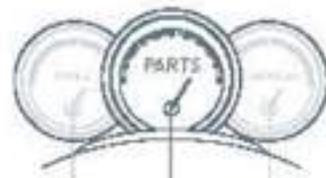


2.2 Parts - Electrics Contents

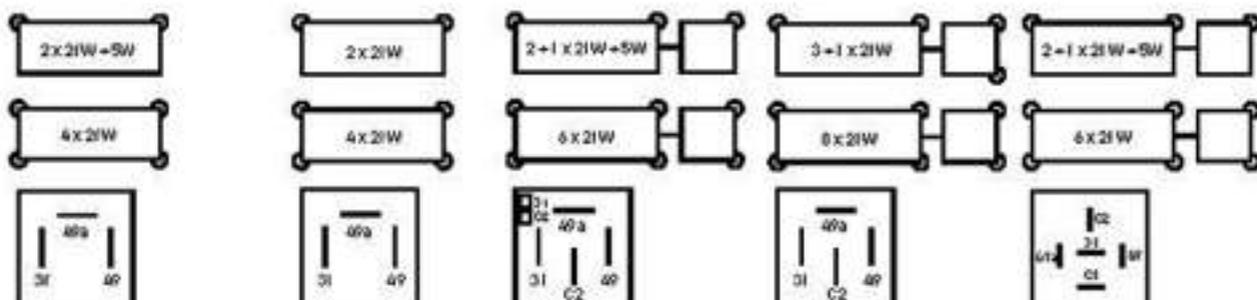
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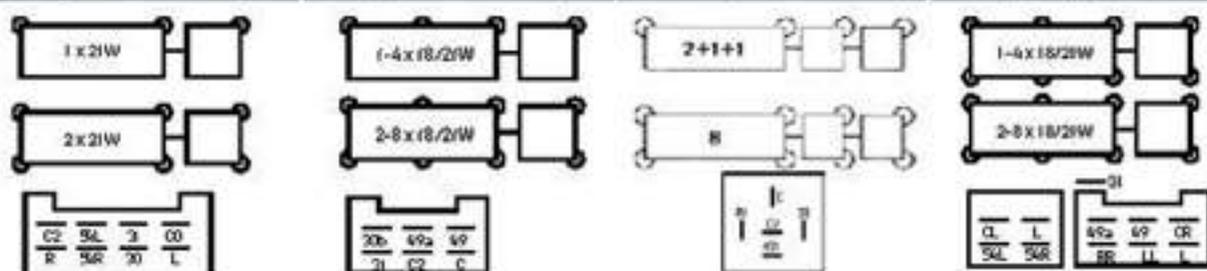
Flasher Units - Single & Double Circuit



Description	FLASHER UNIT 3PIN 12 V	FLASHER UNIT 3PIN 24 V	FLASHER UNIT 4PIN 12 V	FLASHER UNIT 4PIN 24 V	FLASHER UNIT 5PIN 12 V
Short Code	C3047	C1879	C0021	C3001	C3460
Part Number	4DB-003750-711	4AZ-001879-051	4DM-003340-021	4DW-004513-021	4DM-003440-021
Rated Voltage	12V (9 V to 15 V)	24 V (22 V to 30 V)	12 V (9V to 15V)	24 V (22 V to 30 V)	12 V (9V to 15V)
Rated Capacity	21 W	10 W - 140 W	21 W / 5 W	21 W	21 W / 5 W
Number of poles	3 blade terminals	3 blade terminals	4 blade terminals	4 blade terminals	5 blade terminals
Operating mode	Electronic / single circuit	Electronic / single circuit	Electronic / single circuit	Electronic / single circuit	Electronic / single circuit
Functions	Turn signal / hazard warning	Turn signal / hazard warning	Turn signal / hazard warning	Turn signal / hazard warning	Turn signal / hazard warning

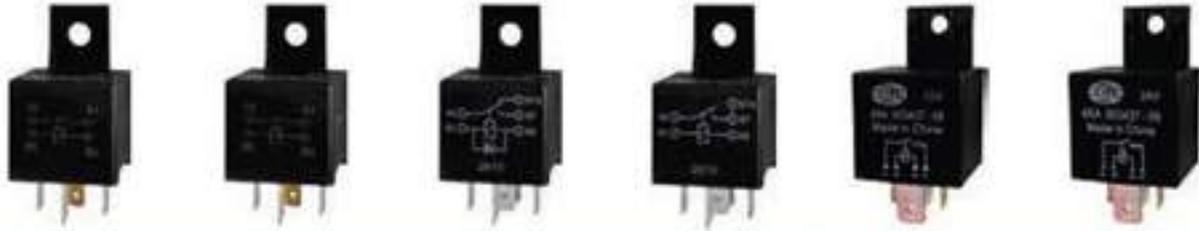


Description	FLASHER UNIT 8PIN 24 V	FLASHER UNIT 6PIN 12 V / 24 V	LED FLASHER UNIT 5PIN 12 V	FLASHER UNIT 11PIN 24 V
Short Code	E5355	C3096	C6942	C3094
Part Number	4JA-005355-001	4DZ-004019-021	4DN-009492-101	4DZ-002834-162
Rated Voltage	24 V (9V to 15V)	12 V / 24 V	12 V	24 V (usable from 20 V-30 V)
Rated Capacity	21 W	18 W / 21 W	2 W / 1 W	18 W / 21 W
Number of poles	8 blade terminals	6	5 blade terminals	11
Operating mode	Electronic / single circuit	Electronic / single circuit	Electronic / single circuit	Electronic / two-circuit
Functions	Turn signal / hazard warning	Turn signal / hazard warning	LED Turn signal / hazard warning	Turn signal, stop signal and hazard



Relays - Normally Open & Change Over Relays, Sockets

n/o: Normally open terminal

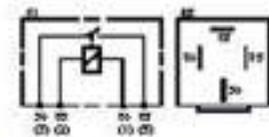
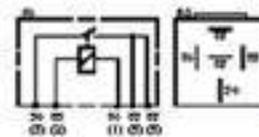


Description	MINI RELAY (N/O) 4PIN 12V	MINI RELAY (N/O) 4PIN 24V	MINI RELAY (N/O) 5PIN 12V	MINI RELAY (N/O) 5PIN 24V	RELAY (N/O) 4PIN 12V HD	RELAY (N/O) 4PIN 24V HD
Short Code	C4003	C4002	C4005	C4007	C4047	C4048
Part Number	4RA-965400-001	4RA-965400-031	4RA-933791-061	4RA-933791-071	4RA-003437-081	4RA-003437-091
Rated Voltage	12V	24V	12V	24V	12V	24V
Resistive load	n/a 30A	n/a 30A	n/a 40A	n/a 30A	n/a 40A	n/a 40A
Inductive load	n/a 30A	n/a 16A	n/a 30A	n/a 16A	-	-
Capacitive load	n/a 16A	n/a 16A	n/a 30A	n/a 16A	n/a 25A	n/a 25A
Resistance	90 Ω	360 Ω	85 Ω	350 Ω	85 Ω	310 Ω

SAE Terminal arrangement 4 x 6.3 mm blade

NOTE: Do not interchange with 5PIN change over relay (B1/B2) N/O: 2 x 071 C/O: 07 + 07a

SAE Terminal arrangement 2 x 6.3 mm + 2 x 9.5 mm blade

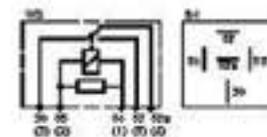
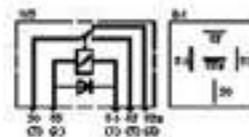
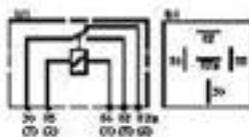


Description	MINI RELAY (C/O) 5PIN 12V	MINI RELAY (C/O) 5PIN 24V	MINI RELAY (C/O) 5PIN 24V D	RELAY (C/O) 5PIN 12V WP	RELAY (C/O) 5PIN 24V WP
Short Code	C4005	C2061	C2081	C4004	C8547
Part Number	4RD-933332-041	4RD-933332-061	4RD-933332-081	4RD-933332-031	4RD-933332-207
Rated Voltage	12V	24V	24V	12V	24V
Resistive load	n/c 20A n/a 30A	n/c 10A n/a 20A	n/c 10A n/a 20A	n/c 20A n/a 30A	n/c 10A n/a 20A
Inductive load	n/c 6A n/a 20A	n/c 8A n/a 16A	n/c 8A n/a 16A	n/c 6A n/a 20A	n/c 8A n/a 16A
Capacitive load	n/c 10A n/a 20A	n/c 5A n/a 15A	n/c 5A n/a 15A	n/c 10A n/a 20A	n/c 5A n/a 15A
Resistance	85 Ω	350 Ω	350 Ω	80 Ω / 560 Ω suppression	350 Ω / 2,400 Ω suppression

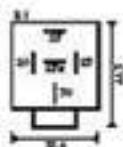
SAE Terminal arrangement 5 x 6.3 mm blade

SAE Terminal arrangement 5 x 6.3 mm blade

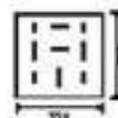
SAE Terminal arrangement 5 x 6.3 mm blade skirted



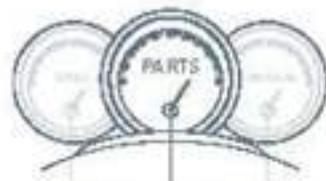
Description	SEALED SOCKET FOR SKIRTED RELAYS
Short Code	E7458
Part Number	8JD-745801-001
Terminals	5 x 6.3 mm blade terminals (B1)*
Wire	Connection lead 30 cm, 48 cm
Application	To use with C8547



Description	UNIVERSAL SOCKET FOR MINI RELAYS
Short Code	E2700
Part Number	8JA-003526-001
Terminals	5 x 6.3 mm, 6.4 x 2.8 mm blade terminals
Wire	-
Application	For MINI relays with SAE terminal arrangement



NOTE: All terminals adhere to German standard norm ISO 8092.
*Refers to ISO 7988 standard.

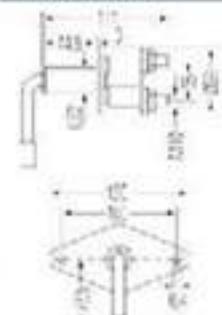
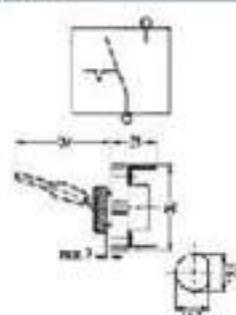
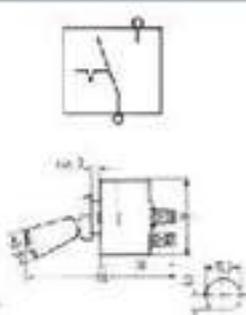
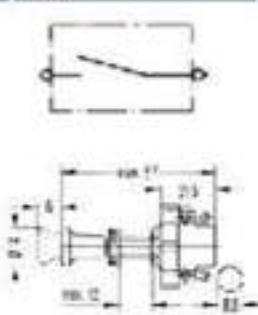
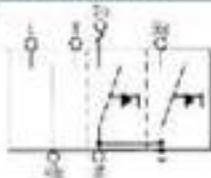


