
Part no.	Pk.	
8JA 717 291-007	100	Socket, 5-pole

For mini-relays.

With SAE terminal arrangement, 5-pole,
for receiving five 6.3 mm blade receptacles 8KW 719 874-007.
Made of black plastic.



Part no.	Pk.	
8JD 733 963-001	5	Socket, 5-pole



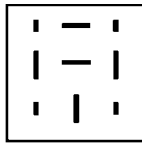
Sockets for relays

For mini-relays.

With SAE terminal arrangement, 9-pole,

for receiving five 6.3 mm blade receptacles and four 2.8 mm blade receptacles. Made of black plastic.

Part no.	Pk.	
8JA 003 526-001	5	Socket, 9-pole
8JA 003 526-002	50	Socket, 9-pole

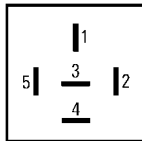


For mini-relays.

With SAE terminal arrangement, 9-pole,

for receiving three blade receptacles 6.3 mm, two blade receptacles 9.5 mm and 4 blade receptacles 2.8 mm. Made of black plastic.

Part no.	Pk.	
8JA 183 161-002	5	Socket, 9-pole
Accessories:		
Blade receptacles with locking tab for cable section		
8KW 744 819-003	100	0.5 - 1.0 sq. mm (connector width 6.3 x 0.8 mm)
8KW 701 235-033	100	1.5 - 2.5 sq. mm (connector width 6.3 x 0.8 mm)
8KW 744 822-003	100	1.5 - 2.5 sq. mm (connector width 6.3 x 0.8 mm)
8KW 744 822-003	100	4.0 - 6.0 sq. mm (connector width 9.5 x 0.8 mm)

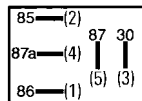


For waterproof ISO mini-relays

4RD 960 388-221/-711 and 4RD 930 141-141 with circuit diagram B1.

Connecting cable 30 cm, 48 cm.

Part no.	Pk.	
8JD 745 803-001	1	Socket, 9-pole

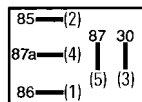


For micro-relays. With SAE terminal arrangement, 5-pole.

For receiving three 4.8 mm blade receptacles and two 6.3 mm blade receptacles.

Made of black plastic.

Part no.	Pk.	
8JD 733 767-001	5	Socket, 5-pole



For micro-relays. With SAE terminal arrangement, 5-pole.

For receiving three 4.8 mm blade receptacles and two 6.3 mm blade receptacles.

Made of black plastic.

Part no.	Pk.	
8JD 733 962-001	5	Socket, 5-pole



Socket for flasher units

6-pole,

for receiving six 6.3 mm blade terminals.

Made of black plastic.

Part no.	Pk.	
9NH 701 230-001	10	Socket, 6-pole Self-service box



Retaining spring for relays

For mounting mini-relays.

Part no.	Pk.	
9KB 710 131-001	10	Retaining spring

Plastic cable straps

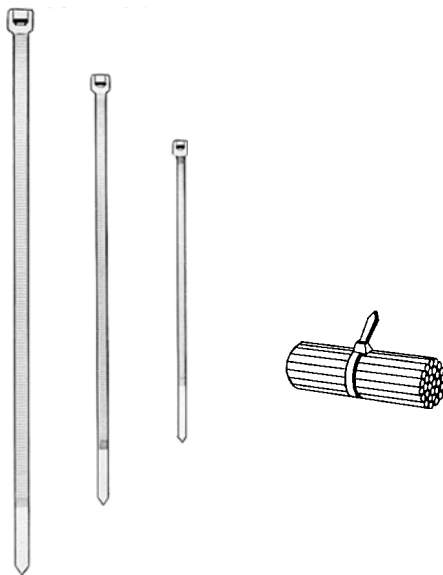
Self-service box

Material: polyamid 6.6, non detachable.

Flammability class: UL 94 V2.

Other characteristics: free of halogen, free of silicone.

Temperature stability: -40 °C to +85 °C.



Part no.	Pk.	Colour	Size mm	For cable loom up to
8HL 707 877-002	100	natural	100 x 2.5	22 mm dia.
8HL 717 962-001	100	black		
8HL 707 877-012	100	natural	140 x 3.6	33 mm dia.
8HL 717 962-011	100	black		
8HL 707 877-081	100	natural	160 x 4.8	36 mm dia.
8HL 717 962-161	100	black		
8HL 707 877-022	100	natural	195 x 4.7	48 mm dia.
8HL 717 962-021	100	black		
8HL 707 877-121	100	natural	200 x 2.5	49 mm dia.
8HL 717 962-131	100	black		
8HL 717 962-061	100	black	200 x 7.6	50 mm dia.
8HL 707 877-091	100	natural	200 x 3.6	55 mm dia.
8HL 717 962-171	100	black		
8HL 717 962-111	100	black	292 x 7.6	77 mm dia.
8HL 707 877-101	100	natural	292 x 3.6	75 mm dia.
8HL 717 962-141	100	black		
8HL 707 877-041	100	natural	280 x 4.8	70 mm dia.
8HL 717 962-031	100	black		
8HL 707 877-032	100	natural	360 x 4.8	100 mm dia.
8HL 717 962-041	100	black		
8HL 707 877-051	100	natural	368 x 7.6	102 mm dia.
8HL 717 962-051	100	black		
8HL 707 877-141	100	natural	430 x 4.8	120 mm dia.
8HL 717 962-181	100	black		
8HL 707 877-131	100	natural	580 x 13.0	152 mm dia.
8HL 717 962-121	100	black	612 x 9.0	194 mm dia.



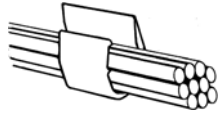
Cable straps with clip

Material: cable straps PA6.6, clip C7SS
 Temperature stability: -40 °C to +140 °C.
 For cable loom: 1 - 45 mm.

Part no.	Pk.	Colour	Size mm	For cable looms:
8HL 185 549-001	100	black	200 x 4.8	0.7 - 3.0 mm
8HL 185 549-011	100	black	200 x 4.8	0.7 - 3.0 mm
8HL 185 549-021	100	black	200 x 4.8	0.7 - 3.0 mm
8HL 185 549-031	100	black	200 x 4.8	0.7 - 3.0 mm
8HL 185 549-041	100	black	200 x 4.8	3.0 - 6.0 mm
8HL 185 549-051	100	black	200 x 4.8	3.0 - 6.0 mm
8HL 185 549-061	100	black	200 x 4.8	3.0 - 6.0 mm
8HL 185 549-071	100	black	200 x 4.8	3.0 - 6.0 mm

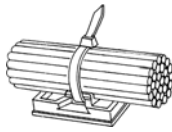
Accessories for plastic cable straps

Self-adhesive, natural coloured cable clip.



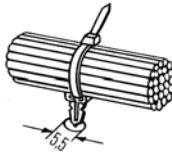
Part no.	Pk.	
8HL 717 964-001	100	For cable looms, up to 7.1 mm dia. Size: 25 x 25 mm.
		Cable clips Self-service box
8HL 717 964-011	100	For cable looms, up to 4.1 mm dia. Size: 16 x 14.7 mm.
		Cable clips Self-service box

Natural coloured self-adhesive plate for attachment of cable looms to flat, smooth, grease-free body parts and wall surfaces. Additional screw fixing with M3 screw also possible. For cable straps up to 5.7 mm width. Size: 27.7 x 27.7 x 5.7 mm.



Part no.	Pk.	
8HL 707 879-012	100	Self-adhesive plates Self-service box

Natural coloured expanding clip for attaching cable looms to body parts and wall surfaces up to 3.5 mm thick. (Hole 6 mm dia.). For cable straps up to 4.8 mm width.



Part no.	Pk.	
8HL 707 878-002	100	Expanding clips Self-service box



Twist-lock cable ties for leads

Material: PA 6/6.

Part no.	Pk.	
8HL 177 884-002	100	Twist-lock cable ties Diameter: 11.2 mm Bundle diameter: 10.2 mm
8HL 177 884-012	100	Diameter: 15.0 mm Bundle diameter: 14.0 mm
8HL 177 884-022	100	Diameter: 19.5 mm Bundle diameter: 19.0 mm

Plastic insulating tapes

Soft PVC, adhesive on one side.

Characteristics:

- high adhesive strength, soft and smooth, self-extinguishing, lead-free, easy to process.
- Complies with VDE, ÖVE and SEV according to type approval IEC 60454-3-1-10/F-PVCp/105.
- Tape width: 15 mm. Tape thickness: 0.15 mm.
- Temperature stability: -10 °C to +105 °C.
- Tensile strength: approx. 20.0 N/cm.
- Elongation at tear: approx. 190%.
- Adhesive strength on steel: 1.8 N/cm.
- Dielectric strength: 40 KV/MM.



Part no.	Pk.		
9MJ 707 869-852	2	Plastic insulating tape, 10 m long, in Pro-fit pack black	
9MJ 707 874-821	2		red
9MJ 707 869-013	10	Plastic insulating tape, 10 m long, in self-service box	
9MJ 707 870-013	10		black
9MJ 707 871-013	10		white
9MJ 707 873-013	10		yellow
9MJ 707 874-013	10		grey
9MJ 707 875-013	10		red
9MJ 186 375-003	10	Plastic insulating tape, 25 m long, in self-service box	
			black
9MJ 707 869-003	10	Plastic insulating tape, 4.5 m long, in self-service box	
9MJ 707 872-003	10		black
9MJ 707 875-003	10		green
			blue

Self-bonding tape

For repairing damaged cables.

Tape width 19 mm. Tape thickness: 1.0 mm.

Tensile strength: > 5.0 N/cm.

Elongation at tear: approx. 55 %.

Dielectric strength: 12 KV/MM.

Temperature stability: -40 °C to +105 °C.



Part no.	Pk.	
9MJ 735 430-001	1	Self-bonding tape, 5 m long, in Pro-fit pack



Plastic insulating tapes

Adhesive on one side.

Flammability classification A in accordance with LV 312.

Tape width 19 mm. Tape thickness: 0.17 mm.

Stain-resistant. Self-service box.

Part no.	Pk.	
9MJ 176 267-001	1	Plastic insulating tape, made of polyester fabric, black with rattle and abrasion protection. Temperature stability: -40 °C to +125 °C. Tape thickness: 0.3 mm. 25 m long
9MJ 176 270-001	1	made of polyester fabric, black, self-extinguishing. Temperature stability: -20 °C to +105 °C. Tape thickness: 0.3 mm. 20 m long
9MJ 176 269-001	1	25 m long
9MJ 176 271-001	1	made of PVC, black. Temperature stability: -40 °C to +125 °C. Tape thickness: 0.15 mm. 33 m long
9MJ 186 375-011	1	made of PE, silver. Temperature stability: -40 °C to +80 °C. Tape thickness: 0.18 mm. 50 m long

Thread sealing tape

For sealing screw connections.

Dimensions: 12 m x 12 mm x 0.1 mm.

Part no.	Pk.	
9XX 734 570-001	10	Thread sealing tape, white Supplied in shrink packs

9MJ 178 458-801

Heat-shrink tubing assortment

Case with various heat-shrink tubings.
(reorder quantity is the same as the quantity in the set).



Part no. spare parts	Piece	Colors	Length mm	Dia. mm
9MJ 178 458-002	20 each of	red, yellow, blue	50	2.4
9MJ 178 458-012	30 each of	black, transparent		2.4
9MJ 178 458-022	20 each of	red, yellow, blue		3.2
9MJ 178 458-032	30 each of	black, transparent		3.2
9MJ 178 458-042	20 each of	red, yellow, blue		4.8
9MJ 178 458-052	20 each of	black, transparent		4.8
9MJ 178 458-062	20 each of	red, yellow, blue		6.4
9MJ 178 458-072	30 each of	black, transparent	6.4	
9MJ 178 458-082	4 each of	black, transparent, red, yellow, blue	100	9.5
9MJ 178 458-092	4 each of	black, transparent, red, yellow, blue		12.5
9MJ 178 458-102	10 each of	black, transparent		19.1
9MJ 178 458-112	5 each of	black, transparent, red, yellow, blue	200	9.5
9MJ 178 458-122	5 each of 5 each of	black black		19.1 24.5

Heat-shrink tubing

Shipped in box, with roll.

For bundling and the protection of leads.
Self-extinguishing: UL 224 VW-1, halogenated.
Temperature stability: -55 °C to +125 °C (Long-term loading: max. 100 °C).
Shrinking factor: 2:1. Minimum shrinking temperature: 70 °C.
Voltage-resistant: Up to 600V.



Part no.	Pk.	Colour	Length	Diameter
9MJ 007 825-071	1	black	4.0 m	25.4 mm
9MJ 007 825-041	1	black	5.0 m	19.1 mm
9MJ 007 825-021	1	black	6.5 m	9.5 mm
9MJ 007 825-051	1	black	6.5 m	12.7 mm
9MJ 007 825-031	1	black	7.5 m	6.4 mm
9MJ 007 825-001	1	black	9.5 m	4.8 mm
9MJ 007 825-011	1	black	11.5 m	3.2 mm
9MJ 007 825-061	1	black	12.5 m	2.4 mm

Shipped in polyester bag, without roll.

For bundling and the protection of leads.
With adhesive, absolutely water-proof.
Self-extinguishing: SAE-AMS-DTL-23053, halogenated.
Temperature stability: -55 °C to +125 °C
(Long-term loading: max. 100 °C).
Shrinking factor: 3:1.
Minimum shrinking temperature: 70 °C.
Voltage-resistant: up to 600V.



9MJ 008 039-001	20	black	30 cm	3.0 mm
9MJ 008 039-011	16	black	30 cm	4.8 mm
9MJ 008 039-021	13	black	30 cm	6.0 mm
9MJ 008 039-031	1	black	30 cm	9.0 mm
9MJ 008 039-041	9	black	30 cm	12.0 mm
9MJ 008 039-051	7	black	30 cm	19.0 mm
9MJ 008 039-061	5	black	30 cm	24.0 mm

Spiral hoses

Black, UV-resistant.
For bundling leads, wires, hoses, etc.
With high flexibility all cables
lead into and out anywhere.



Part no.	Pk.	Inside diameter	Outside diameter	Helical width	Bundle range
8JR 178 587-002	10	4.0 mm	5.0 mm	7.0 mm	10 - 50 mm
8JR 178 587-012	10	9.0 mm	10.5 mm	13.9 mm	20 - 65 mm
8JR 178 587-022	10	15.0 mm	17.0 mm	18.2 mm	25 - 100 mm
8JR 178 587-032	10	20.0 mm	23.0 mm	19.6 mm	30 - 130 mm

Hose clips Herkules S

Stainless steel tape and housing, galvanised steel screw.



Part no.	Pk.	Tape width mm	Clamping range mm	Package
8HK 713 394-001	100	5	7 - 11	Folding box
8HK 710 701-111	50	9	8 - 16	Sliding magazine
8HK 710 701-121	50	9	12 - 20	Sliding magazine
8HK 710 701-131	50	9	16 - 25	Sliding magazine
8HK 710 701-141	50	9	20 - 32	Sliding magazine
8HK 710 701-151	25	9	25 - 40	Sliding magazine
8HK 710 701-161	25	9	32 - 50	Sliding magazine
8HK 713 820-001	100	9	8 - 16	Folding box
8HK 713 820-011	100	9	12 - 20	Folding box
8HK 713 820-021	100	9	16 - 25	Folding box
8HK 713 820-031	100	9	20 - 32	Folding box
8HK 713 820-041	100	9	25 - 40	Folding box
8HK 713 820-051	50	9	32 - 50	Folding box
8HK 713 820-061	50	9	40 - 60	Folding box
8HK 713 820-071	50	9	50 - 70	Folding box
8HK 713 820-081	25	9	60 - 80	Folding box
8HK 713 820-091	25	9	70 - 90	Folding box
8HK 713 820-101	25	9	80 - 100	Folding box
8HK 748 453-102	20	12	16 - 27	Folding box
8HK 748 453-112	20	12	20 - 32	Folding box
8HK 748 453-132	10	12	35 - 50	Folding box
8HK 748 453-142	10	12	40 - 60	Folding box
8HK 748 453-152	10	12	50 - 70	Folding box
8HK 748 453-162	10	12	60 - 80	Folding box
8HK 748 453-192	10	12	90 - 110	Folding box

All parts produced completely of galvanised steel.



8HK 748 452-002	100	9	8 - 12	Folding box
8HK 748 452-012	100	9	10 - 16	Folding box
8HK 748 452-022	100	9	10 - 22	Folding box
8HK 748 452-032	100	9	16 - 27	Folding box
8HK 748 452-042	100	9	20 - 32	Folding box
8HK 748 452-052	100	9	25 - 40	Folding box
8HK 748 452-062	50	9	32 - 50	Folding box
8HK 748 452-072	25	9	50 - 70	Folding box
8HK 748 452-082	25	9	60 - 80	Folding box
8HK 748 452-092	25	9	70 - 90	Folding box
8HK 748 452-102	25	9	70 - 100	Folding box
8HK 710 702-101	20	12	16 - 25	Folding box
8HK 710 702-111	20	12	20 - 32	Folding box
8HK 710 702-131	20	12	32 - 50	Folding box
8HK 710 702-141	20	12	40 - 60	Folding box
8HK 710 702-151	20	12	50 - 70	Folding box
8HK 710 702-161	20	12	60 - 80	Folding box
8HK 710 702-191	20	12	90 - 110	Folding box

Spring band clamps FBS / FBS-R

Band material: C 75 S.

Coating contains zinc - chromium VI-free.

Temperature range: - 40 °C to +200 °C

Optimal protection against corrosion.

Dynamic.

FBS R = Space-saving version

Lower profile.

Space-saving.

To assemble the spring band clamps a speciality tool is needed.

Available on request.



Part no.	Pk.	Tape width mm	Nominal dia. mm
8HK 187 828-131	100	12	13
8HK 187 828-141	100	12	14 R
8HK 187 828-151	100	12	15
8HK 187 828-161	100	12	16 R
8HK 187 828-171	100	12	17
8HK 187 828-181	100	12	18
8HK 187 828-191	100	12	19 R
8HK 187 828-201	50	12	20
8HK 187 828-211	50	12	21
8HK 187 828-221	50	12	22
8HK 187 828-231	50	12	23
8HK 187 828-241	50	12	24
8HK 187 828-251	50	12	25
8HK 187 828-261	50	12	26
8HK 187 828-271	50	12	27
8HK 187 828-281	50	12	28
8HK 187 828-291	50	12	29
8HK 187 828-301	25	12	30
8HK 187 828-321	25	12	32 R
8HK 187 828-351	25	12	35
8HK 187 828-361	25	12	36
8HK 187 828-381	25	12	38
8HK 187 828-401	25	12	40 R
8HK 187 828-421	25	12	42
8HK 187 828-441	25	12	44
8HK 187 828-461	25	12	46
8HK 187 828-471	25	12	47
8HK 187 828-501	10	12	50
8HK 187 828-531	10	12	53
8HK 187 828-551	10	12	55
8HK 187 828-601	10	12	60
8HK 187 828-651	10	12	65
8HK 187 828-701	10	12	70
8HK 187 828-751	10	12	75
8HK 187 828-801	10	12	80

Pipe clamps

With rubber profile. Strip made of galvanized steel.
Additional supporting discs in the area of the fastening holes made of galvanized steel.



Part no.	Pk.	Tape width mm	Inside mm dia.
8HS 749 192-002	100	12	6
8HS 749 192-012	100	12	8
8HS 749 192-022	100	12	10
8HS 749 192-032	100	12	12
8HS 749 192-042	100	12	13
8HS 749 192-052	100	12	14
8HS 749 192-062	100	12	16
8HS 749 192-072	100	12	18
8HS 749 192-082	100	12	19
8HS 749 192-092	100	12	20
8HS 749 193-002	100	15	6
8HS 749 193-012	100	15	8
8HS 749 193-022	100	15	10
8HS 749 193-032	100	15	12
8HS 749 193-042	100	15	15
8HS 749 193-052	100	15	18
8HS 749 193-062	100	15	20
8HS 749 193-072	100	15	23
8HS 749 193-082	100	15	25
8HS 749 193-092	100	15	26
8HS 749 194-002	50	20	18
8HS 749 194-012	50	20	20
8HS 749 194-022	50	20	25

Chassis cable clips

Hardened spring steel, galvanized.



Part no.	Pk.	
8HS 071 414-001	100	For chassis frame thickness 3 - 6 mm. Length clamping arms: 21 mm. Chassis cable clip, 43 mm long Self-service box
		For chassis frame thickness 3 - 7 mm. Length of clamping arms: 31.5 mm. Chassis cable clip, 52.5 mm long Self-service box
8HS 071 415-001	100	

Universal cigarette lighter

Compact flush-fit version for at least 10.000 lights.
With green dowel sleeve.
Type of connection: blade connectors 6.3 mm.
Mounting aperture: 28 mm dia. For dashboards up to 2.5 mm.



Part no.	Pk.	
8EZ 008 021-001	1	Cigarette lighter, illuminated, (12V power connection/ loading capacity when used as socket: max. 10A)
8EZ 008 021-011	1	Cigarette lighter, illuminated, (24V power connection/ loading capacity when used as socket: max. 5A)

Compact flush-fit version for at least 10.000 lights.
With annular spring mount.
Type of connection: blade connectors 6.3 mm.
Mounting aperture: 23.5 mm dia. For dashboards up to 2.5 mm.



Part no.	Pk.	
8EZ 008 022-001	1	Cigarette lighter, not illuminated, (12V power connection/ loading capacity as socket: max. 10A)
8EZ 008 022-011	1	Cigarette lighter, not illuminated, (24V power connection/ loading capacity as socket: max. 5A)



Universal cigarette lighter

SAE Standard.

Compact flush-fit version for at least 10.000 lights.
 Type of connection: blade connector 6.3 mm.
 With dowel sleeve.
 Mounting aperture: 28.0 mm dia. For dashboards up to 2.0 mm.

Part no.	Pk.	
8EZ 008 022-001	1	Cigarette lighter, illuminated, with 12V bulb
8EZ 008 021-021	1	with 24V bulb



SAE Standard.

Compact flush-fit version for at least 10.000 lights.
 Type of connection: blade connector 6.3 mm.
 Fastened by means of hexagon nut.
 Mounting aperture: 28.0 mm dia. For dashboards up to 2.0 mm.

Part no.	Pk.	
8EZ 008 021-041	1	Cigarette lighter, not illuminated, 12V
8EZ 008 021-051	1	24V

Power sockets

Max. load: 15A at 24V.

Compact flush-fit version for operation of auxiliary equipment in cars, trucks, campers and boats.
 Type of connection: blade connectors 6.3 mm.
 Mounting aperture: 28 mm dia. For dashboards up to 2.5 mm.



Part no.	Pk.	
8JB 008 023-011	1	Power socket with green dowel sleeve, cover and 12V bulb
8GA 007 997-011	1	Spare parts: Bulbs with plastic caps, 12V1.2W
8GA 007 997-021	1	24V1W
8JB 008 023-001	1	Power socket with green threaded sleeve and cover, without illumination, 24V

SAE Standard.

Max. load:
20A at a cable cross-section of 2.5 sq. mm,
15A at a cable cross-section of 1.5 sq. mm.
 Type of connection: blade terminal contact 6.3 mm.
 Mounting aperture: 28.0 mm dia.
 Inside: 21.0 mm dia.



Part no.	Pk.	
8JB 008 023-021	1	Power socket with red dowel sleeve and 12V bulb
8JB 008 023-031	1	with red dowel sleeve and 24V bulb
8JB 008 023-041	1	with green dowel sleeve and 24V bulb
8JB 008 023-051	1	with hexagon nut, 12V/24V, without illumination
8JB 008 023-067	160	with black threaded sleeve, 12V/24V, without illumination

Standard sockets (ISO 4165)

Compact light alloy flush-fit socket.

Max. load: 8A at 24V.

Mounting aperture: 18.5 mm dia.

For dashboards up to 7 mm.

Compatible with 8HG 006 294-101 push-on pipe with stopper.



Part no.	Pk.	
8JB 001 946-031	10	Socket without cover, earthing via housing, with 1 screw contact,
8JB 001 946-041	10	earthing via housing, with additional earth plug, and 2 blade terminal contacts 6.3 mm
8JB 001 946-021 8JB 001 946-022	10 1	with cover, earthing via housing, with 1 screw contact Pro-fit pack
8JB 001 946-011	1	earthing via housing, with 1 blade terminal contact 6.3 mm
8JB 001 946-051	10	earthing via housing, with additional earth plug, and 2 blade terminal contacts 6.3 mm

Standard sockets (ISO 4165)

Compact plastic flush-fit socket.

Max. load: 16A at 24V.

T-plug connection to prevent polarity mix-ups, recommended plug sleeve housing 8JD 008 151-021 (Pk. 10), recommended blade terminal sleeves 8KW 701 235-033 (Pk. 100). Mounting aperture: 18.5 mm dia. For dashboards up to 7 mm.



Part no.	Pk.	
8JB 001 946-072	10	Socket without cover, with 2 blade terminal contacts 6.3 mm
8JB 001 946-082	10	with snap cover (without catch feature) and 2 blade terminal contacts 6.3 mm
8JB 001 946-092	10	with arresting cover, (the cover remains in place when opened, the catch is released for insertion so that the cover automatically closes when the plug is removed). 2 blade terminal contacts 6.3 mm
8JB 001 946-101	10	Type of protection: IP67 / IP69 K. Temperature stability: -40 °C to +105 °C. The socket is excellently suited for use on boats as well as near engines, thanks to its high temperature resistance properties. With loss-protection for cover, 300 mm cable 2.5 sq. mm and 2 blade terminal contacts 6.3 mm

Compact plastic flush-fit socket.

Max. load: 8A at 24V.

Mounting aperture: 18.5 mm dia.
For dashboards up to 7 mm.



Part no.	Pk.	
8JB 004 777-001	10	Socket without cover, with 2 blade terminal contacts 6.3 mm
8JB 004 777-001	5	Pro-fit pack
8JB 004 777-011	5	with 2 screw contacts

Compact plastic flush-fit socket.

Max. load: 8A at 24V.

Mounting aperture: 23 mm dia. with recess for arresting arm.



Part no.	Pk.	
8JB 002 286-021	10	Socket without cover, with 2 blade terminal contacts 6.3 mm, for dashboards up to 3 mm
8JB 002 286-031	10	with cover and 2 blade terminal contacts 6.3 mm, for dashboards up to 2 mm

Standard sockets (ISO 4165)

Plastic surface-fit socket.
Max. load: 16A at 24V.



Part no.	Pk.	
8JB 004 123-001	5	Socket without cover, with 2 screw contacts
8JB 004 123-002	1	Pro-fit pack
8JB 004 123-012	5	waterproof
<hr/>		
8JB 004 123-032	5	with cover and 2 blade terminal contacts 6.3 mm
8JB 004 123-031	1	Pro-fit pack

Plastic surface-fit power socket.

Max. load:
20A at 24V (cable cross-section of 2.5 sq. mm),
15A at 24V (cable cross-section of 1.5 sq. mm).
Inside: 21.0 mm dia.



Part no.	Pk.	
8JB 004 123-042	5	Socket without cover, with 2 blade terminal contacts 6.3 mm
8JB 004 123-051	1	Triple socket without cover

Universal plugs (ISO 4165 and cigarette lighter)

Universal fused plug with positive strain relief.
Max load: 8A at 24V.

With integrated, replaceable 8A fuse and pulling tool.
2 screw contacts to 2.5 sq. mm.



Part no.	Pk.	
8JA 007 589-001	10	Plug
8JA 007 589-002	1	Pro-fit pack
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8JA 007 589-032	10	with LED and screwed strain relief
8JA 007 589-031	1	Pro-fit pack

Universal plug with screwed strain relief.

Without fuse, with pulling tool.
2 screw contacts to 2.5 sq. mm.



Part no.	Pk.	
8JA 007 589-011	10	Plug max. load: 8A at 24V
8JA 007 589-021	10	max. load: 16A at 24V

Universal plugs (ISO 4165 and cigarette lighter)

Max. load: 8A at 24V

Without fuse.

Type of connection: 2 screw contacts up to 2.5 sq. mm.



Part no.	Pk.	
8JA 002 252-103	12	Plug with opening for cable entry 5 x 3 mm
8JA 002 252-101	1	
8JA 001 921-102	12	with opening for cable entry 8 mm dia
8JA 007 158-003	1	with positive strain relief and opening for cable entry 5 x 3 mm
8JA 004 667-001	10	with opening for cable entry 8 mm dia

Pivoting universal plug with screwed strain relief.

Max load: 8A at 24V.

With integrated, replaceable 8A fuse.

Swivels infinitely 180 degrees with sufficient space for electronic circuitry (Dimensions for board: 28.5 x 26.5 x 1.5 mm).



Part no.	Pk.	
8JA 007 589-042	8	Plug with two screw contacts up to 2.5 sq. mm
8JA 007 589-041	1	

Pivoting universal safety plug with screwed strain relief and switch.

Max load: 8A at 24V.

With printed-on switch rocker 0-I and integrated, replaceable 8A fuse.

Swivels infinitely 180 degrees.



Part no.	Pk.	
8JA 007 589-152	8	Plug with two screw contacts up to 2.5 sq. mm

Universal right angle plug with screwed strain relief.

Max. load: 7.5A at 24V.

With integrated, replaceable 7.5 ATO blade-type fuse and functional control using LED.

Cable dia. 8 mm.



Part no.	Pk.	
8JA 007 589-052	8	Plug with two screw contacts up to 1.5 sq. mm

Standard plug (ISO 4165)

Without strain relief.

Type of connection: 2 screw contacts CuZn up to 2.5 sq. mm.



Part no.	Pk.	
8JA 002 262-001	10	Plug Max. load: 18A at 24V, with opening for cable entry 9.2 mm dia
8JA 002 262-003	1	Pro-fit pack
8JA 001 915-001	10	with screwed strain relief
<hr/>		
8JA 001 915-022	10	Plug Max. load: 15A at 24V, without strain relief, with opening for cable entry 7.5 mm dia
<hr/>		
8JA 001 915-032	10	Plug Max. load: 8A at 24V, with solder contacts and positive strain relief, with opening for cable entry 6.5 mm dia

Extension cables and adapters (ISO 4165 and cigarette lighter)

Coupling

Max. load: 16A at 24V.

For setting up individual extensions for a power supply to electrical devices and lamps.
2 blade terminals 6.3 mm.



Part no.	Pk.	
8JA 007 589-062	20	Coupling
8JA 007 589-061	1	Pro-fit pack

Extension cable

Max. load: 8A at 24V.

For adapting from standard (ISO 4165) or cigarette lighter sockets to cigarette lighter plugs.
Length: 4.0 m. Cable: 2 x 0.75 sq. mm.
With integrated 8A fuse.



Part no.	Pk.	
8KA 007 589-081	1	Connecting cable with universal fused plug

Helical extension cable

Max. load: 8A at 24V.

For adapting from standard (ISO 4165) or cigarette lighter sockets to cigarette lighter plugs.
Length: 0.6 - 3.0 m. Cable: 2 x 0.75 sq. mm.
With integrated 8A fuse.



Part no.	Pk.	
8KA 007 589-091	1	Helical extension cable with universal fused plug
8KA 007 589-092	1	Pro-fit pack

Extension cables and adapters (ISO 4165 and cigarette lighter)



Adapter cable

Max. load: 8A at 24V.

For adapting from standard sockets (ISO 4165) to cigarette lighter plugs.
Length: 0.25 m. Cable: 2 x 0.75 sq. mm.
Clutch (inside dia. 21 mm).

Part no.	Pk.	
8KA 007 589-101	1	Adapter cable
8KA 007 589-102	1	Pro-fit pack



Adapter

Max. load: 16A at 12V/24V.

For adapting from standard sockets (ISO 4165) to cigarette lighter plugs.
Clutch (inside dia. 21 mm).

Part no.	Pk.	
8KA 007 589-131	1	Adapter



Adapter cable

Max. load: 8A at 24V.

For adapting from standard (ISO 4165) or cigarette lighter sockets to two standard sockets (ISO 4165).
Length: 0.12 m. Cable: 2 x 0.75 sq. mm.
With integrated 8A fuse.

Part no.	Pk.	
8JB 008 032-001	1	Adapter cable



Twin adapter

Max. load: 2 x 8A at 24V.

For adapting from standard (ISO 4165) or cigarette lighter sockets to two cigarette lighter plugs.
Length: 0.25 m. Cable: 2 x 0.75 sq. mm.
With integrated 8A fuse and two clutches (inside dia. 21 mm).

Part no.	Pk.	
8JA 007 589-111	1	Twin adapter with universal fused plug
8JA 007 589-112	1	Pro-fit pack



Power-twin adapter

Max. load: 16A at 12V/24V.

For adapting from standard (ISO 4165) or cigarette lighter sockets to two cigarette lighter plugs.
Length: 65 mm. Cable: 2 x 1.5 sq. mm.

Part no.	Pk.	
8JA 007 589-141	1	Twin adapter with universal plug and 2 clutches (inside dia. 21 mm)



Battery monitor

Max. load: 8A at 12V.

Protects the battery from exhaustive discharge by switching off consumers e.g. cool boxes, seat heating, fans and other mobile 12V devices in good time in the event of undervoltage.
Automatic switch-on when operating voltage is restored.
Length: 1.0 m. Cable: 2 x 0.75 sq. mm.
For adapting from standard (ISO 4165) or cigarette lighter sockets to cigarette lighter plugs.
LED function control and short-circuit protection.
Switch-on voltage: 12.3V. Switch-off voltage: 11.0V.

Part no.	Pk.	
8ES 007 589-121	1	Battery monitor

2-pole sockets and plugs (DIN 14 690)

Socket, light metal with screw-on cap, form A.
Max. load: 16A at 42V.

Gasket in screw-on cover.
 2 screw contacts.
 Temperature stability: -40 °C to +100 °C.



Part no.	Pk.	
8JB 002 281-001	1	2-pole socket
8JB 002 281-002	1	Pro-fit pack
Accessories:		
9GD 735 641-032	1	Rubber base for cables with dia. of 6 - 8 mm

Coupling socket with light alloy screw-on cover, Shape B.
Max. load: 16A at 42V.

Gasket in screw-on cover.
 With protective cable grommet for cable with dia. of 6 - 12 mm
 and screw-type strain relief. 2 screw contacts.



Part no.	Pk.	
8JB 002 281-011	1	Coupling socket

Plug, light metal, form C.
Max. load: 16A at 42V.

With union nut and protective cable grommet for cable with dia. of 6 - 12 mm.
 2 screw contacts.
 Temperature stability: -40 °C to +100 °C.



Part no.	Pk.	
8JA 001 925-001	1	2-pole plug
Spare parts:		
9MK 748 467-001	10	Contact insert

Sockets and plugs for special applications

Plug, metal, with black rubber cover.
Max. load: 300A at 24V.

With 2 crimp contacts for cable dia. 50 sq. mm.



Part no.	Pk.	
8JB 010 806-001	1	2-pole plug

Spirally-coiled cable

Max. load: 300A at 24V.

With 2 plugs. (VG 96 917).
 Lead dia. 2 x 35 sq. mm.
 Stretched length: 4.0 m.
 Temperature stability: -40 °C to +85 °C.



Part no.	Pk.	
8KA 010 807-001	1	2-pole spirally-coiled cable

Sockets and plugs for special applications



2-pole socket, light alloy with green cover (ISO 4165 / VGV 96 921).
Max. load: 8A at 24V.

Compact flush-fit version.
 Cover colour: RAL 6031. Mounting aperture: 18.5 mm dia.
 For dashboards up to 7 mm.
 1 screw contact. Earth on housing.

Part no.	Pk.	
8JB 001 946-001	10	2-pole socket



2-pole socket (VG 96 917 Shape A).
Max. load: 300A at 24V.

Aluminium body,
 Seal in the screw-on cover,
 additional sealing ring between thread and screw-type cover.
 2 crimped/solder connections CuZn, silver plated.
 Type of protection IPX4 when connected.
 Temperature stability: -40 °C to +85 °C.

Part no.	Pk.	
8JB 001 935-031	1	2-pole socket, with green screw-on cap, for conductors up to 50 sq. mm
8JB 001 935-051	1	
Spare parts:		
9MK 748 466-011	10	Crimp contacts, 50 sq. mm
9MK 748 466-021	10	35 sq. mm



2-pole socket (VG 96 917 Shape A).
Max. load: 300A at 24V.

Black plastic body with black rubber cover.
 2 crimp/solder pin contacts.
 Type of protection IPX4,
 with closed cover.

Part no.	Pk.	
8JB 001 935-041	1	2-pole socket, with rubber cover, for conductors up to 35 sq. mm
Spare parts:		
9MK 748 466-021	10	Crimp contacts, 35 sq. mm



2-pole plug (VG 96 917 Shape E).
Max. load: 300A at 24V.

2 crimp/solder pin contacts for conductors up to 35 sq. mm.
 Temperature stability: -40 °C to +85 °C.

Part no.	Pk.	
8JA 001 931-041	1	2-pole plug, with black metal body
8JA 001 931-081	1	
Spare parts:		
9MK 748 466-021	10	Crimp contacts, 35 sq. mm

Sockets and plugs for special applications

2-pole plug (VG 96 917 Shape E).

Max. load: 300A at 24V.

Black metal body.

2 crimp/solder pin contacts.

Type of protection: IP54 when connected.

Temperature stability: -40 °C to +85 °C.



Part no.	Pk.	
8JA 001 931-051	1	2-pole plug, with green screw-on ring, for conductors up to 35 sq. mm
8JA 001 931-071	1	with green screw-on ring, for conductors up to 50 sq. mm
8JA 001 931-061	1	with black screw-on ring, for conductors up to 50 sq. mm
Spare parts:		
9MK 748 465-011	10	Crimp contacts, 50 sq. mm
9MK 748 466-021	10	35 sq. mm

12-pole socket, with green cover (VG 96 923 A-12 S).

Max. load: 15A at 24V.

With thread and screw-on cap.

For cable diameters: 18 - 23.5 mm.

Compatible cross-sections 12 x 1.5 sq. mm.

Temperature stability: -40 °C to +85 °C.

12 solder contact sleeves CuZn, silver-plated.

Type of protection: IP68.



Part no.	Pk.	
8JB 001 934-021	1	12-pole socket

12-pole plug, with green cover (VG 96 923).

Max. load: 15A at 24V.

For cable diameters: 14 mm.

Compatible cross-sections 12 x 1.5 sq. mm

for leads up to 24 sq. mm.

Operating temperature: -40 °C to +85 °C.

Type of protection: IP54 when connected.



Part no.	Pk.	
8JA 002 264-051	1	12-pole plug with 12 solder pin contacts
8JA 002 264-061	1	with 12 solder bush contacts

3-pole sockets and plugs

For agricultural machines and tractors.

Socket, made of black plastic (DIN 9680).

Max. load:

16A at 24V (lead size 1.5 sq. mm),

25A at 24V (lead size 2.5 sq. mm).

Mounting aperture: 26 mm dia.

4 x 6.3 mm / 1 x 4.8 mm blade terminal contacts.



Part no.	Pk.	
8JB 001 933-011	10	3-pole socket with grommet
8JB 001 933-042	10	with screw cap
9MK 180 175-001	20	Accessories: Sockets

Plug, made of black plastic (DIN 9680).

Max. load:

16A at 24V (lead size 1.5 sq. mm),

25A at 24V (lead size 2.5 sq. mm).

With rubber grommet for cable dia. 8 - 13 mm.

4 x 6.3 mm / 1 x 4.8 mm blade terminal contacts.



Part no.	Pk.	
8JA 002 263-011	10	3-pole plug

Socket, made of black plastic.

Max. load:

16A at 24V (lead size 1.5 sq. mm),

25A at 24V (lead size 2.5 sq. mm).

With rubber gasket in lid.

Base dia. 65 mm (round housing).

3 screw contacts.

Temperature stability: -40 °C to +80 °C.



Part no.	Pk.	
8JB 001 933-031	1	3-pole socket
9GD 735 641-032	10	Accessories: Rubber base for cables with dia. of 6 - 8 mm

Plug, made of black plastic.

Max. load:

16A at 24V (lead size 1.5 sq. mm),

25A at 24V (lead size 2.5 sq. mm).

For cable dia. 6.3 - 8.3 mm. 3 screw contacts.

Temperature stability: -40 °C to +80 °C.



Part no.	Pk.	
8JA 002 263-031	1	3-pole plug, with union nut and rubber grommet
8JA 002 263-001	1	without union nut, with cable protection grommet

4-pole sockets and plugs (DIN 72 575)



Socket, made of black plastic.

Max. load:

16A at 24V (lead size 1.5 sq. mm),

25A at 24V (lead size 2.5 sq. mm).

With rubber gasket in lid.

90 degree cable exit for cable dia. 7.2 - 9.0 mm.

4 screw contacts CuZn. Type of protection: IP5K.

Temperature stability: -40 °C to +80 °C.

Part no.	Pk.	
8JB 001 944-011	1	4-pole socket



Plug, made of black plastic.

Max. load:

16A at 24V (lead size 1.5 sq. mm),

25A at 24V (lead size 2.5 sq. mm).

With strain relief, for cable dia. 5 - 9 mm.

4 screw contacts. Type of protection: IP5K.

Temperature stability: -40 °C to +80 °C.

Part no.	Pk.	
8JA 001 920-011	1	4-pole plug

5-pole sockets and plugs (ISO 1724)



Socket with lid, solid metal.

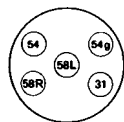
Max. load:

16A at 12V (lead size 1.5 sq. mm),

25A at 12V (lead size 2.5 sq. mm).

Base dia. 72 mm.

5 screw contacts.



Part no.	Pk.	
8JB 001 940-001	1	5-pole socket



Plug, solid metal.

Max. load:

16A at 12V (lead size 1.5 sq. mm),

25A at 12V (lead size 2.5 sq. mm).

With strain relief and grommet for cable up to 8 mm dia.

5 screw contacts.

Part no.	Pk.	
8JA 001 916-001	1	5-pole plug

7-pole sockets and plugs, 12V "N" (ISO 1724)

Socket: middle contact 7/58L with contact pin.

Plug: contact 7/58L with contact bush.

Max. load:

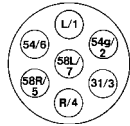
16A at 12V (lead size 1.5 sq. mm),

25A at 12V (lead size 2.5 sq. mm).

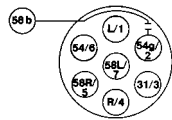
Temperature stability: -25 °C to +70 °C.

7-pole sockets and plugs, 12V "N" (ISO 1724)

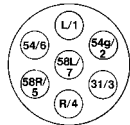
Socket with lid, solid metal.



Part no.	Pk.	
8JB 001 941-002	25	7-pole socket, with 7 screw contacts 6.3 mm
8JB 001 941-001	1	Pro-fit pack
8JB 001 941-041	20	7-pole socket, with 7 blade terminal contacts 6.3 mm
9GD 735 641-051	10	Accessories: Rubber grommet with 180° outlet for -041
8JB 001 941-062	20	7-pole socket, with disconnecting contact for rear fog light on motor vehicle. With additional rubber gasket, 7 nickel-plated screw contacts with additional screw contact

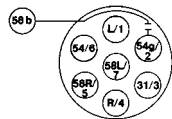


Socket with lid, made of black plastic.



Part no.	Pk.	
8JB 001 943-003	25	7-pole socket, with 7 screw contacts
8JB 001 943-001	1	Pro-fit pack
8JB 006 462-001	25	with 7 blade terminal contacts 6.3 mm
9GD 735 641-051	10	Accessories: Rubber grommet with 180° outlet for 8JB 006 462-001

Socket with lid, made of black plastic.



Part no.	Pk.	
8JB 001 943-011	25	7-pole socket, with disconnecting contact for rear fog light on motor vehicle. 7 screw contacts, with additional screw contact
9GD 735 641-001	10	Accessories: Rubber grommet for cable dia. 8 - 11 mm
9GD 735 641-042	10	with side outlet for cable dia. 8 - 11 mm



7-pole sockets and plugs, 12V "N" (ISO 1724)

Plug, solid metal.

With strain relief and grommet.



Part no.	Pk.	
8JA 001 918-002	25	7-pole plug, with 7 screw contacts
8JA 001 918-011	20	with 7 blade terminal contacts 6.3 mm
8JA 001 918-021	25	with 7 blade terminal contacts 6.3 mm, solid metal

Plug, made of black plastic.

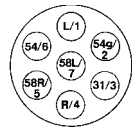
With strain relief and grommet.



Part no.	Pk.	
8JA 001 930-003	25	7-pole plug, with 7 screw contacts
8JA 001 930-001	1	Pro-fit pack
8JA 001 930-041	25	with 7 blade terminal contacts 6.3 mm
8JA 001 930-021	25	with 7 blade terminal contacts, solid metal.

Coupling socket with lid, made of black plastic.

With strain relief, suspension device and rubber grommet for 7-core extension cable. 7 screw contacts.



Part no.	Pk.	
8JB 001 939-001	25	7-pole plug,

Plug, made of black plastic.

Folding version with strain relief, contact set and union nut included separately. 7 screw contacts



Part no.	Pk.	
8JA 005 476-001	100	7-pole plug,
8JA 005 476-002	5	

Pin assignments for standard plug connectors in conformance with ISO 1724, 12V, 7-pin N

Contact-No.	Function	Cable cross-section	Colour of insulation
1 / L	Flasher light, left	1.5 sq. mm	yellow
2 / 54g	Rear fog light	1.5 sq. mm	blue
3 / 31	Earth	2.5 sq. mm	white
4 / R	Flasher light, right	1.5 sq. mm	green
5 / 58R	Tail-, end-outline-marker-, position and numberplate light, right *)	1.5 sq. mm	brown
6 / 54	Brake light	1.5 sq. mm	red
7 / 58L	Tail-, end-outline-marker-, position and numberplate light, left *)	1.5 sq. mm	black

*) The number plate illumination must be connected so that none of the bulbs in this device are connected to contacts 5 or 7.

7-pole sockets and plugs, 12V "S" (ISO 3732)

Socket: middle contact 7/58L with contact bush.

Plug: contact 7/58L with contact pin.

Max. load:

16A at 12V (lead size 1.5 sq. mm),

25A at 12V (lead size 2.5 sq. mm).

Temperature stability: -25 °C to +70 °C.

7-pole sockets and plugs, 12V "S" (ISO 3732)

Socket, made of black plastic with light grey lid.

Removable contact set.

7 screw contacts.



Part no.	Pk.	
8JB 001 943-041	25	7-pole socket
Accessories:		
9GD 735 641-001	10	Rubber grommet for cable dia. 8 - 11 mm
9GD 735 641-042	10	with side outlet for cable dia. 8 - 11 mm

Plug, made of light grey plastic.

With strain relief and grommet.

7 screw contacts.



Part no.	Pk.	
8JA 001 930-031	25	7-pole plug

Coupling socket, made of black plastic with light grey lid.

With strain relief, suspension device and rubber grommet for 7-core extension cable.

7 screw contacts.



Part no.	Pk.	
8JB 006 464-001	10	7-pole socket

Pin assignments for auxiliary plug connectors in conformance with ISO 3732, 12V, 7-pin S

Contact-No.	Function	Cable cross-section	Colour of insulation
1	Reversing light *)	1.5 sq. mm	yellow
2	Reserved for future applications	no specified	no conductor or blue
3	Earth for circuit for contact no. 4	2.5 sq. mm	white
4	Power supply (continuous positive)	2.5 sq. mm	green
5	Reserved for future applications	1.5 sq. mm	brown
6	Power supply over ignition switch	2.5 sq. mm	red
7	Earth for circuit for contact no. 6	2.5 sq. mm	black

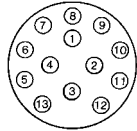
*) The earth for this contact is usually contact No. 3 in the 12V, 7 pin N plug connector in conformance with ISO 1724.

13-pole sockets and plugs, 12V (ISO 11 446)

Max. load:
 16A at 12V (lead size 1.5 sq. mm),
 25A at 12V (lead size 2.5 sq. mm).
 Temperature stability: -40 °C to +85 °C.

13-pole sockets and plugs, 12V (ISO 11 446)

Socket with lid, made of black plastic.
 Removable contact set.
 Rubber base and rubber gasket in lid.
 13 screw contacts.



Part no.	Pk.	
8JB 005 949-001	1	13-pole socket
8JB 005 949-011	1	with contact for rear fog lamp can be disconnected on motor vehicles and additional screw contact
8JB 005 949-012	1	

Plug, made of black plastic.
 13 screw contacts.



Part no.	Pk.	
8JA 005 951-001	1	13-pole plug With rubber gasket, union nut and bayonet fastening
8JA 005 951-027	16	
8JA 005 951-003	16	
8JA 005 951-041	16	Click-version with parking socket

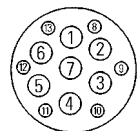
Parking socket with blue lid, made of black plastic.
 Takes the 13-pole plug when trailer is disconnected from the towing vehicle.



Part no.	Pk.	
8HG 005 953-001	1	Parking socket

WeST (world plug system) 7+6-pole, in conformance with NEN 6120

Max. load: 20A at 12V.
 Plug system for the electrical connection of traction vehicles and trailers.
 Can be used for both 7 and 13-pole applications.
 Compatible with standard ISO 1724.
 With microswitch for switching the rear fog light, the parking aid and/or the trailer detection.
 Black plastic version. With rubber seal in the cover.
 13 screw terminals. Temperature stability: -25 °C to +75 °C.



Part no.	Pk.	
8JB 005 949-031	1	7+6-pole socket



**7+6-pole plug
not for use with MULTICON socket.
Compatible with WeSt plugs**

Max. load: 20A at 12V.

Made of black plastic.
With rubber seal and cap nut for a cable 11.5 mm - 14.0 mm dia.
13 screw contacts.

Part no.	Pk.	
8JA 005 951-061	1	7+6-pole socket

Pin assignments for plug connectors in conformance with ISO 11 446, 12V, 13-pin

Contact-No.	Function	Cable cross-section	Colour of insulation
1	Flasher light, left	1.5 sq. mm	yellow
2	Rear fog light	1.5 sq. mm	blue
3 *)	Earth for contact no. 1 - 8	2.5 sq. mm	white
4	Flasher light, right	1.5 sq. mm	green
5	Tail-, end-outline-marker-, position and numberplate light, right (***)	1.5 sq. mm	brown
6	Brake light	1.5 sq. mm	red
7	Tail-, end-outline-marker-, position and numberplate light, left (***)	1.5 sq. mm	black
8	Reversing light	1.5 sq. mm	pink
9	Power supply (continuous positive)	2.5 sq. mm	orange
10	Power supply over ignition switch	2.5 sq. mm	grey
11 *)	Earth for contact no. 10	2.5 sq. mm	white/black
12	Reserved for future applications	no specified	no specified
13 *)	Earth for contact no. 6	2.5 sq. mm	white/red

*) The 3 earth lead must not be connected in the trailer in such a manner that they are electrically conductive.

***) For contact laying in accordance with ISO 11446 the cable cross-section is 2.5 sq. mm.

For assignment in accordance with NEN 6120 the cable cross section is 4.0 sq. mm, in this case care must be taken that a suitable cable end sleeve is used for the connection.

Pin assignments for plug connectors in conformance with NEN 6120, 12V, 7+6-pin

Contact-No.	Function	Cable cross-section	Colour of insulation
1	Flasher light, left	1.5 sq. mm	yellow
2	Rear fog light	1.5 sq. mm	blue
3 *)	Earth for contact no. 1 - 8	2.5 sq. mm	white
4	Flasher light, right	1.5 sq. mm	green
5 **)	Tail-, end-outline-marker-, position and numberplate light, right (***)	1.5 sq. mm	brown
6	Brake light	1.5 sq. mm	red
7 **)	Tail-, end-outline-marker-, position and numberplate light, left (***)	1.5 sq. mm	black
8	Reversing light	1.5 sq. mm	pink
9	Power supply (continuous positive)	2.5 sq. mm	orange
10 ***)	Power supply over ignition switch	4.0 sq. mm	grey
11	Reserved for future applications	2.5 sq. mm	no specified
12 *) ***)	Earth for contact no. 10	4.0 sq. mm	white/black
13 *)	Earth for contact no. 9	2.5 sq. mm	white/red

*) The 3 earth lead must not be connected in the trailer in such a manner that they are electrically conductive.

***) The number plate illumination must be connected so that non of the bulbs in this device is connected to contacts 5 or 7.

****) For contact laying in accordance with ISO 11446 the cable cross-section is 2.5 sq. mm.

For assignment in accordance with NEN 6120 the cable cross-section is 4.0 sq. mm, in this case care must be taken that a suitable cable end sleeve is used for the connection.



Adapter, 12V

Super short adapter

Max. load: 16A at 12V.

Adapter for connecting a 13-pole vehicle socket (DIN ISO 11 446) with a 7-pole trailer plug (DIN ISO 1724).

Round cover in conformance with ISO 11 446

protects against soiling and damage.

Plug-in aid for one-hand operation. Splash-proof in conformance with IP54.

Nickel-plated contacts (corrosion protection and uniform, low plug-in force).

Minimum weight relieves load on 13 pin socket (only 99 g).

Length: 57.0 mm.

Part no.	Pk.	
8JA 008 969-001	1	Super short adapter



Short adapter

Max. load: 16A at 12V.

Adapter for connecting a 13-pole vehicle socket (DIN ISO 11 446) with a 7-pole trailer plug (DIN ISO 1724). Length: 120 mm

Part no.	Pk.	
8JA 005 952-011	1	Short adapter
8JA 005 952-013	1	Pro-fit pack



Adapter

from a 13-pole socket (ISO 11 446) on the towing vehicle to a 13-pole West plug or 7-pole plug (ISO 1724) on the trailer cable.

Length: 106 mm.

Part no.	Pk.	
8JA 005 952-001	1	Short adapter



UK-Short adapter

for connecting a 13-pole vehicle socket (ISO 11 446) with a 2x 7-pole trailer plug (ISO 11 446 und ISO 3732). Length: 89 mm.

Part no.	Pk.	
8JA 179 368-001	1	UK-Short adapter, 12V



Short adapter

from a 13-pole socket (ISO 11 446) on the towing vehicle to a 13-pole West plug or 7-pole plug (ISO 1724) on the trailer cable.