Switches



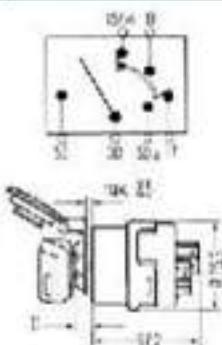
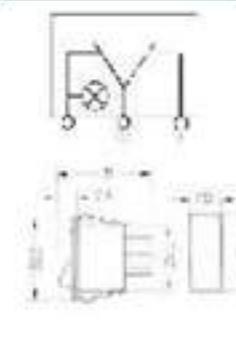
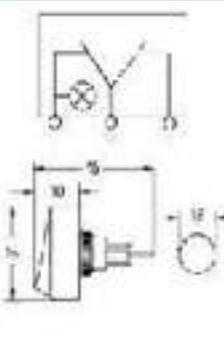
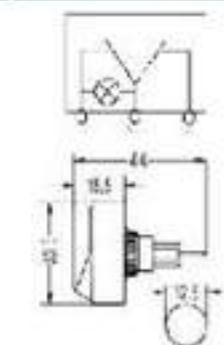
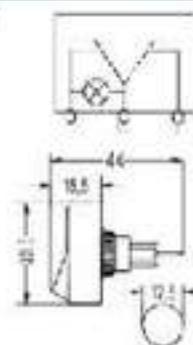
Description	SWITCH STEERING COLUMN	ON-OFF SWITCH	ON-OFF TOGGLE SWITCH	ON-OFF TOGGLE SWITCH	SWITCH BATTERY MASTER
Short Code	D1 539-04	D3000	D7011	D1802-4	D11 01
Part Number	6BA-001539-047	6ED-001563-001	6EG-001567-011	6EG-001567-041	6EK-001559-001
Rated Voltage	12 V	12 V	12 V / 24V	12V	24 V
Max. Load	8A for flasher light, 10A for horn, 2A for headlamp flasher	30A	6A at 12V 3A at 24V	5A	2500 A (10 sec.) 100 A (continuous)
Switch Positions	Middle = off, flasher light left and right, push button = horn on and off, lever raised position = headlamp flasher	0 = off 1 = on	0 = off 1 = on	0 = off 1 = on	0 = off 1 = on
Function	Indicator, horn, head light, flasher	For dashboards up to 12mm thick	Toggle switch, black lever	Round nut for fixing, with two 6.3 mm blade terminals	For battery main leads, with key, connection to + or - lead
Features	115 mm long, straight lever, knob with symbols	Push-pull switch with black knob	With two screw contacts	Black lever made of flexible plastic	Current supply interrupted when key removed

Technical Drawing



Description	ROCKER SWITCH RED	ROCKER SWITCH BLUE	ROCKER SWITCH W/BULB	ON-OFF SWITCH	IGNITION SWITCH, 10 PIN
Short Code	D7012	D7042	E7946	D6012	D9001
Part Number	6EH-004407-012	6EH-004407-042	6EH-007946-001	6EH-004406-012	6JB-003959-001
Rated Voltage	12 V	12 V	12 V	12V	12 V / 24 V
Max. Load	10A	10A	10A	10A	@12V 58: 8A, 15/5& 35A, 19: 60A, 17: 60A, 50& 60/18A
Switch Positions	0 = off 1 = on	0 = off 1 = on	0 = off 1 = on	0 = off 1 = on	5 switch positions: P = side light, 0 = off, 1 = driving position, 2 = pre-heat, 3 = start
Function	Self-service box, on/off switch with red warning light	Self-service box, on/off switch with blue warning light	On-off switch, with three blade terminals	With red warning light, with three 6.3 mm blade terminals	Pre-heating starter switch with cap
Features	With three 6.3 mm blade terminals contact and bulb	With three 6.3 mm blade terminals contact and bulb	Self-service box, with green warning light	With self-service box	Two keys with plastic cap supplied. Key removable in position P and 0.

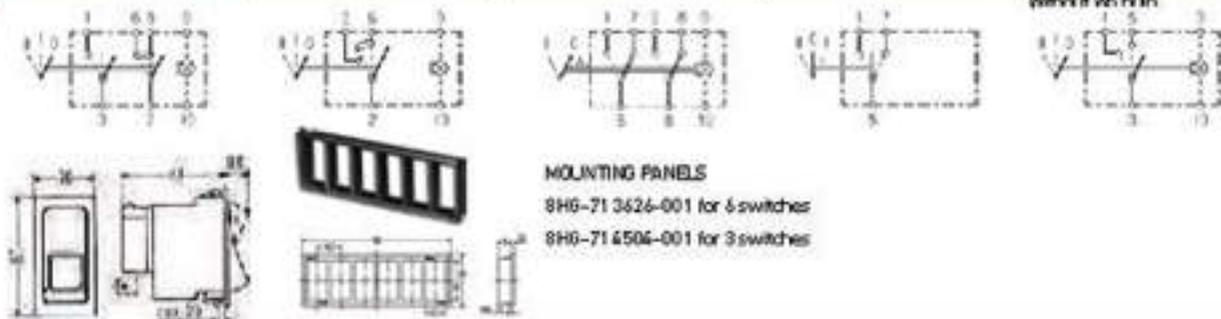
Technical Drawing





Description	SWITCH COMBINATION	SWITCH	SWITCH I-O, WD / BULB FLIP H	SWITCH II-O - I OFF/ON/ON	SWITCH ON/OFF/ON
Short Code	D2247	D2243	D4534	D4570	D2244
Part Number	6RH-004570-417	6RH-004570-341	6FH-004570-341	6FH-004570-511	6RH-004570-177
Rated Voltage	12 V / 24 V	12 V / 24 V	12 V / 24 V	12 V / 24 V	12 V / 24 V
Max. Load	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V
Switch Positions	0 = off 1 = on Var: II-I-O	0 = off 1 = on Var: II-I-O	0 = off 1 = on Var: I-O	0 = off 1 = on Var: II-I-O	0 = off 1 = on Var: II-I-O
Function	With location light, combination switch, 7 ports	With location light, combination switch, 5 ports	For use with location light and pilot light, 8 ports	Without location light, 3 ports, without comfort function	With location light and pilot light, w/ comfort func., 5 ports
Features	2-stage, with one circuit Without W5 bulb	2-stage, with one circuit Without W5 bulb	1-stage, with two circuits Without W5 bulb	2-stage, with one circuit Without W5 bulb	2-stage, with one circuit

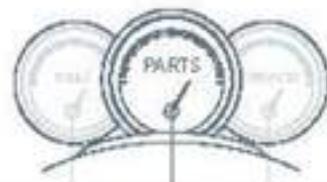
Technical Drawing



Description	SWITCH I-O PLEH ON/OFF	PRESSURE SWITCH	SWITCH ON/OFF/ON	COMBI SWITCH 2 CIRCUITS	COMBI SWITCH 1 CIRCUIT
Short Code	D2241	D2242	D2245	D0641	D2240
Part Number	66M-004570-081	66M-004570-211	66M-004570-221	6EH-004570-641	6EH-004570-021
Rated Voltage	12 V / 24 V	12 V / 24 V	12 V / 24 V	12 V / 24 V	12 V / 24 V
Max. Load	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V
Switch Positions	0 = off 1 = on Var: I-O	0 = off 1 = on Var: I-O+II	0 = off 1 = on Var: I-O+II	0 = off 1 = on Var: I-O	0 = off 1 = on Var: I-O
Function	For use with location light, 6 ports,	For use with location light, 5 ports	For use with location light, 8 ports,	For use with location light and pilot light, 8 ports	For use with location light and pilot light, 4 ports
Features	1-stage, with one circuit Without W5 bulb.	2-stage, with one circuit. Without W5 bulb.	2-stage, with two circuits. Without W5 bulb.	1-stage, with two circuits Without W5 bulb, with two mechanism for blocking op.	1-stage, with one circuit. Without W5 bulb. With comfort function

Technical Drawing





Description	SWITCH 1-0-11 FLIP SWITCH CON	SWITCH, 1-0-1-1 W/O / BULB	SWITCH, 1-1-0 WITHOUT BULB	SWITCH, 1-0 WITHOUT BULB	COMBINATION SWITCH
Short Code	D2141	D2251	D2441	D7831	D2246
Part Number	6FH-007832-1 41	66M-007832-251	6RH-007832-441	6EH-007832-011	66M-007832-1 91
Rated Voltage	12V	12 V / 24V	12 V / 24V	12 V / 24V	12 V / 24V
Max. Load	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V	16A @ 12V 8A @ 24V
Switch Positions	0 = off 1 = on Var. 1-0-11	0 = off 1 = on Var. 1-0-1-1	0 = off 1 = on Var. 1-1-0	0 = off 1 = on Var. 1-0	0 = off 1 = on Var. 1-0
Function	Without location light, 6 ports, without comfort function	For use with location light, 8 ports,	For use with location light and combination switch, 3 ports	For use with location light, 4 ports	For use with location light, 4 ports,
Features	2-stage, with two circuits Without W5 bulb	2-stage, with two circuits. Without W5 bulb.	1-stage, with two circuits. Without W5 bulb.	1-stage, with one circuit. Without W5 bulb Without comfort function	2-stage, with two circuits Without W5 bulb.

Technical Drawing

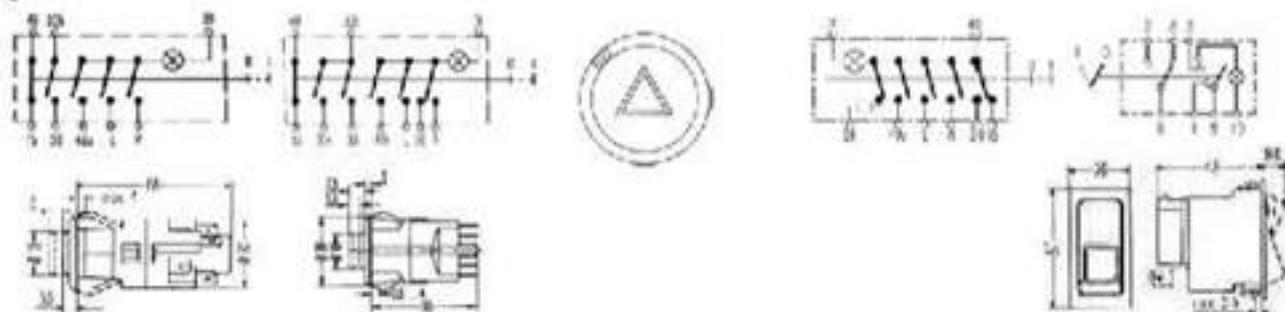


Hazard Switch



Description	SWITCH HAZARD J FITTING	SWITCH PUSH BUTTON MB	SPARE PUSH-BUTTON RED	ROCKER SWITCH	HAZARD FLASHER SWITCH
Short Code	D2701H	D2702	D1671	E31621	D2250
Part Number	6HF-001579-011	6HF-002372-051	9SK-702331-071	6HM-003431-021	6HM-004570-451
Rated Voltage	12 V	12 V / 24 V	-	12 V	12V
Max. Load	49-15.49a-Land 49a-R 7A 30b-30: 14A	8bulbs 21W	-	6 x 21W + 2 x 5W	-
Switch Positions	0 = off 1 = on Bulb type J	0 = off 1 = on	-	0 = off 1 = on Bulb type W5/1.2 bulb	0 = off 1 = on Var. 1-0
Function	Hazard flasher switch without bracket	Hazard flasher, push red button switch	For use with 6HF-002372-051	Hazard flasher switch and red warning light	Hazard flasher switch, 7 ports
Features	Red push-button with symbol, for under dashboard fitting	With ten 6.3 terminal contacts	Push-button, red	With eight pin terminals with pre-fitted 12V bulb	With 12 V bulb, location light and comfort function.

Technical Drawing



Air-Horn Valves Switches



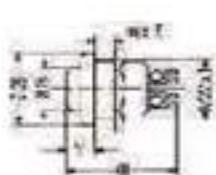
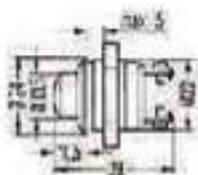
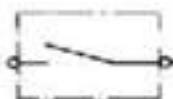
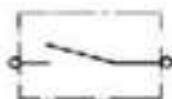
Description	SWITCH, HORN	SWITCH HORN ACCESSORIES	ELECTRICALLY-OPERATED VALVE 24V
Short Code	E3706	XL0001	XL1001
Part Number	9XL-715989-001	9XL-715990-001	9XL-715991-001
Rated Voltage	-	-	24 V
Max. Load	-	-	20W
Switch Positions	-	-	With 6.3 mm blade terminal contacts.
Function	For use with 3PB-005411-001	Foot-operated valve	Electro valve, operated via horn push button
Features	Hand-operated valve	Mounted on floor of cab. Operated by foot.	Mounted in engine compartment

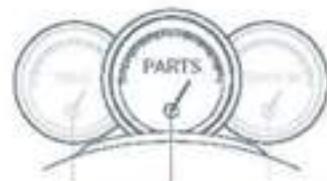
Push Button



Description	PUSH-BUTTON SWITCH	PUSH-BUTTON SWITCH
Short Code	JF1001	D1102
Part Number	6JF-001571-001	6JF-001571-101
Rated Voltage	12 V / 24V	12 V / 24V
Max. Load	20A @ 12V 15A @ 24V	12.5A @ 12V 6.25A @ 24V
Switch Positions	Pressure control type	Lock Pressure control type
Function	Two combined screw / blade terminal contacts	With two screw contacts for mounting surfaces up to 7mm
Features	For flush fitting, without damp-proof cover	For flush fitting, bolted mounting type

Technical Drawing



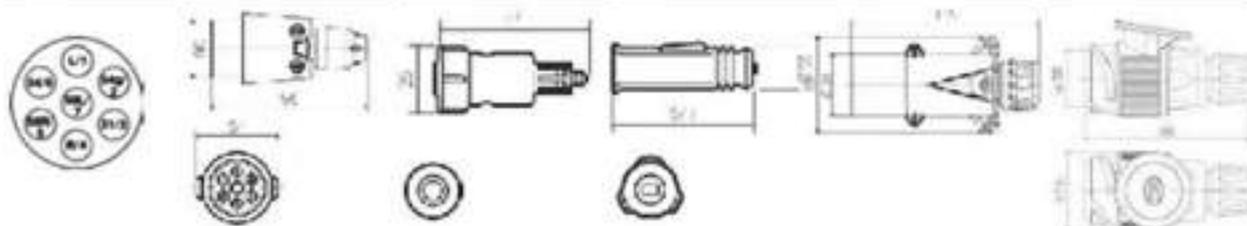


Sockets & Plugs

Plugs



Description	SOCKET 7 PIN	PLUG W/STRAIN RELIEF	STANDARD PLUG	UNIVERSAL PLUG	PLUG METAL 7 POLE	PLUG PLASTIC 13 POLE
Short Code	E1941-1	E1918-1	E3009	E3013	E3031	E5951
Part Number	8JB-001941-001	8JA-001918-001	8JA-002262-001	8JA-002252-103	8JA-003031-001	8JA-005951-001
Rated Voltage	12V	12V	24V, max. load: 16A	24V, max. load: 8A	24V, max. load: 20A	24V, max. load: 20A
Type of Material	Socket: solid metal with lid	Plug: solid metal	Plug: plastic	Plug: plastic	Plug: solid metal	Plug: solid metal
Terminal	7 screw contacts	7 screw contacts	2 screw contacts up to 2.5 sq. mm	2 screw contacts up to 2.5 sq. mm	7 screw contacts	13 screw contacts
Features	7-pole plug with threaded coupling NOTE: Bulk pack Part No 8JB-001941-002 Short Code: E1941	7-pole plug with strain relief and grommet NOTE: Bulk pack Part No 8JA-001918-002 Short Code: E1918	With opening for cable entry 9.2 mm diameter	With opening for cable entry 5 x 3 mm, without fuse	With PG-screw connection cable protection grommet for cables of 9.2-11.5 mm	With rubber gasket, union nut and bayonet fastening
Regulation	ISO 1724	ISO 1724	ISO 4165	ISO 4165	ISO 1185	ISO 11446

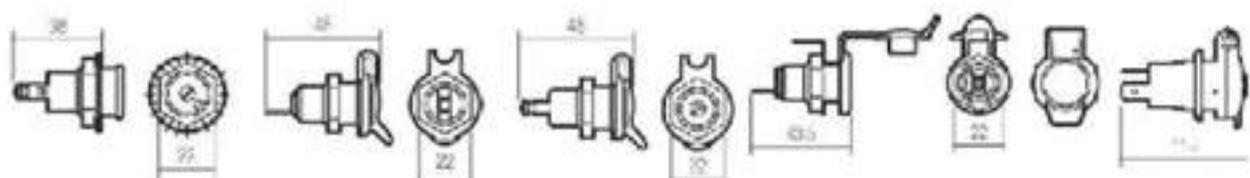


Sockets



Description	SOCKET 1 SCREW TERMINAL	SOCKET	SOCKET 1 SCREW TERMINAL	SOCKET 2 BLADE TERMINAL	PLUG AND SOCKET
Short Code	E3010	E3010-2	E3010-1	E3010-5	E6082
Part Number	8JB-001946-031	8JB-001946-011	8JB-001946-021	8JB-001946-051	8JB-001946-092
Rated Voltage	24V, max. load: 8A	24V, max. load: 8A	24V, max. load: 8A	24V, max. load: 8A	24V, max. load: 20A
Type of Material	Socket: metal	Socket metal w/ plastic input cover	Socket: metal with plastic input cover	Socket: metal	Socket: solid metal with lid
Terminal	1 screw contact	1 blade contact 6.3 mm	1 screw contact	2 blade contacts 6.3 mm	2 blade contacts
Features	Compact light alloy flush-fit socket. Mounting aperture: 18.5 mm dia. Earthing via housing.	Compact light alloy flush-fit socket. Mounting aperture: 18.5 mm dia. Earthing via housing.	Compact light alloy flush-fit socket. Mounting aperture: 18.5 mm dia. Earthing via housing.	Compact light alloy flush-fit socket. Mounting aperture: 18.5 mm dia. Earthing via housing.	Compact plastic flush-fit socket with snap cover (without catch feature). For dashboards up to 7 mm.
Regulation	ISO 4165	ISO 4165	ISO 4165	ISO 4165	ISO 4165

Technical drawing



DT Plugs



Description	2 PIN DELTECH PLUG HARNESS	DT PLUG 2 PIN MALE KIT	DT PLUG 2 PIN FEM KIT	DT PLUG 3 PIN MALE KIT	DT PLUG 3 PIN FEM KIT
Short Code	K9801	DT2MKIT	DT2FKIT	DT3MKIT	DT3FKIT
Part Number	8KB-990299-801	1HT-004940-071	1HT-004941-071	1HT-004942-071	1HT-004943-071
Terminal	2 PIN - Male	2 PIN - Male	2 PIN - Female	3 PIN - Male	3 PIN - Female

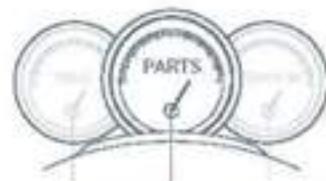


Description	DT PLUG RND 3PIN MALEKIT	DT PLUG RND 3PIN FEM KIT	DT PLUG 4PIN MALE KIT	DT PLUG 4PIN FEM KIT	DT PLUG 6PIN MALE KIT
Short Code	HDT3MKIT	HDT3FKIT	DT4MKIT	DT4FKIT	DT6MKIT
Part Number	1HT-004952-071	1HT-004953-071	1HT-004944-071	1HT-004945-071	1HT-004946-071
Terminal	3 PIN - Male	3 PIN - Female	4 PIN - Male	4 PIN - Female	6 PIN - Male



Description	DT PLUG 6PIN FEM KIT	DT PLUG 8PIN MALE KIT	DT PLUG 8PIN FEM KIT	DT PLUG 12PIN MALE KIT	DT PLUG 12PIN FEM KIT
Short Code	DT6FKIT	DT8MKIT	DT8FKIT	DT12MKIT	DT12FKIT
Part Number	1HT-004947-071	1HT-004948-071	1HT-004949-071	1HT-004950-071	1HT-004951-071
Terminal	6 PIN - Female	8 PIN - Male	8 PIN - Female	12 PIN - Male	12 PIN - Female

NOTE: Max Cable Size: 1.5mm
 Recommended average draw: 10Amp
 Peak Current Spikes: 15Amp



Sockets & Plugs / Fuses, Adaptor, Battery Terminals

Sockets



Description	CIGARETTE LIGHTER 12 V	CIGARETTE LIGHTER 24 V	CIGARETTE LIGHTER ILLUMINATED	CIGARETTE LIGHTER ILLUMINATED
Short Code	E1033	E1034	E1031	E2051
Part Number	8EZ-000022-001	8EZ-000022-011	8EZ-000021-001	8JB-000023-051
Rated Voltage	12 V, max. load: 10A	24 V, max. load: 5A	12 V, max. load: 10A	12 V, max. load: 10A
Mounting aperture	28 mm diameter	28 mm diameter	23.5 mm diameter	23.5 mm diameter
Terminal	Blade connectors 6.3 mm	Blade connectors 6.3 mm	Blade connectors 6.3 mm	Blade connectors 6.3 mm
Features	Compact flush-fit version for at least 10,000 lights. With green dowel sleeve. For dashboard up to 2.5 mm	Compact flush-fit version for at least 10,000 lights. With green dowel sleeve. For dashboard up to 2.5 mm	Compact flush-fit version for at least 10,000 lights. With annular spring mount. For dashboard up to 2.5 mm	Compact flush-fit version for at least 10,000 lights. With annular spring mount. For dashboard up to 2.5 mm

Fuses



Description	FUSE BOX	FUSE BOX 6-POLE	FUSE D70 BEIGE, SET	FUSE D72 RED, SET	FUSE D74 YELLOW SET	FUSE D75 WHITE, SET
Short Code	Z005993	JD3092	JS1684	JS1686	JS1688	JS1689
Part Number	8JD-005993-001	8JD-005993-092	8JS-711684-002	8JS-711686-002	8JS-711688-002	8JS-711689-002
Max. Load	5 x 30A	5 x 30A	5A	10A	20A	25A
Type of Material	Transparent cover	Transparent cover	Plastic	Plastic	Plastic	Plastic
Terminal	5-pole	6-pole	Blade type	Blade type	Blade type	Blade type
Features	Contacts and 2 fixing lugs. ATO fuse box with 10 axial exits 6.3 x 0.8 mm	Contacts and 2 fixing lugs. ATO fuse box with 12 axial exits 6.3 x 0.8 mm	Package with 50 pieces	Package with 50 pieces	Package with 50 pieces	Package with 50 pieces
Fuse type	ATO blade-type	ATO blade-type	ATO according to DIN 72 581			

Adaptor / Battery Terminal

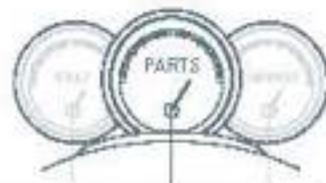


Description	PLUG ADAPTOR	BATTERY TERMINAL
Short Code	E3011	X3011
Part Number	8JA-001909-011	8KX-707913-011
Terminal	3 poles	Clip / Pole dia. 17.5 mm
Features	Battery clamp version with earth strap. Cable length: 130 mm	Special battery terminal clip for lead sizes from 50-120 sq. mm
Additional info	Bulb type: H4, R2	With M12 x 1.5 bolt