Length: 106 mm.

Part no.	Pk.	
8JA 005 952-091	1	Short adapter



Adapter, 12V

Super short adapter

for connecting a 7-pole vehicle socket (DIN ISO 1724) with a 13-pole trailer plug (DIN ISO 11 446). Length: 57 mm.

Part no.	Pk.	
8JA 008 969-011	1	Super short adapter



Super short adapter

for connecting a 7-pole vehicle socket (DIN ISO 1724) with a 13-pole trailer plug (DIN ISO 11 446). Length: 57 mm.

Part no.	Pk.	
8JA 008 981-001	1	Short adapter



7-pole extension cable, 12V, "N" (ISO 1724 and 6722)

Length: 3 m. Sheathing: PVC.
Lead size: 6 x 1.0 sq. mm and 1 x 1.5 sq. mm.
With 2 plastic plugs.

Part no.	Pk.	
8KA 002 185-061	10	Extension cable



Plug-in tester, 12V

For testing 7-pole 12V sockets (ISO 1724).
LED display.

Part no.	Pk.	
8PD 004 508-001	10	Plug-in tester, 7-pole
8PD 004 509-001	10	with 5 m cable, for function testing from driver's seat, 7-pole, 12V

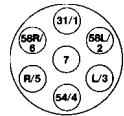


Plug-in tester for testing 13-pole 12V sockets (ISO 11 446).
LED display.

Part no.	Pk.	
8PD 007 216-001	10	Plug-in tester, 13-pole

Plug and socket, 7-pin, 24V, "N" (ISO 1185)

Socket: contact 31 with contact pin.
 Plug: contact 31 with contact bush.
 Max. load:
 15A at 24V (lead size min. 1.5 sq. mm),
 20A at 24V (lead size max. 2.5 sq. mm).
 Temperature stability: -25 °C to +75 °C



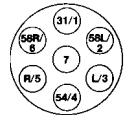
Plug and socket, 7-pin, 24V, "N" (ISO 1185)

Socket, solid metal with lid.
 With rubber gasket in lid and cable protection grommet for cables with diameter of 9.5 - 12.5 mm.

Part no.	Pk.	
8JB 003 833-001	10	7-pole socket, with 7 screw contacts
8JB 003 833-011	10	with 16 blade terminal contacts 6.3 mm (5 double / 2 triple)
8JB 003 833-031	10	with 7 blade terminal contacts 6.3 mm

Socket, made of plastic, with lid.

With rubber gasket in lid and cable protection grommet for cables with diameter of 9.5 - 12.5 mm.



Part no.	Pk.	
8JB 008 085-001	10	7-pole socket, with 7 screw contacts
8JB 008 085-041	10	with 16 blade terminal contacts 6.3 mm (5 double / 2 triple)
8JB 008 085-021	10	with 7 blade terminal contacts 6.3 mm
9GT 735 641-012	10	Accessories: Protection grommet for cables with diameter of 9.5 - 12.5 mm

Plug, solid metal.

With PG-screw connection and cable protection grommet for cables with diameter of 9.2 - 11.5 mm.



Part no.	Pk.	
8JA 003 831-001	10	7-pole socket, with 7 screw contacts
8JA 003 831-011	10	with 7 blade terminal contacts 6.3 mm

Plug, made of plastic.

With screw-on strain relief and cable protection grommet for cables with diameter of 8.0 - 12.0 mm.



Part no.	Pk.	
8JA 008 084-001	10	7-pole socket, with 7 screw contacts
8JA 008 084-021	10	with 7 blade terminal contacts 6.3 mm

Pin assignments for standard plug connectors in conformance with ISO 1185, 24V, 7-pin N

Contact-No.	Function	Cable cross-section	Colour of insulation
1 / 31	Earth	2.5 sq. mm	white
2 / 58L	Tail-, end-outline-marker-, position and numberplate light, left *)	1.5 sq. mm	black
3 / L	Flasher light, left	1.5 sq. mm	yellow
4 / 54	Brake light	1.5 sq. mm	red
5 / R	Flasher light, right	1.5 sq. mm	green
6 / 58R	Tail-, end-outline-marker-, position and numberplate light, right *)	1.5 sq. mm	brown
7 / 54g	Control of trailer brakes	1.5 sq. mm	blue

*) The number plate illumination must be connected so that none of the bulbs in this device are connected to contacts 2 and 6.

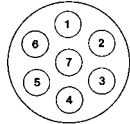
15-pole sockets and plugs, 24V (ISO 12 098) (S Type)

Socket: contact 31 with contact bush. Plug: contact 31 with contact pin.
Max. load:
 15A at 24V (lead size min. 1.5 sq. mm),
 20A at 24V (lead size max. 2.5 sq. mm).
 Temperature stability: -25 °C to +75 °C.

15-pole sockets and plugs, 24V (ISO 12 098) (S Type)

Socket, solid metal with lid.

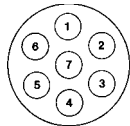
With rubber gasket in lid and cable protection grommet for cables with diameter of 9.5 - 12.5 mm.



Part no.	Pk.	
8JB 003 834-001	10	7-pole socket, with 7 screw contacts
8JB 003 834-021	10	with 16 blade terminal contacts 6.3 mm (5 double / 2 triple)
8JB 003 834-031	10	with 7 blade terminal contacts 6.3 mm

Socket, made of plastic, with lid.

With rubber gasket in lid and cable protection grommet for cables with diameter of 9.5 - 12.5 mm.



Part no.	Pk.	
8JB 008 085-011	10	7-pole socket, with 7 screw contacts
8JB 008 085-051	10	with 16 blade terminal contacts 6.3 mm (5 double / 2 triple)
8JB 008 085-031	10	with 7 blade terminal contacts 6.3 mm
9GT 735 641-012	10	Accessories:
		Protection grommet for cables with diameter of 9.5 - 12.5 mm



Plug, solid metal.

With PG-screw connection cable protection grommet for cables with diameter of 9.5 - 11.5 mm.



Part no.	Pk.	
8JA 003 832-001	10	7-pole socket, with 7 screw contacts
8JA 003 832-011	10	with 7 blade terminal contacts 6.3 mm

Plug, made of plastic.

With rubber gasket in lid and cable protection grommet for cables with diameter of 9.5 - 12.5 mm.



Part no.	Pk.	
8JA 008 084-011	10	7-pole socket, with 7 screw contacts
8JA 008 084-031	10	7-pole socket, with 7 blade terminal contacts 6.3 mm

7-pole sockets and plugs, 24V, "S" for special functions (ISO 3731)

Contact-No.	Function	Cable cross-section	Colour of insulation
1	Earth	2.5 sq. mm	white
2	Reserved for future applications	1.5 sq. mm	black
3	Reversing light	1.5 sq. mm	yellow
4	Power supply (continuous positive)	2.5 sq. mm	red
5	Indicator feature over earth	1.5 sq. mm	green
6	Power supply over ignition switch	2.5 sq. mm	brown
7	Rear fog light	1.5 sq. mm	blue

15-pole sockets and plugs, 24V (ISO 12 098)

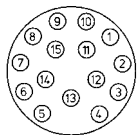
Max. load:
16A at 24V (lead size 1.5 sq. mm),
25A at 24V (lead size 2.5 sq. mm).



15-pole sockets and plugs, 24V (ISO 12 098)

Socket, made of plastic, with lid.
 With rubber gasket and nickel-plated pins.
 Fibre-glass reinforced polyamide housing.
 PG gland for cable exit.
 Mounting aperture 54 mm dia, for cable diameter of 12 - 18 mm.
 Contact pins: 12 each of 1.5 sq. mm + 3 each of 2.5 sq. mm.

Part no.	Pk.	
8JB 007 242-011	1	15-pole socket, with 15 screw contacts
8JB 007 242-021	1	with 15 crimp-/soldering contacts



Plug, made of plastic.
 With rubber gasket and nickel-plated pins.
 Fibre-glass reinforced polyamide housing, mechanical strain relief.
 Secure arrest with non-rusting metal ball, for cable diameter of 12 - 18 mm.
 Contact pins: 12 each of 1.5 sq. mm + 3 each of 2.5 sq. mm.

Part no.	Pk.	
8JA 007 241-021	1	15-pole plug, with 15 screw contacts
8JA 007 241-031	1	with 15 crimp-/soldering contacts
Accessories:		
9MK 726 761-811	1	Crimp-/soldering contact pin set, CuZn/Ni, (12 each of 1.5 sq. mm + 3 each of 2.5 sq. mm) for socket 8JB 007 242-021
9MK 726 758-821	1	Crimp-/soldering contact sleeve set, CuZn/Ni, (12 each of 1.5 sq. mm + 3 each of 2.5 sq. mm) for plug 8JA 007 241-031
8PE 863 807-001	1	Professional crimping tool for crimp contact pins and sleeves with size from 1.5 - 6.0 sq. mm



Parking socket

For 15-pole 24V plugs 8JA 007 241-021/-031.
 Mounting aperture: 54 mm dia.



Part no.	Pk.	
8HG 007 647-001	1	Parking socket

Pin assignments for plug connectors to ISO 12 098, 24V, 15-pin

Contact-No.	Function	Cable cross-section	Colour of insulation
1	Flasher light, left	1.5 sq. mm	yellow
2	Flasher light, right	1.5 sq. mm	green
3	Rear fog light	1.5 sq. mm	blue
4	Earth for contact 1-3 and 5-12	2.5 sq. mm	white
5	Tail-, end-outline-marker-, position and numberplate light, left *)	1.5 sq. mm	black
6	Tail-, end-outline-marker-, position and numberplate light, right *)	1.5 sq. mm	brown
7	Brake light	1.5 sq. mm	red
8	Reversing light	1.5 sq. mm	pink
9	Continuous power supply (+24V)	2.5 sq. mm	orange
10	Sensor for break lining wear indicator	1.5 sq. mm	grey
11	Indicator for spring loaded brake	1.5 sq. mm	white/black
12	Axle lift	1.5 sq. mm	white/blue
13	Earth for data leads 14 and 15	2.5 sq. mm	white/red
14	CAN H	1.5 sq. mm	white/green
15	CAN L	1.5 sq. mm	white/brown

*) The number plate illumination must be connected so that none of the bulbs in this device are connected to contacts 5 or 6.

Adapter 15 - 2x 7-pin with ISO

7-pin N ISO 1185				15-pin N ISO 12098	
Earth	white	1	->	4	Earth
Tail light, left	black	2	->	5	Tail light, left
Flasher light, left	yellow	3	->		
Brake light	red	4	->	7	Brake light
Flasher light, right	green	5	->		
Tail light, right	brown	6	->	6	Tail light, right
Brake trailer	blue	7	->		
7-pin S ISO 3731				15-pin N ISO 12098	
Earth	white	1	->	4	Earth
-	black	2	->		
Reversing light	yellow	3	->		
Permanent plus	red	4	->	9	Power supply
Control via earth	green	5	->		
Power supply switched	brown	6	->	9	Power supply
Rear fog light	blue	7	->	3	Rear fog light



Adapter, 24V

Adapter cable

Max. load:

16A at 24V (lead size 1.5 sq. mm),

25A at 24V (lead size 2.5 sq. mm).

for connecting a 15-pole vehicle socket (ISO 12 098) with two 7-pole trailer sockets (ISO 1185, ISO 3731).

With one 15-pole plastic plug and two 7-pole metal plugs.

Lead dia.: 8.7 mm. Outside dia. of coil: 50 mm.

Sheating: Polyurethan. Stretched length: 4.0 m.

Part no.	Pk.	
8JA 005 952-041	1	Adapter
8JA 005 952-081	1	with 7-pole plastic plugs, absolutely waterproof. Type of rotation: IPX9K for cable exit.



Short adapter.

Max. load:

16A at 24V (lead size 1.5 sq. mm),

25A at 24V (lead size 2.5 sq. mm).

for connecting a 15-pole vehicle socket (ISO 12 098)

with two 7-pole trailer plugs (ISO 1185, ISO 3731).

Fibre-glass reinforced polyamide housing.

Length: 155 mm. Contacts CuZn/Ni.

Type of protection: IP54 in plugged condition.

Part no.	Pk.	
8JA 005 952-061	1	Short adapter



Plug-in tester, 24V

For testing 7-pole 24V sockets, (ISO 1185).

Length: 81 mm.

Part no.	Pk.	
8PD 004 508-011	1	Plug-in tester, 7-pole



For testing spirally-coiled cable, (ISO 1185).

Length: 89 mm.

Part no.	Pk.	
8PD 004 508-021	1	Plug-in tester



For testing of ABS-sockets, (ISO 1185).

Length: 110 mm.

Part no.	Pk.	
8PD 004 508-031	1	Plug-in tester

ABS/EBS 5/7-pole sockets and plugs, 24V (ISO 7638-1)

Max. load:
 max. 16A at 24V (Lead dia.: 1.5 sq. mm),
 max. 25A at 24V (Lead dia.: 2.5 sq. mm),
 max. 30A at 24V (Lead dia.: 4 - 6 sq. mm).

ABS/EBS 5/7-pole sockets and plugs, 24V (ISO 7638-1)

Socket made of plastic, with lid.

With rubber gaskets and nickel-plated contact pins.
 Fibre-glass reinforced polyamide housing.
 PG gland for cable exit.
 Mounting aperture 54 mm dia. For cable dia. 9 - 16 mm.
 Contact pins: 5 each of 1.5 sq. mm + 2 each of 4 sq. mm + 2 each off 6 sq. mm
 and 2 dummy plugs.
 Type of protection IP54 in plugged condition.



Part no.	Pk.	
8JB 007 645-021	1	Socket, 5/7-pole, 24V, can be connected by crimping or soldering with screw-type connections
8JB 007 645-031	1	

Plug made of plastic.

With rubber gaskets and nickel-plated contact pins.
 Fibre-glass reinforced polyamide housing.
 Mechanical strain relief.
 Secure arrest with non-rusting metal bail.
 For cable dia. 11 - 13 mm.
 Contact sleeves: 5 each of 1.5 sq. mm + 2 each of 4 sq. mm + 2 each of
 6 sq. mm and 2 dummy plugs.



Part no.	Pk.	
8JA 007 644-041	1	Socket, 5/7-pole, 24V, can be connected by crimping or soldering with screw-type connections
8JA 007 644-051	1	
		Accessories:
9MK 726 762-831	1	Crimp contact pin set for cable connecting (5 each of 1.5 sq. mm + 2 each of 4 sq. mm + 2 each of 6 sq. mm, CuZn/Ni, and 2 dummy plugs) for socket 8JB 007 645-021
9MK 726 759-831	1	Crimp contact sleeve set for cable connecting (5 each of 1.5 sq. mm + 2 each of 4 sq. mm + 2 each of 6 sq. mm, CuZn/Ni, and 2 dummy plugs) for plug 8JA 007 644-041
8PE 863 807-001	1	Professional crimping tool for crimp contact pins and sleeves with size from 1.5 - 6.0 sq. mm



Parking socket

Fibre-glass reinforced polyamide housing,
 for ABS/EBS 24V plugs 8JA 007 644-041/-051.
 Mounting aperture 54 mm dia.
 Type of protection IP54 in plugged condition.



Part no.	Pk.	
8HG 007 647-001	1	Parking socket

Pin assignments for standard plug connectors in conformance with ISO 1185, 24V, 7-pin N

Contact-No.	Function	Cable cross-section	Colour of insulation
1	Positive, solenoid valve	4 sq. mm	red
2	Positive, electronics	1.5 sq. mm	black
3	Negative, electronics	1.5 sq. mm	yellow
4	Negative, solenoid valve	4 sq. mm	brown
5	Warning device *)	1.5 sq. mm	white
6	CAN H **)	1.5 sq. mm	white/green
7	CAN L **)	1.5 sq. mm	white/brown

*) The warning device is actuated over contact No. 5. The circuit for this contact in the trailer is open under normal operating conditions.

**) To ISO 11992-1 and ISO 11992-2.



Spirally-coiled cable, 12V

7-core spirally-coiled cable, 12V, "N"

Standard version for functions according to German traffic code (StVZO) (ISO 1724 and 6722).

Extremely resistant to high and low temperatures as well as weathering, maximum resistance to oils and chemicals.

Very good fatigue strength against repeated bending.

Excellent return characteristics. Sheating: Polyurethan.

Lead size: 6 x 1.0 + 1 x 1.5 sq. mm. Stretched length: 4.0 m.

Part no.	Pk.	
8KA 004 797-021	1	Spirally-coiled cable with 2 metal plugs

Spirally-coiled cables, 24V

7-core spirally-coiled cable, 24V, "N".

Standard version for functions according to German traffic code (StVZO) + "S" for special functions (ISO 1185, 3731 and 6722).

Extremely resistant to high and low temperatures as well as weathering, maximum resistance to oils and chemicals.

Very good fatigue strength against repeated bending.

Excellent return characteristics. Sheating: Polyurethan.

Lead size: 6 x 1.0 + 1 x 1.5 sq. mm. Stretched length: 4.0 m.



Part no.	Pk.	
8KA 004 797-041	1	Spirally-coiled cable "N" type, in compliance with ISO 1185, with 2 plastic plugs and kink guard grommets
8KA 004 797-051	1	"S" type, in compliance with ISO 3731, with 2 plastic plugs and kink guard grommets
8KA 004 797-031	1	"N" type, in compliance with ISO 1185, with 2 blue plastic plugs and kink guard, absolutely waterproof! Type of protection: IPX9K for cable exit
8KA 007 965-011	1	"S" type, in compliance with ISO 3731, with 2 yellow plastic plugs and kink guard, absolutely waterproof! Type of protection: IPX9K for cable exit

Spirally-coiled cables, 24V

7-core spirally-coiled cable, 24V, "N".

Standard version for functions according to German traffic code (StVZO) + "S" for special functions (ISO 1185, 3731 and 6722).

Extremely resistant to high and low temperatures as well as weathering, maximum resistance to oils and chemicals.

Very good fatigue strength against repeated bending.

Excellent return characteristics. Sheating: Polyurethan.

Lead size: 6 x 1.0 + 1 x 1.5 sq. mm.

Stretched length: 4.0 m.



Part no.	Pk.	
8KA 004 797-071	1	Spirally-coiled cable "N" type, in compliance with ISO 1185, with 2 metal plugs
8KA 004 797-081	1	"S"-Type, in compliance with ISO 3731, with 2 metal plugs
8KA 004 797-101	1	"N" type, in compliance with ISO 1185, with 2 metal plugs, metal kink guard and suspension device
8KA 004 797-111	1	"S"-Type nach ISO 3731, with 2 metal plugs, metal kink guard and suspension device

5-core ABS spirally-coiled cable, 24V (ISO 7638-1).

Extremely resistant to high and low temperatures as well as weathering, maximum resistance to oils and chemicals.

Very good fatigue strength against repeated bending.

Excellent return characteristics. Sheating: Hytrel or Polyurethan.

Lead size: 3 x 1.5 + 2 x 4.0 sq. mm.

Stretched length: 4.0 m.



Part no.	Pk.	
8KA 007 648-001	1	ABS spirally-coiled cable, with 2 ABS plugs and kink guard grommets. Sheating: Hytrel. Guaranteed to withstand 20.000 alternate bending operations! *)
8KA 007 648-011	1	ABS spirally-coiled cable, with 2 ABS plugs and kink guard grommets. Sheating: Polyurethan

*) A minimum of 10.000 alternate bending operations are prescribed by ISO 4141.

Spirally-coiled cables, 24V

7-core EBS spirally-coiled cable, 24V (ISO 7638-1).

Extremely resistant to high and low temperatures as well as weathering, maximum resistance to oils and chemicals.
 Very good fatigue strenght against repeated bending.
 Excellent return characteristics.
 Lead size: 5 x 1.5 + 2 x 4.0 sq. mm.
 Lead dia.: 12.5 mm. Outside dia. of coil: 60 mm.
 Stretched length: 4.0 m.



Part no.	Pk.	
8KA 007 648-021	1	EBS spirally-coiled cable, with 2 EBS plugs and kink guard grommets. Sheating: Hytrel. Guaranteed to withstand 20.000 alternate bending operations! *)
8KA 007 648-031	1	ABS spirally-coiled cable, with 2 EBS plugs and kink guard grommets. Sheating: Polyurethan

15-core spirally-coiled cable, 24V (ISO 12 098)

Extremely resistant to high and low temperatures as well as weathering, maximum resistance to oils and chemicals.
 Very good fatigue strenght against repeated bending.
 Excellent return characteristics.
 Sheating: Hytrel or Polyurethan.
 Lead size: 12 x 1.5 + 3 x 2.5 sq. mm.
 Stretched length: 4.0 m.



Part no.	Pk.	
8KA 007 648-041	1	Spirally-coiled cable, with 2 plastic plugs and blue kink guard grommets. Sheating: Hytrel. Guaranteed to withstand 20.000 anternate bending operations! *)
8KA 007 648-051	1	Spirally-coiled cable with 2 plastic plugs and blue kink guard grommets. Sheating: Polyurethan

Spirally-coiled cables, 12/24V

7-core spirally-coiled cable, 12V/24V,

"N" Standard version for functions according to German traffic code (StVZO) (ISO 1185, 1724 und 6722)

Extremely resistant to high and low temperatures as well as weathering, maximum resistance to oils and chemicals.
 Very good fatigue strenght against repeated bending.
 Excellent return characteristics.
 Sheating: Polyurethan.
 Lead size: 6 x 1.0 + 1 x 1.5 sq. mm.
 Stretched length: 4.0 m.



Part no.	Pk.	
8KA 007 648-061	1	Spirally-coiled cable, with 2 metal plugs

*) A minimum of 10.000 alternate bending operations are prescribed by ISO 4141.

Cable connectors

Cable connector

With 6.3 mm blade terminal contacts.
Fixing hole 3.5 mm dia. between each terminal.



Part no.	Pk.	
8KV 002 132-001	10	Cable connector, 12-pole, Dimensions: 145 x 28 x 7 mm
8KV 002 133-001	10	Dimensions: 142 x 42 x 7 mm

Cable connector

With solid brass terminals.
Connectors can be removed individually.



Part no.	Pk.	
8KV 002 137-801	1	Cable connector set, 6-pole, for cables up to 2.5 sq. mm
8KV 002 137-001	10	Cable connector, 12-pole, for cables up to 2.5 sq. mm according DIN 72 586, for cables up to 4 sq. mm
8KV 002 139-001	10	for cables up to 10 sq. mm
8KV 002 139-003	1	
8KV 002 140-001	10	for cables up to 16 sq. mm
8KV 002 141-001	10	

Cable connector

Dimensions: 50 x 21 x 7 mm.

4-poles, with blade terminal contacts. All pole are interconnected.
Blade receptacles completely concealed by housing.



Part no.	Pk.	
8KV 003 124-811	1	Cable connector set, 1/3-pole 10 pieces in Pro-fit pack

Cable connector

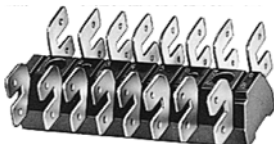
Transparent PVC junction connector
Material: brass, tin-plated.



Part no.	Pk.	
8KW 002 135-821	1	Cable connector set, 1/2-pole 10 pieces in Pro-fit pack

Cable connector

With 8 x 4 blade terminal contacts 6.3 x 0.8 mm.



Part no.	Pk.	
8KV 004 871-041	20	Cable connectors Dimensions: 106 x 39 x 27 mm
8KV 003 284-001	1	Dimensions: 68 x 40 x 22 mm



Cable connectors

Cable connector

For cables up to 6 sq. mm = 3.5 mm dia.
Dimensions: 125 x 73 x 43 mm.

ABS-body with sealed joints,
prevents ingress of moisture, dust, dirt etc.

Part no.	Pk.	
8KV 002 142-031	1	Cable connectors 6-pole, with screw contacts
8KV 002 143-031	1	
8KV 002 144-031	1	8-pole, with 8 terminal contacts 6.3 mm
8KV 002 145-031	1	8-pole, with 8 double blade terminal contacts 6.3 mm



Cable connector

For cables up to 6 sq. mm = 3.5 mm dia.
Dimensions: 141 x 94 x 58 mm.

ABS-body with sealed joints,
prevents ingress of moisture, dust, dirt etc.

Part no.	Pk.	
8KV 004 258-031	1	Cable connectors 16-pole, with screw contacts
8KV 004 259-031	1	8-pole, with 8 double blade terminal contacts



Cable connector

Body with sealed joints, prevents ingress of moisture, dust, dirt etc.,
with plug insert 6.3 x 0.8, 8x 4-pole and 6x 8-pole.
Type of protection: IP69K.

Part no.	Pk.	
8KV 177 785-007	30	Cable connectors with 12 metric screw connections 1x M25, 3x M20 and 8x M16
8KV 177 785-017	30	Cable connectors with 4 metric screw connections 4x M20



Fuse boxes

ATO-Fuse box

Transparent cover and contacts.



Part no.	Pk.	
8JD 005 993-072	10	ATO fuse box, 4-pole, with 8 axial exits 6.3 x 0.8 mm
8JD 005 993-082	10	with 8 lateral exits 6.3 x 0.8 mm

Fuse boxes

ATO-Fuse box

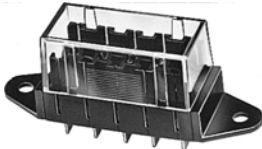
Transparent cover, contacts and 2 fixing lugs.



Part no.	Pk.	
8JD 005 993-001	10	ATO fuse box, 5-pole, with 10 axial exits 6.3 x 0.8 mm. Max. load: 5x 30 A
8JD 005 993-002	1	ATO blade-type fuses Pro-fit pack

ATO-Fuse box

Transparent cover.



Part no.	Pk.	
8JD 005 993-021	10	ATO fuse box, 5-pole, with 10 axial solder lugs 2.2 mm. Max. load: 5x 15 A
		ATO blade-type fuses

ATO-Fuse box

Transparent cover and contacts.



Part no.	Pk.	
8JD 005 993-032	10	ATO fuse box, 5-pole, with 10 lateral exits 6.3 x 0.8 mm. Max. load: 5x 30 A
		ATO blade-type fuses

ATO-Fuse box

Transparent cover and contacts.



Part no.	Pk.	
8JD 005 993-092	10	ATO fuse box, 6-pole, with 12 axial exits 6.3 x 0.8 mm
8JD 005 993-102	10	with 12 lateral exits 6.3 x 0.8 mm
8JD 005 993-051	10	with 24 axial exits 6.3 x 0.8 mm
9MK 741 492-001	1	Bridge, 15.8 mm wide for fuse box 8JD 005 993-061

Fuse boxes

ATO-Fuse box

Transparent cover and contacts.



Part no.	Pk.	
8JD 005 993-112	10	ATO fuse box, 8-pole, with 16 axial exits 6.3 x 0.8 mm
8JD 005 993-122	10	with 16 lateral exits 6.3 x 0.8 mm
8JD 005 993-061	10	ATO fuse box, 6-pole, with 32 axial exits 6.3 x 0.8 mm or 64 axial exits 2.8 x 0.8 mm
9MK 741 492-011	80	Bridge, 11.5 mm wide for fuse box 8JD 005 993-061
8JB 742 649-001	1	Coding set (4 pieces) for fuse box 8JD 005 993-061

ATO-Fuse box

Splash-proof, with holders integrated into cover for 4 spare flat fuses, rubber gasket and 12 contact parts for conductors 1.5 - 2.5 sq. mm.



Part no.	Pk.	
8JD 005 993-131	1	Special fuse box, 12-pole

ATO-Fuse box

Several single potentials can be replaced individually with contact bus bars.

Consisting of: basic element with housing, insert, 16 single potentials and transparent cover.



Part no.	Pk.	
8JD 005 993-161	1	ATO fuse box, 8-pole, with 32 axial exits 6.3 x 0.8 mm. Max. load: 60A with single contacts, 125A with contact bus bars
Accessories:		
9MK 741 492-022	10	Contact bus bar with 2 potentials
9MK 741 492-032	10	with 3 potentials
9MK 741 492-042	10	with 4 potentials
9MK 741 492-052	10	with 5 potentials
9MK 741 492-062	10	with 6 potentials
9MK 741 492-072	10	with 7 potentials
9MK 741 492-082	10	with 8 potentials
8JB 742 649-041	10	Coding set (4 pieces)



Fuse boxes

ATO-Fuse box set

Consisting of: housing, insert,
16 single potentials and transparent cover.
For automatic-fuse series 8JS 174 320-...

Part no.	Pk.	
8JD 005 993-171	1	Fuse box set, 8-pole. max. load: 60A with single contacts, 125A with contact bus bars
		Accessories:
9MK 741 492-022	10	Contact bus bar with 2 potentials
9MK 741 492-032	10	with 3 potentials
9MK 741 492-042	10	with 4 potentials
9MK 741 492-052	10	with 5 potentials
9MK 741 492-062	10	with 6 potentials
9MK 741 492-072	10	with 7 potentials
9MK 741 492-082	10	with 8 potentials
8JB 742 649-041	10	Coding set (4 pieces)



ATO-Fuse box set

Consisting of: housing, insert,
16 single potentials and transparent cover.
For automatic-fuse series 8JS 174 326-...

Part no.	Pk.	
8JD 005 993-181	1	Fuse box set, 8-pole. max. load: 60A with single contacts, 125A with contact bus bars
		Accessories:
9MK 741 492-022	10	Contact bus bar with 2 potentials
9MK 741 492-032	10	with 3 potentials
9MK 741 492-042	10	with 4 potentials
9MK 741 492-052	10	with 5 potentials
9MK 741 492-062	10	with 6 potentials
9MK 741 492-072	10	with 7 potentials
9MK 741 492-082	10	with 8 potentials
8JB 742 649-041	10	Coding set (4 pieces)



Torpedo fuse boxes

Fuse box

With 8A fuses according to DIN 72 582, form A, for cables up to 6 sq. mm,
with screw- or blade terminal contacts 6.3 x 0.8 mm.

Part no.	Pk.	
8JD 002 288-001	10	Fuse box, 1-pole, black cover, screw contacts



Fuse box

With 8A fuses according to DIN 72 582, form A, for cables up to 6 sq. mm,
with screw- or blade terminal contacts 6.3 x 0.8 mm.

Part no.	Pk.	
8JD 002 289-001	10	Fuse box, 2-pole, black cover, screw contacts
8JD 002 289-011	10	transparent cover, screw contacts
8JD 002 289-013	1	transparent cover, screw contacts Pro-fit pack
8JD 002 289-081	10	transparent cover, blade terminal contacts
9XS 091 200-007	100	Bridge



Torpedo fuse boxes

Fuse box

With 8A fuses according to DIN 72 582, form A, for cables up to 6 sq. mm, with screw- or blade terminal contacts 6.3 x 0.8 mm.



Part no.	Pk.	
8JD 002 294-001	15	Fuse box, 4-pole, black cover, screw contacts
8JD 002 294-002	1	black cover, screw contacts Pro-fit pack
8JD 002 294-011	15	transparent cover, screw contacts
8JD 002 294-081	10	transparent cover, blade terminal contacts

Fuse box

With 8A fuses according to DIN 72 582, form A, for cables up to 6 sq. mm, with screw- or blade terminal contacts 6.3 x 0.8 mm.



Part no.	Pk.	
8JD 002 291-001	10	Fuse box, 6-pole, black cover, screw contacts
8JD 002 291-011	10	Fuse box, 6-pole, transparent cover, screw contacts
8JD 002 291-141	10	transparent cover, blade terminal contacts

Fuse box

With 8A fuses according to DIN 72 582, form A, for cables up to 6 sq. mm, with screw- or blade terminal contacts 6.3 x 0.8 mm.



Part no.	Pk.	
8JD 002 290-001	5	Fuse box, 8-pole, black cover, screw contacts
8JD 002 290-031	5	transparent cover, screw contacts
8JD 002 290-141	10	transparent cover, blade terminal contacts

Fuse box

With 8A fuses according to DIN 72 582, form A, for cables up to 6 sq. mm, with screw- or blade terminal contacts 6.3 x 0.8 mm.



Part no.	Pk.	
8JD 004 588-001	15	Fuse box, 12-pole, transparent cover, 60 blade terminal contacts 6.3 x 0.8 mm, with 12 fuses 8A

PAL fuses (Original Pacific) slow bow

Illustration	Typ	Power	Colour	Part no.	Pk.	Package
	Female (AS)	20A	blue	8JS 740 026-001	1	Pro-fit
		30A	pink	8JS 740 026-011	1	
		40A	green	8JS 740 026-021	1	
		50A	red	8JS 740 026-031	1	
		60A	yellow	8JS 740 026-041	1	
	Female small (F)	30A	pink	8JS 740 026-101	1	Pro-fit
		40A	green	8JS 740 026-111	1	
	Male (B)	30A	pink	8JS 740 026-201	1	Pro-fit
		40A	green	8JS 740 026-241	1	
		50A	red	8JS 740 026-251	1	
		60A	yellow	8JS 740 026-211	1	
		70A	brown	8JS 740 026-261	1	
		80A	black	8JS 740 026-221	1	
		100A	blue	8JS 740 026-231	1	
		120A	white	8JS 740 026-271	1	
	Bent (C)	30A	pink	8JS 740 026-311	1	Pro-fit
		40A	green	8JS 740 026-321	1	
		0A	red	8JS 740 026-331	1	
		60A	yellow	8JS 740 026-341	1	
		70A	brown	8JS 740 026-351	1	
		80A	black	8JS 740 026-301	1	
		100A	blue	8JS 740 026-361	1	
		120A	white	8JS 740 026-371	1	
	Bent short (CS)	30A	pink	8JS 740 026-501	1	Pro-fit
		40A	green	8JS 740 026-511	1	
		50A	red	8JS 740 026-521	1	
		60A	yellow	8JS 740 026-531	1	
		70A	brown	8JS 740 026-541	1	
		80A	black	8JS 740 026-551	1	
		100A	blue	8JS 740 026-561	1	
		120A	white	8JS 740 026-571	1	
	Female slot (D)	25A	brown	8JS 740 026-601	1	Pro-fit
		30A	green	8JS 740 026-611	1	
	Female slot (E)	45A	red	8JS 740 026-701	1	Pro-fit
		65A	black	8JS 740 026-711	1	
		75A	grey	8JS 740 026-721	1	
	JCASE	20A	blue	8JS 740 026-401	1	Pro-fit
		30A	pink	8JS 740 026-411	1	
		40A	green	8JS 740 026-421	1	
		50A	red	8JS 740 026-431	1	
		60A	yellow	8JS 740 026-441	1	
	Low Profile JCASE	20A	blue	8JS 740 026-731	1	Pro-fit
		25A	nature	8JS 740 026-741	1	
		30A	pink	8JS 740 026-751	1	
		40A	green	8JS 740 026-761	1	
		50A	red	8JS 740 026-771	1	
		60A	yellow	8JS 740 026-781	1	

Blade-type fuses (MINI, ATO, MAXI) (DIN 72 581, part 3)

Illustration	Typ	Power	Colour	Part no.	Pk.	Package	
	MINI (DIN 72 581, part 3 F)	2A	grey	8JS 728 596-861	1	Pro-fit, contains: 5 each of	
		3A	lilac	8JS 728 596-881	1		
		4A	pink	8JS 728 596-801	1		
		5A	beige	8JS 728 596-811	1		
		7.5A	brown	8JS 728 596-891	1		
		10A	red	8JS 728 596-821	1		
		15A	blue	8JS 728 596-831	1		
		20A	yellow	8JS 728 596-841	1		
		25A	white	8JS 728 596-871	1		
		30A	green	8JS 728 596-851	1		
		2A	grey	8JS 728 596-081	50		Pro-fit
		3A	lilac	8JS 728 596-101	50		
		4A	pink	8JS 728 596-121	50		
		5A	beige	8JS 728 596-131	50		
		7.5A	brown	8JS 728 596-111	50		
		10A	red	8JS 728 596-141	50		
		15A	blue	8JS 728 596-151	50		
		20A	yellow	8JS 728 596-161	50		
		25A	white	8JS 728 596-091	50		
	30A	green	8JS 728 596-171	50			
	5A	beige	8JS 728 596-017	1000	Industry		
	7.5A	brown	8JS 728 596-077	1000			
	10A	red	8JS 728 596-027	1000			
	15A	blue	8JS 728 596-037	1000			
	20A	yellow	8JS 728 596-047	1000			
	MINI blade-type fuse set 3 x 4A, 3 x 5A, 5 x 10A, 5 x 15A, 5 x 20A, 3 x 30A			8JS 728 596-901	1000	Pro-fit, contains 24 pieces	
	MINI with LED	3A	lilac	8JS 728 596-182	10	Pro-fit	
		5A	beige	8JS 728 596-192	10		
		7.5A	brown	8JS 728 596-202	10		
		10A	red	8JS 728 596-212	10		
		15A	blue	8JS 728 596-222	10		
		20A	yellow	8JS 728 596-232	10		
		25A	white	8JS 728 596-242	10		
		30A	green	8JS 728 596-252	10		
	MINI blade-type fuse set 1 each of 5A, 7.5A, 10A, 15A, 20A			8JS 728 596-921	1	Pro-fit, contains 5 pieces	
	Low Profile MINI	2A	grey	8JS 728 596-262	5	Pro-fit	
		3A	lilac	8JS 728 596-272	5		
		4A	pink	8JS 728 596-282	5		
		5A	orange	8JS 728 596-292	5		
		7.5A	brown	8JS 728 596-302	5		
		10A	red	8JS 728 596-312	5		
		15A	blue	8JS 728 596-322	5		
		20A	yellow	8JS 728 596-332	5		
		25A	clear	8JS 728 596-342	5		
		30A	green	8JS 728 596-352	5		

Blade-type fuses (MINI, ATO, MAXI) (DIN 72 581, part 3)

Illustration	Typ	Power	Colour	Part no.	Pk.	Package	
	ATO according to DIN 72 581, part 3	1A	black	8JS 711 683-831	1	Pro-fit, contains: 5 each of	
		2A	grey	8JS 711 683-841	1		
		3A	lilac	8JS 711 683-821	1		
		4A	pink	8JS 711 683-881	1		
		5A	beige	8JS 711 684-821	1		
		7.5A	brown	8JS 711 685-821	1		
		10A	red	8JS 711 686-821	1		
		15A	blue	8JS 711 687-821	1		
		20A	yellow	8JS 711 688-821	1		
		25A	white	8JS 711 689-821	1		
		30A	green	8JS 711 690-821	1		
		35A	dark blue	8JS 711 683-871	1		
		40A	orange	8JS 711 683-851	1		
		1A	black	8JS 711 683-011	50		Pro-fit
		2A	grey	8JS 711 683-021	50		
		3A	lilac	8JS 711 683-002	50		
		4A	pink	8JS 711 683-052	50		
		5A	beige	8JS 711 684-002	50		
		7.5A	brown	8JS 711 685-002	50		
		10A	red	8JS 711 686-002	50		
15A	blue	8JS 711 687-002	50				
20A	yellow	8JS 711 688-002	50				
25A	white	8JS 711 689-002	50				
30A	green	8JS 711 690-002	50				
35A	dark blue	8JS 711 683-042	50				
40A	orange	8JS 711 683-031	50				
10A	red	8JS 711 686-007	2000	Industry			
15A	blue	8JS 711 687-007	2000				
30A	green	8JS 711 690-007	2000				

ATO blade-type fuse set

15 each of 5A, 7.5A, 10A, 15A, 20A, 25A, 30A
and fuse holder 8KV 004 418-004

8JS 004 743-803 1 Pro-fit, contains 109 pieces

ATO blade-type fuse set

1 each of 3A, 5A, 7.5A, 15A, 25A, 30A
2 each of 10A, 20A

8JS 711 683-903 1 Pro-fit, contains 10 pieces

ATO blade-type fuse set

5 each of 2A, 5A, 7.5A, 15A, 20A, 30A

8JS 711 683-861 1 Polyethylene bag, contains 30 pieces

Illustration	Typ	Part no.	Pk.	Package
	Contains 476 pieces:	8JS 009 257-801		
	25 each of ATO blade-type fuses: 2A, 3A, 4 A, 5A, 7.5 A, 10A, 15A, 20A, 25A, 30A, 40A 20 each of MINI blade-type fuses: 2A, 3A, 4A, 5A, 7.5 A, 10A, 15A, 20A, 25A, 30A 1 MINI and 1 ATO blade-type fuse tweezers 8PE 713 576-011			

Illustration	Typ	Power	Colour	Part no.	Pk.	Package
	ATO with LED	3A	lilac	8JS 711 683-062	10	Pro-fit
		5A	beige	8JS 711 683-072	10	
		7.5A	brown	8JS 711 683-082	10	
		10A	red	8JS 711 683-092	10	
		15A	blue	8JS 711 683-102	10	
		20A	yellow	8JS 711 683-112	10	
		25A	white	8JS 711 683-122	10	
		30A	green	8JS 711 683-132	10	

ATO blade-type fuse set

1 each of 5A, 7.5A, 10A, 15A, 20A

8JS 711 683-931 10 Pro-fit, contains 5 pieces:

Blade-type fuses for electric vehicles up to 80V

3A	lilac	8JS 711 683-202	10	Polyethylene bag
5A	beige	8JS 711 683-212	10	
7.5A	brown	8JS 711 683-222	10	
10A	red	8JS 711 683-232	10	
15A	blue	8JS 711 683-242	10	
20A	yellow	8JS 711 683-252	10	
25A	white	8JS 711 683-262	10	
30A	green	8JS 711 683-272	10	



Blade-type fuses (MINI, ATO, MAXI) (DIN 72 581, part 3)

Illustration	Typ	Power	Colour	Part no.	Pk.	Package
	MAXI (DIN 72 581, part 3 E)	20A	yellow	8JS 728 595-051	1	Pro-fit
		30A	green	8JS 728 595-061	1	
		40A	orange	8JS 728 595-071	1	
		50A	red	8JS 728 595-081	1	
		60A	blue	8JS 728 595-091	1	
		70A	brown	8JS 728 595-101	1	
		80A	white	8JS 728 595-111	1	
		20A	yellow	8JS 728 595-131	10	
	25A	grey	8JS 728 595-212	10		
	30A	green	8JS 728 595-141	10		
	40A	orange	8JS 728 595-151	10		
	50A	red	8JS 728 595-161	10		
	60A	blue	8JS 728 595-171	10		
	70A	brown	8JS 728 595-181	10		
	80A	white	8JS 728 595-191	10		

MAXI blade-type fuse set
1 of 20A, 3 each of 30A, 40A, 50A, 60A
8JS 728 595-901 10 Pro-fit, contains 13 pieces

Illustration	Typ	Part no.	Pk.	Package
	MINI and ATO blade-type fuse tweezer	8PE 713 576-011	1	

	MAXI blade-type fuse tweezer	8PE 713 576-021	1	
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Thermal automatic fuses, suitable for ATO blade-type fuses

Illustration	Typ	Power	Nom. Voltage	Colour	Part no.	Pk.
	Automatic fuses, can be reset	5A	32V	light brown	8JS 174 320-001	10
		7.5A	32V	brown	8JS 174 320-011	10
		10A	32V	red	8JS 174 320-021	10
		15A	32V	blue	8JS 174 320-031	10
		20A	32V	yellow	8JS 174 320-041	10
		25A	32V	white	8JS 174 320-051	10
		30A	32V	light green	8JS 174 320-061	10
		40A	32V	orange	8JS 174 320-071	10
	Automatic fuses, with manual release	5A	28V	light brown	8JS 174 326-001	10
		7.5A	28V	brown	8JS 174 326-011	10
		10A	28V	red	8JS 174 326-021	10
		15A	28V	blue	8JS 174 326-031	10
		20A	28V	yellow	8JS 174 326-041	10
		25A	28V	white	8JS 174 326-051	10
		30A	28V	light green	8JS 174 326-061	10
		35A	28V	green	8JS 174 326-081	10
40A	28V	orange	8JS 174 326-071	10		
	Automatic fuse, self-resetting	12A	12V		8JS 174 328-001	10
		15A	12V		8JS 174 328-011	10
		20A	12V		8JS 174 328-021	10
		30A	12V		8JS 174 328-031	10
	Automatic fuse, suitable for MAXI base	10A	14V		8JS 174 330-001	10
		7.5A	14V		8JS 174 330-011	10
		10A	14V		8JS 174 330-021	10
		15A	14V		8JS 174 330-031	10
		20A	14V		8JS 174 330-041	10
		25A	14V		8JS 174 330-051	10
		30A	14V		8JS 174 330-061	10

Thermal automatic fuses, suitable for ATO blade-type fuses

Illustration	Typ	Power	Nom. Voltage	Colour	Part no.	Pk.
	Automatic fuses, suitable for MNI base, self-resetting	10A	24V		8JS 174 333-001	10
		15A	24V		8JS 174 333-011	10
		20A	24V		8JS 174 333-021	10
		25A	24V		8JS 174 333-031	10
		30A	24V		8JS 174 333-041	10
		35A	24V		8JS 174 333-051	10
		40A	24V		8JS 174 333-061	10
		50A	24V		8JS 174 333-071	10

High current fuses

Illustration	Typ	Power	Colour	Part no.	Pk.	Package
	MIDI	30A	pink	8JS 742 901-061	1	Pro-fit
		40A	green	8JS 742 901-001	1	
		50A	red	8JS 742 901-011	1	
		60A	yellow	8JS 742 901-021	1	
		70A	brown	8JS 742 901-031	1	
		80A	white	8JS 742 901-041	1	
		100A	blue	8JS 742 901-051	1	
		125A	orange	8JS 742 901-071	1	
	MEGA	100A	yellow	8JS 742 902-001	1	Pro-fit
		125A	green	8JS 742 902-011	1	
		150A	red	8JS 742 902-021	1	
		175A	white	8JS 742 902-031	1	
		200A	blue	8JS 742 902-041	1	
		225A	brown	8JS 742 902-061	1	
		250A	pink	8JS 742 902-051	1	
		300A	grey	8JS 742 902-071	1	
		350A	dark green	8JS 742 902-081	1	
		400A	violet	8JS 742 902-091	1	
		450A	beige	8JS 742 902-101	1	
500A	dark brown	8JS 742 902-111	1			

Torpedo fuses (DIN 72 581 part 1), 6 x 25 mm

	Torpedo	5A	yellow	8JS 704 073-801	1	Pro-fit, contains: 5 each of
		8A	white	8JS 025 889-801	1	
		16A	red	8JS 089 015-801	1	
		25A	blue	8JS 091 603-801	1	
		5A	yellow	8JS 704 073-003	100	
	8A	white	8JS 025 889-003	100		
	16A	red	8JS 089 015-003	100		
	25A	blue	8JS 091 603-003	100		
	40A	grey	8JS 713 144-003	100		
	Torpedo fuse set		1 each of 2.5A (5 x 20 mm), 5A, 25A, 4 each of 8A, 3 x 16A		8JS 003 481-803	1

Glass-tube fuses

Illustration	Typ	Power	Part no.	Pk.	Package
	Glass-tube fuse 5 x 20 mm	5A	8JS 713 550-801	1	Pro-fit, contains 10 pieces
		1A	8JS 713 549-003	100	
		2.5A	8JS 713 804-003	100	
		5A	8JS 713 550-003	100	
	Glass-tube fuse 6.3 x 32 mm	5A	8JS 713 564-002	50	
		10A	8JS 713 805-003	50	
		15A	8JS 713 806-003	50	
		20A	8JS 713 807-003	50	
		25A	8JS 713 808-003	50	
	Glass-tube fuse set	je 1 each of 2.5A (5 x 20 mm), 25A, je 3 each of 10A, 20A		8JS 003 481-823	1
Glass-tube fuse set 2 each of 1A, 2.5A, 5A (5 x 20 mm), 5A, 10A, 15A, 20A, 25A, 30A		8JS 735 379-801	1	Pro-fit, contains 18 pieces	

Fuse stripes

Illustration	Typ	Power	Part no.	Pk.	Package
	Fuse stripes 41 x 11 mm	30A	8JS 713 575-011	100	
		50A	8JS 713 575-021	100	
		60A	8JS 713 575-031	100	
		80A	8JS 713 575-001	100	
		100A	8JS 713 575-041	100	
		125A	8JS 713 575-051	100	
		150A	8JS 713 575-061	100	
	HSB fuse stripes 42 x 12 mm (Volkswagen, Opel etc.)	30A	8JS 713 575-102	10	Polyethylene bag
		40A	8JS 713 575-112	10	
		50A	8JS 713 575-122	10	
		60A	8JS 713 575-132	10	
		80A	8JS 713 575-142	10	
		110A	8JS 713 575-152	10	
		150A	8JS 713 575-162	10	
	Fuse stripes for railless battery vehicles (DIN 43 560, part 1), 82 x 20 mm	35A	8JS 713 575-201	1	Polyethylene bag
		50A	8JS 713 575-211	1	
		63A	8JS 713 575-221	1	
		80A	8JS 713 575-231	1	
		100A	8JS 713 575-241	1	
		125A	8JS 713 575-251	1	
		160A	8JS 713 575-261	1	
		200A	8JS 713 575-271	1	
		250A	8JS 713 575-281	1	
		300A	8JS 713 575-291	1	
		355A	8JS 713 575-301	1	
425A	8JS 713 575-311	1			

CF8 Main fuses up to 58V

Polyethylene bag

Insulating element: ceramic C221.



Part no.	Pk.	
		CF8 Main fuses
8JS 747 876-001	1	50A
8JS 747 876-011	1	75A
8JS 747 876-021	1	100A
8JS 747 876-031	1	125A
8JS 747 876-041	1	150A
8JS 747 876-051	1	175A
8JS 747 876-061	1	200A
8JS 747 876-071	1	250A
8JS 747 876-081	1	300A
		Accessories:
9MJ 747 877-001	1	Insulating nut

Holder for fuses

Pro-fit pack

Water-proof, 100 mm long.



Part no.	Pk.	
8JD 743 557-001	1	MINI-fuse holder
8JD 743 557-011	1	with lead size 2 sq. mm, both sides
		with lead size 3 sq. mm, both sides
		LowProfile MINI-fuse holder
8JD 743 557-091	1	with lead size 0.75 sq. mm, both sides, max. 10A
8JD 743 557-101	1	with lead size 3 sq. mm, both sides, max. 30A

Holder for fuses

Pro-fit pack
100 mm long.



Part no.	Pk.	
8JD 743 557-021	1	ATO fuse holder with lead size 1.3 sq. mm, both sides, max. 20A, water-proof
8JD 743 557-031	1	ATO fuse holder with lead size 3.3 sq. mm, both sides, max. 30A, water-proof
8JD 743 557-041	1	ATO fuse holder with lead size 1.3 sq. mm, both sides, max. 20A
8JD 743 557-051	1	ATO fuse holder with lead size 3.3 sq. mm, both sides, max. 30A

With cover.
Max. load: 60A at 58V.
Operating temperature: -40°C to +125°C.



Part no.	Pk.	
8JD 743 557-111	1	JCASE-fuse holder
8JD 743 557-121	1	Low Profile JCASE-fuse holder

Blade terminal contacts 6.3 x 0.8 mm.



Part no.	Pk.	
8KV 004 418-821	1	ATO fuse holder 2 pieces in Pro-fit pack
8KV 004 418-004	10	Pro-fit pack

Housing made of blue plastic, also for direct connexion to lead,
for lead sizes from 0.75 - 2.0 sq. mm.



Part no.	Pk.	
8KV 714 340-811	1	ATO fuse holder 2 pieces in Pro-fit pack
8KV 714 340-002	10	Pro-fit pack
8KV 714 340-007	100	Polyethylene bag

Several holders can be joined together.
Can be joined together with 9-pole socket housing 8JA 003 526-001.



Part no.	Pk.	
8JA 007 024-001	1	ATO fuse holder with 2 double-spring contacts 8KW 054 944-003.
8JA 007 024-047	1000	without double-spring contacts

Max. load: 30A.

With 2 double-spring contacts 8KW 054 944-003 and cover,
for lead size up to 2.5 sq. mm,
for lead sizes from 2.5 - 4.0 sq. mm take double-spring contacts
8KW 054 943-003!
Several holders can be joined together.



Part no.	Pk.	
8JD 005 235-801	1	ATO fuse holder 2 pieces in Pro-fit pack
8JD 005 235-002	6	Pro-fit pack



Holder for fuses

For fusing retrofitted equipment such as electric sliding roof, car phone, amplifier, navigation system, refrigerator box.

Pro-fit pack contains:

1 fuse holder,
4 each of blade-type fuses 3A, 5A, 7.5A, 10A

Part no.	Pk.	
8JD 743 557-801	1	MINI-fuse holder
8JD 743 557-811	1	ATO fuse holder



Water-proof, with cover, 2 screws, contacts for lead sizes from 2.5 - 6.0 sq. mm and from 5.0 - 10.0 sq. mm.

Max. load up to 60A.

Part no.	Pk.	
8JD 743 708-001	1	MAXI-fuse holder Pro-fit pack



Water-proof, with cover, seal and contacts.

Max. load 20A - 80A.

Pro-fit pack.

Part no.	Pk.	
8JD 743 710-001	1	MAXI-fuse holder for lead sizes from 4 - 6 sq. mm
8JD 743 709-001	1	MAXI-fuse holder for lead sizes from 6 - 10 sq. mm



Also suitable for 41 x 11 mm and 42 x 12 mm HSB fuse stripes.

Max. load 30A - 150A.

Pro-fit pack

Part no.	Pk.	
8JD 743 136-001	1	MIDI-fuse holder



Max. load 100A - 250A.

Pro-fit pack.

Part no.	Pk.	
8JD 743 135-001	1	MEGA-fuse holder



Flexible cover enables access for lead from all directions.

Max. load: 500A at 32V.

Part no.	Pk.	
8JD 743 135-011	1	MEGA-fuse holder

Holder for fuses

Bayonet fastening. With screw contact.
For lead sizes from 1.5 - 2.5 sq. mm.