Cable



Part number	Short code	Core type	Description	Diameter	Length	Black	Red	Grey	Brown	Blue	Green	White	Yellow
8KA-928352-904	K1090	Single Core	CABLE FLY 1.0MM BLACK 30M	1 mm	30 m	■							
8KA-928352-304	K1030	Single Core	CABLE FLY 1.0MM RED 30M	1 mm	30 m		■						
8KA-928352-704	K1070	Single Core	CABLE FLY 1.0MM GREY 30M	1 mm	30 m			■					
8KA-928352-804	K1080	Single Core	CABLE FLY 1.0MM BROWN 30M	1 mm	30 m				■				
8KA-928352-504	K1050	Single Core	CABLE FLY 1.0MM BLUE 30M	1 mm	30 m					■			
8KA-928352-604	K1060	Single Core	CABLE FLY 1.0MM GREEN 30M	1 mm	30 m						■		
8KA-928352-104	K1010	Single Core	CABLE FLY 1.0MM WHITE 30M	1 mm	30 m							■	
8KA-928352-204	K1020	Single Core	CABLE FLY 1.0MM YELLOW 30M	1 mm	30 m								■
8KA-928353-904	K1690	Single Core	CABLE FLY 1.5MM BLACK 30M	1.5 mm	30 m	■							
8KA-928353-304	K1630	Single Core	CABLE FLY 1.5MM RED 30M	1.5 mm	30 m		■						
8KA-928353-704	K1670	Single Core	CABLE FLY 1.5MM GREY 30M	1.5 mm	30 m			■					
8KA-928353-804	K1680	Single Core	CABLE FLY 1.5MM BROWN 30M	1.5 mm	30 m				■				
8KA-928353-504	K1650	Single Core	CABLE FLY 1.5MM BLUE 30M	1.5 mm	30 m					■			
8KA-928353-604	K1660	Single Core	CABLE FLY 1.5MM GREEN 30M	1.5 mm	30 m						■		
8KA-928353-104	K1610	Single Core	CABLE FLY 1.5MM WHITE 30M	1.5 mm	30 m							■	
8KA-928353-204	K1620	Single Core	CABLE FLY 1.5MM YELLOW 30M	1.5 mm	30 m								■
8KA-929863-904	K2090 AVSSF	Single Core	CABLE AVSSF 2.00MM BLACK 30M	2 mm	30 m	■							
8KA-929863-304	K2030 AVSSF	Single Core	CABLE AVSSF 2.00MM RED 30M	2 mm	30 m		■						
8KA-929863-704	K2070 AVSSF	Single Core	CABLE AVSSF 2.00MM GREY 30M	2 mm	30 m			■					
8KA-929863-804	K2080 AVSSF	Single Core	CABLE AVSSF 2.00MM BROWN 30M	2 mm	30 m				■				
8KA-929863-504	K2050 AVSSF	Single Core	CABLE AVSSF 2.00MM BLUE 30M	2 mm	30 m					■			
8KA-929863-604	K2060 AVSSF	Single Core	CABLE AVSSF 2.00MM GREEN 30M	2 mm	30 m						■		
8KA-929863-104	K2010 AVSSF	Single Core	CABLE AVSSF 2.00MM WHITE 30M	2 mm	30 m							■	
8KA-929863-204	K2020 AVSSF	Single Core	CABLE AVSSF 2.00MM YELLOW 30M	2 mm	30 m								■
8KA-928354-904	K2590	Single Core	CABLE FLY 2.5MM BLACK 30M	2.5 mm	30 m	■							
8KA-928354-304	K2530	Single Core	CABLE FLY 2.5MM RED 30M	2.5 mm	30 m		■						
8KA-928354-704	K2570	Single Core	CABLE FLY 2.5MM GREY 30M	2.5 mm	30 m			■					
8KA-928354-804	K2580	Single Core	CABLE FLY 2.5MM BROWN 30M	2.5 mm	30 m				■				
8KA-928354-504	K2550	Single Core	CABLE FLY 2.5MM BLUE 30M	2.5 mm	30 m					■			
8KA-928354-604	K2560	Single Core	CABLE FLY 2.5MM GREEN 30M	2.5 mm	30 m						■		
8KA-928354-104	K2510	Single Core	CABLE FLY 2.5MM WHITE 30M	2.5 mm	30 m							■	
8KA-928354-204	K2520	Single Core	CABLE FLY 2.5MM YELLOW 30M	2.5 mm	30 m								■
8KA-929865-904	K3090 AVS	Single Core	CABLE AVS 3.00MM BLACK 30M	3 mm	30 m	■							
8KA-929865-304	K3030 AVS	Single Core	CABLE AVS 3.00MM RED 30M	3 mm	30 m		■						
8KA-928355-904	K4090	Single Core	CABLE FLY 4.0MM BLACK 30M	4 mm	30 m	■							
8KA-928355-304	K4030	Single Core	CABLE FLY 4.0MM RED 30M	4 mm	30 m		■						
8KA-928356-904	K6090	Single Core	CABLE FLY 6.0MM BLACK 30M	6 mm	30 m	■							
8KA-928356-304	K6030	Single Core	CABLE FLY 6.0MM RED 30M	6 mm	30 m		■						
8KA-929892-994	K0075x2-30	2-Core	CABLE 2-CORE 2X0.75 30M	0.75 mm	30 m	■	■						
8KA-929893-994	K015x2-30	2-Core	CABLE 2-CORE 2X1.50 30M	1.5 mm	30 m	■	■						
8KA-929894-994	K0075x3-30	3-Core	CABLE 3-CORE 3X0.75 30M	0.75 mm	30 m		■			■			■
8KA-929896-994	K015x3-30	3-Core	CABLE 3-CORE 3X1.50 30M	1.5 mm	30 m		■			■			■
8KA-929936-994	K0075x5-30	5-Core	CABLE 5-CORE 5X0.75 30M	0.75 mm	30 m	■			■	■		■	■
8KA-929938-994	K015x5-30	5-Core	CABLE 5-CORE 5X1.50 30M	1.5 mm	30 m	■			■	■		■	■
8KA-929939-994	K015x7-30	7-Core	CABLE 7-CORE 6x1.50,1x2.50 30M	0.75 mm	30 m	■	■		■	■	■	■	■
8KA-929947-994	K0075x7-30	7-Core	CABLE 7-CORE 7x0.75 30M	6 x 1.5 1 x 2.5 mm	30 m	■	■		■	■	■	■	■



Insulation Tape



Description	INSULATING TAPE PVC 10 M	INSULATING TAPE PVC 20 M
Short Code	10M	20M
Part Number	9MJ-707811-013	9MJ-707811-023
Dimensions	18 mm x 10 m	18 mm x 20 m
Colour	Black	Black
Thickness	0.013 +/- 0.01	0.013 +/- 0.01
Electrical Resistance	Not more than 42 kV	Not more than 42 kV
Temperature Resistance	< 80 °C	< 80 °C
Features	Fire retardant, resistant to grease, acid and humidity	Fire retardant, resistant to grease, acid and humidity



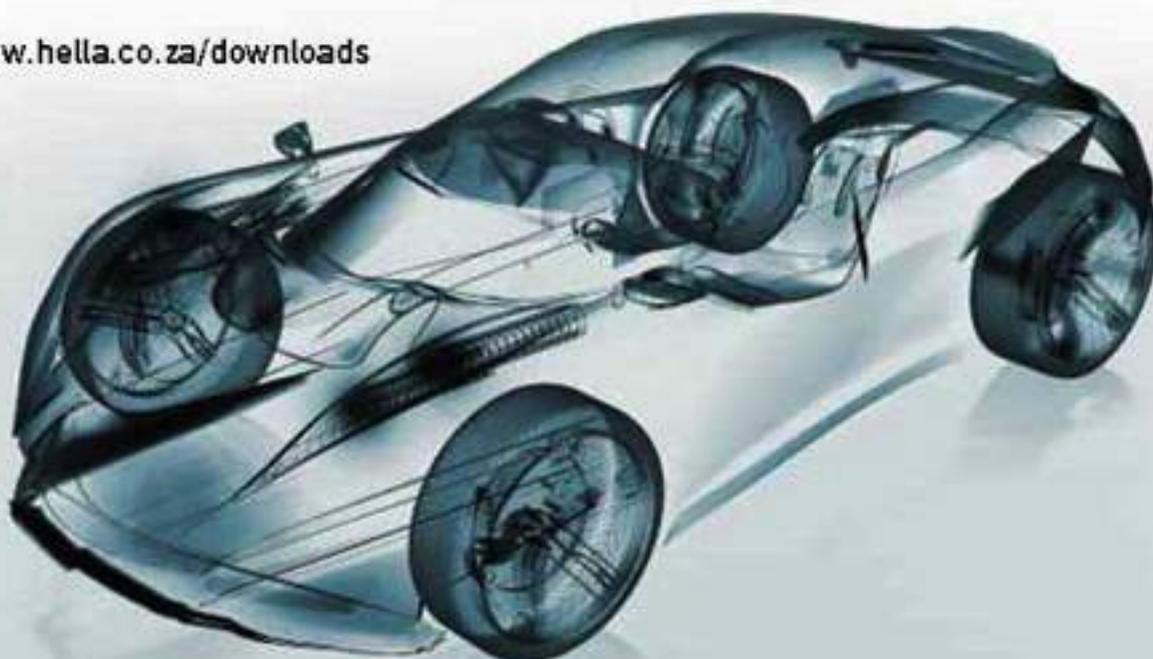
Performance and Quality

... that STICKS!

HELLA insulation tape is produced in answer to demanding quality and environmental standards. Product features also include high insulation, flame retardancy, cold and high voltage, acid and alkali as well as solvent resistant properties.

General uses include: Connecting automobile and household electrical equipment wiring.

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Universal Wiring Harness

Description	UNIVERSAL WIRING HARNESS KIT
Short Code	KB9231
Part Number	8KB-923001-001
Rated Voltage	12 V
Features	Easy-to-Fit For two auxiliary lights
Additional info	Includes switch, relay and DT connectors



Simplifying Fitment and Saving you time!

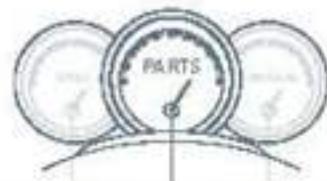
- Easy-to-Fit
- Comprehensive Kit including switch, relay & DT connectors for two 12V lights

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NOW AVAILABLE!

NOTE: Always adhere to country-specific legislation when fitting auxiliary lights.

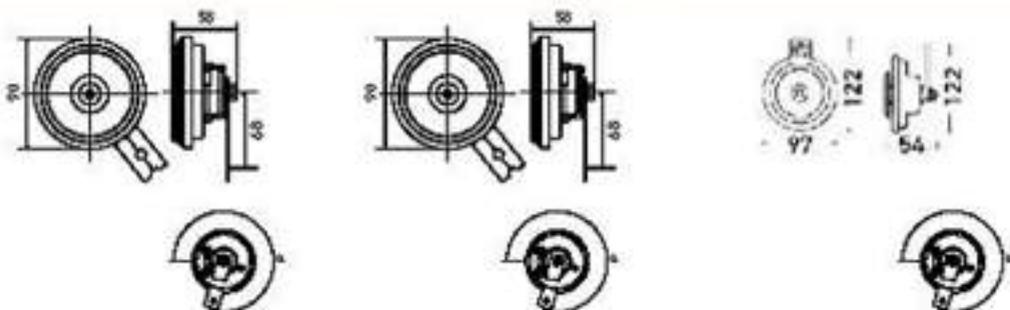


Acoustic Warning Systems - Disc & Trumpet Horns



Series	S90 HT	S90 SET	M26 HT
Description	S90 High Tone Disc Horn	S90 Twin Tone Horn Set	M26 High Tone Disc Horn
Short code	B1910	B1912	B1950
Part number	3AL-922200-380	3AL-922200-091	3AL-002952-811
Nominal voltage	12V	12V	12V
Tonal frequency	415 Hz	380 Hz / 415 Hz	400 Hz
Acoustic pressure level	108 - 118 dB(A)	108 - 118 dB(A)	105 - 118 dB(A)
Power consumption	42 W (max)	2 x 42W (max)	66 W (max)
Current rating	3.5 Amp. (max)	2 x 3.5 Amp. (max)	5.5 Amp. (max)
Weight	305 g	2 x 305 g	300 g
Diameter Body size	90 mm 128 x 90 x 58 mm	90 mm 128 x 90 x 58 mm	97 mm 121 x 97 x 54 mm
Electrical connector	Blade contact, 2x 6.3 mm	Blade contact, 2x 6.3 mm	Blade contact, 2x 6.3 mm
Connector design	nickel bladed, black	nickel bladed, black	Copper, nature
Ventilation	PTFE	PTFE	Direct
Temperature range	-40 to +90 °C	-40 to +90 °C	-40 to +60 °C
Corrosion resistance (SS DIN 50021)**	45 h	45 h	96 h
Durability (cycles)	50,000	50,000	50,000
ECE R28*	Yes	Yes	Yes
Homologation	E11 002111	E11 002111	E1 0020011
Colour front	Black Matt	Black Matt	Galvanised
Colour rear	Black Matt	Black Matt	Galvanised
Construction / Bracket	3 Sheet, black powder-coated for M6 screw	3 Sheet, black powder-coated for M6 screw	2 Sheet, grey powder-coated for M6 screw
Position of bracket (±5°) Clockwise	$\alpha = 255^\circ \text{ @ } \theta = \text{Position of electrical connection}$	Low Tone $\alpha = 310^\circ$ High Tone $\alpha = 255^\circ$	$\alpha = 270^\circ \text{ @ } \theta = \text{Position of electrical connection}$
Teflon pellet	Yes	Yes	Yes
Special feature	-	Includes 12 V Relay	-

Technical Drawing

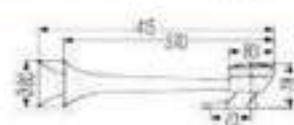
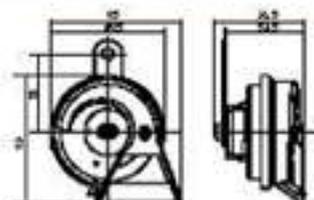
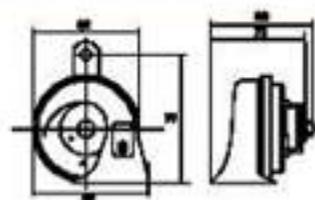
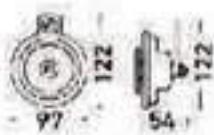


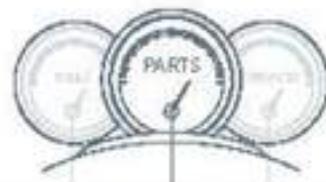
*ECE R28 - Economic Commission for Europe approved.

**SS DIN 50021 - Salt spray test approved by German Institute for Standardization.



M26 LT	TE16 SET	TAXI TRUMPET HORN SET	AIR HORN SET
M26 Low Tone Disc Horn	TE16 Trumpet Horn Set	Taxi Trumpet Horn Set	Chrome Comp. Air Horn
B2150	B7424	B7728	B8305
3AL-002952-871	3FH-007424-801	3FH-007728-871	3PB-005411-001
24V	12V	12V	-
335 Hz	400 Hz / 500 Hz	400 Hz / 500 Hz	300 Hz / 320 Hz
105 - 118 dB(A)	105 - 118 dB(A)	105 - 111 dB(A) @2 m from source	105 - 118 dB(A)
84W (max)	2 x 72W (max)	2 x 72W (max)	-
3.5 Amp. (max)	2 x 6 Amp. (max)	2 x 6 Amp. (max)	4 - 8.5 bar
300 g	2 x 250 g	2 x 230 g	1,300 g
97 mm 121 x 97 x 54 mm	82 mm 109 x 89 x 80 mm	82 mm 119 x 95 x 64.5 mm	80 mm 415 x 160 x 78
Blade contact, 2 x 6.3 mm	Blade contact, 2 x 6.3 mm	Flat blade contact, 2 x 6.3 mm	-
Copper, black	Copper, black	Nickel bladed, black	-
PTFE	Direct	Direct	-
-40 to +60 °C	-40 to +60 °C	-40 to +60 °C	-
96 h	144 h	240 h	-
50,000	50,000	50,000	-
Yes	Yes	Yes	Yes
E1 0020011	E1 000209	E1 000233	E3 42926
Galvanised	Red	White Matt	Chrome (pipe)
Galvanised	Black	Black Matt	Black (body)
2 Sheet, grey powder-coated for M8 screw	2 Sheet, for M8 screw	2 Sheet, black powder-coated for M8 screw	Mounting per Pipe-neck
$\alpha = 270^\circ$ (θ^* = Position of electrical connection)	$\alpha = 270^\circ$ (θ^* = Position of electrical connection)	$\alpha = 90^\circ$ (θ^* = Position of electrical connection)	-
No	No	No	-
-	Includes 12 V Relay	Includes 12 V Relay	Available accessories in page 49





Wiper Blades

CONVENTIONAL WIPER BLADES

HELLA wiper blades are technical masterpieces. In the course of their service life, they wipe thousands of litres of water from the windscreen.

This high quality branded product offers a nano-graphite particle coated wiper blade to ensure a smooth hard-working wipe action.

When wiper blade replacement is necessary, consider vision and road safety. HELLA wiper blades - make a quality choice.

The packaging of the wiper blades provides all necessary information.

- Short number
- Usage list (Manufacturer, model, year of manufacture)
- Wiper blade length
- EAN code

Passenger vehicle wiper blades are available in 13 lengths and come in a practical blister packaging.



B* = Not included in 17", 21", 22", 24" & 26"
A 2-1** = Not included in 16" and 20"

Wiper blade (Short code)	Size		Part Number
WP 11	11"	279 mm	9XW-177935-111
WP 12	12"	305 mm	9XW-177935-121
WP 13	13"	330 mm	9XW-177935-131
WP 14	14"	356 mm	9XW-177935-141
WP 16	16"	406 mm	9XW-177935-161
WP 17	17"	432 mm	9XW-177935-171
WP 18	18"	457 mm	9XW-177935-181
WP 19	19"	483 mm	9XW-177935-191
WP 20	20"	508 mm	9XW-177935-201
WP 21	21"	533 mm	9XW-177935-211
WP 22	22"	559 mm	9XW-177935-221
WP 24	24"	610 mm	9XW-177935-241
WP 26	26"	660 mm	9XW-177935-261

HELLA adapters included

Adapter type	E3	B*	A 2-1**
Arm type			
Bayonet	7 x 2.6 mm	5 x 2 mm	
Hook	9 x 3 mm 9 x 4 mm	6 x 2 mm 8 x 3 mm	7 x 2.5 mm 9 x 2.5 mm
Pin/Saddle	6.3 mm 4.5 mm		



COMMERCIAL VEHICLES (TRUCK / BUS) - WIPER BLADES

The commercial vehicle wiper blades are packaged in environmentally friendly cardboard packaging. Reinforced tabs at the bottom of the packaging keep the wiper blade from falling out.

The wiper blades are available in eight different lengths. The sizes WTR 20, WTR 22, WTR 24, WTR 26 and WTR 28 are mainly used for commercial vehicles. The sizes WTR 32, WTR 36, WTR 40 are used for buses.

Wiper blade (Short code)	Size		Part Number
WTR20	20"	508 mm	9XW-191397-201
WTR22	22"	559 mm	9XW-191397-221
WTR24	24"	610 mm	9XW-191397-241
WTR26	26"	660 mm	9XW-191397-261
WTR28	28"	711 mm	9XW-191397-281
WTR32	32"	813 mm	9XW-191397-321
WTR36	36"	914 mm	9XW-191397-361
WTR40	40"	1016 mm	9XW-191397-401

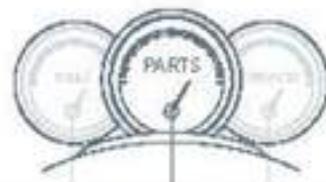
HELLA adapters for Bus and Trucks

E3	B*	A 2-1	TR4
TR9	T5	T8-1	T9
F1	F5	F10	M
M1	M2	M3	M6
M7	M8		

HELLA adapters included

20"	E3, B, A2-1, TR9	28"	T8-1, F5, F10
22"	E3, B, A2-1, F1, TR4, T5	32"	M, M1, M7, M8
24"	T8-1, F5, F10, T9	36"	M2, M8, M6
26"	T8-1, F5, F10	40"	M2, M8, M6





FLAT WIPER BLADES - DYNA BLADES

Dyna Blades from HELLA – the new flat wiper blades.

The optimally contoured vertebrae of the new Dyna Blades provide even distribution of force across every point of the windscreen, guaranteeing perfect wiper performance. The even contact pressure prevents wear points developing.

A multi-adapter is preinstalled in all Dyna Blades. That means the new wiper blades can be retrofitted to older vehicles as well.

For more recent models, additional adapters for wiper arms are included in the package.

The new HELLA wiper blade range is delivered in single-wiper packages, so the customer has the option of changing just one wiper blade if necessary.

HELLA has now achieved market coverage of 98% with the introduction of the new wiper blade range.

Wiper blade (Short code)	Size		Part Number
WBU14	14"	350mm	9XW-197765-141
WBU15	15"	375mm	9XW-197765-151
WBU16	16"	400mm	9XW-197765-161
WBU18	18"	450mm	9XW-197765-181
WBU19	19"	475mm	9XW-197765-191
WBU20	20"	500mm	9XW-197765-201
WBU21	21"	525mm	9XW-197765-211
WBU22	22"	550mm	9XW-197765-221
WBU23	23"	575mm	9XW-197765-231
WBU24	24"	600mm	9XW-197765-241
WBU26	26"	650mm	9XW-197765-261
WBU28	28"	700mm	9XW-197765-281

HELLA adapters included

U Hook:



OE2*



OE3 Multi-adapter



OE4**



OE2* = Included in 18", 19", 20", 21", 22",
23" and 24"

OE3** = Included in 22", 23" and 24"



RAZOR HYBRID WIPER BLADES

HELLA Razor Hybrid Wiper Blades are technical masterpieces. In the course of their service life, they wipe thousands of litres of water from the windscreen.

This high quality branded product offers a nano-graphite particule coated wiper blade to ensure a smooth hand-working wipe action.

When wiper blade replacement is necessary, consider vision and road safety. HELLA Razor Hybrid Wiper Blades - make a quality choice.

The packaging of the Razor Hybrid Wiper Blades provides all necessary information.

- Short number
- Usage list (Manufacturer, model, year of manufacture)
- Wiper blade length
- EAN code

Passenger vehicle Razor Hybrid Wiper Blades are available in 11 lengths and come in a practical blister packaging.



Wiper blade (Short code)	Size		Part Number
RH14	14"	350 mm	9XW-187217-141
RH16	16"	375 mm	9XW-187217-161
RH17	17"	400 mm	9XW-187217-171
RH18	18"	450 mm	9XW-187217-181
RH19	19"	475 mm	9XW-187217-191
RH20	20"	500 mm	9XW-187217-201
RH21	21"	525 mm	9XW-187217-211
RH22	22"	550 mm	9XW-187217-221
RH24	24"	600 mm	9XW-187217-241
RH26	26"	650 mm	9XW-187217-261
RH28	28"	700 mm	9XW-187217-281
RH30	30"	750 mm	9XW-187217-301

Improved aerodynamic design



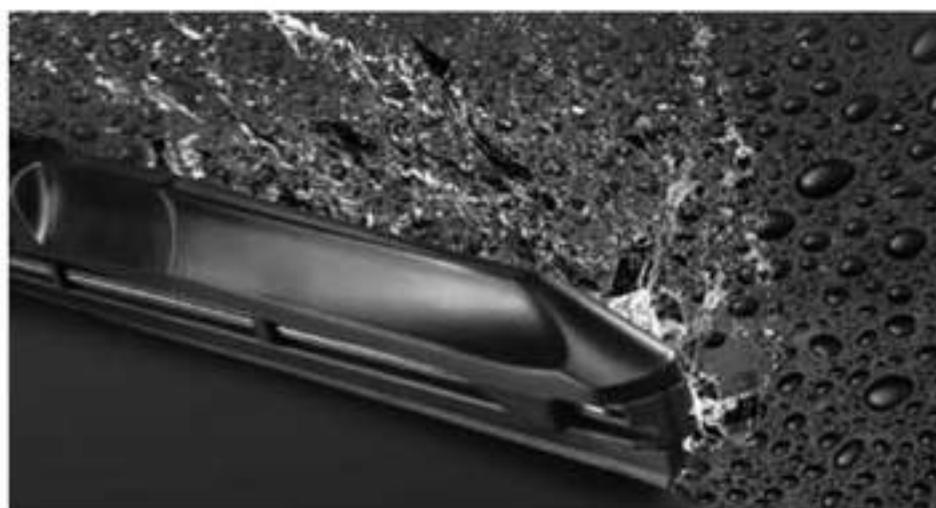
Reinforced with internal steel frame

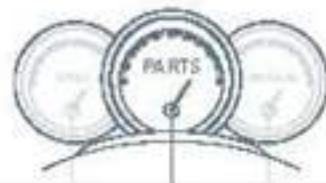


Double corrosion protection

- Zinc plated steel frame with powder coating for corrosion protection under the most adverse environmental conditions

Note: The HELLA Razor Hybrid Wiper Blades fit 95% of Asian vehicle brands and any vehicle that has the U-Hook Wiper Arm.





Spark Plugs - Standard & Performance



HELLA ENERGY SPARK PLUG

Durable

HELLA Energy Spark Plug has a nickel center electrode with copper core that increases the thermal conductivity, offering excellent heat dissipation and ultimately making the spark plugs more durable. Selected part numbers come with resistance center electrode that suppresses interference caused during sparking.

Recommended Service Interval: Approx. 30, 000 km



HELLA ENERGY PRO SPARK PLUG

Long Life, Better Combustion

HELLA Energy Pro features a nickel alloy ground electrode U-groove design that allows a larger area for the flame kernel, enabling more complete combustion leading to better fuel efficiency. Each plug is incorporated with yttrium-enhanced center electrode that lasts longer than typical OE plugs. HELLA Energy Pro also comes with resistance added center electrode. For many modern cars with on-board electronic systems and electronic fuel injection, such resistance in the spark plugs greatly suppresses the electromagnetic interference caused during sparking.