Part no.	Pk.	
8KV 002 127-801	1	Torpedo-fuse holder (DIN 72 581) with 8A fuse
8KV 002 127-003	10	2 pieces in Pro-fit pack
8KV 002 127-007	1000	Pro-fit pack
8KV 002 136-001	10	Torpedo-fuse holder (DIN 72 581) th 5A fuse
8KV 002 127-021	10	with 16A fuse
8KV 002 127-011	10	with 25A fuse
8KV 002 136-011	10	without fuse



Part no.	Pk.	
8KV 003 285-801	1	With 2A glass-tube fuse and connecting lead 170 mm long. Two 6.3 x 0.8 mm blade receptacles. Glass-tube fuse holder 5 x 20 mm 2 pieces in Pro-fit pack
8KV 003 285-002	8	Glass-tube fuse holder 5 x 20 mm Pro-fit pack
8KV 003 285-011	1	Max load: 10A at 32V. With lead. Glass-tube fuse holder 5 x 20 mm
8KV 003 285-021	1	Max load: 20A at 32V. Twist-Lock fastening. With lead. Glass-tube fuse holder 6.3 x 32 mm



For fuse stripes on railles battery vehicles.

Part no.	Pk.	
8JD 743 557-081	1	Fuse holder Pro-fit pack



Starter cable

with battery terminal clip and M8 ring tongue.
For lead size 25 sq. mm. Pole 17.5 mm dia.

Part no.	Pk.	
8KX 707 919-021	5	Starter cable, 900 mm long

Engine earthing straps

made of highly flexible copper mesh.



Part no.	Pk.	
		For lead size 16 sq. mm. Pole 10.5 mm dia. Max. load: 65A.
8KX 707 916-001	5	Engine earthing strap, 150 mm long
8KX 707 916-011	5	200 mm long
8KX 707 916-021	5	250 mm long
		For lead size 21 sq. mm. Pole 10.5 mm dia. Max. load: 80A.
8KX 707 917-011	5	Engine earthing strap, 200 mm long
8KX 707 917-021	5	250 mm long
8KX 707 917-031	5	300 mm long



Bare copper band, 2-layer.
Both ends with end strap.
Pole 10.5 mm dia.

Part no.	Pk.	
8KX 175 422-002	5	Engine earthing strap, 300 mm long

Screening earth straps

made of highly flexible copper mesh.
For lead size 10 sq. mm. Pole 8.5 mm dia.
Max. load: 48A.



Part no.	Pk.	
8KX 707 918-001	5	Screening earth strap, 180 mm long
8KX 707 918-011	5	210 mm long
8KX 707 918-021	5	280 mm long
8KX 707 918-031	5	400 mm long

Battery earth straps

made of highly flexible copper mesh, with brass strap clip.
Ends and strap clips lead-covered.

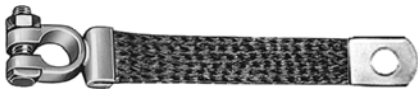
**For lead size 21 sq. mm. Pole 15.9 mm dia.
Max. load: 80A.**



Part no.	Pk.	Battery earth strap,
8KX 091 391-001	10	180 mm long
8KX 091 392-001	10	250 mm long
8KX 091 394-001	10	300 mm long
8KX 091 395-001	10	320 mm long
8KX 719 756-001	10	350 mm long
8KX 719 757-001	9	400 mm long
8KX 719 757-012	10	500 mm long

Bare copper band, 2-layer.

One end with end strap, the other end with
battery clamp form R in accordance with DIN 72333.



Part no.	Pk.	Battery earth strap,
8KX 175 421-002	5	500 mm long

Battery terminal clips

Lead-free material, with cable connection on side, in compliance with DIN 72 331.



Part no.	Pk.	
		For lead sizes up to 70 sq. mm. Pole dia. 17.5 mm.
8KX 091 450-032	25	Battery terminal clip
8KX 091 450-031	1	Left + Pro-fit pack



		For lead sizes up to 70 sq. mm. Pole dia. 15.9 mm.
8KX 043 021-032	25	Battery terminal clip
8KX 043 021-031	1	Right - Pro-fit pack



		For lead sizes up to 70 sq. mm. Pole dia. 17.5 mm.
8KX 091 451-032	25	Battery terminal clip
8KX 091 451-031	1	Right + Pro-fit pack



8KX 091 452-032	25	Battery terminal clip
8KX 091 452-031	1	Left - Pro-fit pack



		For lead sizes from 50 - 120 sq. mm, with light cable connection. Pole dia. 17.5 mm.
8KX 091 453-001	10	Battery terminal clip Left +



8KX 707 911-001	10	Battery terminal clip Left +
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		For lead sizes from 50 - 120 sq. mm, without light cable connection. Pole dia. 15.9 mm.
8KX 707 911-011	10	Battery terminal clip Right -



		For lead sizes from 10 - 70 sq. mm, without light cable connection.
8KX 716 405-001	10	Battery terminal clip Right +, pole dia. 17.5 mm
8KX 716 405-011	10	Battery terminal clip Left -, pole dia. 15.9 mm

Special battery terminal clips

For lead sizes from 50 -120 sq. mm.



Part no.	Pk.	
8KX 707 912-001	10	Special battery terminal clip without light cable connection, + terminal clip. Pole dia. 17.5 mm
8KX 707 912-011	10	with light cable connection, - terminal clip. Pole dia. 15.9 mm
8KX 707 913-011	10	with M12 x 1.5 bolt, - terminal clip. Pole dia. 17.5 mm
8KX 707 913-001	10	with M10 x 1.5 bolt, + terminal clip. Pole dia. 15.9 mm

Battery terminal clips

Brass clamp. Nut and bolt galvanised.



Part no.	Pk.	
8KX 742 695-032	10	Battery terminal clip Ford +
8KX 742 695-022	10	Ford -



Part no.	Pk.	
8KX 742 696-011	10	Battery terminal clip Renault +
8KX 742 696-001	10	Renault -

Bolt diameter: 8 mm.



Part no.	Pk.	
8KX 747 875-001	1	Battery terminal clip 1-pole
8KX 747 875-011	1	2-pole



Battery terminal clips

Lead-free material, galvanised.
Material Quick Lock handle: PBT GF 40

Part no.	Pk.	
8KX 174 396-012	10	Battery terminal clip Pole dia. 19.5 mm



8KW 009 254-801 Crimp connector set

Case with various crimp connectors, one junction connector, one coupling and one set crimping pliers (reorder quantity is not the same quantity in the set).

Part no. spare parts	Piece	Type	Connector width	Cable section sq. mm
8KW 044 276-003	20	Ring connectors	M4	0.5 - 1.0
8KW 044 291-003	20	Ring connectors	M5	0.5 - 1.0
8KW 044 036-003	20	Blade receptacles	6.3 x 0.8 mm	0.5 - 1.0
8KW 702 796-003	20	Blade terminals	6.3 x 0.8 mm	0.5 - 1.0
8KW 044 040-003	20	Pin terminals	4 mm dia.	0.5 - 1.0
8KW 044 037-003	20	Fork connectors	M5	1.5 - 2.5
8KW 044 022-003	20	Blade receptacles	6.3 x 0.8 mm	1.5 - 2.5
8KW 044 028-003	20	Ring connectors	M4	1.5 - 2.5
8KW 044 027-003	20	Ring connectors	M5	1.5 - 2.5
8KW 044 039-003	20	Ring connectors	M6	1.5 - 2.5
8KW 044 033-003	20	Butt connectors		1.5 - 2.5
8KW 044 032-003	20	2-way connectors	6.3 x 0.8 mm	1.5 - 2.5
8KW 044 288-003	20	Blade terminals	6.3 x 0.8 mm	1.5 - 2.5
8KW 045 145-003	20	Pin sockets	4 mm dia.	0.5 - 1.0
8KW 705 393-003	20	Blade receptacles	2.8 x 0.5 mm	0.5 - 1.0
8KW 708 373-003	20	Blade receptacles	6.3 x 0.8 mm	0.5 - 1.0
8KW 044 029-003	20	Ring connectors	M5	4.0 - 6.0
8KW 044 030-003	20	Ring connectors	M6	4.0 - 6.0
8KV 705 123-002	20	Splice connectors		0.8 - 2.0
8KW 044 035-003	20	Coupling	6.3 x 0.8 mm	
8PE 002 006-001	1	Crimping tool		
9XX 863 802-001	1	Assortment case, empty without dividers		
9XX 863 800-001	16	Dividers 9-1 for assortment case		
9XX 863 800-011	4	Dividers 8-1 for assortment case		



8KW 009 255-801

Crimp connector set, not insulated

Case with various uninsulated connectors
(reorder quantity is not the same as the quantity in the set).

Part no. spare parts	Piece	Type	Connector width	Cable section sq. mm
8KW 744 817-003	50	Blade receptacles with locking tab	2.8 x 0.8	0.5 - 1.0
8KW 744 828-003	50	Blade receptacles	4.8 x 0.8	0.5 - 1.0
8KW 744 834-003	50	Blade terminals with locking tab	2.8 x 0.8	0.5 - 1.0
8KW 733 815-003	50	Blade receptacles with locking tab	4.8 x 0.8	0.5 - 1.0
8KW 043 629-013	50	Blade receptacles	6.3 x 0.8	0.75 - 1.5
8KW 744 832-003	50	Blade terminals with locking tab	6.3 x 0.8	0.5 - 1.0
8KW 744 819-003	50	Blade receptacles with locking tab	6.3 x 0.8	0.5 - 1.0
8KW 043 630-013	50	Blade receptacles	6.3 x 0.8	1.5 - 2.5
8KW 048 056-033	50	Blade terminals with locking tab	6.3 x 0.8	1.5 - 2.5
8KW 701 235-033	50	Blade receptacles with locking tab	6.3 x 0.8	1.5 - 2.5
8KW 744 787-003	20	Blade receptacles	9.5 x 1.2	4.0 - 6.0
8KW 744 823-003	50	Blade terminals	6.3 x 0.8	1.5 - 2.5
8KW 043 636-003	50	2-way connectors	6.3 x 0.8	
8KW 700 144-003	20	3-way connectors	6.3 x 0.8	
8KW 744 885-013	20	2-way connectors	6.3 x 0.8	1.5 - 2.5
8KW 744 821-003	20	Blade receptacles with locking tab	6.3 x 0.8	1.5 - 2.5
8KW 744 827-003	20	Blade receptacles	6.3 x 0.8	0.5 - 1.5
8KW 744 804-00	20	Blade terminal 45 degrees		
8KW 044 285-00	20	Coupling	6.3 x 0.8	
9XX 863 802-001	1	Assortment case, empty without dividers		
9XX 863 800-001	8	Dividers 9-1 for assortment case		
9XX 863 800-011	12	Dividers 8-1 for assortment case		



8KW 009 253-801

Duraseal crimp connector set

Case with various Duraseal crimp connectors
(reorder quantity is not the same as the quantity in the set).

Part no. spare parts	Piece	Type	Connector width	Cable section sq. mm
8KW 732 579-003	15	Butt connectors		0.5 - 1.0
8KW 732 575-003	15	Ring connectors	M6	1.5 - 2.5
8KW 732 566-003	15	Blade receptacles completely insulated	6.3 x 0.8 mm	0.5 - 1.0
8KW 744 766-003	15	Pin terminals	5 mm dia.	1.5 - 2.5
8KW 732 580-003	15	Butt connectors		1.5 - 2.5
8KW 732 576-003	15	Ring connectors	M6	4.0 - 6.0
8KW 732 567-003	15	Blade receptacles completely insulated	6.3 x 0.8 mm	1.5 - 2.5
8KW 744 768-003	15	Round plug sockets completely insulated	5 mm dia.	1.5 - 2.5
8KW 732 581-003	15	Butt connectors		4.0 - 6.0
8KW 732 577-003	15	Ring connectors	M8	1.5 - 2.5
8KW 732 568-003	15	Blade terminals	6.3 x 0.8 mm	0.5 - 1.0
8KW 744 757-00	15	Fork connectors		
8KW 732 573-003	15	Ring connectors	M5	1.5 - 2.5
8KW 732 574-003	15	Ring connectors	M5	4.0 - 6.0
8KW 732 569-003	15	Blade terminals	6.3 x 0.8 mm	1.5 - 2.5
8KW 744 758-00	15	Fork connectors		15
9XX 863 802-001	1	Assortment case, empty without dividers		
9XX 863 800-011	16	Dividers 8-1 for assortment case		



8JA 009 256-801

Superseal connector set

Case with various Superseal plug housings, pin/socket contacts, single conductor seals and dummy plugs (reorder quantity is not the same as the quantity in the set).

Part no. spare parts	Piece	Type	Lead size Poles
9GD 746 185-002	100	Single conductor seal	1.8 - 2.4 sq. mm
9GD 746 187-002	100	Dummy plug	
8KW 744 836-002	100	Pin contact	1.0 - 1.5 sq. mm
8KW 744 837-002	100	Bush contact	1.0 - 1.5 sq. mm
8JA 746 183-012	5	Pin housing	1-pole
8JA 746 183-022	5	Pin housing	2-pole
8JA 746 184-022	5	Bush housing	2-pole
8JA 746 183-032	5	Pin housing	3-pole
8JA 746 184-032	5	Bush housing	3-pole
8JA 746 183-042	5	Pin housing	4-pole
8JA 746 184-042	5	Bush housing	4-pole
8JA 746 183-052	5	Pin housing	5-pole
8JA 746 184-052	5	Bush housing	5-pole
8JA 746 183-062	5	Pin housing	6-pole
8JA 746 184-062	5	Bush housing	6-pole
9XX 863 802-001	1	Assortment case, empty without dividers	
9XX 863 800-001	4	Dividers 9-1 for assortment case	
9XX 863 800-011	10	Dividers 8-1 for assortment case	
9XX 863 800-021	2	Dividers 7-1 for assortment case	



8JS 009 257-801

ATO/MINI blade-type fuse set

Contains: 476 pieces

Part no. spare parts	Piece	Type
8JS 009 257-801	1	Contains 476 pieces: 25 each of ATO blade-type fuses: 2A, 3A, 4 A, 5A, 7.5 A, 10A, 15A, 20A, 25A, 30A, 40A 20 each of MINI blade-type fuses: 2A, 3A, 4A, 5A, 7.5 A, 10A, 15A, 20A, 25A, 30A 1 MINI and 1 ATO blade-type fuse tweezer 8PE 713 576-011



9MJ 178 458-801

Heat-shrink tubing assortment

Part no. spare parts	Piece	Colors	Length mm	Dia. mm
9MJ 178 458-002	20 each of	red, yellow, blue	50	2.4
9MJ 178 458-012	30 each of	black, transparent		2.4
9MJ 178 458-022	20 each of	red, yellow, blue		3.2
9MJ 178 458-032	30 each of	black, transparent		3.2
9MJ 178 458-042	20 each of	red, yellow, blue		4.8
9MJ 178 458-052	20 each of	black, transparent		4.8
9MJ 178 458-062	20 each of	red, yellow, blue		6.4
9MJ 178 458-072	30 each of	black, transparent		6.4
9MJ 178 458-082	4 each of	black, transparent, red, yellow, blue		100
9MJ 178 458-092	4 each of	black, transparent, red, yellow, blue	12.5	
9MJ 178 458-102	10 each of	black, transparent	19.1	
9MJ 178 458-112	5 each of	black, transparent, red, yellow, blue	200	9.5
9MJ 178 458-122	5 each of 5 each of	black black		19.1 24.5



Part no.	Pk.	
9XX 863 801-001	1	Handy-Box for assortment case (without case)



Part no.	Pk.	
9XX 863 802-001	1	Assortment case (empty, without dividers)



Part no.	Pk.	
9XX 863 800-021	1	Dividers 7-1 for assortment case. Each case can hold a maximum of 8 dividers.
9XX 863 800-011	1	Dividers 8-1 for assortment case. Each case can hold a maximum of 16 dividers.
9XX 863 800-001	1	Dividers 9-1 for assortment case. Each case can hold a maximum of 32 dividers.

Installation Material

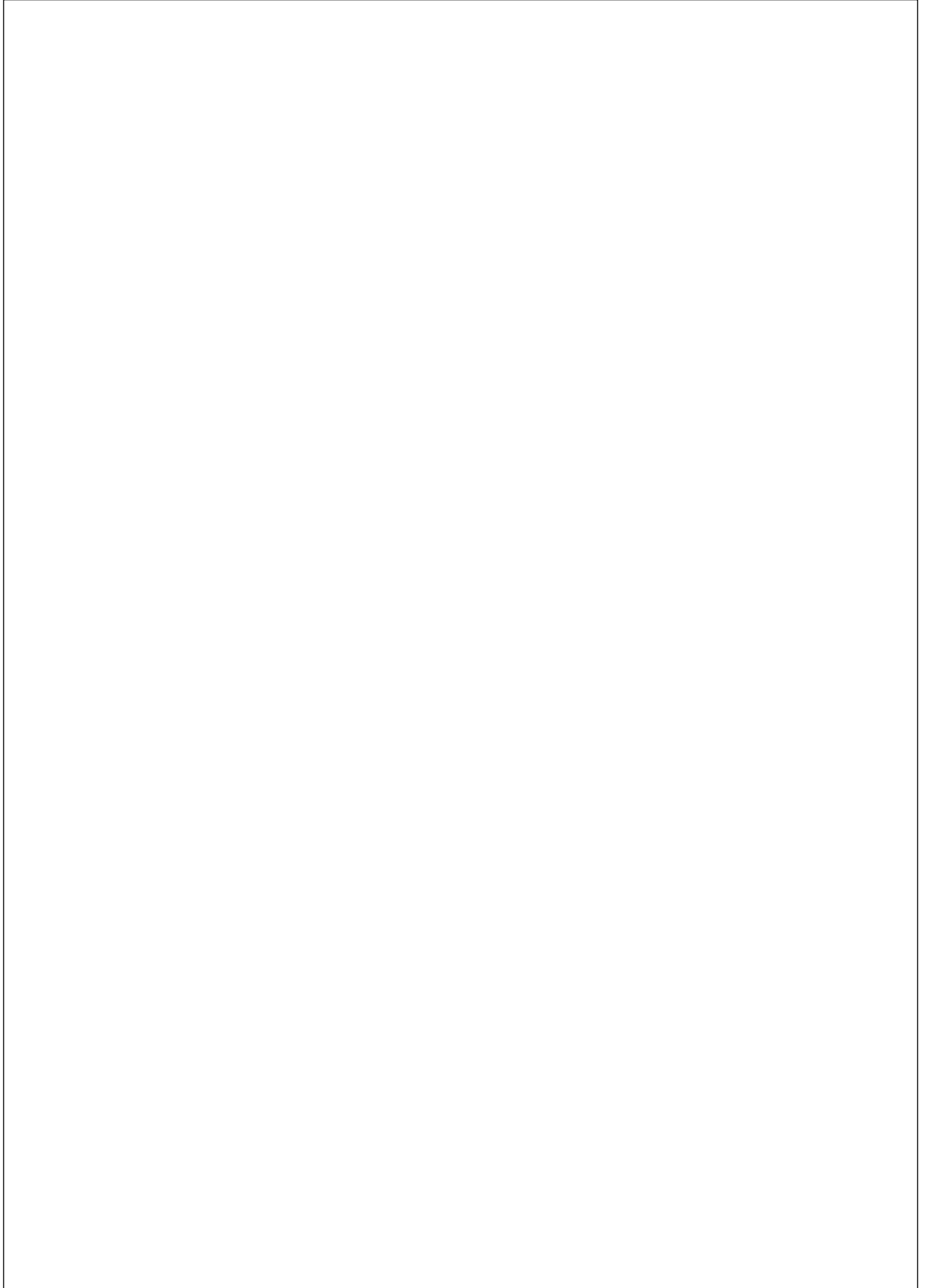
Cables



Cable cross-section sq. mm	Colour of insulation	Meter / Reel = Min. order quantity	Part no.	Meter / Coil = Min. order quantity	Part no.
Single core cable for lighting, signalling and other electrical equipment.					
Cables with cross-section of 4 sq. mm and greater can also be used as charging or starter cables.					
Layout: Bare, soft annealed CU wires, insulating sleeves of thermoplastic material (PVC).					
Short description: FLY Standard: DIN ISO 6722-3					
0.75	black	100 m	8KL 054 001-002	50 m	8KL 712 929-001
0.75	white	100 m	8KL 054 002-002	50 m	8KL 712 930-001
0.75	yellow	100 m	8KL 054 003-002	50 m	8KL 712 931-001
0.75	grey	100 m	-	50 m	8KL 712 929-011
0.75	green	100 m	8KL 054 004-002	50 m	8KL 712 929-001
0.75	red	100 m	8KL 054 005-002	50 m	8KL 712 933-001
0.75	blue	100 m	8KL 054 006-002	50 m	8KL 712 934-001
0.75	brown	100 m	8KL 054 007-002	50 m	8KL 712 935-001
1.0	black	100 m	8KL 054 008-002	50 m	8KL 712 936-001
1.0	white	100 m	8KL 054 009-002	50 m	8KL 712 937-001
1.0	yellow	100 m	8KL 054 010-002	50 m	8KL 712 938-001
1.0	green	100 m	8KL 054 011-002	50 m	8KL 712 939-001
1.0	red	100 m	8KL 054 012-002	50 m	8KL 712 940-001
1.0	blue	100 m	8KL 054 013-002	50 m	8KL 712 941-001
1.0	brown	100 m	8KL 054 014-002	50 m	8KL 712 942-001
1.5	black	100 m	8KL 712 943-002	50 m	8KL 712 943-001
1.5	white	100 m	8KL 712 944-002	50 m	8KL 712 944-001
1.5	yellow	100 m	8KL 712 945-002	50 m	8KL 712 945-001
1.5	grey	100 m	8KL 712 946-002	50 m	8KL 712 946-001
1.5	green	100 m	8KL 712 947-002	50 m	8KL 712 947-001
1.5	red	100 m	8KL 712 948-002	50 m	8KL 712 948-001
1.5	blue	100 m	8KL 712 949-002	50 m	8KL 712 949-001
1.5	brown	100 m	8KL 712 950-002	50 m	8KL 712 950-001
1.5	violet	100 m	8KL 712 951-002	50 m	8KL 712 951-001
1.5	green/red	-	-	50 m	8KL 717 460-001
1.5	grey/black	-	-	50 m	8KL 717 461-001
1.5	black/white	-	-	50 m	8KL 717 462-001
1.5	black/red	-	-	50 m	8KL 717 464-001
1.5	black/green	-	-	50 m	8KL 717 464-001
4.0	black	25 m	8KL 712 960-002	50 m	8KL 712 960-001
4.0	yellow	25 m	8KL 712 961-002	50 m	8KL 712 961-001
4.0	red	25 m	8KL 712 962-002	50 m	8KL 712 962-001
4.0	blue	25 m	8KL 712 963-002	50 m	8KL 712 963-001
6.0	black	-	-	50 m	8KL 712 964-001
6.0	red	-	-	50 m	8KL 712 965-001
6.0	blue	-	-	50 m	8KL 712 966-001
10.0	black	-	-	50 m	8KL 712 967-001
10.0	red	-	-	50 m	8KL 712 968-001
16.0	black	-	-	50 m	8KL 712 969-001
25.0	black	-	-	50 m	8KL 712 970-001
35.0	black	-	-	50 m	8KL 712 971-001
50.0	black	-	-	50 m	8KL 712 972-001
Single (two) core cable for lighting, signalling equipment, etc.					
Layout: Bare, soft annealed CU wires, insulating sleeves of thermoplastic material (PVC).					
Short description: FLYY Standard: DIN ISO 6722-3					
1 x 1.5	black	50 m	8KL 712 975-002	50 m	8KL 712 975-001
1 x 2.5	black	50 m	8KL 712 976-002	50 m	8KL 712 976-001
2 x 1.5	black	25 m	8KL 712 977-002	50 m	8KL 712 977-001
2 x 2.5	black	-	-	50 m	8KL 712 978-001
2 x 0.75	black	50 m	8KL 735 190-002	100 m	8KL 735 190-001
Flat cable suitable for loudspeakers and stereo equipment.					
Layout: Bare, soft annealed CU wires, insulating sleeves of thermoplastic material (PVC), 2 conductors connected by separate webs.					
Short description: XYFAZ Standard: DIN ISO 6722-3					
2 x 0.38	black/red	100 m	8KL 712 982-002	-	-
2 x 0.75	brown/brown-red	100 m	8KL 712 980-002	50 m	8KL 712 980-001
2 x 1.5	black/black-grey	-	-	50 m	8KL 712 981-001
Cable cross-section sq. mm	Colour of insulation	Color of individual leads		Meter / Coil = Min. order quantity	Part no.
Multi-core flat cables.					
Layout: Bare, soft annealed CU wires, insulating sleeves of thermoplastic material (PVC), conductors connected by separate webs.					
Short description: FLZY Standard: DIN ISO 6722-3					
2 x 0.5	black	black/red		100 m	8KL 054 017-001
4 x 0.5	black	blue/white/black/red		50 m	8KL 054 018-001



Cable cross-section sq. mm	Colour of insulation	Color of individual leads	Meter / Coil = Min. order quantity	Part no.
Light multi-core cable with plastic, round.				
Layout: Copper conductor, bare, fine wire, insulation and outer sheath made of PVC.				
Short description: FLYY Standard: DIN ISO 6722				
2 x 0.75	black	blue, brown	200 m	8KL 712 986-001
4 x 0.75	black	black, white, red, yellow	200 m	8KL 712 987-001
4 x 0.75	black	brown, white, red, green	200 m	8KL 712 988-001
6 x 0.75	black	black, brown, white, red, yellow, green	200 m	8KL 712 989-001
7 x 0.75	black	black, brown, blue, white, red green, yellow	200 m	8KL 712 990-001
Multi-core cable, round.				
Layout: Copper conductor, bare, fine wire, insulation and outer sheath made of PVC.				
Short description: FLYY Standard: DIN ISO 6722				
2 x 1.0	black	blue, brown	50 m	8KL 712 991-001
2 x 1.5	black	blue, brown	50 m	8KL 712 992-001
3 x 1.5	black	blue, brown, black	50 m	8KL 712 993-001
4 x 1.0	black	black, white, red, brown	50 m	8KL 712 994-001
4 x 1.5	black	black, white, red, brown	50 m	8KL 712 995-001
5 x 1.0	black	black, brown, white, red, blue	50 m	8KL 712 996-001
5 x 1.5	black	black, brown, white, red, blue	50 m	8KL 715 434-001
7 x 1.0	black	black, brown, blue, white, red green, yellow	50 m	8KL 715 435-001
7 x 1.5	black	black, brown, blue, white, red green, yellow	50 m	8KL 712 997-001
8 x 1.5	black	black, brown, white, red, blue, green, yellow, grey	50 m	8KL 713 735-001
Medium, multi-core cable with rubber hose line, round.				
Layout: Copper conductor, bare, fine wire and outer sheath made of rubber.				
Short description: 05-RR- Standard: DIN ISO 6722				
3 x 0.75	black	blue, brown, black	50 m	8KL 713 737-001
2 x 1.5	black	blue, brown	50 m	8KL 713 740-001
3 x 1.0	black	blue, brown, black	50 m	8KL 713 741-001
3 x 1.5	black	blue, brown, black	50 m	8KL 713 742-001
4 x 1.5	black	black, white, red, brown	50 m	8KL 713 744-001
5 x 1.5	black	black, brown, white, red, blue	50 m	8KL 715 436-001
7 x 1.5	black	black, brown, blue, white, red green, yellow	50 m	8KL 715 437-001
15-core cable.				
Layout: Bare, soft annealed CU wires, insulation and outer sheath made of thermoplastic material (PVC).				
Colour and numbering of individual conductors correspond to Standard ISO 4141-3.				
Short description: FLYY Standard: DIN ISO 6722				
12 x 1.5	black	brown, black, red, blue, yellow, green, grey, pink white/green, white/blue, white/black, white/brown	25 m	8KL 742 810-001
3 x 2.5		white, red/white, orange		
Special welding cable for connection to automatic and manual welders.				
Layout: Copper conductor, bare, fine wire, outer sheath made of rubber.				
Short description: H01N2-D Standard: VDE 0202 Part 6 and HD 22.6 S2.				
16.0	black	-	50 m	8KL 713 750-001
25.0	black	-	50 m	8KL 713 751-001
35.0	black	-	50 m	8KL 713 752-001
50.0	black	-	50 m	8KL 713 753-001
70.0	black	-	25 m	8KL 713 753-011
95.0	black	-	25 m	8KL 713 753-021
Multi-core PVC cable Short description: FLRY				
2 x 1.0	black	brown, white	100 m	8KL 178 452-002
2 x 1.0	black	black, white	100 m	8KL 178 452-012
5 x 1.0 / 1 x 2.0	black	(1.0) black/brown, blue, green/yellow, red, violet, (2.5) white	50 m	8KL 178 453-002
8 x 1.5 / 1 x 2.5	black	(1.5) black, brown, blue, green, grey, yellow, red, violet, (2.5) white	50 m	8KL 178 454-002
10 x 1.5 / 3 x 2.5	black	(1.5) brown, blue, green, yellow, violet, white, orange, white/blue, white/black, white/red (2.5) black, grey, red	25 m	8KL 178 456-002
12 x 1.5 / 3 x 2.5	black	white/brown, white/green, white/black, (2.5) white, orange, white/red (with data pair)	25 m	8KL 178 451-002
PVC flat lead Short description: FLFY				
2 x 0.75	black	blue, brown	50 m	8KL 177 729-002
2 x 1.5	black	blue, brown	50 m	8KL 177 729-012
2 x 2.5	black	blue, brown	50 m	8KL 177 729-022
2 x 1.5	black	black, white	50 m	8KL 177 729-112
2 x 1.5	grey	black, white	50 m	8KL 177 729-212
PVC Hose Line Short description: H05 VV-F				
2 x 0.75	black	blue, brown	100 m	8KL 177 370-032
2 x 1.0	black	blue, brown	100 m	8KL 177 370-042
2 x 1.5	black	blue, brown	100 m	8KL 177 370-052
Rubber Hose Line Short description: H05 RR-F				
2 x 0.75	black	blue, brown	100 m	8KL 713 740-042
2 x 1.0	black	blue, brown	50 m	8KL 713 740-032
Loudspeaker cable Short description: XYFAZ				
2 x 0.75	Lead 2	-	100 m	8KL 712 980-032





Rear view camera systems

9.02

Battery chargers

9.03, 9.05-9.06

Battery control units

9.04

Battery tester

9.05-9.06

Test units

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Engine test units

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Air foot pumps

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Fans

9.09

Rear view camera system for universal flush and surface mounting



RVS-1

Contents:

High-quality RVC-1 rear view camera, incl. 5-inch TFT monitor and 10 m professional harness as well as installation material.

- Is automatically activated when engaging reverse gear
- Compact TFT monitor with an overall diagonal display measurement of 12.6 cm. Also suitable for connection to other video sources (DVD, DVB-T, etc.).
- Image signal: NTSC
- All components meet the high quality requirements of the automotive industry

Part no.	Pk.	
5BD 009 690-001	1	Rear view camera system, 12V

RVC-1

Rear view camera with 500 mm connecting lead and installation material.



- Small dimensions (W x H x D with holding bracket: 56 x 47 x 38 mm)
- Extremely large visual range: 92° vertical and 120° horizontal
- Extremely high vibration resistance
- Operating temperature: -40 °C to +85 °C
- Variable surface-mounting possibilities (e.g. to tailgates, spoilers, grip rails)
- High-quality, digital image capture: 1/3 inch CMOS with 250.000 pixels
- It is also possible to connect the camera to many displays already present in the vehicle
- Image signal: NTSC

Part no.	Pk.	
5BD 166 175-001	1	Rear view camera system, 12V
8KB 166 530-001	1	Accessories: Connection cable, 10 m Adapter harness for the connection of the RVC-1 rear view camera to players with a cinch output
8KB 169 080-001	1	for the connection of video sources for the connection of video sources with cinch output to the monitor
8KB 169 079-001	1	
8ES 006 658-001	1	Accessories for RVS-1 and RVC-1: Voltage transformer for rear view camera with 24V operating voltage
9BG 169 974-001	1	Housing for rear view camera
9BG 169 975-001	1	Housing for rear view camera and LED safety brake light
2DA 343 800-001	1	LED safety brake light, 12V/1.8W



Battery chargers

Power-Charger

with car and motorbike mode. Electronic charger for normal and maintenance-free 12V lead-acid, AGM and gel batteries. The device comprises a blue plastic housing with cable reel, fuse protection and fully insulated battery clamps.

During charging, the device automatically switches to trickle charge once the full charge has been reached, which means drivers do not have to run their vehicles periodically when they do not intend to use them over the winter.

The charging process can be monitored via the LED display.



Technical data:

- 230V/50Hz; 130W
- Voltage: 12V
- Charging current RMS: 11A
- Charging time: approx. 3 - 12h
- Charging curve: WoU
- Battery capacity: two-wheeled vehicles 5 - 25Ah, cars 25 - 120Ah
- Automatic switch-off
- LED display
- Weight: approx. 2700g
- Dimension: 165 mm x 105 mm x 305 mm
- CE approved

Contains:

- Battery charger
- Terminals
- 1900 mm connecting lead
- 1500 mm main lead
- Operating instructions

Part no.	Pk.	
8ES 004 417-051	1	Battery charger Power-Charger

Turbo-Charger

Traditional charger with booster function for 12V lead-acid and AGM batteries. Overload protection by temperature limiter.

A 20A fuse protects against polarity reversal and clamp short-circuits. The booster function effects fast charging with 18A, so that a fast start is possible after only 20 minutes.

The charging process can be monitored via the LED display.



Technical data:

- 230V/50Hz; 130W
- Voltage: 12V
- Charging current RMS: 9A/18A
- Charging time: 20 min.
- Battery capacity: 5-130 Ah
- Charging curve: W
- Automatic switch-off
- LED display
- Weight: approx. 2700g
- Dimension: 165 mm x 105 mm x 305 mm
- CE approved

Contains:

- Battery charger
- Terminals
- 1900 mm connecting lead
- 1500 mm main lead
- Operating instructions

Part no.	Pk.	
8ES 004 417-061	1	Battery charger Turbo-Charger

Battery control units

for caravans, mobile homes, boats, tractors, construction machines, etc. with 12V on-board networks. As an integrated battery sensor, IBScontrol permanently determines the current state of charge of the battery and calculates the aging and remaining running time taking into account the current power consumption. Moreover, the IBScontrol can actively deactivate consumers via four individually programmable switch outputs or can warn the user of an empty battery by if a threshold has been programmed.

The IBScontrol offers a high degree of precision due to battery-specific adjustment and presents all important information at a glance.

Technical data:

- Versorgungsspannung: 6 - 18V
- Working temperature range: -40 °C up to +105 °C
- Working current range: -200A up to +200A
- Max. current measuring range: -1200A up to +1200A
- Max. battery capacity: 249Ah
- Installation area: engine compartment, interior
- Type of protection: IP 6K9K
- Power consumption at 12V:
- in operation: approx. 15 mA
- during operation: approx. 15 mA
- in standby mode: <1 mA
- Saving energy with automatic switch-off
- Data recording on micro SD card
- Graphic colour display

Contains:

- IBScontrol display (high-sheen, black)
- IBS battery sensor
- Battery pole adapter
- Completely prefabricated wire harness
- Operating/mounting instructions (CD Rom)
- Mounting assembly (screw, cable tie, mounting plates depending on variant)



Part no.	Pk.	
6PY 178 103-811	1	Battery control unit IBScontrol set for surface mounting
6PY 178 103-831	1	Battery control unit IBScontrol set for flush mounting
		Accessories:
		Contains:
		- IBS battery sensor
		- Battery pole adapter
		- Completely prefabricated wire harness
6PY 178 103-841	1	Battery control device extension set for 2 batteries

High frequency battery charger

Fully automatic high-frequency charger with nine-step charge curve. It is excellently suitable for applications with cars, motorbikes and ships. LCD display and capacitive push-button for easy and safe handling. With holder.
Diagnosis function for battery filling level and trickle charge function. Suitable for battery capacities from 1-140Ah. For lead-acid, AGM, gel and calcium batteries.

CE approved

Technical data:

- 6/12V / 50Hz; 60W
- Voltage: 6V / 12V
- Charging current: 4A
- 9-stages charging curve
- Battery capacity: 1 - 140Ah
- LCD display
- USB connection
- Dimension: ca. 200 mm x 60 mm x 80 mm
- Weight: approx. 800 gr.



Contains:

- High frequency battery charger
- Terminals
- 2000 mm connecting lead
- Operating instructions

Part no.	Pk.	
8ES 004 417-071	1	High frequency battery charger

Battery tester with integrated printer

Battery tester to check 6V / 12V batteries and 12V / 24V charging systems. Equipped with a selector switch for battery types VRLA- / GEL- / AGM- or standard SLI starter batteries. With LCD display and integrated thermal printer. Display of "State of Health" - battery capacity compared with the original (functional state) and display of "State of Charge" (charging status) possible. No discharge of the battery during testing. No sparks during connection and measuring. Battery Types: 40 - 2000 CCA (SAE). Tests discharged batteries down to 1.5V and batteries with the capacity of 2 - 200Ah. Integrated Voltmeter of 1.5 - 30V.

Standards: SAE, EN, IEC, DIN, JIS

Technical data:

- Areas of application: 6V / 12V starter batteries or 12V / 24V loading systems
- LCD display and printer
- Integrated voltmeter 1.5 - 30V
- Work area: 40 - 2000 CCA (SAE)
- 8 pre-programmed languages: (EN, ES, FR, DE, IT, PT, CN, JP)
- Enlargement possible
- Weight: 600 gr.
- Dimension: 250 mm x 145 mm x 65 mm

Contains:

- Test device in practical case
- 1750 mm lead
- Operating instructions



Part no.	Pk.	
8PD 009 734-011	1	Battery tester with integrated printer

Battery Chargers, Battery Diagnosis Unit



Battery chargers

Mini-Charger 6

Automatic charger for 6V and 12V batteries.
Housing flame resistant plastic.
Overload protection for reliable operation,
with LED charge indicator.
Pole clips with particularly strong pressure springs
for reliable contact with battery poles.
With polarity reversal protection.
Suitable for gel batteries.

CE approved

Technical data:

- 230V/50Hz; 10W
- Charging current at: 6V -> 0,8 Ampere, 12V -> 0,6 Amperes
- Automatic switch-off
- Charging curve WU
- Length of cable: 1950 mm



Part no.	Pk.	
8ES 006 266-011	1	Battery charger

Profi-Charger

Fully automatic battery charger with different charge characteristics
that are matched to the respective battery type.

Professional Charger for 12V lead-acid (Ca/Ca, Ca/Ag), AGM,
spiral and gel batteries.
Steel housing. Class of protection IP23.

CE approved

Technical data:

- 230V/50 Hz; 300W, Weight: 2500 gr.
- Charging current: 25 A
- Length of cable: 300 cm
- Euro plug
- Charging curve: IC2Uo
- Service Modus



Part no.	Pk.	
8ES 004 417-231	1	Battery charger

Battery diagnosis unit

Battery diagnosis unit for 6/12V lead-acid, AGM, spiral and gel batteries.
Also tests totally discharged batteries.
In a matter of seconds, exact information on the state of the battery.
In a case.

Standards: EN, DIN, SAE, IEC, JIS

Technical data:

- Weight: 2180 gr.
- LCD display
- Cable length: 110 cm
- 11 pre-programmed languages
- Voltmeter
- Working range
100-1700 EN/SAE
100-1000 DIN/ICE
JIS codes programmed (47)



Part no.	Pk.	
8PD 009 734-001	1	Battery diagnosis unit
8XX 009 778-001	1	Accessories: Data viewer set contains: infrared interface and software



Test units

Battery tester

Handy and sturdy instrument for professional measurement of charge and acid density on lead acid batteries.

New design prevents sample fluid from forming bubbles or running out. The precision instrument can be turned 360° allowed measurement regardless of position of instrument.

Measuring tolerance less than ± 1 %.

Part no.	Pk.	
8PD 006 541-001	1	Battery tester



Anti-freeze tester

Professional test instrument for determining anti-freeze protection temperature.

New design of intake system prevents bubble formation and run-pout. Measurement independent of cooling water temperature and ethylene glycol concentration.

Measuring tolerance less than ± 1 %.

Part no.	Pk.	
8PD 006 542-001	1	Anti-freeze tester



Circuit tester

For vehicles with 6V, 12V, or 24V-systems.

For quick fault tracing in vehicle electrical systems.

Part no.	Pk.	
8PD 003 798-001	1	Circuit tester



Tyre pressure tester

inclusive transpor tbox

Part no.	Pk.	
8PD 006 535-001	1	Tyre pressure tester metal version, scale range: 0 - 4 bar
8PD 006 536-001	1	plastic version, scale range: 0 - 3.9 bar



Engine test unit

For 4-, 6- and 8- cylinder engines.
Case made of shock-resistant plastic.

Contains:

1 storage for ignition timing light 8PD 004 835-001
1 compression tester 8PD 004 838-001
1 engine tester

Part no.	Pk.	
8PD 004 839-801	1	Engine test set

For 4, 6 and 8 cylinder engines.

For 12V vehicle electric system with standard and transistor ignition.
With stroboscope, dwell angle meter, tachometer and voltmeter.

Test capacities:

Measurement of the ignition time with simultaneous engine speed measurement:

4 cylinders 0 - 2400 rpm.
6 cylinders 0 - 1800 rpm.
8 cylinders 0 - 1200 rpm.

Measurement of the dwell angle:

4 cylinders 30° - 90°
6 cylinders 20° - 60°
8 cylinders 15° - 45°

DC voltage: 0-16V.



Part no.	Pk.	
8PD 004 834-001	1	Ignition timing adjustment device
		Spare parts:
9MK 717 686-001	1	Inductive terminal

For 12V vehicle electric system.

For exact adjustment of ignition timing for all petrol engines.

With stroboscope.

Intensive Xenon light for clear detection of the marks for ignition timing.



Part no.	Pk.	
8PD 004 835-001	1	Ignition timing adjustment rod
		Spare parts:
9MK 717 686-001	1	Inductive terminal

For 12V vehicle electric system with standard and transistor ignition.

With stroboscope, dwell angle meter, tachometer and voltmeter.

Large digital display makes it easy to read off the measured values and measuring parameters.

Test capacities:

Measurement of the ignition timing, taking into account the ignition timing adjustment angle of 0° - 40°, with simultaneous measurement of the engine speed.

Speed: 0 - 1000 rpm. Contact angle: 0° - 90°. DC voltage: 9 - 16V.



Part no.	Pk.	
8PD 006 354-011	1	Ignition timing adjustment device

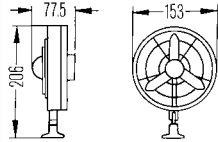
For the early detection of unequal cylinder compression.

Test capacities:

Pressure measurement: 0 - 21 bar, 0 - 300 psi.



Part no.	Pk.	
8PD 004 838-001	1	Compression tester

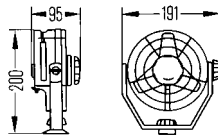


Fans

Jet

Powerful fan for a pleasant breeze or a powerful flow of air.
130 mm propeller. On/off switch on housing.
With 1500 mm cable for permanent attachment/plug connection.
Simple to fit. Can be fixed in any position.
Minimum service life 1500 hrs.
Air flow:
40 litres per sec.

Part no.	Pk.	
8EV 006 239-001	1	Fan, 12V



Turbo

Two stage switch regulates the current of air.
Can be swivelled in all directions and fixed in any position.
150 mm propeller is protected by a grille.
With 1550 mm connection cable.
Minimum service life 5000 hrs.

Air flow:
Stage 1: 70 litres per sec.
Stage 2: 95 litres per sec.

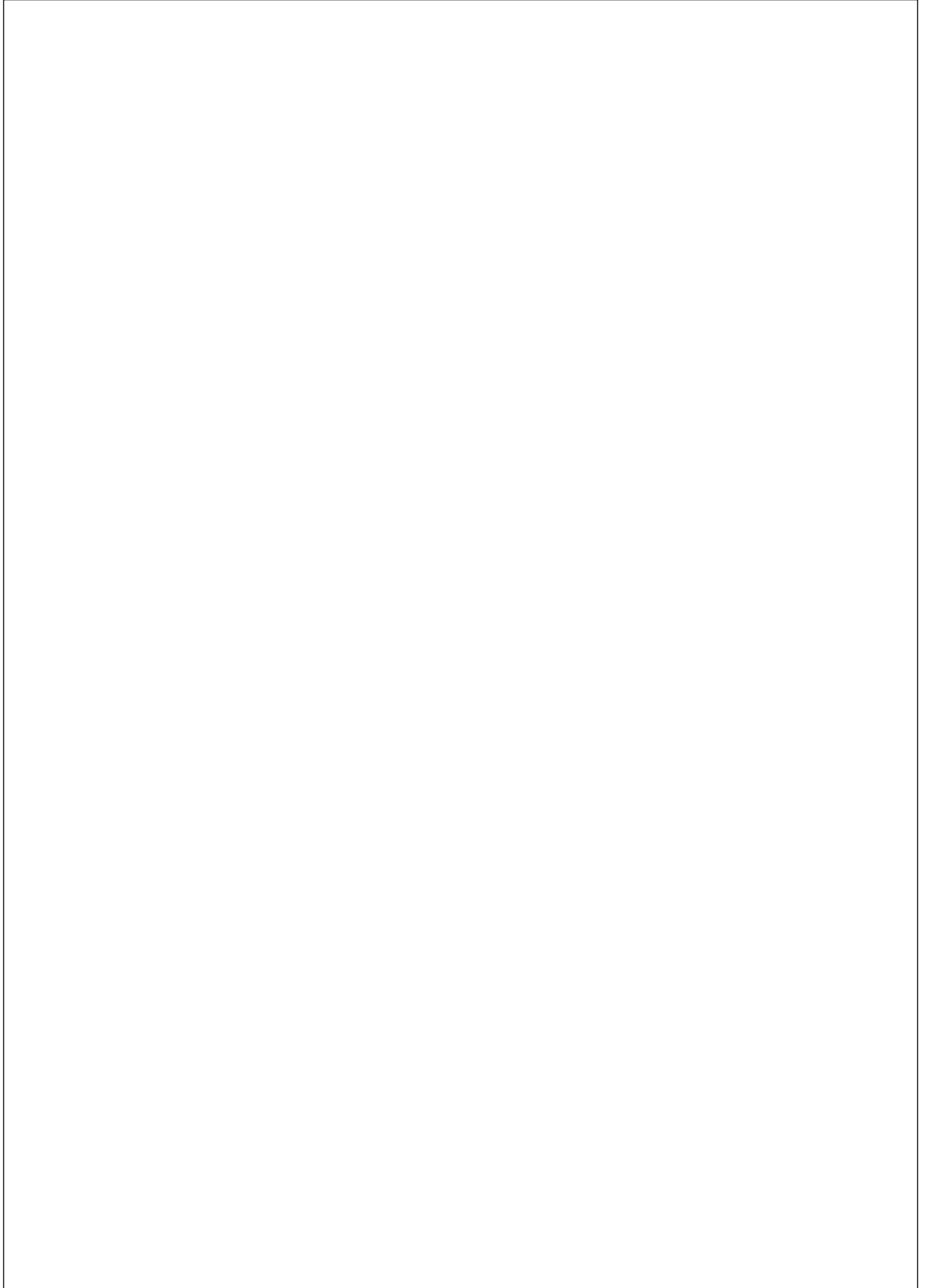
Part no.	Pk.	
8EV 003 361-001	1	Fan, 12V
8EV 003 361-011	1	24V

Air foot pumps

For cars, caravans, motorcycles and bicycles.
For recreation and camping equipment.

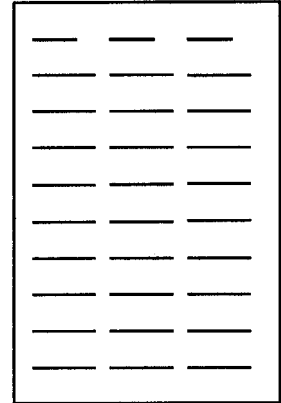


Part no.	Pk.	
8TM 003 791-002	1	210 cm ³ per stroke. Single cylinder air foot pump
8TM 003 792-001	1	420 cm ³ per stroke. Double cylinder air foot pump
9GS 857 184-001	1	Spare parts: Tube





List of Part- and Type-Approval Numbers Manufacturer's No. / Hella No.



List of part numbers

10.02-10.09

Manufacturer's no. / Hella no.

10.11-10.43

List of type-approval numbers

10.45-10.46

Note:

The original numbers listed in the manufacturer number - Hella number comparison serve exclusively for comparison purposes and are not to be used otherwise.