Recommended Service Interval: Approx. 40, 000 km



HELLA PLATINUM SPARK PLUG

Better Performance and Longer Life

HELLA Platinum Spark Plug offers a platinum center electrode tip that offers high durability and long service life. It lasts longer than typical OE plugs including yttrium enhanced plugs. The fine tip reduces ignition voltage requirement and improves ignitability, giving faster response, faster acceleration and improved fuel economy.

Recommended Service Interval: Approx. 60, 000 km



HELLA IRIDIUM PRO SPARK PLUG

Superior Performance and Acceleration, Extreme Long Life

The spark plug center electrode tip and ground electrode are the areas where most of the wear and tear happens. HELLA Iridium Pro offers superb durability at both the center electrode tip with an iridium tip and a platinum pad on the ground electrode. Iridium is 6 times harder, 8 times stronger, and has a melting point 640 degrees higher than platinum. Advancement in precision laser technology has enabled laser welding of iridium material to create a uniformly precision-cut tip. Put that into a harsh engine cylinder environment and this translates into a spark plug that lasts much longer than any other plug types (nickel, yttrium and platinum). The super fine 0.6mm center electrode tip reduces the voltage requirements and allows a focused, concentrated spark ignition. This in turn improves ignitability, offers faster response, faster acceleration and better fuel economy.

Recommended Service Interval: Approx. 100, 000 km

Part number	Short code	Description	Application Examples*
8EH-188704-171	CH8P-8	Energy	BMW 525i (E34) 1989->1990
8EH-188704-181	CM7RP-11	Energy	Toyota Yaris 1.5 2010->
8EH-188704-161	CH7P-8	Energy	BMW 320i (E30) 1982->1992
8EH-188704-291	CM7RP-8	Energy	Uno 1.1 Fire 1991->
8EH-188704-191	CM8RP-11	Energy	Toyota Camry 2.4i 2003->2007
8EH-197025-391	CG8P-7	Energy	VW Beetle 1600 1969->1979
8EH-197025-441	CN8P1-7	Energy	Honda HR 21 3.5 HP GV150
8EH-188704-321	CF10P-6	Energy	BMW F650 Funduro
8EH-188704-211	CFM9RP-9	Energy	Toyota Avarza 1.5 2006->
8EH-188704-331	CV8P-9	Energy	Ford Cortina 2.0 GL 1983->
8EH-188704-071	YM8RCP-9U	Energy PRO	Ford Bantam 140 1986->1994
8EH-188704-091	YM8RCS5-9D	Energy PRO	Citroen C3 1.6 8V 2002->
8EH-188704-021	YH8RCP-8U	Energy PRO	VW Golf 1 Citi 1.3 1995->
8EH-188704-001	YH7RCP-8U	Energy PRO	Toyota Corolla 1.8SE 1980->85
8EH-188704-041	YH7RCP-11U	Energy PRO	Chevrolet Spark 1L 2005->
8EH-188704-011	YM8RCP-11U	Energy PRO	Toyota Run-X 1.8 RSI 2003->
8EH-188704-051	YM7RCP-8U	Energy PRO	Ford Ranger 2.6 1999->
8EH-188704-341	YMU8RCP-11U	Energy PRO	Toyota Hilux 2L 2005->
8EH-188704-351	YH9RCP-8U	Energy PRO	VW Golf 1 Velociti 1.6 2001->
8EH-188704-361	YSJ8RCP-10U	Energy PRO	Ford Ikon 1.6 2002->
8EH-188704-371	YM8RCS5-10T	Energy PRO	VW Polo 1.4i 16V 2001->2004
8EH-188704-381	YM7RCS5-9D	Energy PRO	Opel Corsa C 1.4 2000->
8EH-188704-391	YM7RCP5-8U	Energy PRO	Toyota Corolla 1.6GLX 1988->93
8EH-188704-401	YM8RCS5-9T	Energy PRO	VW Transporter 2L 2003->2007
8EH-188704-411	YSJ7RCP-13U	Energy PRO	Ford Fiesta 1.3L 2004->
8EH-188704-421	YM7RCS5-10T	Energy PRO	VW Polo Classic 1.4 2007->
8EH-188704-111	YM8RCP5-11U	Energy PRO	Honda Civic 150 1996->2000
8EH-188704-121	YMU7RCP5-11U	Energy PRO	Suzuki SX4 2.0 CVT 2010->
8EH-188704-151	YH8RCP-11U	Energy PRO	Chevrolet Spark 0.8LS 2003->
8EH-188704-141	YMU7RCP-9U	Energy PRO	Renault Megane Coupe 1999
8EH-188704-231	YM7RCP5-11U	Energy PRO	Opel Astra G 1.6 2004->
8EH-188704-131	YNP9RCP-9U	Energy PRO	Renault Clio 1.2 16V 2004->
8EH-188704-251	YS8RCP-8U	Energy PRO	Mercedes-Benz 190 W201 1990
8EH-188705-011	PM9RC-10	Platinum	Mitsubishi Pajero 3 1993->2000
8EH-188705-031	PM8RC-7	Platinum	Audi A4 2.0 TFSI 2005->2008
8EH-188705-021	PM8RC-11	Platinum	Subaru Impreza WRX STI 2004
8EH-188705-211	PFM10RC-8	Platinum	BMW Z4 (E86) 2005->2007
8EH-188705-241	PM7RC7-11	Platinum	VW Golf 4 2.8 VR6 2001->
8EH-188706-041	IM7RC-10P	Iridium PRO	Kia Sportage 2.7 V6 2006->
8EH-188706-051	IMU8RC4-8P	Iridium PRO	Mercedes-Benz SLR W199 2006
8EH-188706-081	IMU8RC4-10P	Iridium PRO	BMW 130i (E87) 2005->
8EH-188706-221	IM8RC5-11P	Iridium PRO	Chevrolet Lumina 2.2 2004->
8EH-188706-261	IM8RC-8P	Iridium PRO	Mini Cooper 1.6 CVT 2002->

* Note: Complete 2015 HELLA Spark Plugs Application Guide can be obtained from your nearest HASA Sales Representative in either hard-copy or digital PDF format, or visit our downloads section: www.hella.co.za/downloads





IGNITION COILS

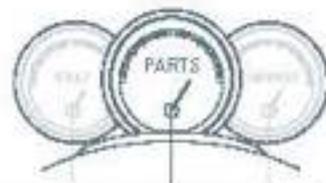
EXTENDED RANGE

Without extended range of more than 100 part numbers Hella ignition coils offers proven performance and good allround value.

The Hella brand is synonymous with proven quality and innovative automotive technology. The basis behind Hella's success lies in its constant pursuit for innovations and design improvements, and constantly creating value to the future of motor vehicles.

www.hella.co.za





Ignition Coils



IGNITION COILS AND MODULES

- Optimum ignition voltage and spark energy, resulting powerful engine output and lower fuel consumption
- High quality material used
- High temperature resistant
- High vibration resistant

PRODUCT FEATURES

Working conditions for ignition coils are of high electrical, mechanical, thermal and chemical stress. Ignition coils must work perfectly under such conditions over a long life cycle.

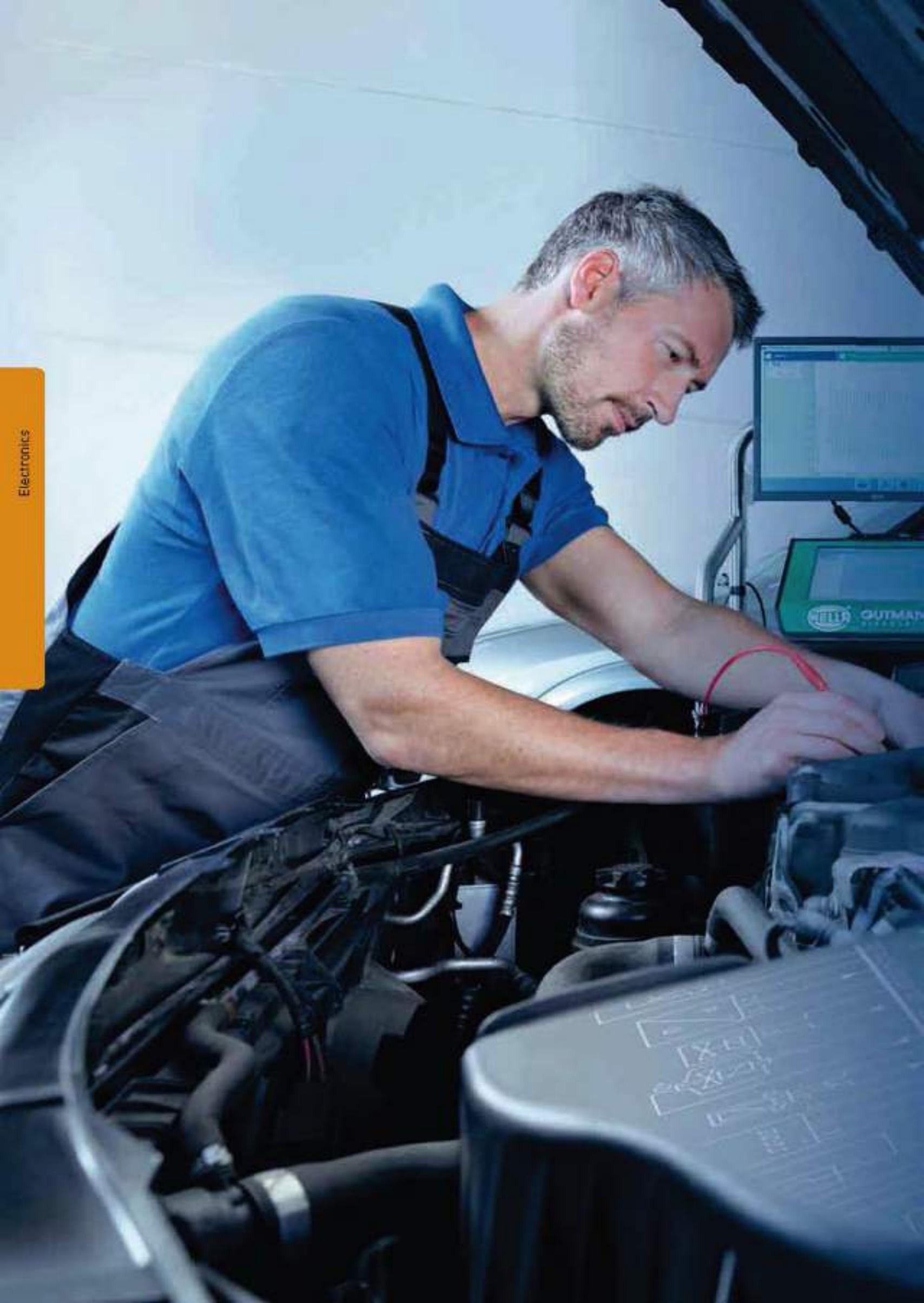
An insufficient output voltage or energy produced from ignition coils will cause mistring and incomplete combustion, which can increase the emission, fuel consumption and damage the catalytic converter. HELLA ignition coils and modules are manufactured with strict testing procedures to ensure performance matches vehicle ignition specification.

In addition to a continuous product range expansion, the ignition coils and modules are applicable for all relevant European, Asian and American manufactures. Almost 130 million vehicles are covered across Europe.

The applications / OE numbers can be easily referenced to HELLA articles in TecDoc.