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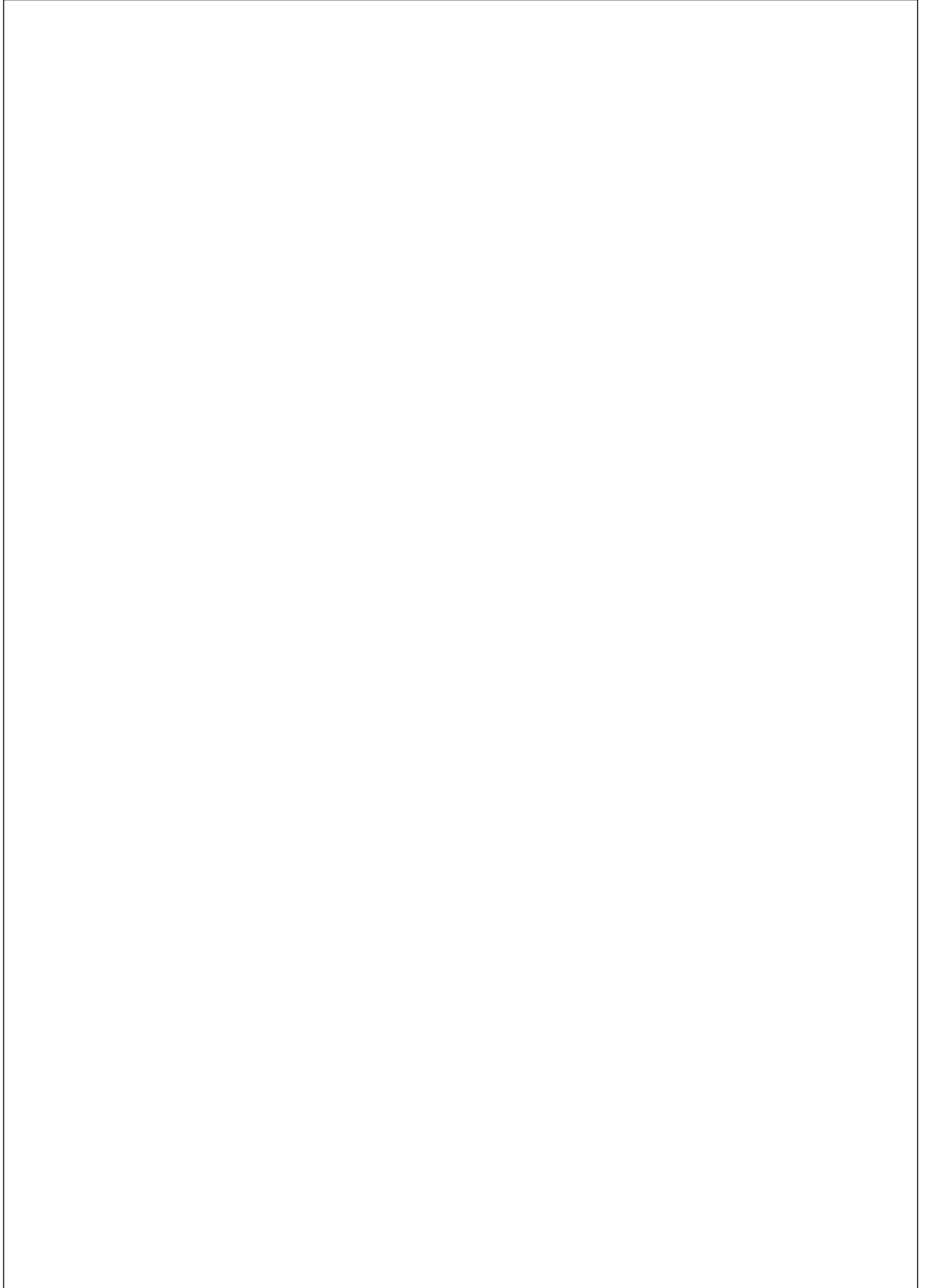


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		KDWHLO9456	6ED 001 563-004	150 63	8KX 043 021-032	GR01	4RV 008 188-171
		KDWHLO9467	8JD 002 291-001	150 64	8KX 091 450-032	GR31	4RV 008 188-181
		KDWHLO9475	8GP 002 095-241	187 713	8EV 006 239-001	GR54	4RV 008 188-321
		KDWHLO9497	6EH 004 570-011	271 95	6EH 004 406-012	GR59	4RV 008 188-081
		KDWHLO9498	6EH 004 570-021	272 39	8KL 712 968-001	GR64	4RV 008 188-161
		KDWHLO9498	6EH 004 570-027	272 40	8KL 712 967-001	GR65	4RV 008 188-091
		KDWHLO9499	9XT 713 630-281	319 31	8HG 005 953-001	GR66	4RV 008 188-101
		KDWHLO9520	6EK 001 559-001	319 32	8JA 005 951-001		
		KDWHLO9520	6EK 001 559-007	319 32	8JA 005 951-027	Blau	Hella
		KDWHLO9530	9XT 713 630-461	319 33	8JA 005 952-001	11046-SV-006	8XY 004 719-001
		KDWHLO9531	9XT 713 630-711	319 34	8JB 005 949-001	12045-SV-022	8XY 004 729-001
		KDWHLO9538	6AJ 001 751-021	330 11	8KL 712 965-001	12045-SV-022	8XY 007 747-001
		KDWHLO9644	6ZF 005 388-001	332 68	6EH 004 407-012	12045-SV-075	8XY 008 530-001
		KDWHLO9647	6EH 004 407-032	332 69	8JA 001 930-003	20035-SV-015	8XY 004 723-001
		KDWHLO9651	3AF 003 399-041	332 72	8JA 001 930-021	20035-SV-015	8XY 004 727-011
		KDWHLO9652	3AF 003 399-051	332 79	8JB 001 939-001	02035-SV-026	8XY 007 021-001
		KDWHLO9667	8JA 001 925-001	332 86	8JB 004 123-001	21060-SV-904	8XY 004 735-001
		KDWHLO9671	8ES 006 658-011	332 87	8KL 712 992-001	21080-SV-906	8XY 004 734-001
		KDWHLO9680	8JA 001 931-041	332 88	8KL 713 742-001	21080-SV-918	8XY 004 734-001
				332 88	8KL 712 980-001	26035-SV-007	8XY 004 720-001
				332 96	8KV 002 127-003		

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Cross-Reference



Blau	Hella	BMW	Hella	Bosch	Hella	Bosch	Hella
26035-SV-007	8XY 004 725-001	8 357 885	95L 706 729-011	1 987 529 029	8JS 728 596-111	0 333 402 006	4RV 008 188-101
26035-SV-009	8XY 007 103-001	8 357 885	95L 706 729-011	1 987 529 030	8JS 728 596-141	0 333 402 501	4RV 008 188-081
26040-SV-014	8XY 004 716-001	8 362 154	8TW 006 848-041	1 987 529 031	8JS 728 596-151	0 333 402 505	4RV 008 188-001
26040-SV-014	8XY 006 369-001	8 377 612	8TW 006 848-041	1 987 529 032	8JS 728 596-161	0 333 402 507	4RV 008 188-021
26040-SV-038	8XY 004 718-001	8 377 613	8TW 006 849-031	1 987 529 033	8JS 728 596-091	0 333 402 509	4RV 008 188-091
27035-SV-005	8XY 004 715-001	8 377 987	8TW 006 847-021	1 987 529 034	8JS 728 596-171	0 333 402 512	4RV 008 188-171
27040-SV-002	8XY 004 717-001	9 408 093	8KW 863 916-013	1 987 529 036	8JS 711 683-031	0 333 402 513	4RV 008 188-101
27040-SV-002	8XY 005 067-001	9 408 094	8KW 863 915-003	1 987 529 039	8JS 728 595-191	0 333 402 517	4RV 008 188-091
30080-SV-914	8XY 004 734-001	9 408 329	8KW 863 918-003	1 987 529 901	8JS 713 564-002	0 333 402 524	4RV 008 188-091
30080-SV-914	8XY 008 240-001			1 987 529 902	8JS 713 805-003	3 334 485 007	8JA 715 606-001
03035-SV-005	8XY 004 720-001			1 987 529 903	8JS 713 806-003	3 334 485 010	8JA 717 291-007
03035-SV-005	8XY 004 725-001			1 987 529 904	8JS 713 807-003	3 334 485 045	8JD 733 767-001
35060-SV-002	8XY 007 102-001			1 987 529 905	8JS 713 808-003	3 334 485 049	8JD 733 962-001
35060-SV-004	8XY 004 721-001			1 987 531 000	8JS 742 902-001	0 335 200 078	4DB 001 887-041
04040-SV-046	8XY 007 022-001			1 987 531 001	8JS 742 902-011	0 335 200 078	4DB 003 425-041
04080-SV-917	8XY 007 023-001			1 987 531 002	8JS 742 902-021	0 335 200 160	4DN 008 768-021
04080-SV-966	8XY 007 023-001			1 987 531 003	8JS 742 902-031	0 335 210 143	4DM 001 863-081
04080-SV-974	8XY 007 023-001			1 987 531 004	8JS 742 902-041	0 335 210 148	4DM 001 863-081
				1 987 531 005	8JS 742 902-061	0 335 210 250	4DW 002 834-111
				1 987 531 006	8JS 742 902-051	0 335 215 163	4DN 009 124-011
				1 987 531 007	8JS 742 902-071	0 335 215 241	4DM 002 834-001
				1 987 531 009	8JS 742 901-081	0 335 215 250	4DW 002 834-121
				1 987 531 010	8JS 742 901-071	0 335 320 900	5WA 001 871-041
				1 987 531 011	8JS 742 901-051	0 336 208 001	4DN 008 768-041
				1 987 531 012	8JS 742 901-041	3 397 001 269	9XW 858 790-801
				1 987 531 013	8JS 742 901-031	3 397 001 273	9XW 859 308-801
				1 987 531 014	8JS 742 901-021	3 397 001 342	9XW 863 147-801
				1 987 531 016	8JS 742 901-011	3 397 001 346	9XW 860 649-801
				1 987 531 017	8JS 742 901-001	3 397 001 371	9XW 861 934-801
				1 987 531 018	8JS 742 901-061	3 397 001 372	9XW 863 099-801
				1 987 532 001	8KW 732 580-003	3 397 001 394	9XW 862 068-801
				1 987 532 002	8KW 732 581-003	3 397 001 417	9XW 862 066-801
				1 987 532 008	8KW 732 571-003	3 397 001 418	9XW 863 148-801
				1 987 532 009	8KW 732 573-003	3 397 001 420	9XW 860 660-801
				1 987 532 010	8KW 732 575-003	3 397 001 422	9XW 859 865-801
				1 987 532 011	8KW 732 577-003	3 397 001 424	9XW 859 866-801
				1 987 532 014	8KW 744 754-003	3 397 001 442	9XW 860 651-801
				1 987 532 015	8KW 732 574-003	3 397 001 463	9XW 860 646-801
				1 987 532 016	8KW 732 576-003	3 397 001 465	9XW 861 931-801
				1 987 532 017	8KW 732 578-003	3 397 001 488	9XW 860 658-801
				1 987 532 017	8KW 744 755-003	3 397 001 494	9XW 860 659-801
				1 987 532 025	8KW 732 567-003	3 397 001 532	9XW 861 935-801
				1 987 532 026	8KW 744 763-003	3 397 001 539	9XW 862 043-801
				1 987 532 028	8KW 732 569-003	3 397 001 543	9XW 862 065-801
				0 250 201 933	4RV 008 188-171	3 397 001 582	9XW 861 933-801
				0 250 201 952	4RV 008 188-081	3 397 001 583	9XW 861 942-801
				0 250 201 953	4RV 008 188-001	3 397 001 584	9XW 862 064-801
				0 250 201 953	4RV 008 188-021	3 397 001 682	9XW 862 181-801
				0 280 230 009	4RP 008 189-111	3 397 001 725	9XW 862 223-801
				0 281 003 005	4RV 008 188-281	3 397 001 728	9XW 862 220-801
				0 281 003 006	4RV 008 188-301	3 397 001 802	9XW 862 743-801
				0 281 003 009	4RV 008 188-321	3 397 001 812	9XW 862 743-801
				0 281 003 012	4RV 008 188-301	3 397 001 813	9XW 864 092-801
				0 281 003 098	4RV 008 188-221	3 397 004 754	9XW 860 653-001
				0 281 003 099	4RV 008 188-181	3 397 004 757	9XW 860 654-001
				0 281 003 099	4RV 008 188-191	3 397 004 760	9XW 860 657-001
				0 307 851 327	6NM 004 375-311	3 397 004 763	9XW 860 655-001
				0 307 851 347	6NM 007 282-211	3 397 007 072	9XW 177 820-801
				0 307 852 309	6NM 004 375-311	3 397 007 096	9XW 177 832-801
				0 320 043 010	3AL 002 952-861	3 397 007 100	9XW 177 829-801
				0 320 043 010	3AL 002 952-867	3 397 007 187	9XW 177 833-801
				0 320 043 011	3AL 002 952-811	3 397 012 368	9XW 858 084-001
				0 320 043 011	3AL 002 952-817	3 397 012 455	9XW 861 932-001
				0 320 043 020	3AL 002 952-861	3 397 012 507	9XW 860 653-001
				0 320 043 020	3AL 002 952-867	3 397 012 508	9XW 860 654-001
				0 320 143 110	3BA 002 768-082	3 397 012 509	9XW 860 655-001
				0 320 143 111	3BA 002 768-551	3 397 012 510	9XW 860 656-001
				0 320 143 902	3BB 002 768-661	3 397 012 511	9XW 860 657-001
				0 320 146 101	3BA 002 768-382	3 397 012 513	9XW 862 998-001
				0 320 223 002	3AF 003 399-041	3 397 018 140	9XW 862 050-001
				0 320 223 003	3AF 003 399-051	3 397 018 145	9XW 862 051-001
				0 320 223 008	3AF 003 399-018	3 397 018 150	9XW 184 107-201
				0 320 223 009	3AF 003 399-051	3 397 018 150	9XW 862 052-001
				0 320 223 910	3AG 003 399-801	3 397 018 155	9XW 184 107-221
				0 320 226 002	3AG 003 399-801	3 397 018 155	9XW 862 054-001
				0 320 226 002	3AF 003 399-061	3 397 018 156	9XW 862 055-001
				0 320 226 003	3AF 003 399-071	3 397 018 160	9XW 862 056-001
				0 328 100 002	3PB 005 411-001	3 397 018 162	9XW 862 056-001
				0 332 014 119	4RA 007 793-031	3 397 018 165	9XW 862 058-001
				0 332 014 119	4RA 007 793-037	3 397 018 170	9XW 184 107-281
				0 332 014 134	4RA 007 791-011	3 397 018 170	9XW 862 059-001
				0 332 014 134	4RA 007 791-017	3 397 018 180	9XW 184 107-321
				0 332 014 213	4RA 933 791-081	3 397 018 180	9XW 862 060-001
				0 332 017 100	4RA 007 813-011	3 397 018 190	9XW 184 107-361
				0 332 017 100	4RA 007 813-017	3 397 018 190	9XW 862 061-001
				0 332 017 102	4RA 007 813-021	3 397 018 199	9XW 184 107-401
				0 332 019 110	4RA 007 791-021	3 397 018 199	9XW 862 062-001
				0 332 019 150	4RA 933 791-061	3 397 018 300	9XW 858 084-001
				0 332 204 125	4RD 007 794-031	3 397 018 320	9XW 860 652-001
				0 332 204 203	4RD 007 903-011	3 397 018 507	9XW 860 655-001
				0 332 204 203	4RD 007 903-017	3 397 018 545	9XW 860 656-001
				0 332 204 206	4RD 007 903-001	3 397 018 562	9XW 860 657-001
				0 332 204 206	4RD 007 903-007	3 397 018 612	9XW 860 654-001
				0 332 207 100	4RD 007 814-011	3 397 018 701	9XW 860 653-001
				0 332 207 100	4RD 007 814-017	3 397 018 802	9XW 862 998-001
				0 332 207 101	4RD 007 814-031	3 397 018 913	9XW 168 957-001
				0 332 209 150	4RD 007 794-031	3 397 018 960	9XW 863 871-001
				0 332 209 151	4RD 007 794-021	3 397 033 109	9XW 860 647-801
				0 332 209 151	4RD 007 794-027	3 397 110 288	9XW 862 060-001



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Cross-Reference

Bosch	Hella	Bosch	Hella	Bosch	Hella	Bosch	Hella
3 397 110 298	9XW 857 513-801	0 352 070 009	8JB 001 943-001	6 210 290 150	8KL 712 981-001	8 784 479 005	8KV 003 124-811
3 397 110 375	9XW 857 510-801	0 352 070 009	8JB 001 943-003	6 212 100 150	8KL 712 975-001	8 784 480 000	8KW 044 040-003
3 397 110 399	9XW 862 058-001	0 352 070 011	8JB 001 941-001	6 212 100 150	8KL 712 975-002	8 784 480 000	8KW 044 040-004
3 397 110 401	9XW 857 505-801	0 352 070 011	8JB 001 941-002	6 212 100 250	8KL 712 976-001	8 784 480 001	8KW 044 025-003
3 397 110 405	9XW 857 509-801	0 352 070 012	8JB 001 943-001	6 212 200 150	8KL 712 977-001	8 784 480 009	8KW 744 770-003
3 397 110 408	9XW 857 512-801	0 352 070 012	8JB 001 943-003	6 212 200 150	8KL 712 977-002	8 784 480 010	8KW 702 796-003
3 397 110 587	9XW 857 509-801	0 352 070 014	8JB 001 943-011	6 213 205 150	8KL 715 434-001	8 784 480 011	8KW 044 288-003
3 397 110 715	9XW 857 515-801	0 352 130 001	8JA 002 263-001	6 213 207 150	8KL 712 997-001	8 784 480 011	8KW 044 288-004
3 397 110 790	9XW 857 514-801	0 352 170 003	8JA 001 930-001	6 213 208 150	8KL 713 735-001	8 784 485 000	8KW 044 280-003
3 397 110 829	9XW 860 648-801	0 352 170 003	8JA 001 930-003	6 214 105 150	8KL 715 436-001	8 784 485 000	8KW 044 280-004
3 397 110 837	9XW 857 512-801	0 352 170 003	8JA 001 930-021	6 214 107 150	8KL 715 437-001	8 784 485 001	8KW 044 033-002
3 397 110 899	9XW 857 516-801	0 352 170 004	8JA 001 918-002	6 244 001 205	8KL 713 740-001	8 784 485 001	8KW 044 033-004
3 397 110 938	9XW 857 511-801	0 352 170 004	8JA 001 918-021	6 244 002 305	8KL 713 742-001	8 784 485 023	8KW 044 034-003
3 397 112 202	9XW 860 648-801	0 352 170 005	8JA 001 930-001	6 244 002 405	8KL 713 744-001	8 784 485 024	8KV 705 123-002
3 397 112 308	9XW 860 645-801	0 352 170 005	8JA 001 930-003	6 254 011 205	8KL 712 992-001	8 784 485 025	8KV 712 169-003
3 397 118 200	9XW 861 935-801	0 352 170 005	8JA 001 930-021	6 254 012 305	8KL 712 993-001	8 784 485 034	8KW 744 859-003
3 397 118 202	9XW 862 044-801	0 352 171 001	8JA 003 831-001	6 254 012 405	8KL 712 995-001	948 S	9XW 863 879-801
3 397 118 204	9XW 864 093-801	0 352 220 001	8JB 002 281-001	702 S	9XW 864 093-801	0 986 340 002	6ZF 004 365-001
3 397 118 301	9XW 860 645-801	0 352 220 001	8JB 002 281-002	7 186 147 722	8KV 004 418-004	0 986 352 000	8JA 002 262-001
3 397 118 302	9XW 859 308-801	0 352 221 001	8JB 004 123-001	7 781 353 133	8KW 744 775-003	0 986 352 000	8JA 002 262-003
3 397 118 303	9XW 864 094-801	0 352 221 001	8JB 004 123-002	7 781 700 006	8KW 744 752-003	0 986 352 002	8KV 005 952-001
3 397 118 304	9XW 860 659-801	0 352 222 006	8JB 001 946-031	7 781 700 007	8KW 043 635-013	0 986 352 003	8JB 005 949-001
3 397 118 305	9XW 860 651-801	0 352 222 006	8JB 001 946-041	7 781 700 008	8KW 043 635-013	0 986 352 004	8JA 005 951-001
3 397 118 306	9XW 860 658-801	0 352 222 006	8JB 002 286-021	7 781 700 009	8KW 048 056-033	0 986 352 004	8JA 005 951-003
3 397 118 308	9XW 861 941-801	0 352 222 006	8JB 002 286-031	7 781 700 009	8KW 744 823-003	0 986 352 005	8HG 005 953-001
3 397 118 325	9XW 862 221-801	0 352 222 007	8JB 001 946-041	7 781 700 017	8KW 744 769-003	0 986 352 011	8JB 005 949-001
3 397 118 327	9XW 862 115-801	0 352 222 008	8JB 001 946-031	7 781 700 018	8KW 744 771-003	0 986 352 012	8JB 005 949-011
3 397 118 400	9XW 857 515-801	0 352 222 009	8JB 001 946-001	7 781 700 021	8KW 744 772-003	0 986 352 012	8JB 005 949-012
3 397 118 401	9XW 859 865-801	0 352 222 012	8JB 004 777-011	7 781 700 022	8KW 744 773-003	0 986 352 013	8JA 005 951-001
3 397 118 402	9XW 863 147-801	0 352 320 001	8JA 001 925-001	7 781 700 025	8KW 744 776-003	0 986 352 013	8JA 005 951-003
3 397 118 403	9XW 861 934-801	0 352 321 001	8JA 002 262-001	7 781 700 027	8KV 744 858-003	0 986 352 014	8HG 005 953-001
3 397 118 404	9XW 860 646-801	0 352 321 001	8JA 002 262-003	7 781 700 028	8KV 744 860-003	0 986 352 800	8JA 002 262-001
3 397 118 406	9XW 859 866-801	0 352 321 006	8JA 002 252-101	7 781 700 032	8KW 044 041-003	0 986 352 800	8JA 002 262-003
3 397 118 420	9XW 857 516-801	0 352 321 006	8JA 002 252-101	7 781 999 550	8KW 044 022-822	0 986 354 006	8JD 002 294-081
3 397 118 422	9XW 860 649-801	0 352 321 007	8JA 002 252-101	7 781 999 552	8KW 044 028-812	A 480 S	9XW 864 075-801
3 397 118 423	9XW 863 099-801	0 352 321 007	8JA 002 252-103	7 781 999 575	8KW 044 288-812	A 530 S	9XW 864 078-801
3 397 118 427	9XW 862 771-801	0 352 321 007	8JA 004 667-001	7 781 999 575	8KW 044 022-822	A 531 S	9XW 864 076-801
3 397 118 500	9XW 857 511-801	0 354 010 001	8KV 002 127-003	7 781 999 576	8KW 044 033-812	A 533 S	9XW 864 077-801
3 397 118 505	9XW 857 512-801	0 354 010 001	8KV 002 127-007	7 781 999 577	8KW 044 027-812	A 550 S	9XW 864 080-801
3 397 118 506	9XW 862 066-801	0 354 010 001	8KV 002 136-011	7 781 999 577	8KW 044 028-812	A 607 S	9XW 864 081-801
3 397 118 540	9XW 857 513-801	0 354 020 001	8JD 002 289-001	7 781 999 578	8KW 044 027-812	A 728 S	9XW 864 079-801
3 397 118 541	9XW 863 148-801	0 354 040 001	8JD 002 294-001	7 781 999 581	8KW 044 040-812	Bremi	Hella
3 397 118 560	9XW 857 514-801	0 354 040 001	8JD 002 294-002	7 781 999 582	8KW 045 145-812	10110	8KX 091 451-032
3 397 118 560	9XW 860 660-801	0 354 060 001	8JD 002 291-001	7 781 999 583	8KW 044 025-812	10111	8KX 091 450-032
3 397 118 561	9XW 860 660-801	0 366 206 004	4AZ 003 787-001	7 781 999 584	8KW 044 026-812	10112	8KX 043 021-032
3 397 118 563	9XW 858 790-801	0 392 003 500	8TW 004 223-031	7 781 999 585	8KW 044 036-812	10113	8KX 091 452-032
3 397 118 565	9XW 862 067-801	0 392 003 501	8TW 004 223-031	7 781 999 586	8KW 044 032-812	10116	8KX 091 453-001
3 397 118 566	9XW 863 146-801	0 392 040 003	8TW 005 496-011	7 781 999 587	8KW 044 288-812	10117	8KX 707 911-011
3 397 118 600	9XW 857 509-801	552 S	9XW 862 771-801	7 781 999 930	8KL 712 943-001	10118	8KX 707 911-011
3 397 118 610	9XW 857 510-801	604 S	9XW 864 094-801	7 781 999 930	8KL 712 943-002	10131	8KS 071 414-001
3 397 118 700	9XW 860 648-801	6 168 910 161	8KL 713 750-001	7 781 999 931	8KL 712 944-001	10132	8HS 071 415-001
3 397 118 801	9XW 857 505-801	6 168 910 251	8KL 713 751-001	7 781 999 931	8KL 712 944-002	10140	8KW 700 143-003
3 397 118 900	9XW 864 075-801	6 168 910 351	8KL 713 752-001	7 781 999 932	8KL 712 948-001	10141	8KW 044 036-003
3 397 118 901	9XW 864 076-801	6 168 910 501	8KL 713 753-001	7 781 999 932	8KL 712 948-002	10141A	8KW 705 393-003
3 397 118 902	9XW 864 077-801	6 210 103 075	8KL 712 930-001	7 781 999 933	8KL 712 949-001	10141B	8KW 705 392-003
3 397 118 903	9XW 864 078-801	6 210 103 150	8KL 712 944-001	7 781 999 933	8KL 712 949-002	10141V	8KW 708 373-003
3 397 118 904	9XW 864 079-801	6 210 103 150	8KL 712 944-002	7 781 999 934	8KL 712 945-001	10142	8KW 044 022-003
3 397 118 905	9XW 177 810-801	6 210 110 075	8KL 712 931-001	7 781 999 934	8KL 712 945-002	10142SB	8KW 044 022-822
3 397 118 906	9XW 864 080-801	6 210 110 150	8KL 712 945-001	7 781 999 936	8KL 712 975-001	10142V	8KW 708 374-003
3 397 118 907	9XW 864 082-801	6 210 110 150	8KL 712 945-002	7 781 999 936	8KL 712 975-002	10143	8KW 044 024-003
3 397 118 908	9XW 864 083-801	6 210 130 075	8KL 712 933-001	7 781 999 937	8KL 712 977-001	10144	8KW 044 023-003
3 397 118 909	9XW 864 081-801	6 210 130 100	8KL 712 940-001	7 781 999 937	8KL 712 977-002	10144/9,5	8KW 700 142-003
3 397 118 911	9XW 864 084-801	6 210 130 103	8KL 712 968-001	7 781 999 947	8KL 712 960-001	10145	8KW 044 280-003
3 397 118 912	9XW 168 958-801	6 210 130 150	8KL 712 948-001	7 781 999 947	8KL 712 960-002	10146	8KW 044 033-002
3 397 118 913	9XW 168 959-801	6 210 130 150	8KL 712 948-002	813 S	9XW 864 092-801	10146SB	8KW 045 145-003
3 397 118 925	9XW 863 873-801	6 210 130 400	8KL 712 962-001	8 781 324 028	8KV 714 340-002	10147	8KW 044 040-003
3 397 118 927	9XW 863 874-801	6 210 130 400	8KL 712 962-002	8 781 353 000	8KW 744 782-003	10148	8KW 044 025-003
3 397 118 931	9XW 177 828-801	6 210 130 599	8KL 712 965-001	8 781 353 001	8KW 044 037-003	10149	8KW 044 026-003
3 397 118 933	9XW 863 875-801	6 210 150 075	8KL 712 934-001	8 781 353 007	8KW 744 778-003	10150	8KW 044 034-003
3 397 118 936	9XW 863 877-801	6 210 150 150	8KL 712 949-001	8 781 353 008	8KW 744 785-003	10151	8KW 705 123-811
3 397 118 946	9XW 863 880-801	6 210 150 150	8KL 712 949-002	8 781 353 009	8KW 044 282-003	10152SB	8KV 044 038-003
3 397 118 948	9XW 863 879-801	6 210 150 599	8KL 712 966-001	8 781 353 119	8KW 044 275-003	10157	8KW 044 275-003
3 397 118 950	9XW 863 876-801	6 210 160 100	8KL 712 939-001	8 781 353 121	8KW 044 276-003	10158	8KW 044 041-003
3 397 118 951	9XW 863 881-801	6 210 160 150	8KL 712 947-001	8 781 353 121	8KW 044 276-004	10159	8KW 044 276-003
3 397 118 955	9XW 177 827-801	6 210 160 150	8KL 712 947-002	8 781 353 122	8KW 044 291-003	10160	8KW 044 028-003
3 397 118 957	9XW 863 882-801	6 210 170 075	8KL 712 929-011	8 781 353 125	8KW 044 028-004	10161	8KW 044 028-003
3 397 118 965	9XW 168 955-801	6 210 170 150	8KL 712 946-001	8 781 353 125	8KW 044 028-004	10162	8KW 044 027-003
3 397 118 967	9XW 177 824-801	6 210 170 150	8KL 712 946-002	8 781 353 126	8KW 044 027-003	10162C	8KW 044 282-003
3397118972	9XW 177 830-801	6 210 179 150	8KL 717 461-001	8 781 353 126	8KW 044 027-004	10163	8KW 044 029-003
3 397 118 974	9XW 010 189-801	6 210 180 075	8KL 712 935-001	8 781 353 127	8KW 044 027-812	10164	8KW 044 030-003
3 397 118 977	9XW 168 956-801	6 210 180 100	8KL 712 942-001	8 781 353 127	8KW 044 039-003	10165	8KW 044 291-003
3 397 118 979	9XW 010 190-801	6 210 180 150	8KL 712 950-001	8 781 353 127	8KW 044 039-004	1016	

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Cross-Reference



Bremi	Hella	Bremi	Hella	Case	Hella	Claas	Hella
10402	8KW 043 630-013	11575/30	8JS 711 690-002	0 707703 3	4RD 007 814-017	021 448 20	6FH 007 832-151
10402A	8KW 701 235-033	11575/5	8JS 711 684-002	0 707710 5	6ZF 003 549-021	02144830	9HB 713 629-001
10404	8KW 043 636-003	11575/7,5	8JS 711 685-002	0 707795 8	8KW 044 026-003	021 448 40	9XT 714 300-341
10420	8KX 707 925-003	11575/7,5SBB	8JS 711 685-821	0 707802 6	4DW 003 390-061	021 448 50	9XT 714 300-731
10430	8KX 707 924-003	12002	9MJ 707 870-013	0 708104 6	8ES 008 124-001	021 449 10	9FF 713 627-011
10441	8KW 043 635-013	12003	9MJ 707 873-013	0 708801 1	8GP 002 095-241	021 567 60	8KV 002 133-001
10442	8KW 043 635-013	12004	9MJ 707 874-013	0 709088 3	8JB 004 777-001	021 568 60	8KV 002 133-001
10442A	8KW 048 056-033	12005	9MJ 707 871-013	7 091802	9MJ 735 430-001	021 709 80	6GM 004 570-061
10444	8KW 701 671-003	12007	9MJ 707 875-013	0 007432 8	6RH 004 570-151	021 709 80	6GM 004 570-067
10451	8JA 001 916-001	12120	8KX 707 913-011	8 601 051 8	8SB 501 263-003	023 390 00	8JS 091 603-003
10452	8JB 001 941-002	12121	8KX 707 913-001	9 802917 4	3AL 002 952-841	023 825 70	8KV 002 137-001
10452K	8JB 001 943-003	12122	8KX 707 912-001	9 803213 8	9XT 713 630-261	032 472 70	6EK 002 843-001
10453	8JA 001 918-002	12123	8KX 707 912-011	9 803272 9	6BA 001 539-001	032 472 70	6EK 002 843-003
10453	8JA 001 918-021	18376	8KV 002 142-031	9 803272 9	6BA 001 539-007	032 472 70	6EK 002 843-007
10453K	8JA 001 930-003	18378DST	8KV 002 145-031	9 803273 3	8EZ 008 022-001	034 999 20	6EK 002 843-001
10453K	8JA 001 930-021	18378ST	8KV 002 142-031	9 803273 8	8JD 004 588-001	034 999 20	6EK 002 843-003
10453SB	8JA 001 918-002	18378ST	8KV 002 144-031	9 803937 0	6FH 004 570-541	034 999 20	6EK 002 843-007
10453SB	8JA 001 918-021	18386	8KV 004 258-031	9 803971 9	6HF 001 579-061	037 272 80	8SB 002 994-001
10455K	8JA 002 263-001	18388DST	8KV 004 259-031	9 803983 0	9XT 714 300-141	4-41008190120	6ZF 003 549-001
10463	8JB 003 833-011			9 9239	8JD 002 290-001	4-48000001300	6EH 004 406-001
10470	8KW 700 144-003	Case	Hella	D F01975 2	8JB 001 943-041	4-48000001300	6EH 004 406-002
10471	8JB 005 949-001	1 141111	9MJ 707 869-013	D F06530 6	8JB 005 949-001	450 075 4160	9FF 713 627-001
10472	8JA 005 951-001	1-161-007-707-01	9EY 117 126-014				8JA 003 526-001
10473	8JA 005 952-001	1 309617	8HL 717 962-011				8JA 003 526-002
10500	8KV 002 127-003	1 31928 A1	8SB 501 263-003	Caterpillar	Hella		8BW 003 966-067
10500	8KV 002 127-021	1 344063 C1	8SB 004 288-092	141-2558	9EY 117 126-014	055 956 40	6FH 007 832-081
10500FL	8KV 714 340-002	1-34-577-027	8HG 501 257-002	170-7721	8SB 501 263-003	056 436 30	6FH 007 832-087
10501	8JD 002 288-001	1-34-677-017	8SB 003 614-001	200-1636	8SB 501 156-021	056 436 30	6GM 007 832-251
10502	8JD 002 289-001	1-34-677-082	8HG 501 257-032	200-1637	8SB 501 147-003	056 436 50	6GM 007 832-241
10504	8JD 002 294-001	1-34-677-083	8HG 501 257-042	200-6797	8SB 501 045-002	056 436 60	6FH 007 832-101
10506	8JD 002 291-001	1-34-677-1101	8SB 501 263-003	201-3977	8HS 562 691-002	056 436 60	6RH 007 832-107
10507	8JD 002 290-001	1-34-777-042	9EY 122 979-001	212-6831	6GM 004 570-061	056 436 60	6EH 007 832-041
10555/16	8JD 005 993-032	1-40-558-0521	6GM 500 212-012	02170980	6GM 004 570-067	056 436 90	6HH 007 832-321
10565/10	8JD 005 993-021	1-40-577-061	8JA 500 431-002	03495540	9XT 713 630-251	056 437 00	6GM 007 832-271
10585 10	8KL 712 997-001	1 590005 80039	5WA 001 871-041	5W-4663	8SB 002 991-081	056 437 20	6FH 007 832-621
10670	8KL 712 943-002	1 85773 A1	8SB 501 263-003	00714390	9XT 713 630-001	057 098 30	3AF 003 399-051
10672	8KL 712 943-001	1 85773 A1	8SB 501 263-014	Champion	Hella	057 098 40	6EK 001 559-001
10672/1	8KL 712 948-002	1 93 770100	8SB 003 609-061	C 29 01 085	9XW 857 505-801	057 098 40	6EK 001 559-007
10673	8KL 712 948-001	1 95773 A1	8TW 004 223-031	C 38 01 085	9XW 857 509-801	058 354 10	4DN 008 768-021
10673/1	8KL 712 948-001	1 964696 C2	9GT 960 380-005	C 41 01 085	9XW 857 510-801	058 354 10	4DN 008 768-027
10674	8KL 712 949-002	1 971266 C1	6HD 002 535-031	C 45 01 085	9XW 857 512-801	059 466 70	6HF 003 916-031
10674/1	8KL 712 949-001	299657A1	6BA 001 539-001	C 48 01 085	9XW 857 513-801	595 454 0	8BW 003 443-057
10675	8KL 712 947-002	3 057633 R91	6BA 001 539-007	C 51 01 085	9XW 857 514-801	595 457 0	8JA 713 631-001
10675/1	8KL 712 947-001	3 057633 R91	6DD 001 551-011	C 55 01 085	9XW 857 516-801	595 457 0	8JA 713 631-007
10676	8KL 712 945-002	3 058 667 R92	6DD 001 551-017	CS 53 01 085	9XW 857 515-801	5W4 663	8SB 002 991-081
10676/1	8KL 712 945-001	3 058 667 R92	6HD 001 561-001	X 4803	9XW 857 513-801	060 402 90	4DM 003 360-021
10677	8KL 712 950-002	3 118917 R93	6JF 001 571-101	X 5503	9XW 857 516-801	060 402 90	4DM 003 360-027
10677/1	8KL 712 950-001	3 133994 7	8JB 004 777-011	Chevrolet	Hella	060 402 91	4DM 003 360-021
10678	8KL 712 946-002	3 134649 7	8SB 002 997-103	02875238	8KW 044 035-003	060 413 80	4DM 003 360-027
10678/1	8KL 712 946-001	3 141916 R92	6BA 001 539-047	5981.15		060 413 80	6FH 001 579-061
10682	8KL 712 960-002	3 234431 R92	8JA 005 951-001	5981.16	4RV 008 188-091	605 006 008	8JA 003 831-001
10682/1	8KL 712 960-001	0 325227 8	8JA 005 951-003	5981.19	4RV 008 188-271	062 427 30	6JF 001 572-001
10683	8KL 712 962-002	0 325228 6	8JB 005 949-001	5981.21	4RV 008 188-281	062 476 30	6ED 001 563-021
10683/1	8KL 712 962-001	3 399522 R2	6BA 001 539-057	5981.24	4RV 008 188-271	062 476 90	8KW 700 144-003
10684	8KL 712 975-002	3 399576 R91	8SB 002 995-001	5981.26	4RV 008 188-321	065 817 00	8KV 705 123-002
10684/1	8KL 712 975-001	3 399576 R91	8SB 002 995-011	6434.46	4RV 008 188-301	065 817 00	8KV 705 123-004
10685/1	8KL 712 976-001	3 477704 0	8KW 045 145-003	6434.58	4RV 008 188-321	065 820 70	8JD 002 294-081
10686/1	8KL 712 977-001	3 477704 0	8KW 045 145-004	6434.60	8TW 006 848-061	067 443 90	8DD 001 551-011
10687	8KL 712 980-002	0 412047 0	9EY 122 979-001	6434.60	8TW 006 848-071	067 443 90	6DD 001 551-017
10687/1	8KL 712 980-001	0 412047 0	6GM 004 570-061	91.515.869	8TW 006 847-031	068 214 61	8SB 002 991-001
10694/1	8KL 712 964-001	0 412204 6	6GM 004 570-067	92.515.867	4RV 008 188-091	068 214 61	8SB 002 991-001
10695/1	8KL 712 967-001	0 442770 03	8JB 004 123-001	92.515.869	4RV 008 188-091	068 229 20	8SB 501 263-014
10696	8KL 712 993-001	0 442770 03	8JB 004 123-002	95.492.995.80	4RV 008 188-091	068 229 21	3AL 002 952-887
10697	8KL 712 995-001	4 713 318 30	8KW 044 036-003	95.496.621	4RV 008 188-081	069 542 0	8KW 044 022-003
10810	8JB 004 123-001	4 713 318 40	8KW 044 036-004	95.534.787	4RP 008 189-111	691 542 0	8KW 044 022-004
10813	8JA 002 252-103	4 713 318 40	8HG 501 253-012	96.117.510	4RV 008 188-271	006 949 10	8TW 004 223-031
10813	8JA 004 667-001	4 713 366 40	8HG 501 253-022	96.141.677	4RV 008 188-281	006 949 20	9XD 856 165-005
11150	8JA 002 262-001	0 605092 04	8SB 501 263-003	96.165.823	4RV 008 188-321	071 470 60	6BG 001 545-001
11151M	8JB 001 946-031	0 605092 04	6JF 001 571-041	96.165.824	4RV 008 188-301	007 172 91	3AL 002 952-907
11151MD	8JB 001 946-021	0 605244 61	6JF 001 571-047	96.252.036	4RV 008 188-281	074 407 00	3AL 002 952-907
11151MDST	8JB 001 946-011	0 700224 1	6ZF 003 549-001	KN.224.03	4RV 008 188-281	074 407 00	6BA 001 539-001
11515/16SB	8JS 089 015-003	0 700251 4	8KW 044 031-003	KN.350.51	4RV 008 188-281	074 407 00	6BA 001 539-007
11515/25	8JS 091 603-003	0 703900 0	8GP 002 066-121	KN.350.51	4RV 008 188-281	074 407 00	8BV 003 966-047
11515/40	8JS 713 144-003	0 706667 4	8KW 044 036-003	Claas	8KV 705 123-004	075 562 90	8HS 071 414-001
11515/5	8JS 704 073-003	7 067756	8KW 043 636-003	001 021 90	Hella	076 801 60	6DF 001 551-091
11515/8	8JS 025 889-003	7 067756	8KW 044 022-003	001 083 10	6ZF 003 549-021	817 305 2	8KV 004 418-004
11515/8SBB	8JS 025 889-801	7 067756	8KW 044 022-004	010 878 0	8KX 707 913-011	082 206 90	6JF 001 571-041
11530/1	8JS 713 549-003	0 706791 5	8KW 705 392-003	1104	8SB 002 991-081	082 206 90	6JF 001 571-047
11530/5	8JS 713 550-003	7 067931	8KW 044 039-003	1104	6JF 001 571-041	092 960 10	6ED 001 564-001
11538/10	8JS 713 805-003	7 067931	8KW 044 039-004	001 281.50	6JF 001 571-047		Hella
11538/15	8JS 713 806-003	0 707147 0	8KW 044 288-003	001 372.70	8EZ 008 022-001	13.350.000	6EH 004 570-001
11538/25	8JS 713 808-003	0 707147 0	8KW 044 288-004	001 372.70	9GH 993 984-001	13.350.000	6EH 007 832-001
11538/30	8JS 713 567-003	0 707148 7	8KW 044 022-003	141-2558	9GH 993 984-007	13.350.001	9XT 713 630-001
11538/5	8JS 713 564-002	0 707202 0	8KW 044 022-004	001 477 90	9EY 117 126-014	13.350.002	9XT 713 630-021
11565/10	8JS 713 805-003	0 707202 0	8KW 708 373-003	1580	8TW 004 223-097	13.350.004	9XT 713 630-031



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Cross-Reference

Cobo	Hella	DAF	Hella	DAF	Hella	EvoBUS	Hella
13.350.055	9XT 713 630-311	152 8173	8JD 743 557-811	090 7335	4RD 933 332-067	670 810 61 93	8SB 501 358-012
13.350.056	9XT 713 630-371	152 8174	8KW 744 807-801	090 7353	8JA 001 931-041	670 810 62 93	8SB 501 358-032
13.350.057	9XT 713 630-281	1610182	9MX 564 250-001	090 7355	8JA 003 832-011	670 810 65 93	8SB 501 359-002
13.350.058	9XT 713 630-121	161 0184	8SB 354 507-001	090 7580	8KB 990 299-001	670 810 67 93	8SB 501 359-022
13.350.059	9XT 713 630-181	161 0187	8SB 354 508-001	938 4984	8TW 004 764-041	671 810 14 16	8SB 501 346-022
13.350.060	9XT 714 300-131	167 0435	5DS 008 125-011	939 2103	8JB 001 946-041	006 820 02 42	9NM 562 843-002
13.350.062	9XT 713 630-141	167 0480	5DS 008 125-011	Dresselhaus	Hella	006 820 23 42	9NM 562 844-032
13.350.065	9XT 713 630-101	168 4027	8JD 008 151-011	11557	8KV 715 923-003	006 820 81 10	6GM 500 212-012
14.156.000	6JB 003 959-001	021 7642	6ZF 003 549-001	11562	8KV 712 169-003	7 311 077 000	6HF 002 372-041
16.351.000	6RH 004 570-411	287 2964	6ZF 182 914-051	11901	8KW 044 275-003	7 311 077 000 0	6HK 002 372-041
16.351.000	6RH 004 570-417	028 8326	4AZ 003 787-021	119011	8KW 044 276-003	7 311 077 001 0	9SF 702 331-071
16.351.000	6RH 007 832-461	030 4409	8JB 001 941-001	119021	8KW 044 291-003	7 311 077 002 0	8JA 703 947-011
16.351.000	6RH 007 832-467	030 4409	8JB 001 941-002	119051	8KW 044 036-003	7.312.007.000.0	6ED 004 778-021
16.352.000	6HH 004 570-481	030 4410	8JA 001 918-002	119051	8KW 708 373-003	7.312.018.000.0	6ED 004 778-001
16.352.000	6HH 007 832-301	030 4410	8JA 001 918-001	119052	8KW 044 022-003	7 312 019 000 0	6ED 001 563-021
16.355.000	6RH 004 570-171	036 3242	8JA 002 263-001	1190522	8KW 708 374-003	7 371 083 000 0	4DM 004 639-061
16.355.000	6RH 004 570-177	036 5630	9GD 853 490-001	119054	8KW 044 023-003	7 371 083 000 0	4DM 004 639-067
16.355.000	6RH 007 832-351	038 4984	8TW 004 764-041	119072	8KW 044 041-003	7 371 084 000 0	4JA 005 355-001
16.357.000	6RH 004 570-331	039 2103	8JB 001 946-041	119082	8KW 044 028-003	7 731 000 235 0	9GD 853 490-001
17.351.000	6GM 004 570-221	501 210058	6ZF 182 914-001	119092	8KW 044 027-003	7 731 212 000 0	8BW 003 966-007
17.351.000	6GM 007 832-251	501 210785	6ZF 182 914-011	119102	8KW 044 039-003	000 810 00 16	8SB 560 991-012
17.354.000	6GM 004 570-051	501 212606	6ZF 182 914-021	119112	8KW 044 277-003	000 810 01 48	9XD 564 323-002
17.354.000	6GM 007 832-181	501311807	6ZF 182 914-031	119154	8KW 044 029-003	000 810 01 58	8HS 563 390-002
18.091.000	4RD 933 332-071	050 6429	8JB 001 946-001	119164	8KW 044 030-003	000 810 04 11	9BP 561 138-013
AV.180.005	4RA 007 793-041	054 5963	3BA 002 768-082	119174	8KW 044 031-003	000 810 07 12	9SV 562 840-003
AV.180.006	4RA 007 793-031	056 9728	8HS 071 415-001	119184	8KW 044 038-003	000 810 11 11	9MX 562 846-002
AV.180.007	4RA 007 957-011	619 102	6ED 004 778-021	119251	8KW 044 280-003	000 810 45 16	8SB 501 147-003
AV.180.008	4RA 007 957-001	062 1969	8JA 001 915-001	119262	8KW 044 033-002	000 811 00 44	9GD 564 362-002
AV.180.011	4RD 007 794-031	062 2236	8JA 703 947-011	119274	8KW 044 034-003	000 811 00 93	9GH 562 803-002
AV.180.013	4RD 007 903-011	063 3405	8JB 001 946-031	119421	8KW 700 143-003	000 811 02 06	9HB 564 363-002
AV.180.022	4RD 007 903-001	641 959	6ZF 182 914-051	119432	8KW 044 032-003	000 811 02 86	9SV 562 829-002
AV.180.022	4RD 933 332-071	642 137	8HS 071 414-001	119441	8KW 702 796-003	000 811 03 25	9XD 564 384-002
AV.180.028	4RA 933 791-091	650 361	8SB 003 978-041	119452	8KW 044 288-003	000 811 03 60	9HB 564 364-002
Coroplast	Hella	066 0838	8JA 003 832-001	119461	8KW 044 040-003	000 811 04 25	9XD 564 376-002
302	9MJ 707 869-013	0067 657	9EY 125 314-001	119471	8KW 045 145-003	000 811 04 60	9HB 564 365-002
302	9MJ 707 870-013	006 7658	9MX 127 585-002	119482	8KW 044 025-003	000 811 05 60	9HD 564 381-002
302	9MJ 707 871-013	006 7659	9MX 561 449-001	119492	8KW 044 026-003	000 811 06 60	9HD 564 383-002
302	9MJ 707 873-013	006 7660	9MX 561 890-001	119542	8KW 044 282-003	000 811 06 61	9BG 562 812-002
302	9MJ 707 875-013	070 3748	8JA 003 831-001	11960	8KW 705 393-003	000 811 06 61	9HD 564 316-002
		070 4570	5DS 008 125-001	119761	8KW 705 392-003	000 811 07 60	9BG 562 814-002
DAF	Hella	007 2255	6LB 005 389-001	126032	8KW 701 235-033	000 811 08 60	9HB 562 837-002
010 7468	6HF 001 579-071	082 1107	8JA 001 931-041	12928	8KW 701 671-003	000 811 09 60	9BG 564 360-002
010 7469	8JA 001 926-001	084 1982	3BA 002 768-382	EvoBUS	Hella	000 811 10 20	8SB 003 212-001
119 0795	4DJ 003 767-001	084 6705	8JB 001 935-031	011 545 26 26	8JB 001 941-001	000 811 10 61	9HD 562 802-012
1190795 VSE	4DJ 003 767-001	086 7453	2AA 713 628-011	011 545 26 26	8JB 001 941-002	000 811 15 60	9BG 562 813-002
122 6138	8JA 003 526-001	086 7508	3AL 002 952-811	001 545 04 26	8JB 001 933-031	000 811 24 33	9EY 120 010-001
122 6138	8JA 003 526-002	086 7508	3AL 002 952-817	001 810 21 16	8SB 501 401-802	000 811 80 33	9EY 561 814-001
124 9459	3BA 002 768-427	086 7509	3AL 002 952-871	001 810 23 16	8SB 501 402-802	000 821 09 66	8JD 005 993-032
127 9549	8JA 002 252-101	086 7509	3AL 002 952-877	001 810 24 16	8SB 501 403-802	000 824 06 18	5WG 002 450-291
127 9549	8JA 002 252-103	086 7510	4AZ 001 879-051	001 810 27 16	8SB 501 403-822	000 824 06 18	5WG 002 450-297
129 9600	4DM 003 474-001	086 7512	4RA 003 437-091	001 810 29 16	8SB 501 401-822	000 827 00 10	5DS 009 602-001
129 9600	4DM 003 474-007	086 7512	4RA 003 437-097	001 810 29 16	8SB 501 402-822	000 827 16 09	8BW 007 757-007
130 1750	8JB 003 833-001	086 7514	4RA 965 400-031	001 810 30 16	8SB 501 403-822	000 835 47 07	8EV 003 361-011
130 1754	8JB 003 834-001	086 7515	4RD 933 332-071	001 810 33 16	8SB 501 325-002	008 545 80 24	6HH 004 175-077
130 1758	8JB 001 943-001	086 7515	4RD 933 332-077	001.810.39.16	8SB 501 325-012	000 860 10 60	8BW 003 966-037
130 1758	8JB 001 943-003	086 7519	6ED 001 564-001	001 810 58 16	8SB 501 359-022	000 860 47 26	8TW 007 540-037
130 1759	8JB 006 462-001	086 7520	6ED 004 778-001	001 810 59 16	8SB 501 137-031	000 860 54 26	8TW 004 764-041
130 1760	8JA 001 930-001	086 7521	6EH 007 832-011	001 810 83 14	8HG 002 211-001	000 860 63 26	8TW 007 540-391
130 1760	8JA 001 930-003	086 7521	6EH 007 832-012	001 810 84 14	9XD 563 637-012	8.688.074.000.0	8SB 501 081-082
130 1760	8JA 001 930-021	086 7522	6JK 007 232-001	001 811 23 14	9BP 564 386-002	8.980.601.210.0	8JB 001 944-011
133 6008	8EV 003 361-011	086 7523	6RH 004 570-411	001 811 30 14	9XD 562 800-052	009 820 30 10	6EJ 001 569-001
1343064	8TW 006 849-081	086 7523	6RH 004 570-417	001 811 31 33	9MX 127 585-002	Facet	Hella
134 4988	3SB 003 985-061	086 7524	6RH 007 832-411	001 811 45 33	9MX 564 305-002	10101	8KW 044 036-003
134 4988	3SB 003 985-067	086 7529	8JA 001 918-002	001 811 46 33	9MX 564 356-002	10102	8KW 044 022-003
135 0338	3PB 005 411-001	086 7529	8JA 001 918-021	001 811 47 33	9MX 564 357-002	10103	8KW 044 023-003
135 0339	9XL 715 989-001	086 7530	8JA 001 931-041	001 811 63 33	9MX 563 468-002	10104	8KW 044 040-003
135 4855	8GP 002 095-241	086 7531	8JA 002 252-101	001 811 66 33	9MX 562 841-002	10105	8KW 044 025-003
135 4867	8GP 002 068-121	086 7531	8JA 002 252-103	001 811 70 33	9EY 125 314-001	10107	8KW 045 145-003
135 4868	8GP 002 066-121	086 7532	8JA 002 262-001	002 545 60 80	9GD 735 641-001	10108	8KW 044 026-003
135 4869	8GP 002 066-241	086 7532	8JA 002 262-003	002 821 07 51	6JF 001 572-001	10110	8KW 044 280-003
135 4870	8GP 002 095-121	086 7535	8JA 717 291-007	3 530 100 830 1 04	8JB 003 833-001	10111	8KW 044 032-003
135 4880	8GP 002 068-241	086 7536	8JB 001 935-031	003 542 47 20	3AF 003 399-061	10112	8KW 044 033-002
135 9968	6EK 002 843-001	086 7537	8JB 001 941-001	003 544 68 32	5HE 996 152-131	10113	8KW 044 034-003
135 9968	6EK 002 843-003	086 7537	8JB 001 941-002	003 544 69 32	5HE 996 152-151	10115	8KW 702 796-003
135 9968	6EK 002 843-007	086 7538	8JB 003 833-011	357 810 01 19	8SB 501 192-002	10116	8KW 044 288-003
135 9969	9SL 706 729-011	086 7541	8KV 002 136-011	357 810 70 93	8SB 501 190-082	10120	8KV 002 137-001
135 9969	9SL 706 729-011	086 7542	8KV 003 124-811	357 811 12 11	9BP 501 238-022	10121	8KV 002 139-001
136 0008	8EV 003 361-011	086 7544	8KW 044 636-003	370 545 00 25	8JB 001 939-001	10122	8KV 002 140-001
139 5936	6ZF 007 239-001	086 7545	8KW 044 035-003	370 545 00 28	8JA 007 241-031	10123	8KW 002 141-001
142 5105	8SB 354 507-001	086 7546	8KW 048 056-033	370 545 01 43	8JB 002 281-001	10124	8KW 002 141-001
142 5108	8SB 354 508-001	086 7547	8KW 700 144-003	370 545 01 43	8JB 002 281-002	10124	8KW 705 393-003
142 5111	9MX 863 846-001	086 7583	9FF 713 627-001	370 821 00 65	8JA 002 263-031	10125	8KW 700 142-003
142 5113	9HB 863 833-001	086 7586	9XT 713 630-311	372 860 05 60	8BW		