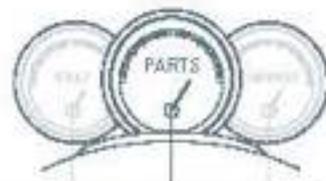
Part number	Short code	Application Examples*
5DA-193175-971	DA5971	Kia Pucanto
5DA-358000-081	DA0081	VW (377905105B)
5DA-358000-101	DA0101	Volvo V70
5DA-358000-111	DA0111	Mercedes C Class W203
5DA-358000-121	DA0121	Chevrolet Captiva
5DA-358000-131	DA0131	Honda Civic VIII
5DA-358000-251	DA0251	Renault Laguna II
5DA-358000-231	DA0231	Chevrolet Aveo Hatch
5DA-358000-241	DA0241	Opel Astra J
5DA-358000-271	DA0271	Alfa Romeo Mito
5DA-358000-341	DA0341	Chevrolet Cruze
5DA-358000-371	DA0371	VW Touareg
5DA-358000-391	DA0391	Suzuki Alto
5DA-358000-381	DA0381	Toyota Rav4 II
5DA-358000-461	DA0461	Toyota Auris
5DA-358000-471	DA0471	BMW E87, E85, E63
5DA-358000-481	DA0481	Opel Agila

Part number	Short code	Application Examples*	Part number	Short code	Application Examples*
5DA-193175-341	DA5341	Alfa Romeo 145, Fiat Panda	5DA-358000-021	DA0021	MercedesE Class W124
5DA-006623-951	DA3951	VW Golf III, Golf IV, Polo	5DA-193175-821	DA5821	Renault Kangoo
5DA-193175-501	DA5501	Audi A1, Golf V, Golf VI	5DA-193175-851	DA5851	Nissan QashQai
5DA-006623-941	DA3941	VW Golf II, Jetta II	5DA-193175-871	DA5871	Renault Laguna I
5DA-193175-361	DA5361	Mercedes C Class W202	5DA-193175-881	DA5881	Renault Megane I
5DA-193175-591	DA5591	Audi S4 (B6, B7)	5DA-193175-831	DA5831	Renault Modus
5DA-193175-551	DA5551	BMW E36, E39, E46	5DA-193175-921	DA5921	VW Amarok Petrol
5DA-193175-541	DA5541	BMW E36, E34, E32	5DA-193175-901	DA5901	VW Polo (9N) 1.2
5DA-193175-491	DA5491	BMW E81, E82, E88	5DA-193175-931	DA5931	Toyota Yaris
5DA-006623-931	DA3931	VW Golf I, Jetta I	5DA-193175-941	DA5941	Toyota Avensis 2.0
5DA-193175-441	DA5441	Citroen C2, C3	5DA-193175-951	DA5951	VW Up
5DA-193175-421	DA5421	Peugeot 106, 205	5DA-193175-701	DA5701	Audi A6 (C5, C6)
5DA-193175-461	DA5461	Citroen Saxo 1.6	5DA-358000-261	DA0261	VW Passat (3B3, 3B6)
5DA-193175-431	DA5431	Peugeot 206, 306	5DA-358000-051	DA0051	VW Sharan
5DA-193175-451	DA5451	Peugeot 406, 605	5DA-358000-181	DA0181	VW Touran (1T1, 1T2)
5DA-193175-391	DA5391	Renault Clio II, Megane I	5DA-358000-441	DA0441	BMW E60, E91
5DA-193175-581	DA5581	Daewoo Lanos	5DA-358000-431	DA0431	Citroen C5
5DA-193175-661	DA5661	Smart City, Roadster	5DA-358000-311	DA0311	Peugeot 1007
5DA-193175-401	DA5401	Ford Escort V, VI, VII	5DA-358000-421	DA0421	Daihatsu Sirion
5DA-193175-411	DA5411	Ford Fiesta IV, V	5DA-358000-301	DA0301	Peugeot 406
5DA-193175-651	DA5651	Opel Astra F	5DA-358000-161	DA0161	Renault Clio III
5DA-193175-331	DA5331	Opel Astra G	5DA-358000-211	DA0211	Fiat Palio
5DA-193175-351	DA5351	Opel Astra F GSi	5DA-358000-291	DA0291	Opel Astra F 2.0 16V
5DA-193175-471	DA5471	Opel Corsa B	5DA-358000-401	DA0401	Renault Scenic I
5DA-193175-681	DA5681	Nissan Almera II	5DA-358000-141	DA0141	Honda Accord IV
5DA-193175-561	DA5561	Opel Meriva	5DA-358000-091	DA0091	Honda Jazz II
5DA-193175-371	DA5371	Lotus Elise	5DA-358000-191	DA0191	Mercedes A Class W168
5DA-193175-691	DA5691	Alfa Romeo 155	5DA-358000-151	DA0151	VW LT 28-35 II BUS
5DA-193175-911	DA5911	Audi A3, A4 1.8T	5DA-358000-451	DA0451	Honda FR-V
5DA-193175-981	DA5981	Audi TT 1.8 T	5DA-358000-201	DA0201	Opel Astra G
5DA-193175-711	DA5711	BMW E87, E90	5DA-358000-351	DA0351	Opel Corsa D
5DA-193175-721	DA5721	Peugeot 106 I	5DA-358000-281	DA0281	Cadillac CTS 3.2
5DA-193175-731	DA5731	Citroen Berlingo	5DA-358000-411	DA0411	Renault Fluence
5DA-193175-991	DA5991	Mercedes A Class W169	5DA-358000-331	DA0331	Opel Zafira A OPC
5DA-193175-741	DA5741	Fiat Punto 1.8	5DA-358000-361	DA0361	Renault Grand Scenic III
5DA-193175-751	DA5751	Fiat Stilo 1.6	5DA-358000-061	DA0061	Renault Rapid Box
5DA-193175-761	DA5761	Fiat Panda	5DA-358000-221	DA0221	Volvo 850 Estate T5
5DA-193175-771	DA5771	Ford Ka	5DA-358000-071	DA0071	Volvo C70, S60
5DA-193175-781	DA5781	Ford Focus II	5DA-358000-171	DA0171	VW Beetle TFSI
5DA-358000-001	DA0001	VW Golf IV (1J5) 2.8 V6	5DA-193175-521	DA5521	Hyundai Lantra II
5DA-193175-791	DA5791	Ford Fiesta VI	5DA-193175-531	DA5531	Hyundai Santa FE
5DA-193175-801	DA5801	Ford Kuga	5DA-193175-511	DA5511	Hyundai i30
5DA-193175-811	DA5811	Ford Mondeo IV	5DA-193175-481	DA5481	KIA Serato
5DA-358000-011	DA0011	Ford Mondeo I	5DA-193175-381	DA5381	Hyundai Accent III
5DA-358000-041	DA0041	Opel Astra H	5DA-193175-641	DA5641	BMW E36, E46
5DA-193175-861	DA5861	Opel Corsa C	5DA-193175-671	DA5671	Alfa Romeo 147
5DA-358000-031	DA0031	Opel Vectra B	5DA-193175-841	DA5841	Nissan Primera
5DA-193175-891	DA5891	Landrover Freelander	5DA-193175-961	DA5961	Hyundai i10, i20



2.3 Parts - Electronics Contents

Lambda Sensors	2-3
Thermal Switches	4-8
Temperature Sender Units	9-13



Lambda Sensors

Hella Universal Lambda Sensor Range



Short Code	L57771
Part Number	3MT-007771-001
Description	UNIVERSAL Lambda Sensor
Type	Finger
No. of Wires	1
Cable Length	200 mm



Short Code	L57772
Part Number	3MT-007772-001
Description	UNIVERSAL Lambda Sensor
Type	Finger
No. of Wires	2
Cable Length	200 mm



Short Code	L57773
Part Number	3MT-007773-001
Description	UNIVERSAL Lambda Sensor
Type	Finger
No. of Wires	3
Cable Length	200 mm
Heater Resistance	3 - 6 Ohm



Short Code	L57774
Part Number	3MT-007774-001
Description	UNIVERSAL Lambda Sensor
Type	Finger
No. of Wires	4
Cable Length	200 mm
Heater Resistance	3 - 6 Ohm

Extended wire



Short Code	L56884
Part Number	3MT-006884-001
Description	UNIVERSAL Lambda Sensor
Type	Planar
No. of Wires	4
Cable Length	200 mm
Heater Resistance	9 - 10 Ohm



Short Code	L56889
Part Number	3MT-006889-001
Description	UNIVERSAL Lambda Sensor
Type	Planar
No. of Wires	4
Cable Length	350 mm
Heater Resistance	9 - 10 Ohm

General Information

Thread	M18x1.5
Hex	22 mm
Initial working temperature	300°C without internal heater 150°C with internal heater



Maximum working temperature	1 000°C
Torque	40 - 60 Nm
Input voltage of the heater	12 to 14 volts
Stock keeping conditions	Temperature: -40°C to 100°C Humidity: 0 to 60%

Hella Universal Premium Lambda Sensor Range



Short Code	LS7001
Part Number	3MT-007001-001
Description	UNIVERSAL Premium Lambda Sensor
Type	Finger
No. of Wires	1
Cable Length	200 mm



Short Code	LS7002
Part Number	3MT-007002-001
Description	UNIVERSAL Premium Lambda Sensor
Type	Finger
No. of Wires	2
Cable Length	200 mm



Short Code	LS7003
Part Number	3MT-007003-001
Description	UNIVERSAL Premium Lambda Sensor
Type	Finger
No. of Wires	3
Cable Length	200 mm
Heater Resistance	3 - 6 Ohm



Short Code	LS7004
Part Number	3MT-007004-001
Description	UNIVERSAL Premium Lambda Sensor
Type	Finger
No. of Wires	4
Cable Length	200 mm
Heater Resistance	3 - 6 Ohm

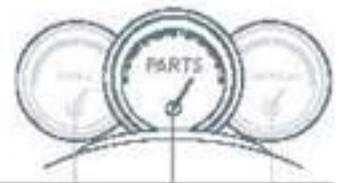
Extended wire



Short Code	LS8004
Part Number	3MT-008004-001
Description	UNIVERSAL Premium Lambda Sensor
Type	Planar
No. of Wires	4
Cable Length	200 mm
Heater Resistance	9 - 10 Ohm



Short Code	LS8009
Part Number	3MT-008009-001
Description	UNIVERSAL Premium Lambda Sensor
Type	Planar
No. of Wires	4
Cable Length	350 mm
Heater Resistance	9 - 10 Ohm



Thermal Switches



Short Code	FS3046
Part Number	1MT-003046-011
Temperature	115°C
Thread	M16x1.5
Hex	22 mm
Application	FIAT SEAT



Short Code	FS3722
Part Number	1MT-372294-851
Temperature	90/85 °C
Thread	M16x1.5
Hex	17 mm
Application	DAIHATSU GM TOYOTA



Short Code	FS3724
Part Number	1MT-372485-800
Temperature	85/80 °C
Thread	M16x1.5
Hex	17 mm
Application	DAIHATSU TOYOTA



Short Code	FS3744
Part Number	1MT-374485-801
Temperature	85/80 °C
Thread	M16x1.5
Hex	17 mm
Application	MITSUBISHI



Short Code	FS7059
Part Number	1MT-705115-119
Temperature	115/110 °C
Thread	M22x1.5
Hex	29 mm
Application	LAND ROVER MERCEDES BENZ SAAB



Short Code	FS7180
Part Number	1MT-718959-000
Temperature	95/90 °C
Thread	M22x1.5
Hex	29 mm
Application	SEAT VW



Short Code	FS7051	FS7052	FS7053	FS7054	FS7055	FS7056	FS7057
Part Number	1MT-705924-800	1MT-705847-600	1MT-705928-700	1MT-705958-000	1MT-705959-000	1MT-705100-951	1MT-705103-981
Temperature	82/68 °C	85/76 °C	82/87 °C	95/80 °C	95/90 °C	100/95 °C	103/98 °C
Thread	M22x1.5	M22x1.5	M22x1.5	M22x1.5	M22x1.5	M22x1.5	M22x1.5
Hex	29 mm	29 mm	29 mm	29 mm	29 mm	29 mm	29 mm
Application	PEUGEOT	ALFA ROMEO CITROËN FORD PEUGEOT RENALT	ALFA ROMEO FIAT SAAB VW	PEUGEOT	LAND ROVER OPEL PEUGEOT VW	GM FORD OPEL	FORD LAND ROVER VW

Cross reference numbers and OE reference numbers are listed in Chapter 5.