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Cross-Reference



Facet	Hella	Farma	Hella	Febi	Hella	FENDT	Hella
10175	8KW 701 235-033	067 775	8XY 007 102-001	11995	8TW 006 848-051	D 450 598 00	6EK 001 559-001
10178	8KW 048 056-033	067 777	8XY 007 102-001	12745	4RV 008 188-291	D 450 598 00	6EK 001 559-007
10180	8KW 043 636-003	067 915	8XY 007 101-001	12746	4RV 008 188-111	D45060002	6GM 004 570-201
10181	8KW 700 144-003	067 917	8XY 007 101-001	12793	8TW 006 848-041	D 450 600 03	6GM 004 570-051
10188	8KW 044 038-003	Faun	Hella	14359	8TW 006 848-071	D 450 600 09	9XT 740 763-641
10189	8JA 002 252-103	1041 702	8JA 003 831-001	14361	8TW 006 847-031	D 450 600 13	9XT 714 300-141
10190	8JB 004 123-001	1102 741	8JA 003 832-001	14419	4RV 008 188-221	D 450 600 14	2AA 713 628-001
10194	8JA 002 262-001	1706 038	8GP 002 068-241	01483	4RP 008 189-051	D 450 600 15	8JA 715 600-001
10301	8KL 054 001-002	1708-010	8KL 054 001-002	23113	8TW 006 848-041	D 450 600 16	8HG 714 504-001
10302	8KL 054 005-002	1721-015	8KL 054 005-002	23208	8TW 006 849-091	D 450 600 21	4RA 933 332-101
10303	8KL 054 002-002	1722-043	8KL 054 002-002	23209	8TW 007 540-037	D 450 600 21	4RA 933 332-107
10304	8KL 712 943-002	1722-045	8KL 712 943-002	24068	8TW 006 849-081	D 450 634 00	6GM 004 570-231
10305	8KL 712 948-002	1764-055	8KL 712 948-002	26235	8TW 007 540-141	D 450 635 00	6FH 004 570-531
10306	8KL 712 944-002	2647-232	8KL 712 944-002	26274	8TW 006 849-011	D 450 636 00	6HH 004 570-451
10310	8KL 712 993-001	3095-281	8KL 712 993-001	30603	8TW 006 848-021	D 450 637 00	6RH 004 570-401
10313	8KL 712 980-002	34777	8KL 712 980-002	03490	8TW 005 496-011	D 450 638 00	9RT 713 630-001
10315	8KL 712 997-001	4159-650	8KL 712 997-001	03863	8TW 006 848-101	D 450 648 00	9HB 713 629-001
10318	8KL 712 960-002	4200-425	8KL 712 960-002	03940	8TW 004 223-031	D 450 649 00	8HG 713 626-001
10319	8KL 712 962-002	5138-613	8KL 712 962-002	04369	6ZF 182 914-051	D 450 650 00	6EH 004 570-001
10321	8KL 712 964-001	5161-239	8KL 712 964-001	04658	4RA 003 530-001	D 450 651 00	6FH 004 570-501
10328	8KL 712 949-002	5161-477	8KL 712 949-002	04675	4RV 008 188-161	D 450 652 00	6RH 004 570-151
10329	8KL 712 947-002	5162138	8KL 712 947-002	4796	8TW 006 848-031	D 450 654 00	9XT 713 630-421
10330	8KL 712 945-002	5221-167	8KL 712 945-002	06084	8TW 006 847-001	D 450 655 00	9RT 713 630-531
10331	8KL 712 950-002	5221-168	8KL 712 950-002	06171	8TW 006 849-001	D 450 657 00	8JA 713 631-001
10332	8KL 712 946-002	5221-168	8KL 712 946-002	06431	8TW 006 848-001	D 450 657 00	8JA 713 631-007
10365	8KL 712 948-002	5231-519	8KL 712 948-002	08677	8TW 005 496-011	D 450 658 00	9FF 713 627-001
10378	8KL 712 992-001	5231-519	8KL 712 992-001	9088	8TW 006 848-021	D 450 661 00	6FH 004 570-101
10379	8KL 712 995-001	5231-581	8KL 712 995-001	9089	8TW 006 847-021	D 450 752 00	4RA 965 400-001
10395	8KL 715 434-001	5240-775	8KL 715 434-001	FENDT	Hella	F 025 900 110 100	6EK 001 563-021
10418	8JB 005 949-011	5240-775	8JB 005 949-011	1 528 72	6ED 001 564-001	F 180 502 020 080	8KD 002 139-001
10419	8HG 005 953-001	5240-775	8HG 005 953-001	1 678 404 M1	3AL 002 952-811	F 180 502 020 080	8KV 002 139-003
10424	8JB 005 949-001	5240-875	8JB 005 949-001	1 678 404 M1	3AL 002 952-817	F 231.901.040.010	8JD 002 291-001
10425	8JA 005 951-001	5240-875	8JA 005 951-001	1 696 565 M1	4DM 003 360-021	F 238 900 020 041	3AL 002 952-811
10461	8JA 005 952-011	5240-875	8JA 005 952-011	1 696 565 M1	4DM 003 360-027	F 238 900 020 041	3AL 002 952-817
10501	8JA 001 918-002	5241-216	8JA 001 918-002	1 828 002 005 70	8SB 002 997-001	F 238 900 020 041	3AL 006 958-837
10501	8JA 001 918-021	5241 487	8JA 001 918-021	2 982 125 M91	8KV 002 127-003	F 238 900 020 043	3AL 006 958-837
10502	8JA 001 930-003	5241 487	8JA 001 930-003	2 982 125 M91	8KV 002 127-007	F 238 900 020 043	3AL 006 958-837
10502	8JA 001 930-021	5241 488	8JA 001 930-021	3 103 895 M1	4DM 008 768-001	G 297 810 150 030	8SB 501 263-014
10503	8JB 001 941-002	5241-576	8JB 001 941-002	3539335M92	4RA 933 791-061	G 737 900 020 160	6ZB 006 377-017
10504	8JB 001 943-003	5241-878	8JB 001 943-003	3539335M92	4RA 933 791-067	G 816 810 150 031	8SB 501 263-014
10514	8JA 003 833-011	5243-448	8JA 003 833-011	3 582 441 M1	8TW 004 223-031	G 816 810 190 020	3AL 004 223-031
10515	8JA 001 916-001	7000 447	8JA 001 916-001	3582444M91	8BW 003 443-067	G 930 900 020 201	3AL 002 952-827
10516	8JB 001 940-001	7000-458	8JB 001 940-001	8WV 115 095-001	4RD 007 794-031	H 816 810 200 030	8JB 008 023-067
10517	8JA 003 831-001	7000-459	8JA 003 831-001	8TW 004 764-041	8JB 008 023-011	V 309 446 00	6ZF 004 365-001
10519	8JB 001 939-001	7002-966	8JB 001 939-001	8SB 501 147-003	4RA 933 791-061	V30999200	9FF 713 627-001
10519	8JB 003 833-001	772 36 11	8JB 003 833-001	8SB 003 978-001	4RA 933 791-067	V32459100	8JD 002 294-081
10521	8JB 005 949-001	772 3617	8JB 005 949-001	8SB 003 978-041	4RA 007 793-031	V32459100	8JA 002 262-001
10522	8JA 005 951-001	7751-239	8JA 005 951-001	4270844M1	4RA 007 793-037	V329 629 00	8JA 002 262-003
10523	8JA 005 952-001	7751-239	8JA 005 952-001	4270844M1	8JS 728 596-017	V360 872 00	8KV 004 418-004
131016	8HK 710 702-101	8412-824	8HK 710 702-101	4271800M1	8JS 728 596-077	V 619 690	8JS 742 902-011
131018	8HK 710 702-111	8412-824	8HK 710 702-111	4271801M1	8JS 728 596-027	V 619 690	6BA 001 539-007
131021	8HK 710 702-131	8464-612	8HK 710 702-131	4271802M1	8JS 728 596-037	V 649 791	8JB 001 539-001
131025	8HK 710 702-151	99700033262	8HK 710 702-151	4272431M1	8JS 728 596-077	V 649 791	8JB 001 943-001
131027	8HK 710 702-161	99700033262	8HK 710 702-161	4272431M1	4RD 007 814-011	V844680	8JB 001 943-003
14632	8GP 002 066-121	9970-0034777	8GP 002 066-121	4272432M1	4RD 007 794-021	V SH2 638	8JD 002 290-141
14633	8GP 002 066-241	9970-0037752	8GP 002 066-241	4272432M1	4RD 007 794-027	X 670 305 400 000	8GP 002 066-121
14654	8GP 002 068-121	99700124294	8GP 002 068-121	4272534M1	8JB 008 023-001	X 670 305 400 000	8JA 001 918-002
14655	8GP 002 068-241	99700524611	8GP 002 068-241	4 287 339 M1	4RA 003 437-081	X 671 015 400	8KX 091 453-001
14660	8GP 002 095-241	99700589082	8GP 002 095-241	4 287 339 M1	4RA 003 437-087	X 825 200 063	8KV 002 140-001
14731	8GP 002 095-121	99700589082	8GP 002 095-121	4295879M1	4RD 007 903-001	X 825 200 175	8HS 071 414-001
7.02141	8HK 710 702-141	99700589082	8HK 710 702-141	4295879M1	4RD 007 903-007	X 825 283 230	8GP 002 066-121
09112	8JS 713 549-003	99700945314	8JS 713 549-003	4 299 489 M1	4RD 007 903-011	X 830 020 010	8KX 091 451-031
09116	8JS 713 550-003	99701041702	8JS 713 550-003	4 355 332 M1	4RD 007 903-017	X 830 020 010	8KX 091 451-031
09120	8JD 002 289-001	9970 1148363	8JD 002 289-001	4 355 332 M1	3AL 002 952-811	X 830 020 011	8KX 043 021-032
09121	8JD 002 294-001	9970 1148363	8JD 002 294-001	0 005 088 65	3AL 002 952-817	X 830 230.550.000	8JA 002 262-001
09129	8JS 713 805-003	9970-1547977	8JS 713 805-003	5 151 378 D1	6JF 001 572-001	X 830.230.550.000	8JA 002 262-003
09130	8JS 713 806-003	99701570076	8JS 713 806-003	5 151 38D 1	8JS 728 596-212	X 830 240 010	6ED 004 778-021
09131	8JS 713 564-002	99701886181	8JS 713 564-002	5 151 39D 1	8JS 728 596-222	X 830 240 020	6JF 001 571-041
09132	8JS 711 683-002	99707000447	8JS 711 683-002	7 101 002 5	8JS 728 596-232	X 830 240 020	6JF 001 571-047
09133	8JS 711 684-002	9970 7004986	8JS 711 684-002	7 101 062 4	8HG 002 211-001	X 830 240 020	6JF 001 571-047
09134	8JS 711 685-002	99707005695	8JS 711 685-002	7 101 062 4	8SB 002 406-001	X 830 240 020 000	6JF 001 571-047
09135	8JS 711 686-002	9970-7005802	8JS 711 686-002	7 111 004 5	8SB 002 407-011	X 830 240 136 000	6TA 003 394-001
09136	8JS 711 687-002	9970-7006599	8JS 711 687-002	7 113 001 1	8HG 002 211-001	X 830 240 136 000	6TA 003 394-007
09137	8JS 711 688-002	99707008987	8JS 711 688-002	7 113 001 8	8JD 002 290-001	X 830 240 136 000	6TA 003 394-011
09138	8JS 711 689-002	9970 7011562	8JS 711 689-002	7 113 002 5	8HS 071 414-001	X 830 240 136 000	6TA 003 394-017
09139	8JS 711 690-002	99707013066	8JS 711 690-002	7 113 002 6	8JB 001 946-031	X 830 250 024 000	4RA 003 530-001
09140	8JS 713 807-003	9970 7015510	8JS 713 807-003	7 113 005 8	6ED 001 564-001	X 830 250 024 000	4RA 003 530-007
09141	8JS 713 808-003	9970 7030525	8JS 713 808-003	7 113 005 8	8JA 002 262-001	Y 084 163 4	6JF 001 571-001
09152	8JS 713 567-003	9970 7731319	8JS 713 567-003	7 113 008 5	8KV 002 127-003	Y 253 101 1	3AL 002 952-811
09157	8JS 713 575-001	9970 7731320	8JS 713 575-001	7 113 008 5	8KV 002 127-007	Y 253 101 1	3AL 002 952-817
09186	8JS 728 596-801	9970 7731323	8JS 728 596-801	7 169 357 17	8JA 002 263-001	Y 307 020 150	8PE 002 007-011
09187	8JS 728 596-811	9970 7731324	8JS 728 596-811	7 195 902 8	8SB 002 994-001	Fendt-Caravan	Hella
09189	8JS 728 596-821	9970 7731323	8JS 728 596-821	7 515 585 22	8KX 091 394-001	GmbH	Hella
09190	8JS 728 596-831	99707731325	8JS 728 5				

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Cross-Reference



Ford	Hella	Freienstein	Hella	Fritzmeier	Hella	Gaisbach	Hella
8C46 13B576 AA	8JA 005 952-041	257010.LN000	8JS 711 686-002	221 325	5WG 002 450-297	539 020 32	8HK 710 701-141
92AB17K624AA	8TW 006 848-001	257015.LN000	8JS 711 687-002	221 379	4AZ 003 787-021	539 023 35	8HK 713 820-031
93BB17K624AA	8TW 006 848-001	257020.LN000	8JS 711 688-002	222 654	4DB 001 887-041	539 025 40	8HK 710 701-151
93BB17K624BA	8TW 006 847-001	257025.LN000	8JS 711 689-002	222 824	6EJ 996 067-631	539 032 50	8HK 710 701-161
95CT 17K706BA	8SB 501 147-021	257030.LN000	8JS 711 690-002	222 829	8JB 008 023-001	539 050 70	8HK 713 820-071
95CT17K706CA	8SB 501 137-031	257035.LN000	8JS 711 685-002	224531	6ZF 005 388-001	539 060 80	8HK 713 820-081
95VW17K624AA	8TW 005 206-051	297004.LN000	8JS 728 596-801	224834	8EZ 008 022-011	539 070 90	8HK 713 820-091
97CT15K234AA	4RA 965 400-031	297005.LN000	8JS 728 596-811	224843	6ZF 004 365-031	539 080 100	8HK 713 820-101
97CT15K235AA	4RA 965 400-031	297010.LN000	8JS 728 596-821	224 878	9GH 993 984-001	555 12	8KW 044 035-003
97CT15K235BA	4RA 003 530-051	297015.LN000	8JS 728 596-831	224 878	9GH 993 984-007	555 557	8KV 715 923-003
97CT17K624BA	8TW 005 496-051	297020.LN000	8JS 728 596-841	400 5745	3BA 002 768-427	555 562	8KW 712 169-003
98CT14K997AA	8KA 004 797-031	297030.LN000	8JS 728 596-851	600 196	8KW 044 036-003	555 958 25	8KW 700 144-003
98CT14K998AA	8JB 003 833-001	3751	8KW 177 784-002	600 196	8KW 044 036-004	556 1	8KW 002 137-001
98CT 15K235AC	4RA 003 437-091	3899	8KW 177 784-212	600 245	8KW 044 022-003	556 2	8KV 002 139-001
98CT 15K235AC	4RA 003 437-097	3901	8KW 177 784-302	600 245	8KW 044 022-004	556 3	8KV 002 140-001
98CT15K235CA	4RA 003 437-091	3901/10	8KW 177 784-322	604607	8KW 700 143-003	556 4	8KW 002 141-001
98CT15K235CA	4RA 003 437-097	3901/12	8KW 177 784-332	622 582	8KW 702 796-003	558 450 40	8KW 043 630-013
98CT 15K235CB	4RA 003 437-091	3901/8	8KW 177 784-312	623 125	8KW 044 035-003	558 502 9	8KW 705 393-003
98CT 15K235CB	4RA 003 437-097	3903/10	8KW 177 784-412	628 895	8KW 708 374-003	558 504 0	8KW 043 629-013
9M6T-14N135-AA	4RA 007 865-031	3903/12	8KW 177 784-422	628 895	8KW 708 374-004	558 505 4	8KW 043 630-013
9N51 2C506 BA	8TG 009 286-001	3903/8	8KW 177 784-402	662 920	8SB 003 609-061	558 505 4	8KW 048 056-033
AG9N 2A451 BB	8TG 009 286-001	3904	8KW 177 784-502	750 719	8KW 044 288-003	558 505 5 25	8KW 048 056-033
V1C4414526A	6EK 008 458-011	3904/10	8KW 177 784-512	750 719	8KW 044 288-004	558 513 5	8KW 048 056-033
V78GG 15A587AA	6ZE 001 759-051	3904/12	8KW 177 784-522	85365011	6ZF 004 365-031	558 514 3	8KW 701 671-003
V82VG 15A587AA	6ZE 001 759-071	3905/10	8KW 177 784-602	EC2888632	4DM 009 492-001	558 514 3 25	8KW 701 671-003
V84VG 15585AA	3AF 003 399-041	3905/12	8KW 177 784-612	HA4005745	3BA 002 768-427	558 531 2	8KW 744 698-003
V84VG 15585BA	3AF 003 399-051	3906	8KW 177 784-702			558 603 2	8KW 701 235-033
V92VG13350AA	4DW 003 390-061	3906/12	8KW 177 784-712			558 603 2 25	8KW 701 235-033
V93GG 18213AA	8JB 004 777-001	0041	9MJ 735 430-001	300 021	6EG 001 567-041	558 643 1	8KW 744 821-003
V95CT13K309AA	8SB 003 614-081	411210006	8HS 749 192-002	300 061	8KV 002 127-011	558 900 1	8KW 044 275-003
V96CT17K706AA	8SB 003 614-081	411210008	8HS 749 192-012	300 064	8KV 002 127-011	558 901 1	8KW 044 276-003
V96CT17K706CA	8SB 004 288-103	411210010	8HS 749 192-022	300 261	8KV 002 127-021	558 901 1 25	8KW 044 276-003
V98CT17K706AA	8SB 501 156-031	411210012	8HS 749 192-032	300 264	8KV 002 127-021	558 902 1	8KW 044 291-003
VYC1514A658AA	6ZF 003 549-001	411210013	8HS 749 192-042	300 274	8KW 002 127-003	558 902 1 25	8KW 044 291-003
XCT15K235AA	4RD 007 903-001	411210014	8HS 749 192-052	300 371	8KV 705 123-813	558 903 1	8KW 744 772-003
XCT15K235AA	4RD 007 903-007	411210016	8HS 749 192-062	300 381	8KW 044 036-812	558 904 1	8KW 744 773-003
XS4V18213AA	8JB 004 777-001	411210018	8HS 749 192-072	300 391	8KW 044 022-822	558 905 1	8KW 044 036-003
YC4417K706EA	8SB 501 147-031	411210019	8HS 749 192-082	300 401	8KW 044 032-812	558 905 11	8KW 708 373-003
YM21 13K082 BA	8TW 006 849-011	411210020	8HS 749 192-092	300 421	8KW 044 027-812	558 905 11 25	8KW 708 373-003
YM2117A612PA	8WV 115 095-001	411510006	8HS 749 193-002	300 431	8KW 044 029-003	558 905 25	8KW 044 036-003
		411510008	8HS 749 193-012	300 441	8KW 044 026-812	558 905 2	8KW 044 022-003
		411510010	8HS 749 193-022	300 451	8KW 044 025-812	558 905 22	8KW 708 374-003
		411510012	8HS 749 193-032	300 461	8KW 044 033-812	558 905 22 25	8KW 708 374-003
		411510015	8HS 749 193-042	300 502	8JS 711 685-002	558 905 2 25	8KW 044 022-003
		411510018	8HS 749 193-052	300 503	8JS 711 686-002	558 905 4	8KW 044 023-003
		411510020	8HS 749 193-062	300 504	8JS 711 687-002	558 905 4 25	8KW 044 023-003
		411510023	8HS 749 193-072	300 505	8JS 711 688-002	558 905 4 25	8KW 744 799-003
		411510025	8HS 749 193-082	300 506	8JS 711 689-002	558 906 2	8KW 044 041-003
		411510026	8HS 749 193-092	300 507	8JS 711 690-002	558 906 2 25	8KW 044 041-003
		004226.70	8JB 005 949-011	300 521	8KV 002 137-801	558 908 2	8KW 044 028-003
		005112.00	8JA 005 951-041	300 671	8KW 708 374-812	558 908 2 25	8KW 044 028-003
		005508.70	8KA 004 797-041	300 681	8KW 708 373-812	558 909 2	8KW 044 027-003
		005509.70	8KA 004 797-051	300 781	8KW 044 288-812	558 909 2 25	8KW 044 027-003
		005547.60	8JA 005 952-041	300 821	8KW 700 143-812	558 910 2	8KW 044 039-003
		005557.70	8JA 005 952-061	300 831	8KW 044 039-003	558 910 2 25	8KW 044 039-003
		005557.70	8JA 005 952-081	300 841	8KW 044 030-003	558 911 2	8KW 044 277-003
		005574.62	8KA 007 648-021	300 851	8KW 044 031-003	558 912 2	8KW 744 775-003
		005574.62	8KA 007 648-031	300 881	8KW 044 040-812	558 914 4	8KW 744 776-003
		005587.85	8KA 007 648-021	300 891	8KW 045 145-812	558 915 4	8KW 044 029-003
		005587.85	8KA 007 648-031	300 981	8KW 702 796-003	558 915 4 25	8KW 044 029-003
		005590.70	8KA 007 648-041	301 130	8GP 002 066-121	558 916 4	8KW 044 030-003
		005590.70	8KA 007 648-051	301 134	8GP 002 066-121	558 916 4 25	8KW 044 030-003
		005594.70	8KA 007 648-011	301 150	8GP 002 068-121	558 917 4	8KW 044 031-003
		005594.70	8KA 007 648-011	301 154	8GP 002 068-121	558 917 4 25	8KW 044 031-003
		005596.85	8KA 007 648-041	301 310	8GP 002 095-121	558 918 4	8KW 044 038-003
		005596.85	8KA 007 648-051	301 314	8GP 002 095-121	558 918 4 25	8KW 044 038-003
		005600.70	8JA 008 969-001	301 370	8GP 002 066-241	558 920 2	8KW 044 282-003
		005603.60	8JA 008 969-011	301 374	8GP 002 066-241	558 920 2 25	8KW 044 037-003
		580972.HN000	8HL 717 962-181	301 470	8GP 002 068-241	558 920 2 25	8KW 044 282-003
		580986.HN000	8HL 717 962-171	301 474	8GP 002 068-241	558 925 1	8KW 044 280-003
		580988.HN000	8HL 717 962-011	301 590	8GP 002 095-241	558 925 1 25	8KW 044 280-003
		580991.HN000	8HL 707 877-022	301 594	8GP 002 095-241	558 926 2	8KW 044 033-002
		580992.HN000	8HL 717 962-021	62 435	8JB 005 949-001	558 926 2 25	8KW 044 033-002
		580996.HN000	8HL 707 877-091	62 436	8JA 005 951-001	558 927 4	8KW 044 034-003
		580998.HN000	8HL 707 877-012	62 437	8JA 005 952-001	558 927 4 25	8KW 044 034-003
		005836.00	8JB 007 645-031	62 448	8JB 005 949-001	558 928 25	8KW 043 636-003
		005839.00	8JB 007 645-031	62 448	8JA 005 951-001	558 928 25	8KW 043 630-013
		005842.00	8JB 007 242-011	930 030	3CA 004 811-031	558 940 2	8KW 044 024-003
		005946.00	8JA 007 241-021	934 040	3AL 002 952-811	558 940 2 25	8KW 044 024-003
		005947.00	8JA 007 644-051	934 041	3AL 002 952-811	558 941 4	8KW 700 142-003
		005948.00	8JA 007 644-051	934 050	3AL 002 952-877	558 941 4 25	8KW 700 142-003
		6021/10	9MJ 707 869-013			558 942 1	8KW 700 143-003
		6021/20	9MJ 707 874-013	485 077 1	9MJ 735 430-001	558 942 1 25	8KW 700 143-003
		905	8KV 002 137-001	502 121 55	8HL 717 962-011	558 943 2	8KW 044 032-003
		906	8KV 002 139-001	502 161	8HL 717 962-041	558 943 2 25	8KW 044 032-003
		907	8KV 002 140-001	502 161 55	8HL 717 962-041	558 944 1	8KW 702 796-003
		908	8KV 002 141-001	502 18	8HL 707 877-051	558 944 1 25	8KW 702 796-003
				502 18 55	8HL 707 877-051	558 945 2	8KW 044 288-003
				502 351 0	8HL 717 962-051	558 945 2 25	8KW 044 288-003
				510 950 2	8KA 007 648-001	558 946 1	8KW 044 040-003
				510 950 305	8KB 007 647-001	558 946 1 25	8KW 044 040-003
				539 010 16	8HK 713 820-001	558 947 1	8KW 045 145-003
				539 010 16 55	8HK 713 820-001	558 947 1 25	8KW 045 145-003
				539 012 20	8HK 710 701-121	558 948 2	8KW 045 145-003



Manufacturer's no. / Hella no. Cross-Reference

Gaisbach	Hella	Gaisbach	Hella	Geka	Hella	Hako	Hella
558 962	8KW 744 734-003	770 075 2 75	8KL 054 006-002	77/24-F	8JB 003 833-011	19-74007-5	8GP 002 095-121
558 975 1	8KW 744 699-003	770 075 3	8KL 054 003-002	77/7	8JB 001 941-002	19-74104-0	8GP 002 068-121
558 976 1	8KW 705 392-003	770 075 4	8KL 054 004-002	78/2	8JA 002 262-001	19-74132-1	8GP 002 068-241
558 976 1 25	8KW 705 392-003	770 075 42	8KL 054 002-002	7x1	8KL 715 435-001	19-74134-7	8GP 002 066-241
730 25 161	8JS 089 015-003	770 075 42	8KL 054 001-002	FLK1,0B	8KL 712 941-001	19 74143 0	8GP 002 095-121
730 25 161 25	8JS 089 015-003	770 075 75	8KL 054 012-002	FLK1,0R	8KL 712 940-001	19-79118-5	8JA 715 606-001
730 25 25	8JS 091 603-003	770 090 2	8KL 054 013-002	FLK1,0S	8KL 712 936-001	26-20001-4	8KL 712 975-001
730 25 25 25	8JS 091 603-003	770 090 4	8KL 054 011-002	FLK1,5B	8KL 712 949-001	26-20001-4	8KL 712 975-002
730 25 5 25	8JS 704 073-003	770 090 9	8KL 054 014-002	FLK1,5R	8KL 712 948-001	26-20008-9	8KL 712 976-001
730 25 8	8JS 025 889-003	770 091 0	8KL 054 009-002	FLK1,5S	8KL 712 943-001	26-20504-7	8KL 712 950-001
730 25 8 25	8JS 025 889-003	770 110	8KL 054 008-002	FLK16S	8KL 712 969-001	26-20504-7	8KL 712 950-002
731 003	8JS 711 683-002	770 110 75	8KL 054 006-002	FLK25S	8KL 712 970-001	26-20505-4	8KL 712 949-001
731 005	8JS 711 684-002	770 110 0 75	8KL 712 962-002	FLK35S	8KL 712 971-001	26-20505-4	8KL 712 949-002
731 005 25	8JS 711 684-002	770 110 75	8KL 712 960-002	FLK50S	8KL 712 972-001	26-20536-9	8KL 712 945-001
731 005 32	8JS 711 684-821	770 111 2	8KL 712 967-001	M16/200	8KX 707 916-011	26-20536-9	8KL 712 945-002
731 007 5	8JS 711 685-002	770 111 21	8KL 712 968-001	M16/250	8KX 707 916-021	26 20540 1	8KL 712 960-001
731 007 5 25	8JS 711 685-002	770 111 3	8KL 712 969-001	M21/200	8KX 707 917-011	26 20540 1	8KL 712 960-002
731 007 5 32	8JS 711 685-821	770 112	8KL 712 970-001	M21/300	8KL 707 917-031	26-20544-3	8KL 712 964-001
731 010	8JS 711 686-002	770 113	8KL 712 971-001	P71/13	8HG 005 953-001	26-20637-7	8KL 712 948-001
731 010 25	8JS 711 686-002	770 113 5	8KL 712 972-001	ST3	8JA 002 263-001	26-20637-7	8KL 712 948-002
731 010 32	8JS 711 686-821	770 120 45	8KL 712 992-001	General Motors	Hella	26-21902-2	8KL 713 753-001
731 015	8JS 711 687-002	770 310 0	8KL 712 943-001	13250288	9GD 853 490-001	90-00553-9	3AL 002 952-811
731 015 25	8JS 711 687-002	770 310 1	8KL 712 948-001	90457812	6NM 007 282-641	90-00553-9	3AL 002 952-817
731 015 32	8JS 711 687-821	770 310 2	8KL 712 949-001	90492832	6NM 007 282-641	90-04942-0	6EG 001 567-041
731 020	8JS 711 688-002	770 310 3	8KL 712 945-001	90508709	8TW 006 849-051	90-04942-0	6EG 001 567-042
731 020 25	8JS 711 688-002	770 310 4	8KL 712 947-001	90585761	8TW 004 223-061	90-10566-9	6ZF 003 549-021
731 020 32	8JS 711 688-821	770 310 40	8KL 712 950-001	90590665	6NM 007 878-351	90-10567-7	6ZF 003 549-001
731 025	8JS 711 689-002	770 310 41	8KL 712 946-001	92191909	9GD 853 490-001	90-12221-9	6BA 001 539-001
731 025 25	8JS 711 689-002	770 310 42	8KL 712 944-001	Hagus	Hella	90-12221-9	6BA 001 539-002
731 025 32	8JS 711 689-821	770 311 0	8KL 712 960-001	50 295 032	8JS 704 073-003	90-13639-1	4RA 965 400-031
731 030	8JS 711 690-002	770 311 1	8KL 712 962-001	5115	8SB 003 978-001	90-13856-1	6DD 001 551-011
731 030 25	8JS 711 690-002	770 311 10	8KL 712 965-001	5116	8SB 003 978-041	90-13856-1	6DD 001 551-017
731 040 25	8JS 711 683-031	770 311 6 45	8KL 712 964-001	5122	8SB 003 978-041	90-14181-3	8JB 004 777-001
731 102 25	8JS 728 596-081	770 311 7 45	8KL 712 993-001	5123	8SB 003 614-001	90142563	6ED 001 563-001
731 103 25	8JS 728 596-101	770 311 8 45	8KL 715 434-001	5175	8SB 003 614-011	90142563	6ED 001 563-003
731 104 25	8JS 728 596-121	770 311 9 45	8KL 712 997-001	9617	8SB 501 081-031	90142563	6ED 001 563-004
731 104 25	8JS 728 596-801	985 1 75	8KL 712 995-001	9621	9EY 125 314-001	90174897	8SB 003 614-001
731 105 25	8JS 728 596-131	985 2 75	9MJ 707 874-013	9622	9EY 120 010-001	90-19491-1	3BA 002 768-771
731 105 25	8JS 728 596-811	985 4 75	9MJ 707 875-013	9623	9EY 122 979-001	90-19491-1	3BA 002 768-777
731 110 25	8JS 728 596-141	985 4 75	9MJ 707 871-013	9624	9MX 127 586-001	90-19609-8	8WB 003 248-001
731 110 25	8JS 728 596-821	985 5 00	9XX 734 570-001	9625	9MX 127 585-002	90-19609-8	8WB 003 248-002
731 115 25	8JS 728 596-151	985 5 75	9MJ 707 873-013	9627	9MX 560 096-002	90-28769-9	8JB 005 949-001
731 115 25	8JS 728 596-831	985 6 75	9MJ 707 869-013	9648	9EY 117 129-001	90-29489-3	8SB 501 137-031
731 120 25	8JS 728 596-161	985 8 75	9MJ 707 870-013	9672	9EY 561 445-001	90-34014-3	8KX 707 916-001
731 120 25	8JS 728 596-841	Geka	Hella	9673	9MX 561 449-001	90-34014-4	8KK 091 394-001
731 125 25	8JS 728 596-091	1202	8KV 002 137-001	Hako	Hella	90-35733-6	8SB 003 614-081
731 130 25	8JS 728 596-171	1206	8KV 002 139-001	14 99501 9	8KX 091 451-031	90-35779-9	8KA 003 806-001
731 130 25	8JS 728 596-851	1210	8KV 002 140-001	14 99501 9	8KX 091 451-032	90-36049-5	8SB 003 614-091
731 175 25	8JS 728 596-111	1211	8KV 004 418-004	19-25016-4	6GM 007 832-191	90-37956-1	4AZ 003 787-021
731 220 25	8JS 728 595-051	21/300	8KX 091 394-001	19-25016-4	6GM 007 832-197	90 38850 5	9FF 713 627-001
731 230 25	8JS 728 595-061	21/400	8KX 719 757-001	19-25017-2	6FM 007 832-101	90-38852-1	9XT 713 630-461
731 240 25	8JS 728 595-071	2463	8KV 002 132-001	19-25017-2	6FH 007 832-107	90-43446-5	4AX 001 879-051
731 250 25	8JS 728 595-081	35029	8KW 708 373-003	19-25020-4	6FH 007 832-107	90 50892 0	8SB 501 156-021
731 260 25	8JS 728 595-091	35030	8KW 708 374-003	19-25021-2	9XT 714 300-041	90-71346-2	8JA 002 262-001
731 270 25	8JS 728 595-101	35032	8KW 044 036-003	19-25022-0	9FF 713 627-001	90-71346-2	8JA 002 262-003
731 501 25	8JS 713 575-021	35033	8KW 044 022-003	19-25022-0	8HG 716 734-001	90-74077-7	8SB 002 994-001
731 80 25	8JS 713 575-041	35034	8KW 044 023-003	19-25023-8	8HG 716 734-007	90-74225-5	8HG 713 626-001
732 30 10	8JS 713 805-003	35135	8KW 044 023-003	19-25023-8	8HG 716 735-001	90-74226-3	6EH 007 832-001
732 30 15	8JS 713 806-003	35136	8KW 044 288-003	19-25023-8	8HG 716 735-007	90-74226-3	6EH 007 832-007
732 30 20	8JS 713 807-003	35226	8KW 043 636-003	19-25027-9	8HG 716 735-007	90-74227-1	9HB 713 629-001
732 30 25	8JS 713 808-003	35255	8KW 044 027-003	19-25033-5	9XT 713 630-201	90-74227-1	9XT 713 630-251
732 30 30	8JS 713 567-003	35332	8KW 045 145-003	19-25520-7	6FG 002 315-001	90-74230-5	9XT 713 630-101
732 30 30	8JS 713 569-003	35334	8KW 044 026-003	19255298	9XT 713 630-281	90 74231 3	9XT 713 630-421
733 20 5	8JS 713 549-003	35334	8KW 044 026-003	19-25535-5	9XT 713 630-301	90-74232-1	9XT 713 630-711
770 010 0	8KL 712 943-002	35335	8KW 044 040-003	19-25536-3	9XT 714 300-201	90-74240-4	6RH 007 832-351
770 010 0 45	8KL 712 943-001	35337	8KW 044 025-003	19-25542-1	2AA 713 628-011	90-74241-2	6RH 007 832-331
770 010 0 75	8KL 712 943-002	35540	8KW 044 280-003	19-25543-9	9XT 734 713-341	90-74242-0	6GM 007 832-181
770 010 1	8KL 712 948-002	35541	8KW 044 033-002	19-25543-9	9XT 734 713-341	90-74243-8	9XT 713 630-131
770 010 1 45	8KL 712 948-001	35542	8KW 044 034-003	19-25545-4	9XT 714 300-181	90-74243-8	8SB 501 147-021
770 010 1 75	8KL 712 948-002	4x0,75	8KL 712 987-001	19-25546-2	2AA 713 628-001	90-799305	8JD 004 588-001
770 010 2	8KL 712 949-002	5009	8KW 043 629-013	19 25585 0	9XT 713 630-251	95-80157-7	
770 010 2 45	8KL 712 949-001	6x0,75	8KL 712 989-001	19 25585 8	6GM 007 832-197	Hanamag	Hella
770 010 2 75	8KL 712 949-002	625/16	8JS 089 015-003	19 25586 8	6FM 007 832-101	(Komatsug)	
770 010 3	8KL 712 945-002	625/25	8JS 091 603-003	19 25586 8	6FH 007 832-107	1732 183 M1	6HF 001 579-052
770 010 3 45	8KL 712 945-001	625/5	8JS 704 073-003	19 25588 4	6FH 007 832-107	1732 184 M1	8JA 001 926-001
770 010 3 75	8KL 712 945-002	625/8	8JS 025 889-003	19255900	9XT 714 300-041	000 1800 407	8JD 002 294-001
770 010 4	8KL 712 947-002	630/10	8JS 711 686-002	19255900	8HG 716 734-007	000 1800 407	8JD 002 294-002
770 010 40	8KL 712 950-002	630/15	8JS 711 687-002	19 25591 8	8HG 716 735-001	000 1800 607	8JD 002 291-001
770 010 40 45	8KL 712 950-001	630/20	8JS 711 688-002	19 25591 8	8HG 716 735-007	000 1801 206	3AL 002 952-811
770 010 40 75	8KL 712 950-002	630/25	8JS 711 689-002	19-49501-9	8KX 091 451-031	000 1801 206	3AL 002 952-817
770 010 41	8KL 712 946-002	630/3	8JS 711 683-002	19-49501-9	8KX 091 451-032	185 7030 040	9EY 117 129-001
770 010 41 75	8KL 712 946-002	630/30	8JS 711 690-002	19-49502-7	8KX 091 452-031	20E-06-H9150	3AG 003 399-101
770 010 42	8KL 712 944-002	630/5	8JS 711 684-002	19-49502-7	8KX 091 452-032	20E-06-K1940	6BG 001 545-001
770 010 42 75	8KL 712 944-002	630/7,5	8JS 711 685-002	19-49702-3	8KX 091 452-032	20K 0632 130	4RD 007 903-021
770 010							

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Cross-Reference



Hanomag (Komatsu)	Hella	Hanomag (Komatsu)	Hella	HERTH & BUSS	Hella	HERTH & BUSS	Hella
2937 745 M91	4DM 003 474-007	X 860 400 021 771	5WA 001 871-041	50 251 808	8KW 863 917-013	50 252 513	8KW 044 024-003
2942 267 M 1	9EY 111 231-001	X 860 400 021 831	8JA 001 926-001	50 251 809	8KW 863 924-003	50 252 514	8KW 700 142-003
2942 408 M1	8SB 002 407-011	X 860 460 000 140	8JD 002 294-001	50 251 810	8KW 863 918-003	50 252 519	8KW 744 699-003
2951376M1	6ED 001 563-001	X 860 460 000 140	8JD 002 294-002	50 251 811	8KW 863 945-003	50 252 520	8KW 702 796-003
2951376M1	6ED 001 563-003	X86097518000	3AL 002 952-811	50 251 812	8KW 863 918-013	50 252 521	8KW 044 288-003
2951376M1	6ED 001 563-004	X86097518000	3AL 002 952-817	50 251 813	8KW 863 926-003	50 252 522	8KW 044 288-812
295 1388 M91	6ED 001 564-001	X 862 170 153 311	8JB 001 946-031	50 251 814	8KW 863 926-013	50 252 522	8KW 744 700-003
2986 336 M1	6ED 004 778-031	X 880 000 921 241	8JD 002 289-001	50 251 815	8KW 863 916-003	50 252 530	8KW 045 145-003
2995 668 X1	8JS 091 603-003	X 880 000 921 243	8JB 004 123-001	50 251 816	8KW 863 919-003	50 252 531	8KW 045 145-812
2996 403 M1	8KV 002 127-011	X 880 000 921 243	8JB 004 123-002	50 251 817	8KW 863 919-013	50 252 531/03	8KW 044 026-003
300 2760 X1	8KV 002 137-001	X 880 000 921 246	8JA 002 262-001	50 251 818	8KW 863 925-003	50 252 531/66	8KW 044 026-812
3002 760 X1	8KV 002 137-001	X 880 000 921 246	8JA 002 262-003	50 251 819	8KW 863 925-013	50 252 532	8KW 044 026-812
3074 153 M91	8KV 002 127-021	X 880 000 983 332	9EY 111 126-001	50 251 822	8KW 054 948-003	50 252 532/66	8KW 044 040-003
3083 184 M91	8HK 710 702-191	X 880 001 085 192	6ED 004 778-021	50 251 823	8KW 054 948-013	50 252 532/66	8KW 044 040-812
3083 497 M91	6HD 001 561-001	Y251 083 0	6HF 001 579-061	50 251 825	8KW 054 947-003	50 252 533	8KW 044 025-003
3086 997 M1	8JB 001 935-031	Y253 101 1	3AL 002 952-811	50 251 826	8KW 054 947-013	50 252 533/03	8KW 044 025-812
308 9997 M1	8JB 001 935-031	Y253 101 1	3AL 002 952-817	50 251 827	8KW 863 934-003	50 252 533/66	8KW 044 025-812
3095 145 M91	4DB 001 887-041			50 251 828	8KW 863 927-003	50 252 536	8KW 744 734-003
322 7704 M91	8SB 002 992-001			50 251 828	8KW 863 923-003	50 252 540	8KW 044 280-003
3227 704 M91	8SB 002 992-001			50 251 829	8KW 863 922-003	50 252 541	8KW 044 033-002
322 7798 M1	9GH 045 833-001			50 251 832	8KW 863 916-013	50 252 541/03	8KW 044 033-812
32372440	8KW 044 025-003			50 251 833	8KW 863 915-003	50 252 541/66	8KW 044 033-812
3246 135 M1	8KV 002 127-003			50 251 835	8KW 744 866-003	50 252 544	8KW 044 034-003
3246 135 M1	8KV 002 127-007			50 251 835	8KW 863 922-013	50 252 550	8KW 700 143-003
3246 183 M1	8HL 707 877-012			50 251 836	8KW 744 864-003	50 252 550/66	8KW 700 143-812
381 8102 616	8SB 003 978-041			50 251 836	8KW 863 923-013	50 252 551	8KW 044 032-003
38521340	8EZ 008 022-011			50 251 849	8KW 863 929-003	50 252 551/03	8KW 044 032-812
4099 65M 1	8JB 001 941-001			50 251 857	8KW 863 927-013	50 252 554	8KW 732 579-003
4099 65M 1	8JB 001 941-002			50 251 858	8KW 863 931-003	50 252 552	8KW 732 579-003
4210 0H0 650	8JB 001 944-011			50 251 871	8KW 863 934-023	50 252 552/66	8KW 732 579-003
4210 6H9 010	3BA 002 768-427			50 251 871	8KW 863 934-024	50 252 552/99	8KW 732 579-003
421 06H9 030	3BA 002 768-201			50 251 874	8KW 054 944-003	50 252 553	8KW 732 580-003
421 06H9 031	3BA 002 768-201			50 251 874	8KW 054 943-003	50 252 553/66	8KW 732 580-003
42106H9110	3AF 003 399-061			50 251 875	8KW 054 941-003	50 252 553/99	8KW 732 580-003
4240141M91	3AL 002 952-841			50 251 876	8KW 054 942-003	50 252 554	8KW 732 581-003
4241 531 M91	3AL 002 952-827			50 251 950	8KW 746 780-003	50 252 554/66	8KW 732 581-003
42U0613150	3AL 002 952-827			50 251 951	8KW 746 781-003	50 252 554/99	8KW 732 581-003
42U0613151	3AL 002 952-827			50 252 111	8KW 044 275-003	50 252 565	8KW 044 035-003
42U0 6H1 3150	3AL 002 952-827			50 252 112	8KW 044 276-003	50 252 566	8KW 044 035-003
44030599	8JA 002 262-001			50 252 112/66	8KW 044 276-812	50 252 567	8KW 715 923-003
44030599	8JA 002 262-003			50 252 113	8KW 044 291-003	50 252 567	8KV 715 923-801
44030799	8JB 001 946-021			50 252 114	8KW 744 772-003	50 252 568	8KV 715 923-003
44030799	8JB 001 946-021			50 252 115	8KW 744 773-003	50 252 568/99	8KV 715 923-003
4901 672 M1	6FH 004 570-501			50 252 116	8KW 744 774-003	50 252 569	8KW 705 123-003
4901 673 M1	9FF 713 627-011			50 252 120	8KW 044 041-003	50 252 569/66	8KV 705 123-813
4901 674 M1	6GM 004 570-201			50 252 121	8KW 044 028-003	50 252 569/99	8KV 705 123-004
4901 684 M1	6JF 001 571-001			50 252 121/66	8KW 044 028-812	50 252 571	8KV 712 169-003
501 1800 031	8GP 002 955-241			50 252 122	8KW 044 027-003	50 252 571/66	8KV 712 169-003
50134398	8JB 001 940-001			50 252 122/03	8KW 044 027-812	50 252 575	8KW 744 858-003
504 1810 014	8KV 002 139-001			50 252 122/66	8KW 044 027-812	50 252 576	8KW 744 859-003
50730999	8KV 002 139-003			50 252 123	8KW 044 039-003	50 252 577	8KV 744 860-003
50730999	6JF 001 572-001			50 252 123	8KW 044 039-812	50 252 601	8KW 732 570-003
50941798	8JS 711 686-002			50 252 123/66	8KW 044 039-812	50 252 601/99	8KW 732 570-003
50941798	8JS 711 686-007			50 252 124	8KW 044 277-003	50 252 602	8KW 732 572-003
055109	8KW 044 031-003			50 252 124/66	8KW 044 277-812	50 252 602/99	8KW 732 572-003
05511440	8KW 044 022-003			50 252 125	8KW 744 775-003	50 252 606	8KW 732 571-003
05511440	8KW 044 022-004			50 252 125	8KW 744 776-003	50 252 606/99	8KW 732 571-003
05513140	8KW 044 023-003			50 252 125/66	8KW 044 029-003	50 252 607	8KW 732 573-003
05513140	8KW 044 023-004			50 252 126	8KW 044 030-003	50 252 607/99	8KW 732 573-003
05712540	6ED 001 563-001			50 252 126	8KW 044 031-003	50 252 608	8KW 732 575-003
05712540	6ED 001 563-003			50 252 127	8KW 044 038-003	50 252 609	8KW 732 577-003
05712540	6ED 001 563-004			50 252 127	8KW 744 839-003	50 252 610	8KW 744 754-003
05729640	8KV 002 132-001			50 252 127	8KW 744 840-003	50 252 612	8KW 732 574-003
582 9547 09	8SB 002 991-001			50 252 127	8KW 744 841-003	50 252 612/99	8KW 732 574-003
595 9751 910	8SB 002 991-001			50 252 127	8KW 744 842-003	50 252 613	8KW 732 576-003
595 9752 210	8SB 002 991-001			50 252 127	8KW 744 843-003	50 252 613/99	8KW 732 576-003
000 0620 953	8JB 001 946-021			50 252 127	8KW 744 844-003	50 252 614	8KW 732 578-003
000 0620 953	8JB 001 946-022			50 252 127	8KW 744 845-003	50 252 614/99	8KW 732 578-003
716 9357 17	8JA 002 263-001			50 252 127	8KW 744 846-003	50 252 615	8KW 744 755-003
751 5585 22	8KX 091 394-001			50 252 127	8KW 744 847-003	50 252 622	8KW 732 566-003
751 8700 18	6BG 001 545-001			50 252 127	8KW 744 847-003	50 252 622/99	8KW 732 566-003
077 3941 386	9EY 111 231-001			50 252 127	8KW 744 777-003	50 252 623	8KW 732 567-003
077 3941 760	8SB 002 992-001			50 252 127	8KW 744 778-003	50 252 623/99	8KW 732 567-003
960021	6HD 002 535-101			50 252 127	8KW 744 779-003	50 252 625	8KW 732 568-003
9750 010 65	8GP 002 095-121			50 252 127	8KW 744 780-003	50 252 625/99	8KW 732 568-003
000 0998 223	8JA 703 947-011			50 252 127	8KW 744 782-003	50 252 626	8KW 732 569-003
B 961 713 242 06	8KV 705 123-002			50 252 127	8KW 044 282-003	50 252 626/99	8KW 732 569-003
B 961 713 242 06	8KV 705 123-004			50 252 127	8KW 744 783-003	50 252 627	8KW 744 761-003
B 969 171 324 201	6BA 001 539-001			50 252 127	8KW 744 784-003	50 252 628	8KW 744 762-003
B 969 171 324 201	6BA 001 539-007			50 252 127	8KW 744 785-003	50 252 629	8KW 744 763-003
B 969 171 324 201	8SB 002 992-001			50 252 127	8KW 744 786-003	50 252 631	8KW 744 765-003
B 969 171 324 213	8PD 004 509-001			50 252 127	8KW 044 037-003	50 252 631	8KW 744 765-003
B 969 171 346 206	6ZE 001 759-071			50 252 127	8KW 744 769-003	50 252 632	8KW 744 766-003
B 969 271 409 203	8KX 043 021-031			50 252 127	8KW 744 770-003	50 252 633	8KW 744 767-003
B 969 271 409 203	8KX 043 021-032			50 252 127	8KW 744 771-003	50 252 634	8KW 744 768-003
B 969 271 409 204	8KX 091 452-031			50 252 127	8KW 705 393-003	50 252 639	8KW 744 890-013
B 969 271 409 204	8KX 091 452-032			50 252 127	8KW 705 393-812	50 252 639/66	8KW 744 890-013
B 969 271 409 205	8JS 711 685-002			50 252 127	8KW 705 392-003	50 252 639/99	8KW 744 890-013
B 969 271 409 206	8JS 711 686-002			50 252 127	8KW 705 392-812	50 252 640	8KW 744 887-013
B 969 271 409 206	8JS 711 686-007			50 252 127	8KW 744 697-003	50 252 640/66	8KW 744 887-013
B 969 271 409 207	8JS 711 687-002			50 252 127	8KW 744 698-003	50 252 640/99	8KW 744 887-013
B 969 271 409 207	8JS 711 687-007						



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Cross-Reference

HERTH & BUSS	Hella	HERTH & BUSS	Hella	HERTH & BUSS	Hella	HERTH & BUSS	Hella
50 252 658	8KW 177 727-212	50 290 038/33	8KV 003 284-001	50 295 296	8JS 713 575-261	50 295 544/66	8JS 728 595-071
50 253 312	8KW 863 932-003	50 290 038/33	8KV 004 871-041	50 295 297	8JS 713 575-301	50 295 545	8JS 728 595-161
50 253 314	8KW 863 932-013	50 290 057	8KV 003 124-811	50 295 299	8JS 713 575-311	50 295 545/66	8JS 728 595-081
50 253 315	8KW 863 930-003	50 290 061	8KV 002 127-003	50 295 309	8JS 704 073-003	50 295 546	8JS 728 595-171
50 253 316	8KW 863 934-013	50 290 061/66	8KV 002 127-801	50 295 310	8JS 025 889-003	50 295 546/66	8JS 728 595-091
50 253 318	8KW 863 930-013	50 290 065	8KV 002 136-001	50 295 311	8JS 089 015-003	50 295 547	8JS 728 595-181
50 253 319	8KW 863 928-003	50 290 066	8KV 002 127-003	50 295 312	8JS 091 603-003	50 295 547/66	8JS 728 595-101
50 253 320	8KW 863 928-013	50 290 067	8KV 002 127-021	50 295 330	8JS 740 026-731	50 295 548	8JS 728 595-191
50 253 323	8KW 863 951-003	50 290 068	8KV 002 127-011	50 295 331	8JS 740 026-741	50 295 548/66	8JS 728 595-111
50 253 324	8JD 743 710-001	50 290 079	8KV 002 136-011	50 295 332	8JS 740 026-751	50 295 572	8JS 728 596-081
50 253 324	8KW 863 951-013	50 290 092	8JD 743 136-001	50 295 333	8JS 740 026-761	50 295 572/66	8JS 728 596-861
50 253 325	8JD 743 709-001	50 290 093	8KV 714 340-002	50 295 334	8JS 740 026-771	50 295 573	8JS 728 596-101
50 253 325	8KW 863 951-023	50 290 093/66	8KV 714 340-811	50 295 335	8JS 740 026-781	50 295 573/66	8JS 728 596-881
50 253 326	8KW 744 836-002	50 290 094	8KV 004 418-004	50 295 401	8JS 711 683-011	50 295 574	8JS 728 596-121
50 253 327	8KW 744 837-002	50 290 095	8JD 743 557-031	50 295 402	8JS 711 683-021	50 295 574	8JS 728 596-801
50 254 210	8KW 708 373-003	50 290 221	8JD 708 151-001	50 295 403	8JS 711 683-002	50 295 574/66	8JS 728 596-801
50 254 210/66	8KW 708 373-812	50 290 241	8JA 180 663-032	50 295 405	8JS 711 684-002	50 295 575	8JS 728 596-131
50 254 211	8KW 708 374-003	50 290 250	8JD 708 151-041	50 295 407	8JS 711 685-002	50 295 575	8JS 728 596-811
50 254 211/66	8KW 708 374-812	50 290 251	8JD 008 152-041	50 295 410	8JS 711 686-002	50 295 575/66	8JS 728 596-811
50 254 215	8KW 744 703-003	50 290 252	8JD 008 151-051	50 295 415	8JS 711 687-002	50 295 576	8JS 728 596-111
50 254 216	8KW 744 704-003	50 290 253	8JD 008 152-051	50 295 420	8JS 711 688-002	50 295 576/66	8JS 728 596-891
50 254 217	8KW 744 705-003	50 290 265	8JA 715 606-001	50 295 425	8JS 711 689-002	50 295 577	8JS 728 596-141
50 265 806	8HS 749 191-011	50 290 274	8JD 008 151-011	50 295 430	8JS 711 690-002	50 295 577	8JS 728 596-821
50 265 812	8HS 749 192-022	50 290 275	8JD 008 152-011	50 295 432	8JS 740 026-001	50 295 577/66	8JS 728 596-821
50 265 815	8HS 749 193-032	50 290 277	8JD 008 151-072	50 295 433	8JS 740 026-011	50 295 578	8JS 728 596-151
50 265 820	8HS 749 194-012	50 290 278	8JD 008 152-001	50 295 434	8JS 740 026-021	50 295 578	8JS 728 596-831
50 265 831	8HS 749 192-002	50 290 279	8JD 008 151-021	50 295 435	8JS 740 026-031	50 295 578/66	8JS 728 596-831
50 266 225	8HS 071 414-001	50 290 280	8JD 008 152-021	50 295 436	8JS 740 026-041	50 295 579	8JS 728 596-161
50 266 226	8HS 071 415-001	50 290 284	8JD 008 151-061	50 295 443	8JS 740 026-201	50 295 579	8JS 728 596-841
50 266 232	8HS 071 415-001	50 290 285	8JD 008 151-031	50 295 444	8JS 740 026-241	50 295 579/66	8JS 728 596-841
50 266 233	8HS 071 414-001	50 290 286	8JD 008 152-031	50 295 445	8JS 740 026-251	50 295 580	8JS 728 596-091
50 266 393	8HL 707 877-032	50 290 289	8JA 003 526-001	50 295 446	8JS 740 026-211	50 295 580/66	8JS 728 596-871
50 266 393	8HL 707 877-141	50 290 297	8JD 008 151-051	50 295 447	8JS 740 026-261	50 295 581	8JS 728 596-171
50 266 397	8HL 707 877-121	50 290 344	8JD 743 708-001	50 295 448	8JS 740 026-221	50 295 581	8JS 728 596-851
50 266 398	8HL 707 877-081	50 290 344	8JD 743 709-001	50 295 449	8JS 740 026-231	50 295 581/66	8JS 728 596-851
50 266 400	8HL 707 877-091	50 290 344	8JD 743 710-001	50 295 450	8JS 740 026-271	50 295 590	8JS 728 596-262
50 266 402	8HL 707 877-101	50 290 672	8JB 742 649-001	50 295 453	8JS 740 026-311	50 295 591	8JS 728 596-272
50 266 404	8HL 707 877-131	50 290 805	8JA 180 664-002	50 295 454	8JS 740 026-321	50 295 592	8JS 728 596-282
50 266 493	8HL 717 962-181	50 290 806	8JA 180 664-012	50 295 455	8JS 740 026-331	50 295 593	8JS 728 596-292
50 266 496	8HL 717 962-021	50 290 807	8JA 180 664-022	50 295 456	8JS 740 026-341	50 295 594	8JS 728 596-302
50 266 510	8HL 185 549-021	50 290 815	8JA 180 663-002	50 295 457	8JS 740 026-351	50 295 595	8JS 728 596-312
50 266 511	8HL 185 549-031	50 290 816	8JA 180 663-012	50 295 458	8JS 740 026-301	50 295 596	8JS 728 596-322
50 266 512	8HL 185 549-041	50 290 817	8JA 180 663-022	50 295 459	8JS 740 026-361	50 295 597	8JS 728 596-332
50 266 513	8HL 185 549-051	50 290 826	8JA 746 184-022	50 295 460	8JS 740 026-371	50 295 598	8JS 728 596-342
50 266 514	8HL 717 962-061	50 290 827	8JA 746 184-032	50 295 462	8JS 740 026-501	50 295 599	8JS 728 596-352
50 266 516	8HL 185 549-061	50 290 828	8JA 746 184-042	50 295 463	8JS 740 026-511	50 295 850	8JS 711 683-202
50 266 523	8HL 185 549-071	50 290 829	8HL 746 184-052	50 295 464	8JS 740 026-521	50 295 851	8JS 711 683-212
50 268 202	8HK 713 820-011	50 290 830	8JA 746 184-062	50 295 465	8JS 740 026-531	50 295 852	8JS 711 683-222
50 268 204	8HK 713 820-021	50 290 835	8JA 746 183-012	50 295 466	8JS 740 026-541	50 295 853	8JS 711 683-232
50 268 205	8HK 713 820-031	50 290 836	8JA 746 183-022	50 295 467	8JS 740 026-551	50 295 854	8JS 711 683-242
50 268 207	8HK 713 820-041	50 290 838	8JA 746 183-042	50 295 468	8JS 740 026-561	50 295 855	8JS 711 683-252
50 268 209	8HK 713 820-051	50 290 839	8JA 746 183-052	50 295 469	8JS 740 026-571	50 295 856	8JS 711 683-262
50 268 210	8HK 713 820-061	50 290 840	8JA 746 183-062	50 295 470	8JS 740 026-601	50 295 857	8JS 711 683-272
50 268 216	8HK 710 701-111	50 291 021	8KV 002 139-001	50 295 471	8JS 740 026-611	50 295 858	8JS 742 901-061
50 268 216	8HK 713 820-001	50 291 023	8KV 002 140-001	50 295 472	8JS 740 026-701	50 295 859	8JS 742 901-001
50 268 219	8HK 748 453-102	50 291 030	8KV 002 137-001	50 295 473	8JS 740 026-711	50 295 860	8JS 742 901-011
50 268 250	8HK 713 394-001	50 291 030/66	8KV 002 137-801	50 295 474	8JS 740 026-721	50 295 861	8JS 742 901-021
50 268 401	8HK 748 452-002	50 291 031	8KV 002 139-001	50 295 476	8JS 740 026-101	50 295 862	8JS 742 901-041
50 268 402	8HK 748 452-022	50 291 031/66	8KV 002 139-003	50 295 477	8JS 740 026-111	50 295 863	8JS 742 901-051
50 268 403	8HK 748 452-032	50 291 032	8KV 002 140-001	50 295 478	8JS 740 026-401	50 295 864	8JS 742 901-071
50 268 404	8HK 748 452-042	50 291 033	8KV 002 141-001	50 295 479	8JS 740 026-411	50 295 865	8JS 742 901-031
50 268 405	8HK 748 452-052	50 291 041	8KV 002 132-001	50 295 480	8JS 740 026-421	50 295 870	8JS 742 902-001
50 268 406	8HK 748 452-062	50 291 041/66	8KV 002 132-001	50 295 481	8JS 740 026-431	50 295 871	8JS 742 902-011
50 272 002	9MJ 707 869-852	50 291 042	8KV 002 133-001	50 295 482	8JS 740 026-441	50 295 872	8JS 742 902-031
50 272 010	9MJ 707 869-003	50 295 005	8JS 713 550-003	50 295 501	8JS 711 683-011	50 295 873	8JS 742 902-041
50 272 010	9MJ 707 869-013	50 295 010	8JS 713 575-112	50 295 501/66	8JS 711 683-831	50 295 874	8JS 742 902-071
50 272 010	9MJ 707 869-852	50 295 011	8JS 713 575-122	50 295 502	8JS 711 683-021	50 295 875	8JS 742 902-091
50 272 011	9MJ 707 870-013	50 295 012	8JS 713 575-132	50 295 502/66	8JS 711 683-841	50 295 880	8JS 747 876-001
50 272 012	9MJ 707 871-013	50 295 013	8JS 713 575-152	50 295 503	8JS 711 683-002	50 295 881	8JS 747 876-011
50 272 013	9MJ 707 873-013	50 295 014	8JS 713 575-162	50 295 503/66	8JS 711 683-821	50 295 882	8JS 747 876-021
50 272 015	9MJ 707 874-013	50 295 015	8JS 713 575-172	50 295 503/99	8JS 711 683-002	50 295 883	8JS 747 876-031
50 272 016	9MJ 707 875-013	50 295 032	8JS 704 073-003	50 295 505	8JS 711 684-002	50 295 884	8JS 747 876-041
50 272 110	9MJ 707 869-003	50 295 034	8JS 025 889-003	50 295 505/66	8JS 711 684-821	50 295 885	8JS 747 876-051
50 272 110	9MJ 707 869-013	50 295 035	8JS 089 015-003	50 295 505/99	8JS 711 684-002	50 295 886	8JS 747 876-061
50 272 111	9MJ 707 870-013	50 295 036	8JS 091 603-003	50 295 507	8JS 711 685-002	50 295 887	8JS 747 876-071
50 272 112	9MJ 707 871-013	50 295 048	8JS 713 549-003	50 295 507/66	8JS 711 685-821	50 295 888	8JS 747 876-081
50 272 113	9MJ 707 873-013	50 295 051	8JS 713 804-003	50 295 507/99	8JS 711 685-002	50 295 900	8JS 174 320-001
50 272 114	9MJ 707 872-003	50 295 100	8JS 713 575-011	50 295 510	8JS 711 686-002	50 295 901	8JS 174 320-011
50 272 115	9MJ 707 874-013	50 295 102	8JS 713 575-021	50 295 510/66	8JS 711 686-821	50 295 902	8JS 174 320-021
50 272 116	9MJ 707 875-003	50 295 103	8JS 713 575-031	50 295 510/99	8JS 711 686-002	50 295 903	8JS 174 320-031
50 272 116	9MJ 707 875-013	50 295 104	8JS 713 575-001	50 295 515	8JS 711 687-002	50 295 904	8JS 174 320-041
50 272 150	9MJ 735 430-001	50 295 105	8JS 713 575-041	50 295 515/66	8JS 711 687-821	50 295 905	8JS 174 320-051
50 272 155	9MJ 186 375-011	50 295 106	8JS 713 575-051	50 295 515/99	8JS 711 687-002	50 295 906	8JS 174 320-061
50 281 070	9GT 735 641-012	50 295 107	8JS 713 575-061	50 295 520	8JS 711 688-002	50 295 907	8JS 174 320-071
50 282 040	9GD 863 952-012	50 295 109	8JS 713 575-071	50 295 520/66	8JS 711 688-821	50 295 921	8JS 174 326-001
50 282 041	9GD 863 952-002	50 295 151	8JS 713 805-003				

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Cross-Reference



HERTH & BUSS	Hella	HERTH & BUSS	Hella	HERTH & BUSS	Hella	HERTH & BUSS	Hella
50 295 985	8JS 174 330-051	51 275 107/04	8KL 712 939-001	51 305 131	8JB 005 949-011	52 285 071	8KX 716 405-011
50 295 986	8JS 174 330-061	51 275 107/05	8KL 712 940-001	51 305 132	8HG 005 953-001	52 285 072	8KX 742 695-032
50 296 035	8JS 089 015-003	51 275 107/06	8KL 712 941-001	51 305 135	8JB 001 933-011	52 285 073	8KX 742 695-022
50 296 037	8JS 091 603-003	51 275 107/07	8KL 712 942-001	51 305 142	8JB 007 645-021	52 285 080	8KX 707 911-001
50 296 110	8JS 003 481-803	51 275 108/00	8KL 712 943-001	51 305 148	8HG 007 647-001	52 285 081	8KX 707 911-011
50 296 116	8JS 711 683-903	51 275 108/01	8KL 712 944-001	51 305 169	9GD 735 641-001	52 285 082	8KX 091 453-001
50 300 010	8JD 002 288-001	51 275 108/02	8KL 712 945-001	51 305 202	8JB 001 941-041	52 285 120	8KX 707 912-001
50 300 051	9XS 091 200-007	51 275 108/03	8KL 712 946-001	51 305 227	8JB 006 462-001	52 285 121	8KX 707 912-011
50 300 059	8JD 005 235-002	51 275 108/04	8KL 712 947-001	51 305 240	8JA 007 241-031	52 285 128	8KX 707 913-011
50 300 067	8JD 743 557-081	51 275 108/05	8KL 712 948-001	51 305 251	8JB 007 645-021	52 285 129	8KX 707 913-001
50 300 068	8JD 743 135-001	51 275 108/06	8KL 712 949-001	51 305 255	8JB 007 645-031	52 285 550	9MJ 747 877-001
50 300 133	8JD 004 588-001	51 275 108/07	8KL 712 950-001	51 305 256	8JB 007 645-031	52 287 025	8KX 091 392-001
50 300 134	8JD 005 993-131	51 275 110/00	8KL 712 960-001	51 305 284	8JB 003 834-001	52 287 030	8KX 091 394-001
50 300 211	8JD 002 289-001	51 275 110/05	8KL 712 962-001	51 305 285	8JB 003 833-011	52 287 035	8KX 719 756-001
50 300 211/66	8JD 002 289-001	51 275 111/00	8KL 712 964-001	51 305 286	8JB 003 833-031	52 287 040	8KX 719 757-001
50 300 217	8JD 002 289-013	51 275 111/05	8KL 712 965-001	51 305 287	8JB 008 085-021	52 287 050	8KX 719 757-012
50 300 221	8JD 002 289-081	51 275 111/06	8KL 712 966-001	51 305 289	8JB 003 833-001	52 287 812	8KX 707 917-021
50 300 410	8JD 002 294-001	51 275 112/00	8KL 712 967-001	51 305 290	8JB 008 085-001	52 287 814	8KX 707 917-031
50 300 414	8JD 002 294-011	51 275 112/05	8KL 712 968-001	51 305 291	8JB 008 085-011	52 287 831	8KX 707 916-001
50 300 423/66	8JD 002 294-081	51 275 113/00	8KL 712 969-001	51 305 297	8JB 008 085-041	52 287 834	8KX 707 916-011
50 300 424	8JD 005 993-082	51 275 114/00	8KL 712 970-001	51 305 298	8JB 003 834-031	52 287 836	8KX 707 916-021
50 300 427	8JD 005 993-072	51 275 115/00	8KL 712 971-001	51 305 320	8JB 002 281-001	52 287 960	8KX 707 919-021
50 300 624	8JD 005 993-102	51 275 116/00	8KL 712 972-001	51 305 357	8JB 001 939-001	54 254 114	8KW 009 254-801
50 300 627	8JD 005 993-092	51 275 128/01	8KL 717 462-001	51 305 379	8JA 005 952-091	54 254 117	8KW 009 253-801
50 300 628	8JD 005 993-051	51 275 128/04	8KL 717 464-001	51 305 416	8JB 001 935-031	54 254 143	8KW 009 255-801
50 300 647	8JD 005 993-051	51 275 128/30	8KL 717 461-001	51 305 470	8JA 005 952-011	54 290 150	8JA 009 256-801
50 300 647	8JD 005 993-061	51 275 138/00	8KL 712 975-001	51 305 471	8JA 008 981-001	54 296 211	8JS 009 257-801
50 300 810	8JD 002 290-001	51 275 139/00	8KL 712 976-001	51 305 472	8JA 008 969-001	56 360 023	3FH 007 424-801
50 300 818	8JD 005 993-061	51 275 146/00	8KL 735 190-001	51 305 474	8JA 008 969-011	56 370 045	3AL 002 952-871
50 300 823	8JD 005 993-112	51 275 178/00	8KL 712 981-001	51 305 514	8JA 001 920-011	56 370 046	3AL 002 952-861
50 300 824	8JD 005 993-122	51 275 422/00	8KL 178 452-002	51 305 517	8JA 001 918-002	56 376 056	3SL 996 139-001
50 390 236	8JD 743 557-011	51 275 422 000	8KL 178 452-002	51 305 517	8JA 001 918-021	56 376 057	3SL 996 139-111
50 390 431	8JD 743 557-811	51275427/00	8KL 178 452-012	51 305 517	8JA 005 476-001	56 392 507	8EZ 008 022-001
50 390 825	8KW 744 805-801	51275427000	8KL 178 452-012	51 305 517/66	8JA 001 918-002	56 392 508	8EZ 008 022-011
50 390 826	8KW 744 806-801	51 275 436/00	8KL 713 737-001	51 305 526	8JA 001 918-021	56 392 517	8EZ 008 021-001
50 390 827	8KW 744 807-801	51 275 457/00	8KL 178 453-002	51 305 527	8JA 001 918-011	56 392 518	8EZ 008 021-011
50 390 828	8KW 744 808-801	51 275 457 000	8KL 178 453-002	51 305 527	8JA 001 918-002	56 394 255	8JB 008 023-001
50 390 829	8KW 744 809-801	51 275 498/00	8KL 178 454-002	51 305 527	8JA 001 918-021	56 394 256	8JB 008 023-011
50 390 830	8KW 744 810-801	51 275 498 000	8KL 178 454-002	51 305 527	8JA 001 930-003	56 394 355	8JB 008 023-001
51 271 041	8JR 178 587-002	51 275 499/00	8KL 178 454-002	51 305 527	8JA 001 930-021	56 394 356	8JB 008 023-011
51 271 091	8JR 178 587-012	51 275 499 000	8KL 178 456-002	51 305 527	8JA 005 476-001	65 451 020	8TW 004 223-031
51 273 206	9MJ 008 039-001	51 275 527/00	8KL 713 740-032	51 305 535	8JA 001 916-001	65 451 023	8TW 005 496-011
51 273 208	9MJ 008 039-031	51 275 528/00	8KL 713 740-001	51 305 541	8JA 007 644-041	65 451 025	8TW 005 206-031
51 273 209	9MJ 008 039-041	51 275 537/00	8KL 713 741-001	51 305 543	8JA 002 263-001	65 451 029	8TW 006 847-001
51 273 210	9MJ 008 039-051	51 275 538/00	8KL 713 742-001	51 305 543	8JA 002 263-031	65 451 031	8TW 004 223-061
51 273 211	9MJ 008 039-061	51 275 548/00	8KL 713 744-001	51 305 551	8JA 007 644-041	65 451 033	8TW 006 848-001
51 273 317	9MJ 007 825-061	51 275 558/00	8KL 715 436-001	51 305 555	8JA 007 644-051	65 451 036	8TW 005 206-011
51 273 318	9MJ 007 825-011	51 275 578/00	8KL 715 437-001	51 305 557	8JA 007 644-051	65 451 036	8TW 005 206-031
51 273 319	9MJ 007 825-001	51 275 626/00	8KL 177 370-032	51 305 584	8JA 003 832-001	65 451 037	8TW 006 847-001
51 273 320	9MJ 007 825-031	51 275 627/00	8KL 177 370-042	51 305 587	8JA 003 831-001	65 451 038	8TW 006 847-021
51 273 321	9MJ 007 825-021	51 275 627/00	8KL 712 991-001	51 305 589	8JA 008 084-001	65 451 039	8TW 005 206-051
51 273 322	9MJ 007 825-051	51 275 628/00	8KL 177 370-052	51 305 590	8JA 008 084-011	65 451 044	8TW 006 848-021
51 273 323	9MJ 007 825-041	51 275 628/00	8KL 712 992-001	51 305 598	8JA 003 832-011	65 451 044	8TW 006 848-041
51 273 324	9MJ 007 825-071	51 275 638/00	8KL 712 993-001	51 305 630	8JA 005 951-001	70 460 021	6AJ 001 751-021
51 273 338	9MJ 007 825-061	51 275 645/00	8KL 178 451-002	51 305 635	8JA 002 263-011	70 465 020	6EK 002 843-001
51 273 620	9MJ 008 039-001	51 275 645/00	8KL 742 810-001	51 305 639	8JB 007 242-011	70 475 016	6BB 001 540-001
51 273 621	9MJ 008 039-021	51 275 645 000	8KL 178 451-002	51 305 642	8JB 007 242-011	70 485 010	6DD 001 551-001
51 273 622	9MJ 008 039-031	51 275 647/00	8KL 712 994-001	51 305 642	8JB 007 242-021	70 511 113	6ZF 182 914-031
51 273 624	9MJ 008 039-041	51 275 648/00	8KL 712 995-001	51 305 645	8JA 005 952-061	70 511 157	6ED 004 778-021
51 273 625	9MJ 008 039-051	51 275 650/00	8KL 712 996-001	51 305 820	8JA 001 925-001	70 580 059	6ZF 004 365-001
51 273 626	9MJ 008 039-061	51 275 658/00	8KL 715 434-001	51 305 821	8JB 002 281-011	70 580 060	6ZF 004 365-011
51 274 206/00	8KL 054 001-002	51 275 677/00	8KL 715 435-001	51 305 816	8JA 001 931-041	70 580 068	6ZF 004 365-031
51 274 206/01	8KL 054 002-002	51 275 678/00	8KL 712 997-001	51 306 001	8KA 007 589-091	70 580 071	6ZF 004 229-011
51 274 206/02	8KL 054 003-002	51 275 688/00	8KL 713 735-001	51 306 003	8ES 007 589-121	70 590 110	6ED 001 563-001
51 274 206/03	8KL 712 929-011	51 275 726/00	8KL 712 986-001	51 306 018	8JA 001 921-102	75 605 057	4DM 003 390-011
51 274 206/04	8KL 054 004-002	51 275 746/00	8KL 712 988-001	51 306 018	8JA 002 252-103	75 605 078	4DB 003 425-041
51 274 206/05	8KL 054 005-002	51 275 813/00	8KL 713 750-001	51 306 018	8JA 004 667-001	75 605 080	4DB 007 218-001
51 274 206/06	8KL 054 006-002	51 275 814/00	8KL 713 751-001	51 306 031	8JA 001 915-001	75 605 126	4DM 003 390-031
51 274 206/07	8KL 054 007-002	51 275 815/00	8KL 713 752-001	51 306 043	8JA 007 589-052	75 605 126	4DW 004 513-001
51 274 207/00	8KL 054 008-002	51 275 816/00	8KL 712 972-001	51 306 051	8JA 002 262-001	75 605 126	4DW 004 513-021
51 274 207/01	8KL 054 009-002	51 275 816/00	8KL 713 753-001	51 306 060	8JA 007 589-011	75 613 113	4RA 003 530-001
51 274 207/02	8KL 054 010-002	51 275 817/00	8KL 713 753-011	51 306 062	8JA 007 589-032	75 613 113	4RA 003 530-007
51 274 207/04	8KL 054 011-002	51 275 818/00	8KL 713 753-021	51 306 068	8JA 007 589-042	75 613 122	4RA 965 400-031
51 274 207/05	8KL 054 012-002	51 276 507	8KA 010 807-001	51 306 125	8JA 007 589-001	75 613 126	4RA 007 793-031
51 274 207/06	8KL 054 013-002	51 276 511	8KA 004 797-071	51 306 255	8JA 007 589-062	75 613 127	4RA 007 957-001
51 274 207/07	8KL 054 014-002	51 276 513	8KA 004 797-081	51 306 256	8JA 007 589-141	75 613 152	4RD 007 903-011
51 274 208/00	8KL 712 943-002	51 276 514	8KA 004 797-031	51 306 256	8JB 008 032-001	75 613 156	4RD 007 794-021
51 274 208/01	8KL 712 944-002	51 276 514	8KA 007 965-011	51 306 341	8KA 007 589-081	75 613 157	4RD 933 332-071
51 274 208/02	8KL 712 945-002	51 276 520	8KA 004 797-041	51 306 342	8KA 007 589-101	75 614 033	4RP 008 189-081
51 274 208/03	8KL 712 946-002	51 276 521	8KA 004 797-051	51 306 343	8JA 007 589-111	75 614 035	4RV 008 188-191
51 274 208/04	8KL 712 947-002	51 276 522	8KA 004 797-021	51306443	8JB 004 123-051	75 614 036	4RV 008 188-171
51 274 208/05	8KL 712 948-002	51 276 523	8KA 007 648-061	51 306 510	8JB 001 946-031	75 614 036	4RV 008 188-181
51 274 208/06	8KL 712 949-002	51 276 532	8KA 004 797-101	51 306 512	8JB 001 946-041	75 614 042	4RP 008 189-041
51 274 208/07	8KL 712 950-002	51 276 543	8JA 005 952-001	51 306 518	8JB 001 946-021	75 614 062	4RP 008 189-071

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Cross-Reference



Jäger	Hella	JOHN DEERE	Hella	JOHN DEERE	Hella	Jokon	Hella
34400004	8KA 004 797-111	01 27 25	8KX 091 450-032	59 83 1	8JS 711 686-007	40.1001.000	8JA 001 930-031
34400007	8KA 004 797-071	01 27 29	8KX 043 021-031	59 83 5	8JS 711 685-002	40.1001.050	8JB 001 943-041
34400008	8KA 004 797-081	01 27 29	8KX 043 021-032	59 83 6	8JS 711 683-002	41.0001.000	8JA 001 918-002
36400014	8KA 002 185-061	14 07 7019	8KV 002 140-001	62 50 37	8JA 001 926-001	41.0001.000	8JA 001 918-021
36400016	8KA 004 797-021	01 43 75	8JA 003 526-001	00 62 5155	8JA 703 947-011	41.1001.100	8JA 003 831-001
54400001	8JB 001 933-031	01 43 75	8JA 003 526-002	80 41 61	8PE 002 006-001	42.0001.000	8JB 001 943-003
54400002	8JA 001 920-011	01 48 79	6EJ 001 569-001	84 50 611	8KW 708 373-003	42.0002.000	8JB 001 943-011
54400002	8JB 001 944-011	15 80 0022	8KW 044 027-003	84 50 611	8KW 708 373-004	42.0004.000	8JB 001 939-001
55400001	8JB 007 645-031	15 80 0022	8KW 044 027-004	84 50 619	8KW 044 036-003	42.1001.000	8JB 001 943-041
55400002	8JB 007 242-011	15 80 2022	8KW 044 029-003	84 50 619	8KW 044 036-004	43.0001.010	8JB 001 941-002
55400004	8HG 007 647-001	16 08 2019	6ZE 001 759-061	84 89 825	8JA 002 262-001	43.0003.100	8JB 003 833-001
55400006	8JB 007 645-021	17 57 3019	8JB 002 281-001	84 89 825	8JA 002 262-003	45.0001.000	8JA 005 951-001
55400010	8JB 007 242-021	17 57 3019	8JB 002 281-002	85 40 425	8KW 702 796-003	45.1002.000	8JA 005 952-011
62400001	8JA 008 981-001	01 80 62	8KW 043 636-003	87 20 558	8KX 707 913-011	46.0001.000	8JB 005 949-001
62400002	8JA 005 952-061	01 80 63	8KW 700 144-003	87 20 559	8KX 707 913-001	46.0009.000	8HG 005 953-001
62930000	8JA 008 969-001	19 80 8019	6ZE 001 759-051	AL 11 4614	3AL 002 952-827	50.1002.000	8JA 005 952-001
63251005	8JA 002 263-001	19 82 6067	3AG 003 399-081	AL 12 135	3AL 002 952-811	59.0201.050	8KL 712 986-001
63251005	8JA 002 263-031	20 56 2028	8PE 002 006-001	AL 12 135	3AL 002 952-817	59.0201.100	8KL 712 986-001
63251010	8JA 001 920-011	21 01 9	8JB 003 833-001	AL 13 377	8JA 002 262-001	59.0201.250	8KL 712 986-001
64400001	8JA 007 644-051	21 50 0	8KX 091 450-031	AL 13 377	8JA 002 262-003	59.0401.050	8KL 712 987-001
64400002	8JA 007 241-021	21 50 0	8KX 091 450-032	AL 15 0015	4RD 007 794-031	59.0401.100	8KL 712 987-001
64400005	8JA 007 644-041	21 50 1	8KX 043 021-031	AL 17 684	6JF 001 571-041	59.0401.250	8KL 712 987-001
64400006	8JA 007 644-041	21 50 1	8KX 043 021-032	AL 17 684	6JF 001 571-047	59.0402.050	8KL 712 988-001
64400013	8JA 007 241-031	21 89 4	6JF 001 571-001	AL 20 3265	3AL 922 200-617	59.0402.100	8KL 712 988-001
64400014	8JA 007 241-031	22 18 0019	6JF 001 571-001	AL 20 7376	4RA 007 793-031	59.0402.250	8KL 712 988-001
71400010	8JA 005 951-001	24 12 6019	6ZF 003 549-021	AL 20 7376	4RA 007 793-037	59.0601.050	8KL 712 989-001
71400011	8JA 005 951-003	24 12 7019	6ZF 003 549-001	AL 20 8595	4RA 007 793-041	59.0601.100	8KL 712 989-001
72400004	8JB 005 949-011	24 22 6019	8JB 004 777-001	AL 20 8595	4RA 007 793-047	59.0601.250	8KL 712 989-001
72400008	8JB 005 949-001	24 72 1019	8JB 003 834-001	AL 20 8596	4RD 933 332-237	59.0701.050	8KL 715 435-001
72400014	HG 005 953-001	24 86 2019	8JA 003 832-001	AL 20 8597	4RD 933 332-051	59.0701.100	8KL 715 435-001
73400003	8JA 003 831-001	50 65 02	8JB 002 286-021	AL 20 8597	4RD 933 332-057	59.0701.250	8KL 715 435-001
73400004	8JA 003 832-001	50 65 03	8JB 004 123-001	AL 20 978-	6BB 001 540-001	59.0702.050	8KL 712 997-001
74400004	8JB 008 085-001	50 65 03	8JB 004 123-002	AL 35 179	6BG 008 844-007	59.0702.100	8KL 712 997-001
74400006	8JB 008 085-021	50 65 67	6EH 004 406-001	AL 35 260	5HE 003 724-027	59.0702.200	8KL 712 997-001
74400013	8JB 008 085-021	50 65 67	6EH 004 406-002	AL 36 529	6EB 008 845-007	61.0001.001	8JA 002 252-103
78400004	8JA 001 918-011	50 65 69	8JA 001 921-102	AL 37 589	8HG 851 387-007	61.0002.001	8JA 007 589-001
78400005	8JA 001 918-002	50 66 51	8JS 711 684-002	AL 37 590	8BW 003 443-008	61.0015.001	8JB 004 777-001
78400005	8JA 001 918-021	50 66 52	8JS 711 685-002	AL 55 738	8JA 003 526-001		
78400006	8JA 001 930-041	50 66 69	8JS 711 683-002	AL 55 738	8JA 003 526-002		
78400006	8JA 005 476-002	50 70 13	8KV 002 127-021	AL 61 306	8TW 004 223-031	102	9XW 858 790-801
78400007	8JA 001 930-001	50 70 27	6ED 001 563-021	AL 68 661	6EK 001 559-001	107	9XW 861 934-801
78400007	8JA 001 930-021	50 70 28	6ED 001 563-001	AL 68 661	6EK 001 559-007	17	9XW 857 505-801
78400007	8JA 005 476-002	50 70 28	6ED 001 563-003	AL 68 661	6EK 001 559-011	18	9XW 860 653-001
78400008	8JA 001 930-031	50 70 28	6ED 001 563-004	AL 76 702	4RD 007 814-011	19	9XW 860 648-801
80400004	8JB 001 943-003	50 70 54	8JD 002 291-001	AL 76 702	4RD 007 814-017	21	9XW 857 510-801
80400008	8JB 001 941-001	50 70 56	8JD 002 294-011	AL 77 324	4RD 007 794-077	22	9XW 860 654-001
80400013	8JB 001 943-041	50 70 57	8JD 002 289-001	AL 79 013	8TW 004 223-031	23	9XW 857 509-801
80400017	8JB 001 943-011	50 70 58	8JD 002 288-001	AT 22 6281	3AL 922 300-207	23	9XW 857 510-801
80400025	8JB 001 943-003	50 72 12	8KW 044 032-003	AX E1 3703	8KX 747 875-001	23	9XW 857 511-801
85035661	9GD 735 641-001	50 72 12	8KW 044 032-004	AZ 100 125	8JS 711 683-861	27	9XW 860 655-001
		50 72 21	8KW 044 033-002	AZ 12 135	3AL 002 952-811	28	9XW 857 512-801
		50 72 24	8KW 044 033-004	AZ 12 135	3AL 002 952-817	28	9XW 860 656-001
		50 72 24	8KV 002 132-001	AZ 13 378	8JB 001 941-001	29	9XW 860 657-001
		50 73 91	8KV 705 123-002	AZ 13 378	8JB 001 941-002	30	9XW 857 513-801
		50 73 91	8KV 705 123-004	AZ 15 002	8JA 001 918-002	32	9XW 860 657-001
		50 74 00	8KW 044 291-003	AZ 15 002	8JA 001 918-021	33	9XW 857 514-801
		50 77 55	8KW 043 630-013	AZ 15 003	8KV 002 137-001	33	9XW 860 660-801
		50 77 55	8KW 043 630-014	AZ 16 014	6DD 001 551-011	37	9XW 857 515-801
		50 77 82	6FG 002 312-001	AZ 16 014	6DD 001 551-017	39	9XW 857 516-801
		50 77 82	6FG 002 312-002	AZ 16 167	6ED 001 563-021	45	9XW 860 645-801
		50 78 97	8KW 044 040-003	AZ 21 185	6HD 002 535-031	47	9XW 858 084-001
		50 78 97	8KW 044 040-004	AZ 23 981	8SB 002 990-001	50	9XW 860 652-001
		50 78 98	8KW 045 145-003	AZ 34 621	8JB 001 946-001		9XW 857 512-801
		50 78 98	8KW 045 145-004	AZ37476	2AA 713 628-001		9XW 857 510-801
		53 51 46	8JD 002 291-001	AZ 38 323	3AL 002 952-837		9XW 857 509-801
		53 51 47	8KV 002 127-003	AZ 38 323	3AL 002 952-887		9XW 857 514-801
		53 51 47	8KV 002 127-007	AZ 39 127	6EK 002 843-013		9XW 857 514-801
		53 53 07	8KX 707 913-011	AZ 39 127	6EK 002 843-017		9XW 857 513-801
		53 53 10	8KX 707 913-001	AZ 41 346	5HE 006 207-027		9XW 862 066-801
		55 02 4	3AG 003 399-081	AZ 42 878	8BW 003 966-047		9XW 859 308-801
		55 02 8	3AG 003 399-101	AZ 50 506	6AJ 001 751-021		8XY 004 729-001
		55 03 1	6ZE 001 759-061	AZ 54 775	8JB 001 933-011		8XY 004 723-001
		56 59 3	3BA 002 768-001	AZ 55 251	4RA 003 530-001		8XY 005 067-001
		57 01 8	6EJ 001 569-001	AZ 55 251	4RA 003 530-007		8XY 004 721-001
		57 04 6	6EK 002 843-001	AZ 61 048	8JA 002 252-101		8XY 004 725-001
		57 04 6	6EK 002 843-003	AZ 61 048	8JA 002 252-103		8XY 004 718-001
		57 04 6	6EK 002 843-007	AZ Y7 5367	8BW 003 966-037		8XY 004 716-001
		57 05 0	6ZE 001 759-071	AZ Y7 5367	8BW 003 966-047		8XY 004 717-001
		57 05 2	6ED 004 778-011	DA 19 633	8JD 002 289-001		8XY 006 369-001
		57 05 4	6FG 002 312-001	F0 05 313	3SB 003 985-061		8XY 004 721-001
		57 05 4	6FG 002 312-002	F0 05 313	3SB 003 985-067		8XY 004 725-001
		57 21 233	8KX 043 021-031	F0 14 869	8EZ 008 022-011		8XY 004 715-001
		57 21 233	8KX 043 021-032	F0 42 770	8TW 005 496-051		8XY 006 369-001
		57 21 234	8KX 091 450-031	F1 24 371	8JB 008 023-001		8XY 004 720-001
		57 21 234	8KX 091 450-032	L1 01 231	9GH 045 833-001		8XY 004 725-001
		57 86 441	3BA 002 768-382	L 38 387	9KB 710 131-001		8XY 004 716-001
		57 M7 073	8KW 044 035-003	RE 11 344	8JA 002 262-001		8XY 007 102-001
		57 M7 082	8KW 700 144-003	RE 11 344	8JA 002 262-003		
		57 M7 095	8KV 705 123-002	RE 32 3399	6EK 008 458-037		
		57 M7 095	8KV 705 123-004	Z2 28 06	6BB 001 540-001		
		57 M7 182	8JA 003 526-001	Z3 93 69	9EY 117 124-001		
		57 M7 182	8JA 003 526-002	Z5 43 80	9XD 856 165-005		
		57 M9 477	8KV 744 859-003	ZZ 11 000	8JA 002 252-101		
		59 22 050	8JA 001 926-001	ZZ 11 000	8JA 002 252-103		
		05 92 2072	8JA 703 947-011				
		59 23 0	8KV 004 418-004				



Manufacturer's no. / Hella no.

Cross-Reference

Jungheinrich	Hella	Jungheinrich	Hella	Kässbohrer	Hella	Knöckner-	Hella
14465020	6BA 001 539-007	50034778	95K 702 331-071	7.231.343.000.0	8JA 005 951-001	Humboldt-Deutz	9GT 960 380-005
14465050	8HG 713 626-001	50035540	86P 002 095-121	7.231.343.000.0	8JA 005 951-003	011 75805	8JA 003 526-001
14465060	2AA 713 628-001	50035645	8KW 044 040-003	7.235.022.000.0	8KV 002 143-031	011 75862	8JA 003 526-002
14465070	9XT 714 300-141	50035645	8KW 044 040-004	7.235.138.000.0	8JB 005 949-001	117 5862ES8239-70	8JA 003 526-001
14465080	9XT 713 630-011	50038905	8ES 006 658-001	7.253.006.000.0	8JD 002 291-011	117 5862ES8239-70	8JA 003 526-002
14465090	6RH 004 570-401	50043924	8XY 007 022-001	7.312.007.000.0	6ED 001 569-001	01178519	4RD 007 794-041
14465100	9XT 713 630-301	50051744	8JA 002 262-001	7.312.020.000.0	6ED 004 778-021	01178519	4RD 007 794-047
14465110	9FF 713 627-001	50051744	8JA 002 262-003	7.315.130.000.0	6ED 004 778-001	01178568	8BW 857 850-005
14476700	9HB 713 629-001	50052657	8JB 004 777-001	7.331.122.001.0	6ZF 004 365-011	117 858EZ8973-45	8HG 851 387-007
14518360	6EH 004 570-021	50060117	8EV 003 361-011	7.332.022.000.0	8JA 713 631-001	123 1489	8HG 851 387-007
14518360	6EH 004 570-027	50129345	8JS 711 683-002	7.371.083.000.0	8JA 713 631-007	012 31489/10	8HG 851 387-007
00014607	9SL 740 558-007	50131934	8KV 002 144-031	7.371.083.000.0	6TA 003 394-011	123 1489EZ8943-45	8BW 003 443-008
14713990	6RH 004 570-191	50148719	8KX 043 021-031	7.371.083.000.0	6TA 003 394-017	012 31579	8BW 003 443-008
14731950	8HG 716 734-001	50148719	8KX 043 021-032	7.371.083.000.0	4DM 004 639-061	123 1579KZ8973-45	8BW 003 443-008
14731950	8HG 716 734-007	50149438	8KX 091 451-031	7.371.083.000.0	4DM 004 639-067	012 31937	8BW 003 443-008
14731970	8JA 713 600-001	50149438	8KX 091 451-032	7.371.083.000.0	4DM 004 639-061	012 31938	8BW 003 443-008
14733370	9XT 713 630-711	50149958	8JB 001 946-021	7.371.088.000.0	4DM 004 639-067	012 31939	8JA 005 951-001
14734890	8HG 716 735-001	50149958	8JB 001 946-022	7.371.088.000.0	4JA 005 355-001	012 31939	8JA 005 951-003
14734890	8HG 716 735-007	50205815	8JA 703 947-011	7.371.089.000.0	4DM 003 460-021	012 31939	8WB 851 385-025
14737820	9XT 713 630-421	50223187	8KV 004 918-004	7.371.089.000.0	4DW 004 513-001	012 31939	8WB 851 385-025
14739320	9XT 713 630-021	50248604	8JD 005 993-001	7.371.089.000.0	4DW 004 513-021	126 3308 EZ8973-45	8WB 851 385-025
14739340	9XT 713 630-011	50248604	8JD 005 993-002	7.371.090.000.0	4DM 004 639-061	013 21472	8WB 003 443-047
14739820	6RH 004 570-311	50260000	9GH 993 984-001	7.371.090.000.0	4DM 004 639-067	132 1472KZ	8WB 003 443-047
14739830	9XT 713 630-121	50260000	9GH 993 984-007	7.371.091.000.0	4AZ 003 787-021	132 1472KZ8973-45	8WB 003 443-047
14739980	9XT 713 630-201	50297318	6EJ 996 067-631	7.375.155.000.0	4RV 008 188-021	014 06156	3AL 002 952-837
14739980	9XT 713 630-221	50423350	6FH 007 832-151	7.375.159.100.0	4RV 008 188-001	16000669	8SB 501 190-082
16025850	8GP 002 066-241	50423350	6RH 007 832-461	7.517.134.012.0	9GH 993 984-001	160 19075	6ED 004 778-011
16025860	2AA 713 628-011	50423353	6RH 007 832-467	7.517.134.012.0	9GH 993 984-007	160 26255	8JA 005 951-027
16095830	9XT 713 630-251	50423378	6HH 007 832-297	7.711 119.000.0	3AF 003 399-071	160 56743	6GM 500 212-002
16095840	9XT 713 630-531	50423738	9FF 713 627-011	7.711.119.000.0	3AF 003 399-071	023 34655	6ED 001 563-021
16130680	9XT 714 300-011	50423739	8JA 715 600-001	7.711.120.000.0	3AF 003 399-061	233 4655E1053-49	6ED 001 563-021
16130680	9XT 714 300-021	50423740	8JA 713 631-001	7.711.120.000.0	3AF 003 399-061	023 76392KZ 1210-67	8SB 002 991-001
16231380	4AZ 001 879-051	50423740	8JA 713 631-007	7.711.130.000.0	3CA 004 811-001	043 08177	6TA 003 394-001
20701	8KV 002 127-003	50423741	8HG 716 734-001	7.711.130.000.0	3CA 004 811-021	043 08177	6TA 003 394-007
20701	8KV 002 127-007	50423741	8HG 716 734-007	7.711.131.000.0	3CA 004 811-031	430 8177EC1024-49	6TA 003 394-007
00023044	8SB 002 997-001	50423742	8HG 716 735-001	7.711.257.000.0	3SB 004 438-155	430 8177EC1024-49	6TA 003 394-007
26916036	8JD 002 289-001	50423742	8HG 716 735-007	7.711.257.000.0	3SB 004 438-155	431 9505	6TA 003 394-017
26918768	8SB 002 997-001	50423743	9XT 713 630-311	7.711.275.000.0	3SB 004 438-155	431 9505	6TA 003 394-017
27827700	8SB 002 407-001	50423746	9XT 714 300-141	7.731.000.234.0	9XD 856 165-005	431 9505EC1030-49	6TA 003 394-011
28300010	3AL 002 952-871	50423746	9XT 713 630-391	7.731.212.000.0	8BW 003 966-007	431 9505EC1030-49	6TA 003 394-011
28300010	3AL 002 952-877	51004920	4AZ 003 787-021	7.731.213.000.0	8BW 003 966-037	04325557 KZ 1024-67	8SB 002 997-103
28300060	8GP 002 068-241	51007822	6FH 007 832-121	7.731.214.000.0	8BW 003 966-047	043 49083	4DN 008 768-051
28300310	3BA 002 768-001	51007827	6FH 007 832-127	8.688.074.000.0	8SB 501 081-082	435 6066	6TA 003 394-047
28303460	6HF 001 579-052	51024959	6GM 007 832-261	8.919.926.285.4	9MX 563 468-002	435 6066EC1065-49	6TA 003 394-047
28305710	8GP 002 095-241	51039549	8JB 001 943-011	8.919.928.230.4	8KA 500 218-002	04358888	6TA 003 991-081
28306500	3BA 002 768-771	51076136	8JB 008 023-001	8.919.928.281.4	9BP 501 238-012	04372506KY1250-67	8SB 002 991-081
28306500	3BA 002 768-777	51076136	8JB 008 023-001	8.919.931.924.4	8SB 501 311-812	043 76948	8SB 002 991-081
28402490	8JB 001 941-001	51081505	5HE 996 152-131	8.919.931.925.4	8SB 501 247-803	437 6948KY1252-49	8BW 003 966-047
28402490	8JB 001 941-002	51081906	9GD 735 641-001	8.933.741.300.0	6FG 002 312-001	043 76951	8BW 003 966-047
28402670	8KW 044 022-003	51084965	4RA 007 813-011	8.933.741.300.0	6FG 002 312-002	043 76951	8BW 003 966-047
28402670	8KW 044 022-004	51084979	4RA 007 813-017			043 76951	8BW 003 966-047
28408120	8KV 002 133-001	51084979	4RD 007 814-011			043 76951	8BW 003 966-047
28410110	8KW 044 036-003	51084979	4RD 007 814-017			043 76951	8BW 003 966-047
28410110	8KW 044 036-004	51085376	4DB 009 123-031			043 76951	8BW 003 966-047
28415600	8KW 708 373-003	51095981	8WB 003 248-001			043 76951	8BW 003 966-047
28415600	8KW 708 373-004	51095981	8WB 003 248-007			043 76951	8BW 003 966-047
28417830	8KW 708 374-003	51096967	8JS 728 595-071			043 76951	8BW 003 966-047
28417830	8KW 708 374-004	51113392	4DM 009 492-001			043 76951	8BW 003 966-047
28500070	8JD 002 288-001	5116723	9GH 993 984-001			043 76951	8BW 003 966-047
28500160	8JD 002 294-011	51202349	9GH 993 984-007			043 76951	8BW 003 966-047
28501770	8JS 091 603-003	51202350	8SB 004 288-103			043 76951	8BW 003 966-047
28508040	8JD 002 289-081	51223314	8KA 003 806-001			043 76951	8BW 003 966-047
28516170	8KV 002 127-003	52011042	9FF 713 627-031			043 76951	8BW 003 966-047
28516170	8KV 002 127-007	52011163	6JK 007 232-001			043 76951	8BW 003 966-047
28517640	8JS 704 073-003	52011163	3AL 002 952-861			043 76951	8BW 003 966-047
421-440074545	4AZ 003 787-001	52011163	3AL 002 952-867			043 76951	8BW 003 966-047
440042148	6BB 001 540-001	52012360	9HB 713 629-001			043 76951	8BW 003 966-047
440072635	8SB 002 407-001	52022120	4RD 933 332-021			043 76951	8BW 003 966-047
440072635	8SB 002 407-011	52022120	4RD 933 332-027			043 76951	8BW 003 966-047
440073838	8HG 713 626-001	52027388	4RA 007 793-031			043 76951	8BW 003 966-047
440073840	6HH 004 570-451	52027388	4RA 007 793-037			043 76951	8BW 003 966-047
440073842	9XT 713 630-391	52028189	8XY 004 717-001			043 76951	8BW 003 966-047
440073843	6RH 004 570-401	52032244	8EV 003 361-001			043 76951	8BW 003 966-047
440073851	9XT 713 630-301	52040631	5HE 996 152-141			043 76951	8BW 003 966-047
440074545	9FF 713 627-001	71313410	9SL 706 729-011			043 76951	8BW 003 966-047
440075510	4AZ 003 787-001	71344040	9SL 706 729-011			043 76951	8BW 003 966-047
440075510	4RA 965 400-031	71344040	6EK 002 843-001			043 76951	8BW 003 966-047
440075513	6HF 001 579-061	71344040	6EK 002 843-003			043 76951	8BW 003 966-047
440075608	4AZ 003 787-021	71344040	6EK 002 843-007			043 76951	8BW 003 966-047
440075608	6EH 004 570-021	08300030	3BA 002 768-771			043 76951	8BW 003 966-047
440075608	6EH 004 570-027	08300030	3BA 002 768-777			043 76951	8BW 003 966-047
440075997	9HB 713 629-001	0830415	4AZ 001 879-051			043 76951	8BW 003 966-047
44075608	6EH 004 570-021	083.0471	8GP 002 066-241			043 76951	8BW 003 966-047
44075608	6EH 004 570-027	0840812	8KV 002 133-001			043 76951	8BW 003 966-047
449090076	8GP 002 095-121	0850133	8JD 002 289-011			043 76951	8BW 003 966-047
50002660	4AZ 001 879-051	0850133	8JD 002 289-013			043 76951	8BW 003 966-047
50002661	6HF 001 579-061	0850422	6BG 001 545-001			043 76951	8BW 003 966-047
50013006	8KW 045 145-003						

Manufacturer's no. / Hella no.

Cross-Reference



Kostal	Hella	Kramer	Hella	Krone	Hella	Krone	Hella
03 88 80 99	6ZF 182 914-051	56350	8KW 044 291-003	0301864/0	8KV 714 340-007	505820560	8JB 005 949-011
03 88 90 21	6ZF 182 914-041	56351	8KW 044 039-003	3019770	8JS 711 684-002	505820560	8JB 005 949-012
03 90 24 00	6ZF 182 914-031	56351	8KW 044 039-004	0302074/0	8JS 711 685-002	505820590	9GD 735 641-001
03 90 24 50	6ZF 182 914-001	56373	8KW 044 027-003	0302076/0	8JS 711 687-002	505821576	8KW 004 418-821
03 90 24 51	6ZF 182 914-011	56373	8KW 044 027-004	0302076/0	8JS 711 687-007	505821577	8JS 711 683-011
03 90 24 52	6ZF 182 914-021	56374	8KW 044 038-003	0302107/0	9FF 713 627-001	505821657	4RD 007 903-021
04 71 20 70	6BB 001 540-001	56378	8KW 705 392-003	0302194/0	8JS 711 686-002	505821657	4RD 007 903-027
04 84 39 00	6LB 005 389-001	56380	8KW 043 630-013	0302194/0	8JS 711 686-007	5806735/0	8JB 005 949-001
		56380	8KW 043 630-014	3021960	8JS 711 690-002	5806852/0	8JA 003 832-001
Kramer	Hella	56383	8KW 702 796-003	3021960	8JS 711 690-007	5806853/0	8JB 003 834-001
1000000457	6BA 001 539-001	56444	8KV 002 132-001	0302277/0	8KW 044 027-003	5807525/0	8PD 003 798-001
1000000457	6BA 001 539-007	56449	8JS 711 686-002	0302277/0	8KW 044 027-004	5808238/0	8JB 002 281-001
1000027147	8HG 714 504-001	56449	8JS 711 686-007	0302349/0	8KV 705 123-002	5808238/0	8JB 002 281-002
1000027437	6EK 002 843-001	56452	8JA 003 832-001	0302349/0	8KV 705 123-004	5809834/0	8JA 005 951-001
1000027437	6EK 002 843-003	56452	8JB 003 834-001	0302505/0	3AL 002 952-837	5809834/0	8JA 005 951-003
1000027437	6EK 002 843-007	56453	8KW 044 280-003	0302505/0	6GM 004 570-211	5810174/0	8JB 001 943-041
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1000050022	8KW 048 056-033	56472	8JS 711 689-002	0302507/0	6GM 004 570-061	5810348/0	8JD 002 294-011
1000085683	8JS 711 687-002	56478	8JB 001 941-001	0302507/0	6GM 004 570-067	5817036/0	4RA 965 400-031
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1000105126	8JA 005 951-001	58107	8KL 712 947-001	0302508/0	6EK 001 559-011	5820590/0	9GD 735 641-001
1000105126	8JA 005 951-003	58107	8KL 712 947-002	0302521/0	6EH 007 832-041	5821576/0	8KV 004 418-821
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1000147066	8JB 004 123-012	58155	8KL 712 975-001	0302524/0	6EH 007 832-027	0583541/0	4DN 008 768-027
1000148114	9GH 993 984-001	58155	8KL 712 975-002	0302525/0	6HH 007 832-321	6200645/0	8KW 044 036-003
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1000151117	9GH 993 984-001	7 577 642 040	8KW 043 630-013	0302526/0	6FH 007 832-107	6201047/0	8KW 715 923-003
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1000156059	3AL 002 952-811	7729703004	8KL 712 949-002	0302652/0	2AA 713 628-001	0924514/0	8KV 002 133-001
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27437	6EK 002 843-003	7733661604	8JS 711 685-002	0302657/0	8KW 701 235-034	0924579/0	8JA 002 263-001
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000 333 96 08	6EK 002 843-001	1810	9MJ 707 871-013	0302703/0	6RH 007 832-491	0924696/0	8KW 044 023-003
000 333 96 08	6EK 002 843-003	1810	9MJ 707 873-013	0302710/0	8HG 714 504-001	0924696/0	8KW 044 023-004
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000 334 00 31	8HS 071 414-001	030076	9MJ 707 875-013	0302804/0	8KX 707 913-001	0924701/0	8KW 705 392-003
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0004140001	8WB 003 248-007	054209	6EJ 001 569-001	0302807/0	6ZF 003 549-021	9305016	8KW 044 023-003
0004330155	8EZ 008 021-001	055553	8JB 001 935-031	0302991/0	4DW 003 390-061	9305016	8KW 044 023-004
561183	8JA 003 831-001	061397	8JA 500 431-002	3031210	8JD 008 151-011	0944031/0	8KW 044 028-003
56173	8HS 071 414-001	062852	8JA 715 606-001	3031300	8KW 044 277-003	0944031/0	8KW 044 028-004
56188	8JA 001 925-001	070969	8DB 003 750-711	0303140/0	9XT 713 630-011	0944032/0	8KW 044 027-003
56195	8JB 001 939-001	077488	8JA 003 526-002	0303198/0	8JS 711 683-002	0944032/0	8KW 044 027-004
56199	8JB 002 281-001	083068	8JB 004 123-001	0303201/0	8JS 711 689-002	0944033/0	8KW 044 282-003
56200	8JB 002 281-002	083095	8JA 003 526-002	0303353/0	9XT 713 630-711	0944034/0	8KW 044 039-003
56203	8JB 003 833-001	085076	8JB 008 085-001	3033550	9XT 713 630-421	0944034/0	8KW 044 039-004
56203	8JD 002 289-011	087873	4RD 933 332-051	3033590	6RH 007 832-461	0944035/0	8KW 044 030-003
56203	8JD 002 289-013	087873	4RD 933 332-057	3033590	6RH 007 832-467	0944035/0	8KW 044 030-004
56208	8JS 704 073-003	087873	8JB 001 941-002	3033600	6RH 007 832-381	0944041/0	8KW 044 039-004
56209	8JS 025 889-003	087873	9GH 993 984-001	0303463/0	8JA 003 526-001	0944042/0	8HS 071 414-001
56210	8JS 089 015-003	088136	9GH 993 984-007	0303463/0	8JA 003 526-002	0944048/0	8KX 002 137-001
56211	8JS 091 603-003	088137	8JB 001 941-001	3037540	8KW 044 276-003	0944049/0	8KV 002 127-001
56213	8JS 711 685-002	088137	8JA 001 918-002	3037540	8KW 044 276-004	0944050/0	8KV 091 451-031
56218	8KV 002 127-021	088141	8JA 001 918-021	3037560	8KW 044 038-003	0944050/0	8KX 091 451-032
56228	8KW 044 022-003	088141	8JA 003 526-001	0303769/0	5HE 996 152-131	0944051/0	8KX 043 021-031
56228	8KW 044 022-004	089129	8JA 003 526-002	3037860	8JS 713 575-001	0944051/0	8KX 043 021-032
56229	8KW 044 023-003		6ZF 003 549-001	0305040-0	6GM 007 832-251	0944052/0	8JS 025 889-003
56229	8KW 044 023-004			03050540	8JD 008 152-021	0944053/0	8JS 711 683-002
56234	8KW 044 030-003	14405002		500924570	8JB 001 941-001	0944053/0	8JS 711 683-002
56234	8KW 044 030-004	200802680	8JB 003 833-001	500924570	8JB 001 941-002	0944054/0	8JS 711 684-002
56235	8KW 044 031-003	200805560	8KW 744 772-003	500924572	8JB 003 833-001	0944055/0	8JS 711 685-002
56236	8KW 044 032-003	200805810	8JS 711 683-011	500924576	8JA 001 918-002	0944056/0	8JS 711 686-002
56236	8KW 044 032-004	200805820	6RH 008 910-011	500924579	8JA 002 263-001	0944056/0	8JS 711 686-007
56239	8KW 044 036-003	200805930	6EH 004 570-011	500924579	8JA 002 263-031	0944057/0	8JS 711 687-002
56239	8KW 044 036-004	200808450	8KV 004 418-004	500924580	8JB 001 933-031	0944057/0	8JS 711 687-007
56240	8KW 044 040-003	200812760	8JB 001 939-001	500944034	8KW 044 039-003	0944058/0	8JS 711 688-002
56240							



Manufacturer's no. / Hella no.

Cross-Reference

Krone	Hella	Liebherr	Hella	Liebherr	Hella	Liebherr	Hella
0944125/0	8KW 044 025-003	1 080 197 4	8JS 728 596-017	6 040 015 08	8JS 025 889-003	6 052 032 08	8JB 001 946-001
0944126/0	8KW 044 288-003	1 081 789 6	8HG 005 953-001	6 040 015 14	8JS 025 889-003	6 052 039 08	8JB 004 777-001
0944126/0	8KW 044 288-004	1 100 042 3	8JA 008 981-001	6 040 016	8JS 089 015-003	6 052 039 14	8JB 001 946-021
0944127/0	8KW 708 374-003	1 100 158 5	5HE 996 152-131	6 040 016 08	8JS 089 015-003	6 052 039 14	8JB 001 946-022
0944127/0	8KW 708 374-004	1 100 161 2	8JB 001 946-051	6 040 016 14	8JS 089 015-003	6 052 082 08	8JB 001 935-031
0944128/0	8KW 044 291-003	1100423	8JA 008 981-001	6 040 017	8JS 091 603-003	6 052 082 77	8JB 001 935-031
0944129/0	8KW 044 276-003	1 100 942 9	9GD 735 641-001	6 040 017 08	8JS 091 603-003	6 052 083 08	8JB 003 833-001
0944129/0	8KW 044 276-004	1 832 50	8JA 002 262-001	6 040 017 14	8JS 091 603-003	6 052 092 08	8JB 002 281-001
0944130/0	8KW 044 032-003	1 832 50	8JA 002 262-003	6 040 018 08	8JS 704 073-003	6 052 092 08	8JB 002 281-002
0944130/0	8KW 044 032-004	2 023 096	8KW 044 030-003	6 040 069 08	8JS 711 684-002	6 052 092 14	8JB 002 281-001
0944131/0	8KW 701 235-033	2 023 096	8KW 044 030-004	6 040 070 08	8JS 711 685-002	6 052 092 14	8JB 002 281-002
0944131/0	8KW 701 235-034	4 001 911	8JB 003 833-001	6 040 071 08	8JS 711 686-002	6 052 093	8JB 002 286-021
0944133/0	8KW 048 056-033	4 015 00	6HF 001 579-157	6 040 071 08	8JS 711 686-007	6 052 116 01	8JB 002 286-021
0944133/0	8KW 048 056-033	5 008 914	8JA 007 024-001	6 040 072 08	8JS 711 687-002	6 052 160 01	8JB 001 946-021
0944134/0	8KW 044 026-003	5 705 203 77	6ZF 005 499-001	6 040 072 08	8JS 711 687-007	6 052 160 01	8JB 001 946-022
		5 801 680	8TW 005 546-051	6 040 073 08	8JS 711 688-002	6 052 161 01	8JB 003 833-001
		5 910 553 08	8BW 857 580-005	6 040 074 08	8JS 711 690-002	6 052 162 01	8JB 004 123-001
		5 910 554 08	8TW 005 496-051	6 040 074 08	8JS 711 690-007	6 052 162 01	8JB 004 123-002
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		5 910 804 08	8BW 003 966-037	6 040 077 08	8JS 711 683-002	6 052 164 01	8JB 003 833-001
		5 910 804 08	8BW 003 966-067	6 040 077 08	8JS 711 685-002	6 052 206 01	8KV 002 127-021
		5 915 519 08	8HG 002 211-001	6 041 052 14	8JS 711 683-002	6 054 076 08	8EZ 008 022-011
		5 915 945 14	8SB 501 081-031	6 041 053 14	8JS 711 684-002	6 056 239 01	8KW 701 235-033
		6 000 050	8KW 044 023-003	6 041 054 14	8JS 711 685-002	6 056 239 01	8KW 701 235-034
		6 000 050	8KW 044 023-004	6 041 055 14	8JS 711 686-002	6 060 000	6BB 001 540-001
		6 000 052	8KW 044 026-003	6 041 055 14	8JS 711 686-007	6 060 011	6DD 001 551-011
		6 000 067	6HD 002 535-111	6 041 056 14	8JS 711 687-002	6 060 011	6DD 001 551-017
		6 000 069	8GP 002 068-241	6 041 056 14	8JS 711 687-007	6 060 090 08	4DM 004 639-061
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		6 000 559	8JB 001 939-001	6 045 005 08	8JD 002 294-002	6 060 191 08	9GH 045 833-001
		6 000 555	4DM 003 474-001	6 045 005 14	8JD 002 294-001	6 060 205 08	6JF 001 571-001
		6 000 755	4DM 003 474-007	6 045 005 14	8JD 002 294-002	6 060 206	6ZF 003 549-021
		6 000 833	8JD 002 289-011	6 045 011 08	8JD 002 290-001	6 060 206 08	6ZF 003 549-021
		6 000 833	8JD 002 289-013	6 045 011 14	8JD 002 290-001	6 060 207	6ZF 004 229-011
		6 000 853	8KV 002 136-011	6 045 013 08	8JD 002 291-001	6 060 207	6ZF 004 229-017
		6 000 867	8GP 002 095-121	6 045 013 14	8JD 002 291-001	6 060 207 08	6ZF 004 229-011
		6 000 870	8JD 002 290-141	6 045 015	8JD 002 289-001	6 060 207 08	6ZF 004 229-017
		6 001 153	8JA 007 158-003	6 045 015 08	8JD 002 289-001	6 060 246 08	6HF 001 579-071
		6 001 161	8KW 708 373-003	6 045 016 08	8JD 005 993-051	6 060 254	6EK 001 559-001
		6 001 161	8KW 708 373-004	6 045 017 08	8JA 007 024-001	6 060 254	6EK 001 559-007
		6 001 162	8KW 708 374-003	6 045 239 14	9XS 091 200-007	6 060 254 08	6EK 001 559-001
		6 001 162	8KW 708 374-004	6 050 000	8JA 002 262-001	6 060 254 08	6EK 001 559-007
		6 001 163	8KW 044 288-003	6 050 000	8JA 002 262-003	6 060 254 77	6EK 001 559-001
		6 001 163	8KW 044 288-004	6 050 006 08	8JA 005 951-001	6 060 254 77	6EK 001 559-007
		6 001 171	8KW 044 034-003	6 050 006 08	8JA 005 951-003	6 060 709	6EK 001 559-007
		6 001 185	8JB 001 935-031	6 050 025	8JB 001 944-011	6 060 709	6EK 001 559-007
		6 001 186	8JB 001 946-001	6 050 026	8JA 001 918-002	6 060 709 08	6EK 001 559-001
		6 001 427	5WA 001 871-051	6 050 027 08	8JA 001 918-002	6 060 709 08	6EK 001 559-007
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		6 001 963	8JB 004 777-001	6 050 049 08	8JA 002 263-001	6 061 966 08	6ED 001 563-003
		6 002 002	8JB 001 943-011	6 050 049 08	8JA 002 263-031	6 061 966 08	6ED 001 563-004
		6 002 003	8JB 005 949-001	6 050 050 01	8JA 001 918-002	6 061 968 808	6ED 004 778-031
		6 002 018	8KX 091 391-001	6 050 056 08	8JA 001 930-001	6 070 046	8GP 002 066-121
		6 002 153	4RD 933 332-071	6 050 056 08	8JA 001 930-003	6 070 097 08	8GP 002 095-241
		6 002 153	4RD 933 332-077	6 050 056 08	8JA 001 930-021	6 070 140	8GP 002 068-121
		6 002 222	8KW 702 796-003	6 050 056 14	8JA 001 930-001	6 070 202 08	8GP 002 068-241
		6 002 227	8KW 043 630-013	6 050 056 14	8JA 001 930-003	6 070 202 14	8GP 002 068-241
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		6 002 244	8KW 700 143-003	6 050 057	8JA 002 262-001	6 070 216 08	8GP 002 066-241
		6 002 290	8KW 045 145-003	6 050 057	8JA 002 262-003	6 070 216 14	8GP 002 066-241
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		6 002 451	8KW 044 030-003	6 050 057 14	8JA 002 262-001	6 072 246 08	9HG 851 387-007
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		6 003 073	8JB 004 777-001	6 050 060 08	8JA 003 831-001	6 104 089 08	8EV 003 361-011
		6 003 311	8JA 001 915-001	6 050 083	8JA 001 925-001	610408914	8EV 003 361-011
		6 004 180	8JA 001 925-001	6 050 083 14	8JA 001 925-001	6 104 890 8	8EV 003 361-011
		6 004 216	6HD 002 535-111	6 050 093	8JA 002 286-021	6 114 032 914	3AL 006 958-827
		6 004 236	6HF 003 916-031	6 050 102 08	8JA 703 947-011	6 132 013	8KX 091 453-001
		6 004 237	8JA 711 375-001	6 050 151 01	8JA 002 262-001	6 132 014 14	8KX 707 911-011
		6 004 328	6HF 003 916-107	6 050 151 01	8JA 002 262-003	613201708	8KX 091 451-031
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		6 008 941 4	8KX 707 916-021	6 050 155 01	8JA 002 252-103	6 132 018 08	8KX 091 450-032
		6 014 018	8JS 704 073-003	6 050 156 01	8JA 007 241-031	613201908	8KX 043 021-031
		6 021 008	8KX 091 453-001	6 051 017	8KW 044 035-003	613201908	8KX 043 021-032
		6 021 047 08	9XS 091 200-007	6 052 003	8JB 001 946-021	6132030	8KX 707 911-001
		6 022 040 08	8KW 701 235-033	6 052 003	8JB 001 946-022	613203014	8KX 707 911-001
		6 022 040 08	8KW 701 235-034	6 052 005	8JB 001 944-011	6 132 031 08	8KX 707 913-001
		6 023 082	8KW 043 629-013	6 052 008 08	8JB 005 949-011	6 132 032 01	8KX 707 911-001
		6 023 083	8KW 043 636-003	6 052 008 08	8JB 005 949-012	6 132 033 01	8KX 707 911-011
		6 023 094	8KW 044 277-003	6 052 027 08	8JB 001 940-001	614001208	3AG 003 399-101
		6 023 096	8KW 044 029-003	6 052 027 14	8JB 001 940-001	6 140 018 08	6ZE 001 759-051
		6 023 096	8KW 044 030-003	6 052 028 01	8JB 001 941-001	6 140 019 08	6ED 004 778-021
		6 023 096	8KW 044 030-004	6 052 028 01	8JB 001 941-002	6 140 031 08	3AL 002 952-871
		6 023 391 08	8KW 054 944-003	6 052 028 08	8JB 001 941-001	6 140 031 08	3AL 002 952-877
		6 026 003	8KV 002 137-001	6 052 028 08	8JB 001 941-002	6 140 032	3BA 002 768-431
		6 027 355 08	8JS 713 575-001	6 052 028 14	8JB 001 941-001	6 140 032	3BA 002 768-437
		6 027 355 08	9NM 741 492-001	6 052 028 14	8JB 001 941-002	6 140 032 08	3AL 006 958-827
		6 040 010 08	8JS 089 015-003	6 052 030 08	8JB 001 933-031	614005408	3BA 002 768-382
		6 040 013 08	8JS 091 603-003	6 052 031 08	8JB 001 939-001	6 140 068 08	3SB 002 768-031

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Cross-Reference



Liebherr	Hella	Littlefuse	Hella	Littlefuse	Hella	Littlefuse	Hella
6 140 099 08	3SL 996 139-001	156.550110	8JS 713 575-021	0257003.PXPV	8JS 711 683-002	293830.TN000	8JS 740 026-101
6 140 205	3AF 003 399-041	156.560110	8JS 713 575-031	0257003.PXPV	8JS 711 683-821	29 38 40	8JS 740 026-111
6 140 329 14	3AL 006 958-827	156.5677.5301	8JS 713 575-102	257004	8JS 711 683-052	0293840.H	8JS 740 026-111
6 140 461 14	3AG 003 399-101	156.5677.5401	8JS 713 575-112	257004	8JS 711 683-881	293840.TN000	8JS 740 026-111
6200003	8JB 001 933-031	156.5677.5501	8JS 713 575-122	257004.LN000	8JS 711 683-052	29 40 30	8JS 740 026-201
6 200 008	3AL 002 952-871	156.5677.5601	8JS 713 575-132	0257004.PXPV	8JS 711 683-881	294030.BN000	8JS 740 026-201
6 200 008	3AL 002 952-877	156.5677.5801	8JS 713 575-142	0257004.PXPV	8JS 711 683-881	0294030.H	8JS 740 026-201
6 200 009	8JS 089 015-003	156.5677.6111	8JS 713 575-152	257005	8JS 711 684-002	294040	8JS 740 026-241
6 200 010	8JS 704 073-003	156.5677.6151	8JS 713 575-162	257005.LN000	8JS 711 684-002	294040.BN000	8JS 740 026-241
6 200 566	8GP 002 066-241	156.5677.6171	8JS 713 575-172	0257005.PXPV	8JS 711 684-002	0294040.H	8JS 740 026-241
6 200 671	6ED 001 564-001	156.580110	8JS 713 575-001	0257005.PXPV	8JS 711 684-821	294050.TN000	8JS 740 026-251
6 200 672	8KV 002 127-011	156.610110	8JS 713 575-041	257010	8JS 711 686-002	29 40 60	8JS 740 026-211
6 200 728	8KW 043 630-013	156.612110	8JS 713 575-051	257010	8JS 711 686-007	294060.BN000	8JS 740 026-211
6 200 728	8KW 043 630-014	156.615110	8JS 713 575-061	257010	8JS 711 686-821	0294060.H	8JS 740 026-211
6 200 907	8JA 003 526-001	157.5701.5351	8JS 713 575-201	257010.LN000	8JS 711 686-002	294070	8JS 740 026-261
6 200 907	8JA 003 526-002	157.5701.5501	8JS 713 575-211	0257010.PXPV	8JS 711 686-002	0294070.H	8JS 740 026-261
6200909	8KV 002 139-001	157.5701.5631	8JS 713 575-221	0257010.PXPV	8JS 711 686-821	294070.TN000	8JS 740 026-261
6200909	8KV 002 139-003	157.5701.5801	8JS 713 575-231	257015	8JS 711 687-002	29 40 80	8JS 740 026-221
6201058	8GP 002 095-241	157.5701.6101	8JS 713 575-241	257015	8JS 711 687-007	294080.BN000	8JS 740 026-221
6201082	8KV 002 127-003	157.5701.6121	8JS 713 575-251	257015	8JS 711 687-821	0294080.H	8JS 740 026-221
6201082	8KV 002 127-007	157.5701.6161	8JS 713 575-261	257015.LN000	8JS 711 687-002	29 41 00	8JS 740 026-231
6 201 100	8KV 002 132-001	157.5701.6201	8JS 713 575-271	0257015.PXPV	8JS 711 687-002	0294100.H	8JS 740 026-231
6 201 101	8KV 002 133-001	157.5701.6251	8JS 713 575-281	0257015.PXPV	8JS 711 687-821	294100.TN000	8JS 740 026-231
6201252	8JD 002 291-011	157.5701.6301	8JS 713 575-291	257020	8JS 711 688-002	294120	8JS 740 026-271
6201444	8JA 002 263-001	157.5701.6351	8JS 713 575-301	257020	8JS 711 688-821	0294120.H	8JS 740 026-271
6 201 483	8GA 007 997-021	157.5701.6421	8JS 713 575-311	257020.LN000	8JS 711 688-002	294120.TN000	8JS 740 026-271
6 201 527	8KL 712 944-001	166.7000.4306	8JS 711 683-202	0257020.PXPV	8JS 711 688-002	295030	8JS 740 026-311
6 201 527	8KL 712 944-002	166.7000.4506	8JS 711 683-212	0257020.PXPV	8JS 711 688-821	295030.BN000	8JS 740 026-311
6 201 621	8EV 003 361-011	166.7000.4756	8JS 711 683-222	257025	8JS 711 689-002	0295030.H	8JS 740 026-311
6 201 942	6ZF 003 549-021	166.7000.5102	8JS 711 683-232	257025	8JS 711 689-821	295030.TN000	8JS 740 026-311
6 202 284	8JA 003 526-001	166.7000.5156	8JS 711 683-242	257025.LN000	8JS 711 689-002	295040	8JS 740 026-321
6 202 284	8JA 003 526-002	166.7000.5206	8JS 711 683-252	0257025.PXPV	8JS 711 689-002	295040.BN000	8JS 740 026-321
6202387	3PA 004 206-011	166.7000.5252	8JS 711 683-262	0257025.PXPV	8JS 711 689-821	295040.H	8JS 740 026-321
6 202 511	4RD 933 332-071	166.7000.5306	8JS 711 683-272	257030	8JS 711 690-002	295040.TN000	8JS 740 026-321
6 202 511	4RD 933 332-077	19410-01	8JS 174 333-001	257030	8JS 711 690-007	295050	8JS 740 026-331
6202951	8JD 005 235-002	19415-01	8JS 174 333-011	257030	8JS 711 690-821	0295050.H	8JS 740 026-331
6 204 334	8KV 004 418-004	19420-01	8JS 174 333-021	257030.LN000	8JS 711 690-002	295050.TN000	8JS 740 026-331
6 204 592	3AF 003 399-061	19425-01	8JS 174 333-031	0257030.PXPV	8JS 711 690-002	295060	8JS 740 026-341
6 204 593	3AG 003 399-101	19430-01	8JS 174 333-041	0257030.PXPV	8JS 711 690-821	0295060.H	8JS 740 026-341
6 205 045	3AF 003 399-071	19435-01	8JS 174 333-051	257035	8JS 711 683-042	295060.TN000	8JS 740 026-341
6 301 051 08	4RA 007 957-001	19440-01	8JS 174 333-061	257035	8JS 711 683-871	295070	8JS 740 026-351
6 301 051 08	4RA 007 957-007	19450-01	8JS 174 333-071	257035.LN000	8JS 711 683-042	295070.BN000	8JS 740 026-351
6 301 054 08	4RD 007 903-001	21105-08	8JS 174 330-001	0257035.PXPV	8JS 711 683-042	295070.TN000	8JS 740 026-351
6 301 054 08	4RD 007 903-007	21110-08	8JS 174 330-021	0257035.PXPV	8JS 711 683-871	29 50 80	8JS 740 026-301
6 301 102 08	4DW 004 513-001	21115-08	8JS 174 330-031	257040	8JS 711 683-031	0295080.H	8JS 740 026-301
6 301 102 08	4DW 004 513-021	21120-08	8JS 174 330-041	257040	8JS 711 683-851	295080.TN000	8JS 740 026-301
630121508	4RD 933 332-091	21125-08	8JS 174 330-051	257040.LN000	8JS 711 683-031	295100	8JS 740 026-361
630121508	4RD 933 332-097	21130-08	8JS 174 330-061	0257040.PXPV	8JS 711 683-031	0295100.H	8JS 740 026-361
6301423	4RA 965 400-031	21175-08	8JS 174 330-011	0257040.PXPV	8JS 711 683-851	295100.TN000	8JS 740 026-361
630142314	4RA 965 400-031	214005	8JS 704 073-003	025707.5	8JS 711 685-002	295120	8JS 740 026-371
6 301 602 14	4RD 933 332-061	214005	8JS 704 073-001	025707.5	8JS 711 685-821	0295120.H	8JS 740 026-371
6 301 602 14	4RD 933 332-067	214005.LN000	8JS 704 073-003	25707.5.LN000	8JS 711 685-002	295120.TN000	8JS 740 026-371
6 301 918 01	8JA 003 526-001	214005.TN000	8JS 704 073-003	025707.5PXPV	8JS 711 685-002	297002	8JS 728 596-081
6 301 918 01	8JA 003 526-002	214008	8JS 025 889-003	025707.5PXPV	8JS 711 685-821	297002	8JS 728 596-861
6 427 470	3SL 996 139-001	214008	8JS 025 889-801	283030	8JS 740 026-501	297002.LN000	8JS 728 596-081
6 427 470 03	3SL 996 139-001	0214008.K	8JS 025 889-003	0283030.H	8JS 740 026-501	0297002.WXNV	8JS 728 596-081
6 905 132	8JB 003 333-011	214008.LN000	8JS 025 889-003	283040	8JS 740 026-511	0297002.WXNV	8JS 728 596-861
6 905 327	3AL 002 952-861	214008.TN000	8JS 025 889-003	0283040.H	8JS 740 026-511	297003	8JS 728 596-101
6 905 327	3AL 002 952-867	214016	8JS 089 015-003	283050	8JS 740 026-521	297003	8JS 728 596-881
6 905 414	8EV 003 361-001	214016	8JS 089 015-801	0283050.H	8JS 740 026-521	297003.LN000	8JS 728 596-101
6 905 434	6DD 001 551-001	0214016.K	8JS 089 015-003	283060	8JS 740 026-531	0297003.WXNV	8JS 728 596-101
6 905 529	8JB 001 946-041	214016.LN000	8JS 089 015-003	0283060.H	8JS 740 026-531	0297003.WXNV	8JS 728 596-881
6 905 972	6JF 001 571-101	214016.TN000	8JS 089 015-003	283070	8JS 740 026-541	297004	8JS 728 596-121
691869214	8JA 001 916-001	214025	8JS 091 603-003	0283070.H	8JS 740 026-541	297004	8JS 728 596-801
6 930 076 14	6ZF 003 549-001	214025	8JS 091 603-801	283080	8JS 740 026-251	297004.LN000	8JS 728 596-121
6 931 650 14	9GH 993 984-001	0214025.K	8JS 091 603-003	283080	8JS 740 026-551	297004.LN000	8JS 728 596-801
6 931 650 14	9GH 993 984-007	214025.LN000	8JS 091 603-003	0283080.H	8JS 740 026-251	297004.WXNV	8JS 728 596-121
7 026 589	8JB 004 123-001	214025.TN000	8JS 091 603-003	0283080.H	8JS 740 026-551	0297004.WXNV	8JS 728 596-801
7 026 589	8JB 004 123-002	214040	8JS 713 144-003	283100	8JS 740 026-561	297005	8JS 728 596-131
7 408 151	8JA 001 921-102	0214040.K	8JS 713 144-003	0283100.H	8JS 740 026-561	297005	8JS 728 596-811
7 790 022 14	8SB 002 404-121	214040.LN000	8JS 713 144-003	283120	8JS 740 026-571	297005.LN000	8JS 728 596-131
7 790 022 14	8SB 002 404-131	217001	8JS 713 549-003	0283120.H	8JS 740 026-571	297005.LN000	8JS 728 596-811
7 790 024	8SB 002 997-001	0217001.MXP	8JS 713 549-003	29 30 20	8JS 740 026-001	0297005.WXNV	8JS 728 596-131
7 790 024 14	8SB 002 997-001	217001.TA000	8JS 713 549-003	293020.BN000	8JS 740 026-001	0297005.WXNV	8JS 728 596-811
7 790 283 14	9BP 561 006-012	217001.TN000	8JS 713 549-003	0293020.H	8JS 740 026-001	297010	8JS 728 596-141
7 790 285 14	6GM 500 212-002	217005	8JS 713 550-003	29 30 30	8JS 740 026-011	297010	8JS 728 596-821
0 790 135 3135	8KX 707 913-011	217005	8JS 713 550-801	293030.BN000	8JS 740 026-011	297010.LN000	8JS 728 596-141
		0217005.MXP	8JS 713 550-003	0293030.H	8JS 740 026-011	297010.LN000	8JS 728 596-821
		217005.TA000	8JS 713 550-003	29 30 40	8JS 740 026-021	0297010.WXNV	8JS 728 596-141
		217005.TN000	8JS 713 550-003	293040.BN000	8JS 740 026-021	0297010.WXNV	8JS 728 596-821
		021702.5	8JS 713 804-003	0293040.H	8JS 740 026-021	297015	8JS 728 596-151
		021702.5MXP	8JS 713 804-003	29 30 50	8JS 740 026-031	297015	8JS 728 596-831
		217025.TA000	8JS 713 804-003	293050.BN000	8JS 740 026-031	297015.LN000	8JS 728 596-151
		255.0808.0					



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Littlefuse	Hella	Littlefuse	Hella	Littlefuse	Hella	MAN	Hella
297030.LN000	8JS 728 596-171	445006.LN000	8JD 743 557-011	0CAS003	8JS 711 683-062	07.91201.0718	8KW 705 393-003
297030.LN000	8JS 728 596-851	445007.LN000	8JD 743 557-001	0CAS003.H	8JS 711 683-062	07.91201.5108	8KW 044 026-003
0297030.WXNV	8JS 728 596-171	445008.LN000	8JD 743 557-021	0CAS005	8JS 711 683-072	07.91211.0112	8KW 044 030-003
0297030.WXNV	8JS 728 596-851	445009.LN000	8JD 743 557-031	0CAS005.T	8JS 711 683-072	07.91211.0112	8KW 044 030-004
029707.5	8JS 728 596-111	495020	8JS 740 026-401	0CAS010	8JS 711 683-092	07.91251.1018	8KW 044 032-003
029707.5	8JS 728 596-891	495020.TN000	8JS 740 026-401	0CAS010.H	8JS 711 683-092	07.91251.1018	8KW 044 032-004
29707.5LN00	8JS 728 596-111	0495020.TXN	8JS 740 026-411	0CAS015	8JS 711 683-102	07.91252.1018	8KW 044 288-003
029707.5WXNV	8JS 728 596-111	495030	8JS 740 026-411	0CAS015.H	8JS 711 683-102	07.91252.1018	8KW 044 288-004
029707.5WXNV	8JS 728 596-891	495030.TN000	8JS 740 026-411	0CAS020	8JS 711 683-112	07.91313.0212	8KV 002 133-001
298100	8JS 742 902-001	0495030.TXN	8JS 740 026-411	0CAS020.H	8JS 711 683-112	07.91313.0501	9XS 091 200-007
298100.TN000	8JS 742 902-001	495040	8JS 740 026-421	0CAS025	8JS 711 683-122	81.25301.6042	3BA 002 768-382
0298100.ZXEHE	8JS 742 902-001	495040.TN000	8JS 740 026-421	0CAS025.H	8JS 711 683-122	81.25301.6044	3AF 003 399-071
298125	8JS 742 902-011	0495040.TXN	8JS 740 026-421	0CAS030	8JS 711 683-132	81.25301.6045	8JK 003 399-061
298125.TN000	8JS 742 902-011	495050	8JS 740 026-431	0CAS030.H	8JS 711 683-132	81.25301.6048	3BA 002 768-082
0298125.ZXEHE	8JS 742 902-011	495050.TN000	8JS 740 026-431	0CAS07.5	8JS 711 683-082	81.25301.6074	3BA 002 768-082
298150	8JS 742 902-021	0495050.TXN	8JS 740 026-431	0CAS07.5H	8JS 711 683-082	81.25402.6625	8KA 560 271-002
298150.TN000	8JS 742 902-021	495060	8JS 740 026-441	M. & K.	Hella	81.25432.0034	8JB 001 946-031
0298150.ZXEHE	8JS 742 902-021	495060.TN000	8JS 740 026-441	5.00008.0000	8JS 025 889-003	81.25432.0075	8JB 001 946-021
298175	8JS 742 902-031	0495060.TXN	8JS 740 026-441	5.00016.0000	8JS 089 015-003	81.25432.0075	8JB 001 946-022
298175.TN000	8JS 742 902-031	498030	8JS 742 901-061	5.00025.0000	8JS 091 603-003	81.25432.6198	8JB 002 242-021
0298175.ZXEHE	8JS 742 902-031	0498030.H	8JS 742 901-061	5.000730.9000	8JS 091 603-003	07.91251.1018	8JD 002 289-011
298200	8JS 742 902-041	498030.TN000	8JS 742 901-061	5.00731.0000	8JA 002 123-001	81.25434.0017	8JD 002 289-013
298200.TN000	8JS 742 902-041	498040	8JS 742 901-001	5.00731.0000	8JA 002 252-103	81.25435.0005	8JA 002 263-001
0298200.ZXEHE	8JS 742 902-041	0498040.H	8JS 742 901-001	5.00731.0000	8JA 004 667-001	81.25435.0040	8JA 001 915-001
298225	8JS 742 902-061	498040.TN000	8JS 742 901-001	5.00781.0000	6EK 002 843-001	81.25435.0045	8JA 715 606-001
298225.TN000	8JS 742 902-061	498050	8JS 742 901-011	5.00782.0000	6EK 001 559-001	81.25435.0094	8JA 001 926-001
0298225.ZXEHE	8JS 742 902-061	498050.BN000	8JS 742 901-011	5.05599.0000	8JD 002 288-001	81.25435.0107	8JA 703 947-011
298250	8JS 742 902-051	0498050.H	8JS 742 901-011	5.05600.0000	8JD 002 289-001	81.25435.0175	8JA 001 918-002
298250.TN000	8JS 742 902-051	498060	8JS 742 901-021	5.05602.0000	8JD 002 294-001	81.25435.0175	8JA 001 918-021
0298250.ZXEHE	8JS 742 902-051	0498060.H	8JS 742 901-021	5.05603.0000	8JD 002 291-001	81.25435.0240	8KV 002 127-003
298300	8JS 742 902-071	498060.TN000	8JS 742 901-021	5.08200.0008	8JD 002 290-001	81.25435.0240	8KV 002 127-007
298300.TN000	8JS 742 902-071	498070	8JS 742 901-031	5.08200.016	8KV 002 127-021	81.25435.0397	8KV 003 285-002
0298300.ZXEHE	8JS 742 902-071	0498070.H	8JS 742 901-031	5.08234.0000	8KV 002 127-001	81.25435.0591	8JA 003 832-001
298350	8JS 742 902-081	498070.TN000	8JS 742 901-031	5.08235.0000	8KV 002 139-001	81.25435.0888	8JA 003 526-001
0298350.ZXEHE	8JS 742 902-081	498080	8JS 742 901-041	5.08236.0000	8KV 002 140-001	81.25435.0888	8JA 003 526-002
298400	8JS 742 902-091	498080.BN000	8JS 742 901-041	5.08237.0000	8KV 002 140-001	81.25435.6155	8JA 001 920-011
0298400.ZXEHE	8JS 742 902-091	0498080.H	8JS 742 901-041	5.09990.0000	8KV 002 141-001	81.25503.0029	6JF 001 571-001
298450	8JS 742 902-101	498100	8JS 742 901-051	6.00717.0000	6ZF 003 549-001	81.25503.0053	6HF 001 579-011
0298450.ZXEHE	8JS 742 902-101	0498100.H	8JS 742 901-051	6.00722.0000	8JB 002 263-001	81.25503.0130	6HF 002 372-041
298500	8JS 742 902-111	498100.TN000	8JS 742 901-051	6.00732.0000	8JB 001 946-031	81.25503.0131	6JF 001 571-041
0298500.ZXEHE	8JS 742 902-111	498125	8JS 742 901-071	6.00732.3000	8JB 001 946-001	81.25503.0131	6JF 001 571-047
298900.TN000	8JD 743 135-001	0498125.H	8JS 742 901-071	6.00733.3000	8JB 001 946-011	81.25503.0333	5WA 001 871-051
299020	8JS 728 595-051	498125.TN000	8JS 742 901-071	6.00737.0000	8JB 001 946-011	81.25505.0426	6ZF 182 914-051
299020	8JS 728 595-131	498150	8JS 742 901-081	6.00753.0000	8JB 001 943-011	81.25505.0538	6ZF 182 914-031
299020.BN000	8JS 728 595-051	0498150.H	8JS 742 901-081	6.00753.616	8JB 003 833-011	81.25505.0616	6ZF 182 914-051
299020.TN000	8JS 728 595-131	498150.TN000	8JS 742 901-081	6.00753.902	8JB 003 833-001	81.25505.0636	6ZF 182 914-051
0299020.ZXNV	8JS 728 595-051	498900.TN000	8JD 743 136-001	6.00754.0000	8JA 003 831-001	81.25505.0730	6ZF 003 549-001
0299020.ZXNV	8JS 728 595-131	895020	8JS 740 026-731	6.00754.9000	8JA 003 832-001	81.25505.0794	6ZF 182 914-031
0299025.ZXNV	8JS 728 595-212	0895020.Z	8JS 740 026-731	6.00757.0000	8JB 001 939-001	81.25505.0864	6ZF 182 914-031
299030	8JS 728 595-061	895025	8JS 740 026-741	6.00757.9000	8JB 006 464-001	81.25505.0956	6ZF 182 914-041
299030	8JS 728 595-141	0895025.Z	8JS 740 026-751	6.00773.0000	8JB 001 941-002	81.25505.6016	6ZF 182 914-051
299030.BN000	8JS 728 595-061	895030	8JS 740 026-751	6.00774.0000	8JA 001 918-002	81.25505.6046	6ED 004 778-021
299030.TN000	8JS 728 595-141	0895030.Z	8JS 740 026-761	6.00774.0000	8JA 001 918-021	81.25505.7014	6FG 002 312-001
0299030.ZXNV	8JS 728 595-061	895040	8JS 740 026-761	6.00783.0000	8JA 001 918-021	81.25505.7014	6FG 002 312-002
0299030.ZXNV	8JS 728 595-141	0895040.Z	8JS 740 026-771	6.00784.0000	8JA 002 262-001	81.25506.7000	6EK 001 559-001
299040	8JS 728 595-071	895050	8JS 740 026-771	6.00922.0000	8JB 001 943-003	81.25506.7000	6EK 001 559-007
299040	8JS 728 595-151	0895050.Z	8JS 740 026-771	6.00922.9000	8JB 001 943-041	81.25510.0001	6AJ 001 751-021
299040.BN000	8JS 728 595-071	895060	8JS 740 026-781	6.00922.0000	8JB 001 943-041	81.25520.0001	6EJ 001 569-001
299040.TN000	8JS 728 595-151	0895060.Z	8JS 728 596-262	6.00929.0000	8JB 002 281-001	81.25520.0050	6ZF 182 914-051
0299040.ZXNV	8JS 728 595-071	897002	8JS 728 596-262	6.00941.0000	8JA 001 925-001	81.25901.0043	8GP 002 095-241
0299040.ZXNV	8JS 728 595-151	0897002.H	8JS 728 596-262	6.00942.0000	8JB 001 935-031	81.25902.0191	5WG 002 450-291
299050	8JS 728 595-081	897003	8JS 728 596-272	6.00998.0000	8JA 001 931-041	81.25902.0191	5WG 002 450-297
299050	8JS 728 595-161	0897003.H	8JS 728 596-272	6.00998.0000	8JA 001 930-003	81.25902.0248	4RD 933 332-071
299050.BN000	8JS 728 595-081	897004	8JS 728 596-282	6.00998.3000	8JA 001 930-021	81.25902.0248	4RD 933 332-077
299050.TN000	8JS 728 595-161	0897004.H	8JS 728 596-282	6.00998.9000	8JA 005 476-001	81.25902.0470	4JA 005 355-001
0299050.ZXNV	8JS 728 595-081	897005	8JS 728 596-292	6.05620.0000	8JA 001 930-031	81.25902.0537	5WG 002 450-307
0299050.ZXNV	8JS 728 595-161	0897005.H	8JS 728 596-292	6.77400.140	9XS 091 200-007	81.25906.0001	3SB 002 768-031
299060	8JS 728 595-091	897010	8JS 728 596-312	6.90000.001	8KA 004 797-021	81.26483.0016	8BW 115 095-001
299060	8JS 728 595-171	0897010.H	8JS 728 596-312	6.90010.001	8JB 005 949-001	81.26485.6029	8TW 007 540-037
299060.BN000	8JS 728 595-091	897015	8JS 728 596-322	6.90199.001	8JB 005 949-011	81.63700.6087	8SB 501 246-822
299060.TN000	8JS 728 595-171	0897015.H	8JS 728 596-322	6.90600.001	8JA 005 951-001	81.63700.6088	8SB 501 246-803
0299060.ZXNV	8JS 728 595-091	897020	8JS 728 596-332	6.90900.001	8JA 005 952-001	81.63700.6089	8SB 501 247-803
0299060.ZXNV	8JS 728 595-161	0897020.H	8JS 728 596-332	6.90999.001	8JA 005 952-011	81.63730.0032	9MX 561 891-001
299070	8JS 728 595-101	897025	8JS 728 596-342	8217	8KV 002 133-001	81.63730.0065	9BG 562 812-002
299070	8JS 728 595-181	0897025.H	8JS 728 596-342	9.11000.0000	8JA 713 631-001	81.63730-0066	9BG 562 813-002
299070.BN000	8JS 728 595-101	897030	8JS 728 596-352	9.11000.0004	8JD 008 151-001	81.63730-0067	9BG 562 814-002
299070.TN000	8JS 728 595-181	0897030.H	8JS 728 596-352	Magneti Marelli	Hella	81.63730-0072	9SV 562 840-003
0299070.ZXNV	8JS 728 595-101	089707.5	8JS 728 596-302	15.940.5810	6NM 007 282-661	81.63730.6003	9MX 561 891-001
0299070.ZXNV	8JS 728 595-181	089707.5.H	8JS 728 596-302	36.470.6923	6NM 007 282-661	81.63730.6027	8SB 002 993-001
299080	8JS 728 595-111	955050.HN000	8JS 713 575-021	710 30 785 230 9	6NM 004 375-311	81.63730.6027	8SB 501 047-011
299080	8JS 728 595-191	955080.HN000	8JS 713 575-001	REP 1A	4RV 008 188-081	81.63730.6106	8SB 002 405-001
299080.BN000	8JS 728 595-111	970019	8PE 713 576-011	MAN	Hella	81.63730.6127	8SB 560 991-012
299080.TN000	8JS 728 595-191	00970019X	8PE 713 576-011	15 20077 0702	9MX 127 585-002	81.63730.6140	8SB 002 990-001
0299080.ZXNV	8JS 728 595-111	0CAM003	8JS 728 596-182	16 10077 0701	9EY 117 126-014	81.63730.6148	8SB 560 991-041
0299080.ZXNV	8JS 728 595-191	0CAM003.H	8JS 728 596-182	33.25432.6019	8JB 003 833-001	81.63730.6167	8SB 501 137-031
312005	8JS 713 564-002	0CAM005	8JS 728 596-192	36.25301-6001	3BA 002 768-431	81.63730.6187	8SB 003 978-001
0312005.MXP	8JS 713 564-002						

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Cross-Reference



MAN	Hella	MAN	Hella	Mekra	Hella	Mekra	Hella
81.63730.6312	9HB 562 837-022	88.63700.6009	8SB 501 247-812	15.3932.870H	9MX 863 839-011	61.3752.167	8SB 507 046-011
81.63730.6314	8SB 501 325-002	88.63700.6038	8SB 501 511-802	15.3941.870H	9MX 863 847-001	61.3772.147	8SB 507 045-001
81.63730.6320	9SV 562 829-002	88.63730.6007	8SB 002 405-001	15.3942.850H	9MX 863 847-011	61.3782.147	8SB 507 044-001
81.63730.6321	8HS 563 390-002	88.63730.6030	8SB 003 978-041	15.3961.174H	9MX 564 246-001	61.3782.167	8SB 507 044-011
81.63730.6345	8SB 354 504-011	88.63730.6053	8SB 501 325-012	15.4001.110H	9MX 564 242-001	61.3860.214H	8SB 354 508-001
81.63730.6347	8SB 354 504-021	88.63730.6054	8SB 501 325-002	15.4002.110H	9MX 564 243-001	61.5750.100H	9HD 564 236-011
81.63730.6350	8SB 354 505-021	88.63731.6090	9BP 501 238-022	15.4002.114H	9MX 564 243-001	61.5751.147H	8SB 507 053-001
81.63730.6351	8SB 354 505-011	88.63731.6100	8HG 503 009-022	15.4620.870H	9MX 564 253-001	61.5751.167H	8SB 507 054-001
81.6373.06353	8SB 354 509-001	88.63731.6100	8HG 503 009-082	15.5750.840H	9MX 564 247-001	61.5752.147H	8SB 507 053-011
81637306377	8SB 002 991-001	88.63731-6101	8HG 503 009-022	15.5770.870H	9MX 564 248-001	61.5752.167H	8SB 507 054-011
81.63730.6395	8SB 354 504-011	88.63731-6127	9HD 563 475-041	20.6802.200	8JB 004 123-001	61.5750.147H	8SB 507 055-001
81.63730.6399	8SB 354 504-021	88.97010.0007	9SK 702 331-071	20.6821.900	8JA 001 918-002	08.3700.326H	9NM 863 849-001
81.63730.6409	8SB 354 505-011	90.80030.1107	8XY 004 734-001	20.6821.900	8JA 001 918-021	09.2000.301	8KA 500 218-002
81.63730.6410	8SB 354 505-021	90.81613.1212	8JB 001 946-021	20.6822.000	8JB 001 941-002	09.2070.101	8KA 003 906-001
81.6373.06415	8SB 354 509-001	90.81613.1212	8JB 001 946-022	39.3120.410	9MX 561 044-002	09.2070.101	8KA 500 218-002
81.63730.6430	8SB 354 504-011	90.81616.1214	6BG 001 945-001	40.1510.122	9EY 117 129-001	09.2070.101	8KA 560 271-002
81.63730.6432	8SB 354 504-021	90.81616.1225	6JF 001 571-001	40.1520.114	9EY 111 231-001		
81.63730.6443	8SB 354 505-011	90.81616.1230	6JF 001 572-001	40.1520.114	9EY 117 127-001		
81.63730.6444	8SB 354 505-021	90.81616.1246	6FG 002 312-001	40.2460.114	9EY 117 124-001		
81.6373.06450	8SB 354 509-001	90.81616.1246	6FG 002 312-002	40.2530.222	9EY 125 314-001		
81.63731.0232	9BP 561 106-012	90.81616.1258	6ED 001 563-021	40.2540.422	9EY 122 979-001		
81.63731.0248	9XD 562 800-052	90.81616.1268	6ED 004 778-021	40.2540.422	9MX 127 586-001		
81.63731-0257	9HD 562 802-012	90.81626.2151	8KV 002 139-001	40.2580.222	9EY 561 445-001		
81.63731.6134	8HG 561 108-002	90.81626.2151	8KV 002 139-003	40.2580.222	9MX 561 449-001		
81.63731.6281	9BP 561 238-002	90.81626.3135	8JA 001 926-001	40.2600.404	9MX 561 890-001		
81.63731.6304	9BP 561 138-052	990.00.58.0218	4DM 003 474-001	40.2660.204	9EY 561 814-001		
81.63731-6414	8HG 503 019-012	990.00.58.0218	4DM 003 474-007	40.2660.404	9MX 561 890-001		
81.63731-6416	8HG 503 019-022	99.11471.0015	6ZF 182 914-031	40.2680.404	9MX 561 890-001		
81.63732.0054	9HB 863 835-001	N1.01102-5665	8EV 003 661-011	40.3410.222	9EY 120 010-001		
81.63732.0055	9HB 863 836-001	N1.01102-7385	8KW 048 056-033	40.3410.222	9MX 561 891-001		
81.63732.0056	9HB 863 840-001	N1.01102-8892	8KX 707 913-011	40.3640.222	9EY 120 010-001		
81.63732.0057	9HB 863 839-001	N1.01102-9125	8KW 701 235-033	40.3640.222	9EY 120 010-001		
81.6373.20058	9HB 863 833-001	N1.01102-9125	8KW 701 235-034	40.3680.222	9MX 560 096-002		
81.63732.0059	9HB 863 835-001	N1.01102-9203	3PA 004 206-011	40.3680.222	9EY 563 168-001		
81.63732.0060	9HB 863 836-001			40.4481.114	9MX 563 167-001		
81.63732.0061	9HB 863 839-001			40.4490.114	9EY 117 125-001		
81.63732.0062	9HB 863 840-001			51.1511.111	9EY 117 126-001		
81.63733.0012	9EY 117 125-001			51.1511.111	8SB 002 997-103		
81.63733.0015	9EY 117 124-001			51.1511.112	8SB 002 997-103		
81.63733.0019	9EY 111 231-001			51.1511.113	8SB 002 997-103		
81.63733.0021	9EY 111 231-001			51.1511.211	8SB 002 997-001		
81.63733.0025	9EY 120 010-001			51.1511.212	8SB 002 997-001		
81.63733.0030	9EY 120 010-001			51.1511.213	8SB 002 997-001		
81.63733.0038	9EY 125 314-001			51.1520.211	8SB 002 994-001		
81.63733.0039	9EY 561 445-001			51.1522.211	8SB 002 994-001		
81.63733.0042	9EY 561 814-001			51.2460.218	8SB 002 990-001		
81.63733.0061	9EY 561 814-001			51.2491.111	8SB 003 609-061		
81.63733.0064	9EY 120 010-001			51.2493.111	8SB 004 288-001		
81.63733.0067	9MX 563 468-002			51.2493.131	8SB 004 288-103		
81.63733.0082	9MX 863 837-001			51.2510.127	8SB 560 991-012		
81.6373.30083	9MX 863 838-001			51.2510.147	8SB 560 991-041		
81.63733.0085	9MX 863 848-001			51.2530.140	8SB 003 978-041		
81.63733.0087	9MX 863 847-001			51.2540.120	8SB 003 614-001		
81.6373.3057	9MX 863 839-011			51.2540.130	8SB 003 614-081		
81.63733.6001	9MX 561 044-002			51.2540.140	8SB 003 614-011		
81.63733.6003	9MX 560 096-002			51.2580.120	8SB 501 081-031		
81.63733.6006	9EY 561 814-001			51.2580.140	8SB 501 081-041		
81.63733.6006	9MX 560 096-002			51.2587.148	8SB 501 081-082		
81.63733.6006	9MX 561 891-001			51.3300.147	8SB 501 190-082		
81.63733.6007	9MX 561 890-001			51.3410.127	8SB 501 156-021		
81.63733.6017	9MX 562 846-002			51.3410.147	8SB 501 156-031		
81.63733.6023	9MX 562 841-002			51.3490.110	8SB 507 042-001		
81.63733-6024	9MX 563 468-002			51.3490.112	8SB 507 042-011		
81.63733.6033	9MX 863 837-001			51.3490.120	8SB 507 043-001		
81.6373.36034	9MX 863 838-001			51.3490.122	8SB 507 043-011		
81.63733.6037	9MX 863 848-001			51.3640.1271	8SB 507 041-011		
81.63733.6042	9MX 863 847-001			51.3680.147	8SB 501 274-001		
81.6373.36049	9MX 564 249-001			51.3680.167	8SB 501 273-001		
81.6373.36062	9MX 863 847-011			51.3735.124	8SB 501 325-012		
81.68733-0040	9MX 561 449-001			51.3735.126	8SB 501 325-002		
81.77630.0093	8TW 004 764-041			51.3736.124	8SB 501 325-012		
81.96420-0495	9GH 562 803-002			51.3736.126	8SB 501 325-002		
82.00003.9858	6FG 002 315-001			51.3921.222H	8SB 354 504-011		
82.00004.0606	6ED 004 778-021			51.3922.222H	8SB 354 504-021		
82.25301.6000	3BA 002 768-382			51.3922.222H	8SB 354 505-021		
82.25310.0001	4AZ 003 787-021			51.4490.218	8SB 002 991-001		
82.25432.0010	8JB 001 935-031			53.1960.161	8SB 507 047-001		
82.25432.0011	8JB 004 123-001			53.1960.162	8SB 507 047-011		
82.25432.0011	8JB 004 123-002			53.1961.161	8SB 507 048-001		
82.25432.0035	8JB 003 834-001			56.2660.127	8SB 501 147-021		
82.25435-0052	8JA 001 931-041			56.2660.147	8SB 501 147-031		
82.25435.0121	8KV 004 871-041			56.3931.222H	8SB 354 505-011		
82.25505.0004	6FG 002 315-001			58.3701.130H	8HG 863 841-001		
82.25902.0042	4AZ 001 879-051			58.3701.140H	8HG 863 842-001		
83.63730-6520	8SB 501 311-842			59.2652.110	8SB 501 137-031		
83.63730-6521	8SB 501 247-822			59.3495.110	8SB 507 042-001		
84.25435.0035	8JA 002 262-001			59.3495.112	8SB 507 042-011		
84.25435.0035	8JA 002 262-002			59.3495.120	8SB 507 043-001		
84.63733.6002	9MX 127 585-002			59.3702.431H	8SB 507 043-011		
85.20001-1974	5WG 002 450-301			59.3712.441H	8SB 354 506-801		
85.20001-1974	5WG 002 450-307			59.3793.127H	8SB 354 506-811		
85.25505-0016	6ZE 001 759-061			59.3941.222H	8SB 507 049-001		
85.25902-0702	5WG 002 450-301			59.3962.210H	8SB 507 052-001		
85.25902-0702	5WG 002 450-307			59.3964.210H	8SB 507 056-001		
88.25432.6027	8JB 007 242-021			59.3965.210H	8SB 507 050-001		
88.25503.0062	6HF 002 372-041			59.5790.110H	8SB 507 060-001		
88.26402.0001	9GD 853 490-001			61.3730.326H	8SB 354 507-001		
88.26485.6005	8TW 004 764-041			61.3752.147	8SB 507 046-001		
88.63700.6008	8SB 501 246-812						



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Cross-Reference

Members	Hella	Mercedes-Benz	Hella	Mercedes-Benz	Hella	Mercedes-Benz	Hella
005836.00	8JB 007 645-031	A 000 069 12 22	8WV 115 095-001	A 000 821 38 25	8JA 002 263-001	A 003 542 10 20	3AL 002 952-867
005836.70	8JB 007 645-031	A 000 471 12 30	8XY 004 734-001	A 000 822 13 21	4AZ 001 879-051	A 003 542 13 20	3AL 002 952-811
005837.00	8JB 007 645-031	A 000 540 16 66	9FF 713 627-031	A 000 840 84 16	8SB 501 081-082	A 003 542 13 20	3AL 002 952-817
005837.70	8JB 007 645-031	A 000 542 11 21	3PA 004 206-031	A 000 860 08 26	8TW 004 764-021	A 003 542 44 20	3AG 003 399-081
005839.00	8JB 007 645-031	A 000 542 71 23	3SB 004 438-155	A 000 860 10 60	8BW 003 966-037	A 003 542 45 20	3AG 003 399-101
005839.70	8JB 007 645-031	A 000 545 06 36	9SL 706 729-011	A 000 860 13 26	8TW 004 223-031	A 003 542 47 20	3AF 003 399-061
005840.00	8JB 007 645-031	A 000 545 06 36	9SL 706 729-011	A 000 860 14 26	8TW 004 764-041	A 003 542 48 20	3AF 003 399-071
005840.70	8JB 007 645-031	A 000 545 07 81	9SG 703 965-007	A 000 860 20 26	8TW 004 223-031	A 003 542 78 20	3AG 003 399-081
005842.00	8JB 007 242-011	A 000 545 25 08	6EK 001 559-001	A 000 860 22 26	8TW 005 206-011	A 003 544 03 32	4DW 004 513-001
005842.70	8JB 007 242-011	A 000 545 25 08	6EK 001 559-007	A 000 860 23 26	8TW 004 764-041	A 003 544 03 32	4DW 004 513-021
005843.00	8JB 007 242-011	A 000 545 29 01	8JD 002 289-001	A 000 860 33 26	8TW 004 223-031	A 003 544 27 32	4DB 003 750-711
005843.70	8JB 007 242-011	A 000 545 36 37	9SK 702 331-071	A 000 860 35 26	8TW 004 223-031	A 003 544 27 32	4DB 003 750-717
005845.00	8JB 007 242-021	A 000 545 37 14	6EJ 001 569-001	A 000 860 47 26	8TW 007 540-037	A 003 545 16 14	6ZF 182 914-031
005845.70	8JB 007 242-021	A 000 545 41 04	6LB 005 389-001	A 000 869 01 98	9GD 853 490-001	A 003 545 58 14	6ZF 182 914-061
005847.00	8HG 007 647-001	A 000 545 49 08	6EK 002 843-001	A 000 869 12 22	8WV 115 095-001	A 004 542 50 20	3SB 002 768-031
005848.00	8JB 007 242-021	A 000 545 49 08	6EK 002 843-003	A 000 869 36 21	8TW 004 223-097	A 003 544 02 24	6HF 002 372-041
005848.70	8JB 007 242-021	A 000 545 49 08	6EK 002 843-007	A 000 869 38 21	8TW 005 496-011	A 004 545 14 28	8JA 001 926-001
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Manufacturer's no. / Hella no.

Cross-Reference



Mercedes-Benz		Hella		Mercedes-Benz		Hella		Mercedes-Benz		Hella		Mercedes-Benz		Hella	
A 500 279 90 01	8KX 043 021-032	210 869 10 21	8TW 006 847-021	000 545 37 14	6EJ 001 569-001	000 811 06 33	9EY 117 129-001	000 811 06 33	9EY 117 129-001	000 811 06 33	9EY 117 129-001	000 811 06 33	9EY 117 129-001	000 811 06 33	9EY 117 129-001
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011 545 26 26	8JB 001 941-001	003 542 07 02	3AL 002 952-811	006 545 06 26	8JB 003 833-001	000 860 08 26	8TW 004 764-021	000 860 08 26	8TW 004 764-021	000 860 10 60	8TW 004 764-021	000 860 10 60	8TW 004 764-021	000 860 10 60	8TW 004 764-021
011 545 26 26	8JB 001 941-002	003 542 07 02	3AL 002 952-811	006 545 33 07	6FG 002 312-001	000 860 10 60	8BW 003 966-037	000 860 10 60	8BW 003 966-037	000 860 13 26	8BW 003 966-037	000 860 13 26	8BW 003 966-037	000 860 13 26	8BW 003 966-037
123 471 02 30	8XY 006 369-001	003 542 07 20	3AL 002 952-811	006 545 33 07	6FG 002 312-002	000 860 14 26	8TW 004 764-041	000 860 14 26	8TW 004 764-041	000 860 14 26	8TW 004 764-041	000 860 14 26	8TW 004 764-041	000 860 14 26	8TW 004 764-0



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Cross-Reference

Merit, Malta	Hella	Mitsubishi	Hella	MTA	Hella	Nagares S/A	Hella
117550	8JA 001 930-003	179437	8SB 501 246-892	04.33600	8JS 713 806-003	TPF/6-12	4RV 008 188-161
117550	8JA 001 930-021	DO-003-009	6BA 001 539-001	04.33700	8JS 713 807-003	TPPF/6-12	4RV 008 188-221
118310	8JB 001 940-001	DO-003-009	6BA 001 539-007	04.33800	8JS 713 808-003	TPPSS/7-12	4RV 008 188-171
118510	8JB 001 941-002	MC 916 062	8HG 003 323-032	04.33850	8JS 713 567-003	TPPSS/7-12	4RV 008 188-191
118550	8JB 001 943-003	MC-937652	8SB 560 991-012	04.70020	8JS 740 026-001	NATO	Hella
131210	8KV 002 139-001	MC-937653	8SB 501 147-003	04.70030	8JS 740 026-011	2540-12-191-8741	8BW 003 443-011
131300	8KV 002 140-001	MC-962657	8SB 501 137-001	04.70040	8JS 740 026-021	2540-12-193-3938	8SB 003 290-001
131350	8KV 002 141-001	Z0430122	8GP 002 066-121	04.70050	8JS 740 026-031	2540-12-303-5055	8SB 002 990-001
13 31 00	8KV 002 127-003	Z0539819	8JB 005 949-011	04.70060	8JS 740 026-041	2590-12-184-6262	3BA 002 768-427
133105	8KV 002 127-021	Z0539819	8JB 005 949-012	04.71030	8JS 740 026-201	2590-12-195-8585	3AF 003 399-071
133600	8KV 004 418-004	Z1263011	8HG 003 323-032	04.71040	8JS 740 026-241	2590-12-195-8586	3AF 003 399-061
133610	8KV 004 418-004	Z1263031	8SB 560 991-012	04.71041	8JS 740 026-241	2590-12-196-0842	3AG 003 399-081
133700	8JS 704 073-003	Z1263034	8SB 560 991-012	04.71050	8JS 740 026-251	2590-12-199-2457	3BA 002 768-382
133701	8JS 025 889-003	Z1263137	8SB 501 137-031	04.71051	8JS 740 026-251	2590-99-802-1954	3AL 002 952-811
133702	8JS 089 015-003	Z1263147	8SB 501 147-003	04.71060	8JS 740 026-211	2590-99-802-1954	3AL 002 952-817
133703	8JS 091 603-003	Z1263299	8SB 002 995-011	04.71080	8JS 740 026-221	4730-12-190-9576	8WW 115 095-001
133750	8JS 711 683-002	Z1263978	8SB 003 978-001	04.71100	8JS 740 026-231	4910-12-165-3780	8SB 002 995-001
133752	8JS 711 684-002	Z1263979	8HS 562 691-002	04.72030	8JS 740 026-311	5330-12-170-9497	9GD 853 490-001
133753	8JS 711 685-002	Z1363032	8SB 003 614-091	04.72031	8JS 740 026-311	5340-12-132-0961	8HS 071 415-001
133754	8JS 711 686-002	Z1363033	8SB 003 614-081	04.72040	8JS 740 026-321	5340-12-132-0962	8HS 071 414-001
133755	8JS 711 687-002	Z1519800	4RA 003 530-001	04.72041	8JS 740 026-321	5355-12-179-4110	9SG 703 965-007
133756	8JS 711 688-002	Z1519800	4RA 003 530-007	04.72050	8JS 740 026-331	5920-12-120-9983	8KV 002 136-011
133757	8JS 711 689-002	Z2219660	6ED 004 778-031	04.72060	8JS 740 026-341	5920-12-123-8984	8JD 002 289-001
133758	8JS 711 690-002	Mitsubishi	Hella	04.72061	8JS 740 026-341	5920-12-127-8579	8JD 002 294-001
133800	8JS 711 683-002	Trucks	Hella	04.72080	8JS 740 026-301	5920-12-127-8579	8JD 002 294-002
133802	8JS 711 684-002	139932	8SB 501 246-812	04.72100	8JS 740 026-361	5920-12-133-8992	8JD 002 290-001
133803	8JS 711 685-002	139968	8SB 501 246-822	04.72101	8JS 740 026-361	5920-12-148-4422	8JD 002 294-011
133804	8JS 711 686-002	146877	8SB 501 247-812	04.73030	8JS 740 026-101	5920-12-164-1832	8KV 002 127-011
133805	8JS 711 687-002	146878	8SB 501 246-803	04.73040	8JS 740 026-111	5920-12-166-8747	8JD 002 291-011
133806	8JS 711 688-002	146884	6GM 500 212-002	06.00090	8JS 728 596-081	5920-12-173-1152	8JD 002 288-001
133807	8JS 711 689-002	179437	8SB 501 246-892	06.00100	8JS 728 596-101	5930-12-121-7993	6EK 001 559-001
133808	8JS 711 690-002	Moto Meter	Hella	06.00101	8JS 728 596-121	5930-12-121-7993	6EK 001 559-001
135000	8JD 002 289-001	119.033.9	8JA 003 526-001	06.00110	8JS 728 596-131	5930-12-128-4819	6DD 001 551-001
135100	8JD 002 294-001	170.800.3	8JA 001 916-001	06.00120	8JS 728 596-111	5930-12-136-2633	6DD 001 551-011
135200	8JD 002 291-001	170.805.1	8JA 002 263-001	06.00130	8JS 728 596-141	5930-12-136-2633	6DD 001 551-017
135300	8JD 002 290-001	170.808.9	8JB 001 943-011	06.00140	8JS 728 596-151	5930-12-142-9247	6EJ 001 569-001
135577	8JD 004 588-001	170.905.5	3PA 004 206-011	06.00150	8JS 728 596-161	5930-12-148-7678	6JF 001 572-001
201700	6JF 001 571-101	170.905.6	3AL 002 952-871	06.00160	8JS 728 596-091	5930-12-150-7491	6JF 001 571-001
202800	6ZF 005 388-001	170.905.6	3AL 002 952-871	06.00170	8JS 728 596-171	5930-12-156-2173	6ED 001 563-021
206020	6ZF 005 388-001	170.905.6	6FG 002 312-001	06.00170	8JS 728 596-171	5930-12-158-8882	6ED 001 564-001
206500	6ZF 005 388-001	172.103.6	8JA 003 526-001	06.00375	8JS 711 683-031	5930-12-164-3327	6JF 001 571-041
206920	6ZF 004 249-011	173.121.5	6JF 001 571-041	06.00408	8JS 711 683-903	5930-12-164-3327	6JF 001 571-047
23 12 00	6ED 001 564-001	176.403.5	3AL 002 952-811	06.00488	8JS 711 683-011	5930-12-166-0796	6JF 001 571-047
290050	6EK 001 559-001	021.654.7	8JS 089 015-003	06.00488	8JS 711 683-021	5930-12-172-4552	6BB 001 540-001
324100	6BG 001 545-001	021.746.4	8BW 003 443-008	06.00490	8JS 711 683-002	5930-12-172-8396	6BA 001 539-001
324500	6FG 002 312-001	025.112.1	8HG 851 387-007	06.00492	8JS 711 683-052	5930-12-172-8396	6BA 001 539-007
328602	6EK 002 843-001	027.120.2	8JB 001 935-031	06.00493	8JS 711 685-002	5930-12-174-9621	6BF 002 372-041
328700	6EK 001 559-001	415.907.5	8KW 043 636-003	06.00494	8JS 711 685-002	5930-12-176-6950	6BF 002 372-041
330200	6JB 003 959-001	415.910.2	8KV 002 127-003	06.00495	8JS 711 686-002	5930-12-178-7321	6ZE 001 759-061
628100	3AL 002 952-861	416.028.3	8JB 001 946-021	06.00496	8JS 711 687-002	5930-12-178-7321	6ED 001 563-001
628102	3AL 002 952-811	503.000.75	8JD 002 294-011	06.00497	8JS 711 688-002	5930-12-178-7321	6ED 001 563-003
628105	3AL 002 952-861	520.200.20	8KX 091 394-001	06.00498	8JS 711 689-002	5930-12-178-7321	6ED 001 563-004
628106	3AL 002 952-811	521.000.23	8KX 091 450-032	06.00498	8JS 711 690-002	5930-12-178-7323	6ZE 001 759-051
628205	3CA 004 811-001	521.000.24	8KX 091 450-032	06.00900	8JS 728 595-131	5930-12-178-7326	6EG 001 567-011
628206	3CA 004 811-011	532.100.19	8JB 001 940-001	06.00910	8JS 728 595-141	5930-12-179-6126	6HF 003 268-001
628405	3CA 004 811-021	077.315.9	8WB 851 385-025	06.00920	8JS 728 595-151	5930-12-181-2642	6HF 001 579-061
628406	3CA 004 811-031	846.752.2	Hella	06.00930	8JS 728 595-161	5930-12-181-2666	6HF 001 579-011
Messmer	Hella	Motorcraft	Hella	06.00940	8JS 728 595-171	5930-12-193-9860	6FG 002 315-001
220 073	6JF 001 571-001	EWB 916	9XW 857 509-801	06.00950	8JS 728 595-181	5930-12-198-2036	9GH 045 833-001
220 075	6JF 001 571-001	EWB 918	9XW 857 510-801	06.00960	8JS 728 595-191	5930-12-199-5291	6EK 002 843-003
220 092	6ED 001 563-021	EWB 919	9XW 857 512-801	06.01100	8JS 742 902-001	5930-12-199-5291	6EK 002 843-007
220 096	6ED 001 563-001	EWB 920	9XW 857 514-801	06.01125	8JS 742 902-011	5930-12-301-8988	6ZF 003 549-001
221 063	6EG 001 567-041	MTA	Hella	06.01150	8JS 742 902-021	5930-12-121-7285	8JB 001 946-001
221 208	6HF 001 579-061	01.00540	8JD 005 993-072	06.01175	8JS 742 902-031	5935-12-121-7290	8JB 001 935-031
221 278	6EH 003 268-001	01.00560	8JD 005 993-092	06.01200	8JS 742 902-041	5935-12-127-9479	8JA 001 915-001
300 010	6ZF 003 549-001	01.00580	8JD 005 993-112	06.01225	8JS 742 902-061	5935-12-130-9273	8JB 001 946-031
411 071	8KV 003 284-001	01.00590	8JD 005 993-122	06.02030	8JS 742 902-051	5935-12-133-3200	8JB 001 946-031
420 131	8JD 002 289-001	01.00600	8JD 005 993-102	06.02040	8JS 742 901-061	5935-12-133-3200	8JA 001 925-001
420 134	8JD 002 294-001	01.00610	8JD 005 993-082	06.02050	8JS 742 901-001	5935-12-145-5102	8JB 001 940-001
420 137	8JD 002 291-001	13.01411	8KW 043 635-013	06.02060	8JS 742 901-011	5935-12-146-6901	8JB 002 281-001
420 193	8JD 002 290-001	13.01500	8KW 044 040-003	06.02070	8JS 742 901-021	5935-12-146-6901	8JB 002 281-002
421 008	8KV 003 285-002	18.51000	8KW 044 036-003	06.02080	8JS 742 901-031	5935-12-158-9646	8JB 001 946-011
421 084	8KV 002 136-001	18.52000	8KW 702 796-003	06.02100	8JS 742 901-041	5935-12-166-7775	8JA 001 926-001
421 085	8KV 002 127-003	18.52500	8KW 700 143-003	06.02125	8JS 742 901-051	5935-12-167-5128	8JA 703 947-011
421 086	8KV 002 127-021	18.55000	8KW 044 288-003	07.01100	8JS 742 901-071	5935-12-176-7091	8JA 002 262-001
421 087	8KV 002 127-011	18.56000	8KW 044 039-003	07.01125	8JS 742 902-001	5935-12-176-7091	8JA 002 262-003
440 033	8KV 002 137-001	18.57050	8KW 044 022-003	07.01150	8JS 742 902-011	5935-12-177-1841	8JA 001 918-002
440 034	8KV 002 139-001	18.61000	8KW 044 039-003	07.01175	8JS 742 902-021	5935-12-177-1841	8JA 001 930-001
440 035	8KV 002 140-001	18.62500	8KW 044 023-003	07.01200	8JS 742 902-031	5935-12-177-1842	8JA 001 930-003
440 037	8KV 002 141-001	18.63000	8KW 044 032-003	07.01225	8JS 742 902-041	5935-12-177-1842	8JA 001 930-021
490 053	8KX 091 450-032	18.63100	8KW 700 143-003	07.01250	8JS 742 902-061	5935-12-177-1843	8JB 001 941-001
490 054	8KX 091 451-032	18.64000	8KW 044 288-003	07.02030	8JS 742 902-051		

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Cross-Reference



Romax	Hella	SAW	Hella	Scania	Hella	Schmitz Cargobull	Hella
102103	8KL 712 949-001	94.069-001	9EY 117 126-001	20 223 902	9MJ 007 825-021	1080	9XT 713 630-301
102104	8KL 712 947-001	94.071-241	9MX 561 044-002	20 223 903	9MJ 007 825-031	1083	8KV 705 123-002
102105	8KL 712 950-001	94.100-001	9EY 120 010-001	20 223 904	9MJ 007 825-041	1083	8KV 705 123-004
102107	8KL 712 943-001	94.102-001	9EY 122 979-001	20 223 905	8KL 712 948-001	1084335	9GD 735 641-001
102108	8KL 712 946-001	94.103-001	9EY 125 314-001	20 223 905	8KL 712 948-002	1085	8KW 044 275-003
102200	8KL 712 944-002	94.103-241	9MX 127 585-002	20 223 921	8KL 712 949-001	1088319	8JD 733 767-001
102201	8KL 712 945-002	Scania	Hella	20 223 921	8KL 712 949-002	1097	6FH 004 406-052
102202	8KL 712 948-002	111 2435	4DM 003 474-001	20 223 931	8JD 008 151-061	1099	5WA 001 871-041
102203	8KL 712 949-002	111 2435	4DM 003 474-007	20 223 932	8KL 712 947-001	1109	8KX 716 405-011
102204	8KL 712 947-002	1 303 471	6ZF 182 914-051	20 223 932	8KL 712 947-002	1112624	4RD 933 332-061
102205	8KL 712 950-002	1 303 472	6ZF 182 914-031	20 223 939	8KW 732 579-003	1112624	4RD 933 332-067
102207	8KL 712 943-002	134 2334	8JA 003 832-001	20 223 940	8KW 732 580-003	1112904	8KW 732 581-003
102208	8KL 712 946-002	1346377	9MX 564 242-001	20 223 941	8KW 732 581-003	1113	8KX 716 405-001
104102	8KL 712 962-001	1 346 378	9MX 564 243-001	20 223 947	8KL 712 964-001	11131	8KX 707 913-011
104107	8KL 712 960-001	1 346 379	9MX 564 243-001	20 223 948	8KW 044 036-004	11132	8KV 004 871-041
104202	8KL 712 962-002	1 434 030	9MX 564 243-001	20 223 948	8KW 044 022-003	1117696	8KV 004 871-041
104207	8KL 712 960-002	1 442 705	9MX 564 243-001	20 223 949	8KW 044 022-004	1122	8JD 002 291-011
105102	8KL 712 965-001	1442706	9MX 564 242-001	20 223 957	8JA 005 952-011	1123	4RD 933 332-071
105107	8KL 712 964-001	1 443 864	9MX 564 243-001	20 223 957	8JA 005 952-013	1123	4RD 933 332-077
106102	8KL 712 968-001	1 468 418	8SB 501 247-803	20 223 965	8KW 044 288-003	1133932	5DS 009 552-001
106107	8KL 712 967-001	1 505 202	9HB 863 833-001	20 223 965	8KW 044 288-004	1150	8JA 001 925-001
107107	8KL 712 969-001	179 529	8JB 003 833-001	20 223 983	8KL 713 752-001	1197	8PD 003 798-001
108107	8KL 712 970-001	179 530	8JA 003 831-001	20 223 983	8JA 001 931-051	1198	8KP 007 917-031
109107	8KL 712 971-001	1 795 329	8JB 003 833-011	20 223 984	8JA 001 931-051	1203	8GP 002 066-241
110107	8KL 712 972-001	1 923 989	5WG 002 450-301	20 223 994	8TW 007 540-231	121189	8GP 002 066-241
200107	8KL 712 975-001	1 923 989	5WG 002 450-307	20 227 597	8KL 712 944-001	121189	8GP 002 066-241
0200134	8JS 704 073-003	199 408	8JB 001 941-001	20 227 597	8KL 712 944-002	121210.5	8KW 054 944-003
0200145	8JS 025 889-003	199 408	8JB 001 941-002	225 730	8JB 001 935-031	1523	8KW 054 944-003
0200146	8JS 089 015-003	20 044 865	8JB 003 834-001	225 731	8JA 001 931-041	1524	8KL 054 006-002
0200147	8JS 091 603-003	20 223 029	4DM 003 474-007	231 631	8JB 001 935-031	1524	8KL 712 950-001
200207	8KL 712 975-002	20 223 029	4DM 003 474-007	233 200	4AZ 001 879-051	1525	8KL 712 950-002
201107	8KL 712 977-001	20 223 040	8JS 747 876-041	243 460	4RD 933 332-071	1526	9XT 713 630-011
202107	8KL 712 976-001	20 223 041	8KA 004 797-041	243 460	4RD 933 332-077	1527	8KL 054 004-002
203107	8KL 712 978-001	20 223 196	4DJ 003 767-001	320 738	3SB 003 985-061	1529	8KL 054 003-002
400107	8KL 712 991-001	20 223 578	8JA 001 918-002	320 738	3SB 003 985-067	1530	8KL 054 002-002
401107	8KL 712 992-001	20 223 578	8JA 001 918-021	3 437 95	6ZF 182 914-051	1531	8KL 054 001-002
403107	8KL 712 993-001	20 223 580	8KW 044 031-003	363 712	5WG 002 450-301	1532	8KL 054 007-002
404107	8KL 712 995-001	20 223 581	8KW 708 374-003	363 712	5WG 002 450-307	1535	8KL 712 949-001
405107	8KL 715 434-001	20 223 581	8KW 708 374-004	3 370 710	6ZF 182 914-051	1535	8KL 712 949-002
406107	8KL 712 997-001	20 223 586	3PB 005 411-001	3 757 34	6ZF 182 914-031	1536	8KL 712 948-001
407107	8KL 713 735-001	20 223 588	5DS 008 125-001	383 055	8JA 003 526-001	1536	8KL 712 948-002
0433400	8JS 713 564-002	20 223 589	8ES 008 124-001	383 055	8JA 003 526-002	1537	8KL 712 947-001
0433500	8JS 713 805-003	20 223 591	8JA 003 832-001	403 588	8WV 115 095-001	1537	8KL 712 947-002
0433600	8JS 713 806-003	20 223 607	8KL 712 960-001	410 861	8TW 004 764-041	1539	8KL 712 945-001
0433700	8JS 713 807-003	20 223 607	8KL 712 960-002	410 862	9GD 853 490-001	1539	8KL 712 945-002
0433800	8JS 713 808-003	20 223 608	8KL 712 962-001	414 137	8JA 001 931-041	1540	8KL 712 945-001
500227	8KL 712 980-002	20 223 608	8KL 712 962-002	424 740	5WA 001 871-051	1540	8KL 712 944-001
600307	8KL 713 737-001	20 223 609	8KL 712 965-001	482 034	9BP 501 237-002	1541	8KL 712 944-002
0600400	8JS 711 683-002	20 223 614	8KW 744 730-003	487 668	8SB 560 991-012	1545	8KL 717 462-001
0600408	8JS 711 683-903	20 223 790	8JB 004 123-001	488 1428	8EV 003 361-011	1545	8KL 717 461-001
0600410	8JS 711 684-002	20 223 790	8JB 004 123-002	589 680	3AL 002 952-811	1576	8KL 717 461-002
0600420	8JS 711 685-002	20 223 795	8KL 712 970-001	589 680	3AL 002 952-817	1587	8KL 712 978-001
0600430	8JS 711 686-002	20 223 796	8KL 712 970-001	619 690	6BA 001 539-001	1594	8KL 712 943-001
0600440	8JS 711 687-002	20 223 796	8KL 712 975-001	619 690	6BA 001 539-007	1594	8KL 712 943-002
0600450	8JS 711 688-002	20 223 806	8KL 712 975-002	670 293	8JB 001 935-031	1595	9XT 713 630-421
0600460	8JS 711 689-002	20 223 807	8JD 008 151-011	677 795	8JA 001 926-001	1596	9XT 713 630-701
0600470	8KL 712 981-001	20 223 808	8JD 008 151-011	Schmitz Cargobull	Hella	1728	8KL 717 460-001
601107	8KL 713 740-001	20 223 816	8JA 003 831-001	1005773	8KW 732 579-003	1870	6ZF 003 549-001
603107	8KL 713 742-001	20 223 817	8JB 003 833-001	1005774	8KW 732 580-003	199440	6ZE 001 759-071
604107	8KL 713 744-001	20 223 818	8JB 003 834-001	1014	8KL 712 977-001	199442	8ED 004 778-021
605107	8KL 715 436-001	20 223 819	8KL 712 980-001	1014	8KL 712 977-002	1-FZELEK0015	8KL 712 943-001
606107	8KL 715 437-001	20 223 819	8KL 712 980-002	1016	8KL 712 975-001	1-FZELEK0015	8KL 712 943-002
700107	8KL 713 753-001	20 223 820	8KL 712 946-001	1016	8KL 712 975-001	1-FZELEK0016	8KL 712 948-001
701707	8KL 713 750-001	20 223 820	8KL 712 946-002	1016	8KL 712 975-002	1-FZELEK0016	8KL 712 948-002
708107	8KL 713 751-001	20 223 821	8KL 715 434-001	1023102	8JA 003 831-011	1-FZELEK0017	8KL 712 992-001
709107	8KL 713 752-001	2 022 382 2	8JA 003 832-011	1023537	8JB 003 833-031	1-FZELEK0018	8KL 712 993-001
800107	8KL 712 986-001	20 223 823	8JD 008 152-011	1026114	5HE 996 152-141	1-FZELEK0021	8KL 712 997-001
801107	8KL 712 987-001	20 223 843	8KL 712 943-001	1031	8GP 002 068-121	1-FZELEK0028	8JA 003 831-001
802107	8KL 712 988-001	20 223 843	8KL 712 943-002	1032	8JD 002 294-001	1-FZELEK0029	8JA 003 832-001
803107	8KL 712 989-001	20 223 844	8KL 712 993-001	1032	8JD 002 294-002	1-FZELEK0034	8JB 003 833-011
804107	8KL 712 990-001	2 022 384 5	8KL 712 977-001	1033	8JD 002 294-001	1-FZELEK0042	8KW 043 636-003
Rover	Hella	2 022 384 5	8KL 712 977-002	1034	8KW 701 235-033	1-FZELEK0043	8KW 700 144-003
NCJ100110	4RV 008 188-321	20 223 846	8KL 712 978-001	1034	8KW 701 235-034	1-FZELEK0045	8KW 044 028-004
PRC5020	4RV 008 188-091	20 223 847	8KW 043 630-013	1035	8KW 044 030-003	1-FZELEK0046	8KW 044 277-003
Saab	Hella	20 223 847	8KW 043 630-014	1035	8KW 044 030-004	1-FZELEK0047	8KW 044 027-003
13250288	9GD 853 490-001	20 223 848	8KW 701 235-033	1036	8JS 089 015-003	1-FZELEK0047	8KW 044 027-004
14 01 789	4DN 007 431-021	20 223 848	8KL 712 992-001	1037	8JS 091 603-003	1-FZELEK0056	8KW 044 022-003
20 738	3SB 003 985-061	20 223 855	8JA 002 262-001	1039	3AF 003 399-061	1-FZELEK0056	8KW 044 022-004
20 738	3SB 003 985-067	20 223 866	8JA 002 262-003	1039	3AG 003 399-081	1-FZELEK0064	8KW 044 033-002
04 10 861	8TW 004 764-041	20 223 867	8KL 712 997-001	1041	8GP 002 068-241	1-FZELEK0064	8KW 044 033-004
41 11 522	4DB 006 716-041	20 223 868	8JD 008 151-021	1048	8KW 044 041-003	1-FZELEK0066	8KW 044 025-003
06 77 795	8JA 001 926-001	20 223 869	8JD 008 151-041	1049	8KW 044 028-003	1-FZELEK0066	8KW 044 026-003
85 93 477	8TW 004 223-031	20 223 870	8JD 008 152-041	1052	8KW 044 028-004	1-FZELEK0133	8GP 002 068-241
95 06 379	8TW 004 223-031	20 223 871	8KL 712 948-001	1053	8KW 044 031-003	1-FZELEK0146	8SB 003 609-061
SAW	Hella	20 223 872	8KL 712 948-002	1053	8KW 044 033-002	1-FZELEK0173	8KL 712 949-001
61.096-001	8SB 003 609-061	20 223 874	8KL 742 810-001	1054	8KW 044 033-004	1-FZELEK0173	8KL 712 949-002
61.097-001	8SB 002 995-001	20 223 875	8JA 001 931-041	1054	8KW 044 022-003	1-FZELEK0186	8KW



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Cross-Reference

Schmitz Cargobull	Hella	Schmitz Cargobull	Hella	Schmitz Cargobull	Hella	Sisu	Hella
1-FZELEK0223	8KW 045 145-004	061147	8KW 044 031-003	980918	8KV 002 140-001	186-209-0891	6RH 007 832-461
1-FZELEK0224	8KW 044 280-003	061147	8KW 044 032-003	980922	8KV 002 139-001	186-209-0891	6RH 007 832-467
1-FZELEK0224	8KW 044 280-004	061147	8KW 044 032-004	980922	8KV 002 139-003	186-209-0901	6GM 007 832-251
1-FZELEK0227	8KW 705 393-003	061155	8KW 044 280-003	980923	9XW 857 510-801	186-209-0911	6EH 007 832-041
1-FZELEK0336	8KW 044 036-003	061155	8KW 044 280-004	980924	8KW 044 275-003	186-209-0921	6HH 007 832-301
1-FZELEK0336	8KW 044 036-004	061156	8KW 044 033-002	980924	8SB 560 991-012	186-209-0931	6HH 007 832-307
1-INBEMA0001	8HL 707 877-012	061156	8KW 044 033-004	980925	8JS 711 684-002	186-209-0931	6FH 007 832-101
1-INBEMA0002	8HL 707 877-022	061157	8KW 044 034-003	980925	8JS 711 685-002	186-209-0961	6FH 007 832-107
1-INBEMA0003	8HL 707 877-051	061161	8KW 044 032-003	980925	8JS 711 686-002	186-209-0971	6FH 007 832-151
1-INBEMA0005	8HL 717 962-021	061161	8KW 044 032-004	980925	8JS 711 686-007	186-209-0993	6ED 004 778-021
2011	8GP 002 066-121	061165	8KW 048 056-033	980925	8JS 711 687-002	186-320-0041	6LB 005 389-001
2285	8KL 712 980-001	061166	8KW 044 288-003	980925	8JS 711 687-007	186-350-0122	4DW 002 834-101
2285	8KL 712 980-002	061166	8KW 044 288-004	980925	8KV 002 127-003	186-370-0015	4RA 965 400-031
2294	9XT 713 630-491	061170	8KV 705 123-002	980925	8KV 002 127-007	186-490-0221	6ZF 003 549-001
2322	8KL 712 975-001	061170	8KV 705 123-004	980925	8KV 705 123-002	186-510-0011	8JA 001 918-002
2322	8KL 712 975-002	061171	8KV 002 133-001	980925	8KV 705 123-004	186-510-0011	8JA 001 918-021
2407	8JA 003 526-001	061269	8JD 005 993-032	980925	8KW 044 276-003	186-510-0122	8JA 003 831-001
2407	8JA 003 526-002	061323	8GP 002 068-241	980925	8KW 044 276-004	186-510-0571	8JA 003 832-001
2533	8JD 005 993-001	061325	8GP 002 066-121	980925	8KW 044 288-003	186-510-0681	8JA 007 241-031
2533	8JD 005 993-002	061326	8GP 002 068-121	980925	8KW 044 288-004	186-520-0013	8JB 004 777-001
2929	8JA 003 831-001	061329	8GP 002 095-121	980949	8SB 501 147-021	186-520-0021	8JB 001 941-001
2938	8JA 003 832-001	061330	8GP 002 095-241	980960	8JB 001 939-001	186-520-0021	8JB 001 941-002
003721	8KX 707 917-031	613429	8JA 001 931-041	980964	8KW 044 030-003	186-520-0092	8JB 003 833-001
3901	8KW 708 373-003	061359	8GP 002 066-241	980964	8KW 044 038-003	186-520-0181	8JB 001 935-031
3901	8KW 708 373-004	061360	8GP 002 068-241	980964	8JA 001 915-001	186-520-0361	8JB 003 834-001
4721	6FH 007 832-151	061400	8JS 711 683-002	980967	8JA 001 915-001	186-530-0122	8DW 002 834-101
528651	8JB 003 833-001	061405	8JS 711 688-002	EL0005-0044	8JS 711 683-821	186-540-0011	8KV 002 132-001
528652	8JB 003 834-001	061406	8JS 711 689-002	EL0005-0045	8JS 711 687-821	186-540-0071	8KV 003 284-001
5370	8GP 002 095-121	061407	8JS 711 690-002	EL0013-0005	8GP 002 068-241	186-581-0320	9GD 735 641-001
5658	8KV 002 136-001	061407	8JS 711 690-007	S060145	8JB 003 834-001	186-601-0011	8JD 002 291-011
060036	8KW 700 142-003	061638	6EK 002 843-001	Seat	Hella	186-601-0141	8JD 005 235-002
060078	8JS 711 685-002	061638	6EK 002 843-003	1J0 955 681	8TW 006 849-011	186-685-0100	8JA 007 024-001
060079	8JS 711 686-002	061638	6EK 002 843-007	1J5 955 651	8TW 006 848-021	186-911-5410	8JA 003 526-001
060079	8JS 711 686-007	061734	8KV 003 285-002	1J6 955 651	8TW 006 847-021	186-911-5410	8JA 003 526-002
060101	8JA 002 262-001	61901	8HK 710 701-151	3B7 955 651	8TW 006 849-021	187-170-0251	9FF 713 627-011
060101	8JA 002 262-003	61903	8HK 710 701-161	431 955 651	8TW 006 849-031	187-170-0261	9FF 713 627-031
060103	8JA 002 263-001	61903	8HK 713 820-051	Secorüt	8TW 004 223-031	187-602-0081	3BA 002 768-437
060105	8JA 001 916-001	61912	8HK 713 820-071	S-013/D	Hella	187-602-0082	3BA 002 768-427
060108	8JA 003 831-001	062169	8JD 005 993-032	S-013/DN	8JB 005 949-001	187-602-0083	3BA 002 768-431
060110	8JA 001 918-002	062272	8JB 001 935-031	S-013/S	8JB 005 949-011	187-602-0083	3BA 002 768-437
060110	8JA 001 918-021	062465	8HL 707 879-012	S-044/13	8JA 005 951-001	187-603-0162	3SB 003 985-061
060117	8JA 001 918-002	062578	8JB 001 943-041	S-044/13L	8JA 005 952-011	187-603-0162	3SB 003 985-067
060117	8JA 001 918-021	062672	8GP 002 066-241	Shelton	8JA 005 952-001	187-603-0231	3SB 002 768-031
060117	8JA 003 832-001	062864	4RD 933 332-071	EHS 131 N	Hella	187-801-2311	2AA 713 628-011
060123	8JB 001 946-031	062864	4RD 933 332-077	EHS 132 AMBER	6EH 004 407-002	187-801-2321	2AA 713 628-031
060131	8JB 004 123-001	063064	8JS 711 683-002	EHS 132 BLUE	6EH 004 407-022	187-861-6310	9XT 713 630-461
060131	8JB 004 123-002	063065	8JS 711 684-002	EHS 132 GREEN	6EH 004 407-042	090-570-1240	9GD 853 490-001
060132	8JB 001 946-021	063102	8JB 001 933-031	EHS 132 RED	6EH 004 407-032	095-245-1200	8WW 115 095-001
060132	8JB 001 946-022	063142	8KB 004 418-004	EHS 86 N	6EH 004 407-012	J186-230-0041	6LB 005 389-001
060133	8JB 001 933-031	063488	4RD 933 332-091	EHS 88 N	6FH 004 406-052	Skoda	Hella
060135	8JB 001 940-001	063488	4RD 933 332-097	EHS 89 AMBER	6EH 004 406-002	113 955 975 B	8WW 115 095-001
060138	8JB 003 833-001	063639	8JS 711 685-002	EHS 89 BLUE	6EH 004 406-022	115 930 631	8JA 003 526-001
060140	8JB 001 941-001	064342	8KW 054 943-003	EHS 89 GREEN	6EH 004 406-042	115 930 631	8JA 003 526-002
060140	8JB 001 941-002	064710	8JA 008 084-001	EHS 89 RED	6EH 004 406-032	115 930 635	8KV 705 123-002
060141	8JB 003 833-011	064711	8JA 008 084-011	Sispa	6EH 004 406-012	1J0 941 295 B	8KV 705 123-004
060145	8JB 003 834-001	066014	8KX 707 917-021	6022	Hella	1J0 941 295 C	6NM 007 878-041
060172	8JB 002 286-031	066102	8JD 002 289-001	6036	8XY 004 721-001	1J5 955 651	6NM 007 878-041
060215	8KV 002 132-001	066104	8JD 002 294-001	6051	8XY 004 721-001	1J6 955 651	6NM 007 878-041
060280	8JS 711 684-002	066104	8JD 002 294-002	6061	8XY 004 715-001	170 955 651	8TW 006 849-011
060281	8JS 711 685-002	066110	8KV 002 127-003	6092	8XY 004 715-001	380 941 295 B	8TW 006 848-021
060282	8JS 711 686-002	066110	8KV 002 127-007	6096	8XY 004 729-001	380 941 295 B	8TW 006 848-021
060282	8JS 711 686-007	066115	8JS 704 073-003	6096	8XY 004 729-001	480 941 295	6NM 007 878-531
060283	8JS 711 687-002	066118	8JS 025 889-003	6097	8XY 004 723-001	480 941 295 A	6NM 007 878-531
060283	8JS 711 687-007	066121	8JS 091 015-003	6100	8XY 004 716-001	SMAT Nord	Hella
060284	8JS 711 689-002	066503	8JS 091 603-003	6101	8XY 004 716-001	5.594.025	8SB 002 993-001
060456	8KX 043 021-031	066504	6ED 001 563-021	6102	8XY 004 725-001	Steinbock	Hella
060456	8KX 043 021-032	066504	6FG 002 312-001	6102	8XY 005 067-001	000 12462	9XS 091 200-007
060457	8KX 091 451-031	066534	6FG 002 312-002	6104	8XY 004 720-001	146 07	9SL 740 558-007
060457	8KX 091 451-032	066534	4RD 933 332-061	6123	8XY 004 725-001	014 809	4AZ 003 787-011
060852	6ED 004 778-021	066572	4RD 933 332-067	6149	8XY 004 718-001	016 039	8KW 044 040-004
060893	8EF 003 916-061	066583	6ZF 003 549-001	6199	8XY 008 240-001	016 040	8KW 044 026-003
610408914	8EV 003 361-011	066807	6JF 001 572-001	6211	8XY 007 747-001	001 661	8JS 091 603-003
61092	8KW 044 280-003	7019	3BA 002 768-382	6217	8XY 007 746-001	016 929	8JS 089 015-003
61099	8KW 044 280-004	7189	8KW 054 944-003	6227	8XY 008 238-011	018 843	3BA 002 768-771
061131	8JS 089 015-003	7222	8JA 003 831-001	6235	8XY 008 530-001	000 23044	8SB 002 997-001
061131	8KW 044 022-003	7223	8KL 712 986-001	Sisu	Hella	000 25788	6EG 001 567-011
061133	8KW 044 022-004	76097	8KL 712 987-001	112-210-0081	8TW 004 764-041	000 27443	8JB 001 946-001
061133	8KW 044 023-003	0077474	8TM 003 792-001	112-210-0091	8TW 005 496-051	028 862	8KV 705 123-002
061137	8KW 701 235-033	0077474	8JA 005 951-001	112-219-0110	9XD 856 165-005	028 862	8KV 705 123-004
061137	8KW 701 235-034	080140	8JA 005 951-003	112-270-0121	8BW 007 757-027	032 798	8KW 715 923-003
061138	8KW 705 392-003	080140	8JB 001 941-001	112-270-0131	8BW 003 966-037	049 74019	8ES 006 658-001
061139	8KW 708 374-003	8147	8EH 007 832-601	112-270-0141	8BW 007 757-007	50030507	8JB 004 777-001
061139	8KW 708 374-004	817426	8HS 071 415-001	112-440-0171	8SB 003 290-011	500 43924	6JB 003 959-031
061140	8KW 043 630-013	881776	8KW 054 944-003	112-441-1310	9MX 127 585-002	050 09366	8XY 007 022-001
061140	8KW 043 630-014	88401	6GM 007 832-271	112-441-1400	9MX 561 890-001	050 09366	3AL 002 952-871
061141	8KW 044 028-003	912598	8PE 002 007-001	112-909-0111	8EZ 008 021-011	050 09366	3AL 002 952-877
061141	8KW 044 028-004	912599	8PE 002 006-001	181-030-1231	6GM 007 832-231	050 16159	6FH 001 579-061
061142	8KW 044 027-003	9168	8JA 007 024-001	186-103-0022	6JB 003 959-001	050 40306	8EV 003 361-011
061142	8KW 044 027-004	976054	8KV 002 137-001	186-110-0031	6EK 001 559-001	050 49404	8GP 002 068-121
061145	8KW 044 029-003	980479	8PE 002 007-011	186-110-0031	6EK 001 559-007	050 49405	6FH 002 372-041
061146	8KW 044 030-003	980480	3BA 002 768-082	186-150-0111	6ZB 006 377-017	SMAT Nord	Hella
061146	8KW 044 030-004	980501	8HK 713 394-001	186-208-0161	6EJ 001 569-001	5.594.025	8SB 002 993-001
061146 M6	8KW 044 030-003	980501	8KX 091 450-031	186-209-0881	6EJ 001 569-001	000 12462	9XS 091 200-007
061146 M6							

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Cross-Reference



Steinbock	Hella	Still	Hella	Still	Hella	SWF	Hella
050 49407	9SK 702 331-071	012729	8KX 043 021-032	527976	8TW 005 496-051	116 311	9XW 859 866-801
510 76136	8JB 008 023-001	013170	8GP 002 068-241	527977	8BW 857 850-005	116 311	9XW 862 064-801
510 84965	4RA 007 813-011	013175	8GP 002 095-241	527979	8TW 005 496-051	116 313	9XW 860 646-801
510 84965	4RA 007 813-017	141960	8KW 044 033-002	529127	8JB 005 949-001	116 314	9XW 859 865-801
510 84979	4RD 007 814-011	141960	8KW 044 033-004	532026	3AL 002 952-917	116 314	9XW 861 942-801
510 84979	4RD 007 814-017	014375	8JA 003 526-001	5721340	8JA 001 918-021	116 317	9XW 859 308-801
511 13392	4DM 009 492-001	014375	8JA 003 526-002	005983	8JD 002 291-011	116 320	9XW 860 660-801
511 39816	4RD 007 903-021	014376	8KW 701 235-033	665728	8KV 002 132-001	117 215	9XW 860 648-801
511 39816	4RD 007 903-027	014376	8KW 701 235-034	721565	8TW 004 223-031	117 216	9XW 857 505-801
520 11042	6JK 007 232-001	144286	8KW 009 254-801	7915001033	8JB 003 833-011	117 281	9XW 857 509-801
520 11163	3AL 002 952-861	014879	6EJ 001 569-001	7915490531	6RH 004 570-411	117 306	9XW 861 931-801
520 11163	3AL 002 952-867	158039	8JA 001 921-102	7915490531	6RH 004 570-417	117 308	9XW 862 067-801
520 27388	4RA 007 903-021	0159652	9XT 713 630-711	7916291272	4RA 965 400-001	117 309	9XW 861 934-801
520 27388	4RA 007 993-037	0160334	8BW 003 443-057	7916291273	4RA 965 400-031	117 319	9XW 861 933-801
520 28189	8XY 004 717-001	161421	3BA 002 768-201	7918915217	3SB 004 438-177	117 324	9XW 860 658-801
520 32244	8EV 003 361-001	0164592	4DN 008 768-041	7919025067	9FF 713 627-011	117 325	9XW 860 645-801
632 418	6EK 002 843-001	016829	8JS 025 889-003	7919025069	9FF 713 627-001	117 331	9XW 862 065-801
632 418	6EK 002 843-003	016830	8JS 089 015-003	7919086803	8JS 711 684-002	119300	9XW 863 882-801
632 418	6EK 002 843-007	016831	8JS 091 603-003	8010515	3BA 002 768-001	119744	9XW 168 960-801
745 204010032	8SB 002 405-001	016832	8JS 713 144-003	8013175	8GP 002 095-241	119760	9XW 864 082-801
812 895	8PE 002 006-001	018062	8KW 043 636-003	8014375	8JA 003 526-001	119761	9XW 864 083-801
852 60155	6ED 001 563-021	018063	8KW 700 144-003	8014375	8JA 003 526-002	119780	9XW 864 084-801
867 65874	8JD 002 991-001	020542	3BA 002 768-771	8016829	8JS 025 889-003	119783	9XW 168 957-001
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Cross-Reference

Volvo	Hella	Volvo	Hella	Wehrle	Hella	Wuerth	Hella
30005080042	8JA 003 526-002	7 031 573 1	8SB 501 246-892	20 401 001	4RD 007 903-001	0539 516 25	8HK 713 820-021
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5 185 011	8SB 002 991-001					555 315 6	8JB 001 944-011
5 230 505	8KX 091 394-001					0555 4	8KJ 002 133-001
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5 230 616	8GP 002 095-241					0555 400 1	8JD 743 557-041
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5 239 613	4DM 003 474-007					0555 401 1	8JD 743 708-001
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6 793 880	8SB 003 978-041					0555 908 2	8KW 732 571-003
7 030 510 8	8SB 501 311-842					0555 909 2	8KW 732 573-003
7 031 137 8	8SB 501 247-812					0555 910 2	8KW 732 575-003

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Cross-Reference



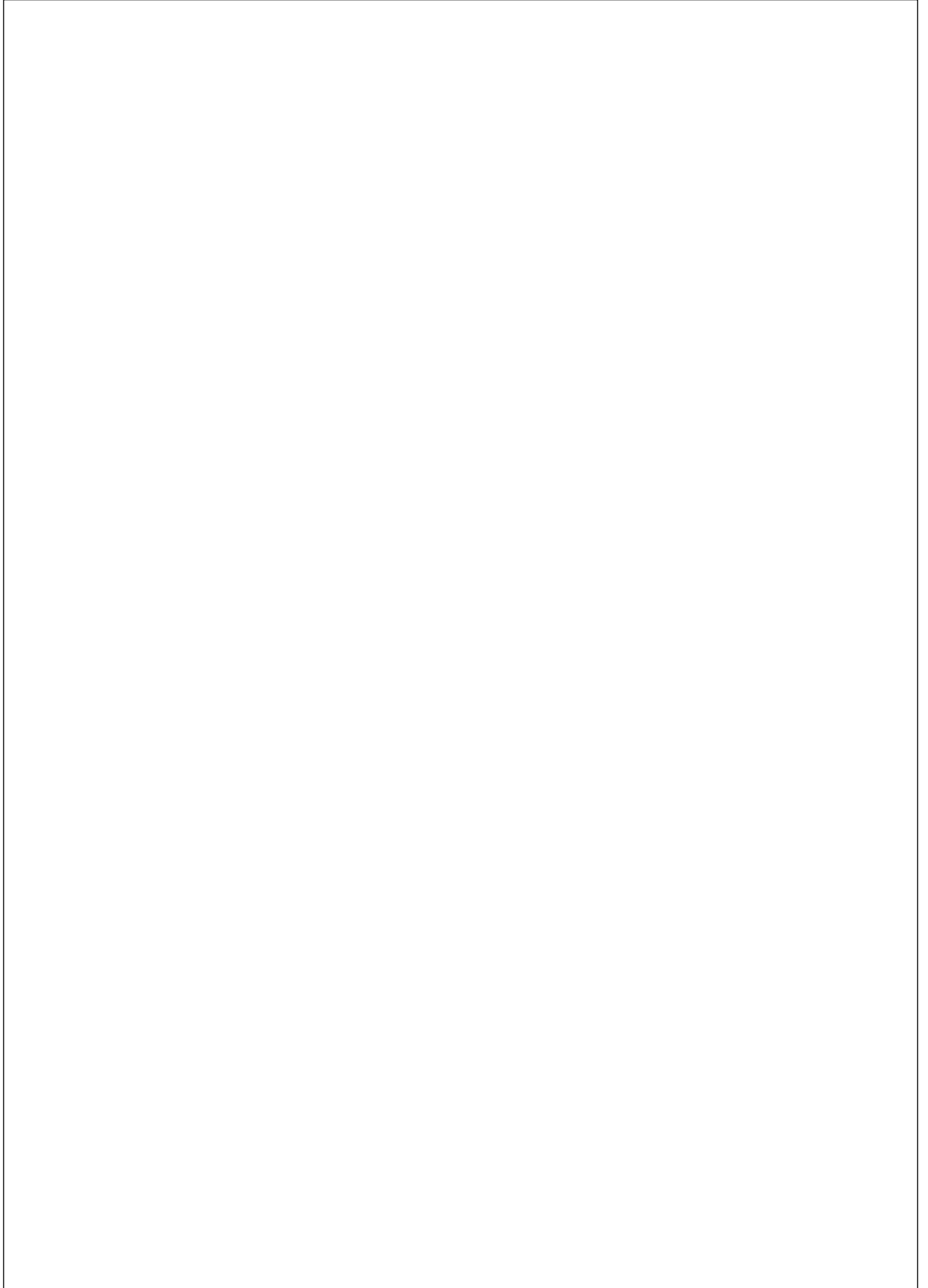
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058 501 9	8KW 744 823-003	0558 994 1	8KW 744 821-003	731 301 40	8JS 728 595-151	0967 401 053	8KW 744 777-003
058 504 0	8KW 043 629-013	0558 996 0	8KW 744 832-003	731 301 50	8JS 728 595-081	0967 401 054	8KW 744 778-003
058 514 3	8KW 701 671-003	0558 996 61	8KW 054 950-003	731 301 50	8JS 728 595-161	0967 401 055	8KW 744 779-003
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Manufacturer's no. / Hella no.

Cross-Reference

Wuerth	Hella		
0985 109 1	9MJ 707 873-013		
0991606315090	8GP 002 068-241		
0991622999090	8KW 044 034-003		
0991623006090	8KW 043 629-013		
0991623009090	8KW 043 636-003		
0991623020090	8KW 044 277-003		
0991623024090	8KW 043 630-013		
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X00391	4RD 933 332-071		
X00455	4DM 003 360-021		
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X00458	4RD 965 400-027		
X00549	4DN 008 768-001		
X00780	5WD 005 674-141		
X01184	6EK 001 559-001		
X01184	6EK 001 559-007		
X01225	4RA 933 332-101		
X01225	4RA 933 332-107		
X01521	4RD 007 794-077		
X01522	4RD 007 814-011		
X01522	4RD 007 814-017		
X01547	6LB 005 389-001		
X01602	4RA 007 793-031		
X01602	4RA 007 793-037		
X01647	4DB 003 750-711		
X01647	4DB 003 750-717		
X01656	4DN 008 768-021		
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X01769	5WG 002 450-311		
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X02013	4DM 003 360-021		
X02013	4DM 003 360-027		
X02020	4RA 933 791-061		
X02021	4RA 007 957-001		
X02030	4RA 007 791-011		
X02132	4AZ 003 787-021		
X02255	4DW 004 513-001		
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X02654	4AZ 001 879-041		





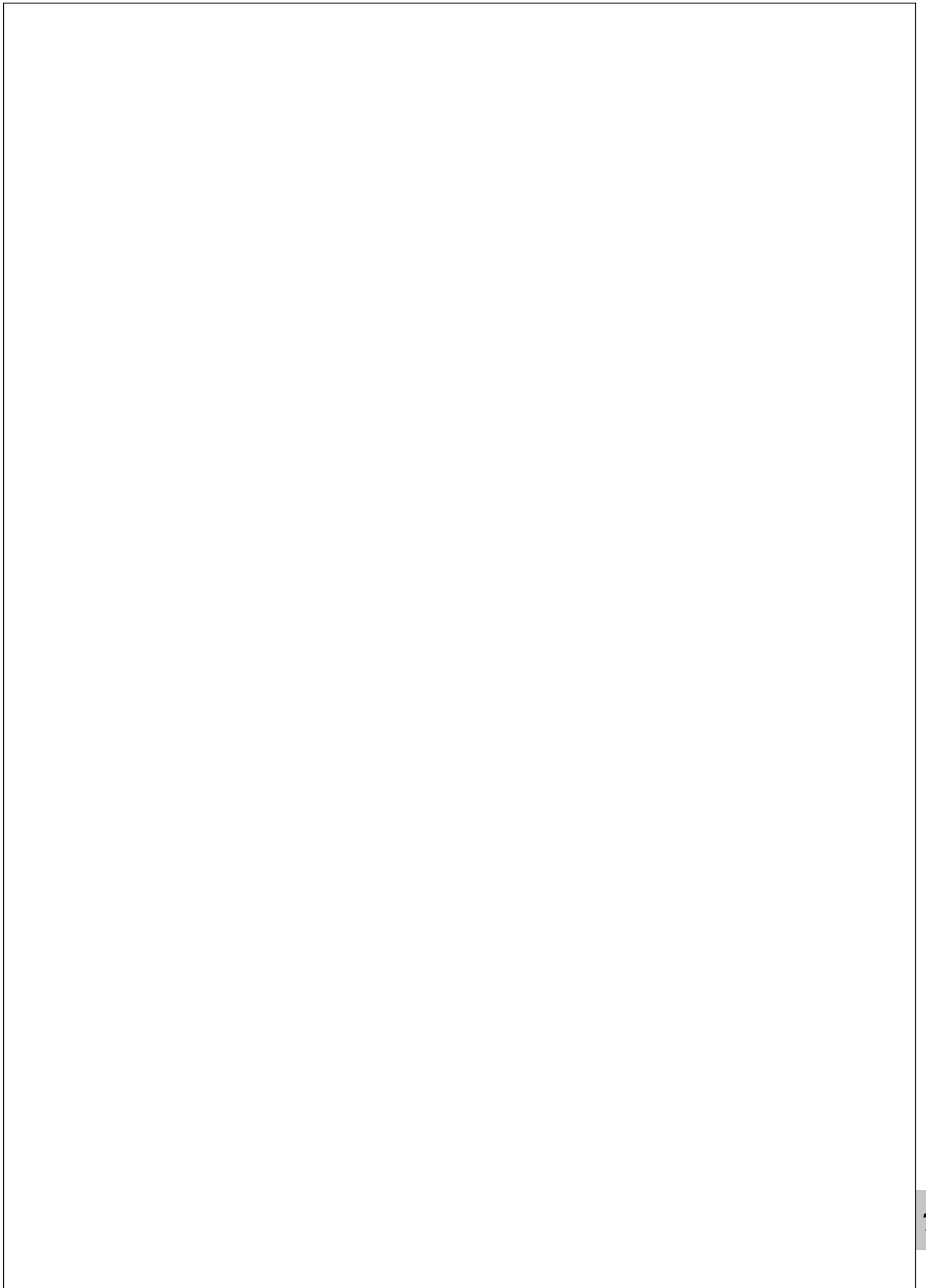
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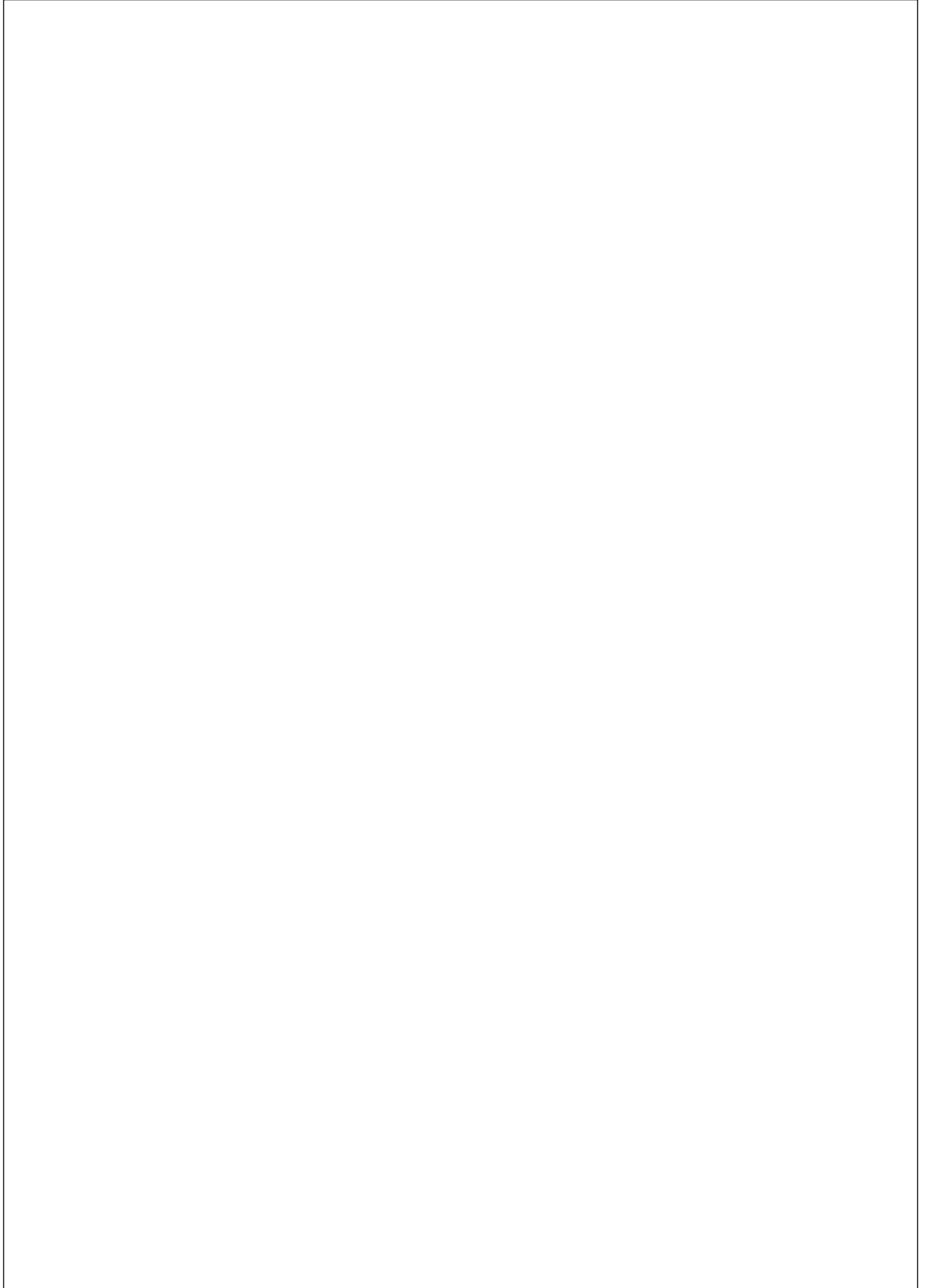
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e1 0002	8SB 507 053-011	6.28	e1 02*14099	9EY 122 979-001	6.21	E1 0463	8SB 507 044-011	6.26
E1 000208	3AL 007 425-427	5.08	e1 02*14113	9MX 562 159-013	6.56	e1 0463	8SB 507 044-011	6.26
E1 000208	3AL 007 425-791	5.08	e1 02*14114	9MX 562 159-052	6.56	E1 0464	8SB 507 049-001	6.28
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E1 000209	3FG 007 424-011	5.14	e1 02*14120	9MX 562 159-013	6.56	e1 0472	8SB 501 325-002	6.31
E1 000209	3FG 940 800-817	5.14	e1 02*14123	9EY 563 168-001	6.25	E1 0472	8SB 501 325-002	6.31
E1 000209	3FH 007 424-801	5.14	e1 02*14123	9MX 563 167-001	6.25	E1 0472	8SB 501 325-012	6.31
E1 000209	3FH 007 424-811	5.14	E1 021032	8SB 003 614-011	6.21	e1 0472	8SB 501 325-012	6.31
E1 000233	3FH 007 728-831	5.14	e1 03 0190	8SB 003 614-011	6.21	E1 0472	8SB 501 325-032	6.31
E1 000233	3FH 007 728-833	5.14	e1 034873	5BD 009 690-001	9.02	e1 0472	8SB 501 325-032	6.31
e1 0003	8SB 507 055-001	6.27	e1 034874	5BD 009 690-001	9.02	e1 0498	8SB 501 358-002	6.24
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e1 0063	8SB 501 247-842	6.46	e1 0369	8SB 501 247-803	6.46	e1 0529	8SB 501 325-032	6.31
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E1 01 0472	9MX 563 468-002	6.31	e1 0369	8SB 501 247-895	6.46	e1 0605	8SB 501 358-002	6.24
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E1 01 0499	9MX 563 717-032	6.24-6.25	E1 0369	8SB 501 247-905	6.46	e1 0605	8SB 501 358-012	6.24
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E1 01 14087	9EY 120 010-001	6.32, 6.34, 6.37, 6.57	e1 0369	8SB 501 311-842	6.43	e1 0605	8SB 501 358-082	6.24
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Light is life – light is safety.



Light is important for all of us, whatever our situation, but it's when driving in dark or overcast conditions that good light becomes absolutely critical for your customers. Because having good lights helps you to steer clear of danger and avoid accidents.

Of course light is crucial to you too, in terms of its importance for your turnover. Be proactive in offering your customers light tests and other services – you can play your part in giving them the safety that they need. Because good business goes hand in hand with happy customers.

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