Legend



For electrical engine cooling fan



To be used in vehicles with air conditioning



Can also be used for trucks



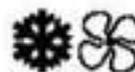
For warning lamp



Short Code	F57171	F57172	F57173	Short Code	F57250
Part Number	1MT-717979-200	1MT-717929-801	1MT-717951-020	Part Number	1MT-725929-701
Temperature	87-92 °C	92-96 °C	95-102 °C	Temperature	92-87 °C
Thread	M22x1.5	M22x1.5	M22x1.5	Thread	M22x1.5
Hex	29 mm	29 mm	29 mm	Hex	29 mm
Application	VW	VW	AUDI SEAT SKODA VW	Application	ALFA ROMEO FIAT PEUGEOT

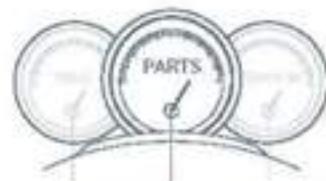


Short Code	F57260	Short Code	F57400	Short Code	F57610
Part Number	1MT-726928-700	Part Number	1MT-740100-951	Part Number	1MT-761100-110
Temperature	92/87 °C	Temperature	100/95 °C	Temperature	100-110 °C
Thread	M22x1.5	Thread	M22x1.5	Thread	M22x1.5
Hex	29 mm	Hex	29 mm	Hex	29 mm
Application	ALFA ROMEO FIAT NISSAN LANCIA PEUGEOT	Application	GM OPEL	Application	GM OPEL



Short Code	F57660	Short Code	F57670	Short Code	F57870
Part Number	1MT-766100-951	Part Number	1MT-767951-200	Part Number	1MT-787951-020
Temperature	100/95 °C	Temperature	95-120 °C	Temperature	95-102 °C
Thread	M22x1.5	Thread	M22x1.5	Thread	M22x1.5
Hex	29 mm	Hex	29 mm	Hex	22 mm
Application	GM OPEL	Application	GM OPEL	Application	AUDI FORD SEAT SKODA VW

NOTE: Only the most common applications are listed. Please check application guide for product specific reference, at www.hella.co.za



Short Code	FS7080
Part Number	1MT-788928-701
Temperature	92/87 °C
Thread	M16x1.5
Hex	22 mm
Application	NISSAN



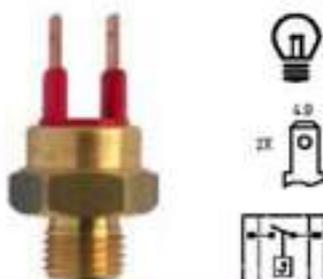
Short Code	FS7910
Part Number	1MT-791077-701
Temperature	87/77 °C
Thread	M16x1.5
Hex	22 mm
Application	NISSAN



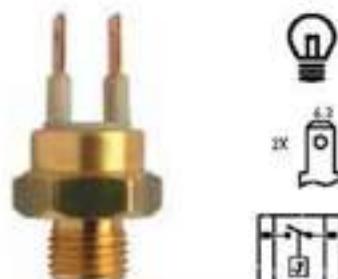
Short Code	FS7920
Part Number	1MT-792928-701
Temperature	92/82 °C
Thread	M16x1.5
Hex	22 mm
Application	NISSAN



Short Code	FS7950
Part Number	1MT-795959-000
Temperature	95/90 °C
Thread	M22x1.5
Hex	22 mm
Application	AUDI SEAT SKODA VW



Short Code	FS8000
Part Number	1MT-800102-971
Temperature	102/97 °C
Thread	M16x1.5
Hex	22 mm
Application	BMW



Short Code	FS8010
Part Number	1MT-801959-001
Temperature	95/90 °C
Thread	M16x1.5
Hex	22 mm
Application	BMW OPEL VOLVO



Short Code	FS8020
Part Number	1MT-802971-021
Temperature	97-102 °C
Thread	M22x1.5
Hex	29 mm
Application	AUDI SEAT SKODA VW



Short Code	FS8030
Part Number	1MT-803959-001
Temperature	95/90 °C
Thread	M22x1.5
Hex	29 mm
Application	AUDI SEAT SKODA VW



Short Code	FS8040
Part Number	1MT-804102-971
Temperature	102/97 °C
Thread	M22x1.5
Hex	29 mm
Application	FORD

Cross reference numbers and OE reference numbers are listed in Chapter 5

Legend  For electrical engine cooling fan
 To be used in vehicles with air conditioning

 Can also be used for trucks
 For warning lamp



Short Code	FS8100
Part Number	1MT-810928-071
Temperature	92/87 °C
Thread	M16x1.5
Hex	22 mm
Application	HONDA



Short Code	FS8110
Part Number	1MT-811938-801
Temperature	93/88 °C
Thread	M18x1.5
Hex	24 mm
Application	HONDA ISUZU ROVER



Short Code	FS8140
Part Number	1MT-814908-501
Temperature	90/85 °C
Thread	M16x1.5
Hex	21 mm
Application	DAIHATSU LEXUS TOYOTA



Short Code	FS8200
Part Number	1MT-820928-701
Temperature	92/87 °C
Thread	M22x1.5
Hex	29 mm
Application	FORD



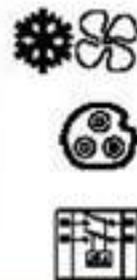
Short Code	FS8210
Part Number	1MT-821928-201
Temperature	92/82 °C
Thread	M22x1.5
Hex	29 mm
Application	GM OPEL RENAULT



Short Code	FS8280
Part Number	1MT-828951-001
Temperature	95-100 °C
Thread	M22x1.5
Hex	29 mm
Application	FORD



Short Code	FS8290
Part Number	1MT-829100-110
Temperature	100-110 °C
Thread	M22x1.5
Hex	29 mm
Application	FORD

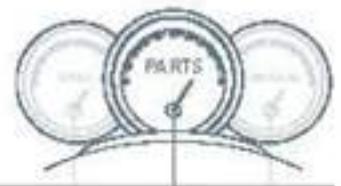


Short Code	FS8310
Part Number	6ZT-007837-001
Temperature	90-97 °C
Thread	M14x1.5
Hex	24 mm
Application	BMW



Short Code	FS8320
Part Number	1MT-832879-201
Temperature	90-97 °C
Thread	M14x1.5
Hex	24 mm
Application	BMW

NOTE: Only the most common applications are listed. Please check application guide for product specific reference, at www.hella.co.za



Legend



For electrical engine cooling fan



To be used in vehicles with air conditioning



Can also be used for trucks



For warning lamp



Short Code	FS8330
Part Number	1MT-833100-107
Temperature	100-107 °C
Thread	M16x1.5
Hex	22 mm
Application	MERCEDES BENZ



Short Code	FS8390
Part Number	1MT-839209-701
Temperature	90-97 °C
Thread	M16x1.5
Hex	22 mm
Application	BMW



Short Code	FS8400
Part Number	1MT-840951-921
Temperature	95-102 °C
Thread	Ø 20
Hex	-
Application	AUDI SKODA VW



Short Code	FS8680
Part Number	1MT-868850-001
Temperature	85 °C
Thread	M16x1.5
Hex	21 mm
Application	HYUNDAI



Short Code	FS8700
Part Number	1MT-870110-105
Temperature	110/105 °C
Thread	M16x1.5
Hex	24 mm
Application	BMW



Short Code	FS8710
Part Number	1MT-871920-001
Temperature	92 °C
Thread	M16x1.5
Hex	17 mm
Application	DAIHATSU TOYOTA



Short Code	FS8720
Part Number	1MT-872900-001
Temperature	90 °C
Thread	M16x1.5
Hex	17 mm
Application	DAIHATSU TOYOTA



Short Code	FS8729
Part Number	6ZT-008729-001
Temperature	100-95 °C
Thread	M16x1.5
Hex	22 mm
Application	MERCEDES BENZ



Short Code	FS7780
Part Number	1MT-778879-200
Temperature	85-102 °C
Thread	M22x1.5
Hex	22 mm
Application	AUDI VW

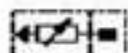
Cross reference numbers and OE reference numbers are listed in Chapter 5

Temperature Sender Units

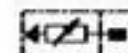
Legend

With switch for warning alarm
Coolant temperature senderCan also be used for trucks
For indication instruments coolant

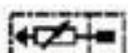
Short Code	TS3029
Part Number	1MT-003029-011
Thread	1/8" x 27
Hex	1/2"
Application	DAEWOO GM ISUZU OPEL



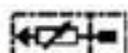
Short Code	TS3041
Part Number	1MT-003041-011
Thread	M16 x 1.5
Hex	19mm
Application	ALFA ROMEO FIAT



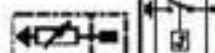
Short Code	TS3057
Part Number	1MT-003057-011
Thread	1/8" x 27
Hex	1/2"
Application	CHRYSLER FORD



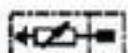
Short Code	TS3042
Part Number	1MT-003042-011
Thread	M16 x 1.5
Hex	11/16"
Application	HYUNDAI MITSUBISHI TOYOTA



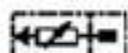
Short Code	TS3077
Part Number	1MT-003077-011
Thread	M16 x 1.5
Hex	11/16"
Application	GM SUBARU TOYOTA



Short Code	TS3090
Part Number	1MT-003090-011
Thread	M16 x 1.5
Hex	22mm
Application	MERCEDES BENZ



Short Code	TS3100
Part Number	1MT-003100-011
Thread	M14 x 1.25
Hex	16 mm
Application	ALFA ROMEO FIAT PEUGEOT RENAULT

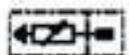
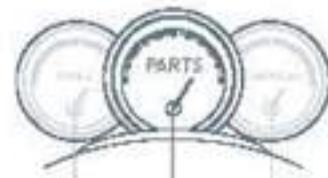


Short Code	TS3105
Part Number	1MT-003105-011
Thread	1/8" x 27
Hex	13 mm
Application	FORD LAND ROVER

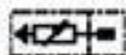


Short Code	TS3107
Part Number	1MT-003107-011
Thread	M14 x 1.5
Hex	19 mm
Application	BMW SKODA

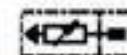
NOTE: Only the most common applications are listed. Please check application guide for product specific reference, at www.hella.co.za



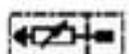
Short Code	TS3119
Part Number	1MT-003119-011
Thread	1/8" x 28
Hex	13 mm
Application	DAIHATSU FORD OPEL MAZDA MITSUBISHI TOYOTA



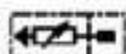
Short Code	TS3120
Part Number	1MT-003120-011
Thread	M12 x 1.25
Hex	13 mm
Application	NISSAN



Short Code	TS3121
Part Number	1MT-003121-011
Thread	M14 x 1.25
Hex	19 mm
Application	FAT



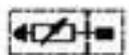
Short Code	TS3125
Part Number	1MT-003125-011
Thread	1/8" x 27
Hex	13 mm
Application	CHEVROLET OPEL SAAB



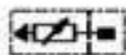
Short Code	TS3126
Part Number	1MT-003126-011
Thread	M10 x 1.0
Hex	14 mm
Application	AUDI VOLVO VW



Short Code	TS3131
Part Number	1MT-003131-011
Thread	Ø 11 mm
Hex	-
Application	NISSAN



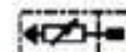
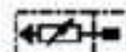
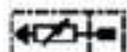
Short Code	TS3129
Part Number	1MT-003129-011
Thread	M10 x 1.0
Hex	13 mm
Application	VOLVO VW



Short Code	TS3130
Part Number	1MT-003130-011
Thread	1/8" x 27
Hex	13 mm
Application	FORD

Cross reference numbers and OE reference numbers are listed in Chapter 5

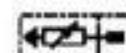
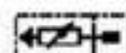
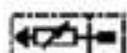
Legend

With switch for warning alarm
Coolant temperature senderCan also be used for trucks
For indication instruments coolant

ShortCode	TS3133
Part Number	1MT-003133-011
Thread	M16 x 1.5
Hex	17 mm
Application	GM ISUZU OPEL

Short Code	TS3135
Part Number	1MT-003135-011
Thread	1/8" x 28
Hex	13 mm
Application	FORD HONDA KIA MAZDA

Short Code	TS3140
Part Number	1MT-003140-011
Thread	M14 x 1.5
Hex	19 mm
Application	DAEWOO MERCEDES BENZ VW



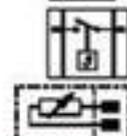
ShortCode	TS3144
Part Number	1MT-003144-011
Thread	1/8" x 27
Hex	13 mm
Application	FORD

Short Code	TS3150
Part Number	1MT-003150-011
Thread	M16 x 1.5
Hex	17 mm
Application	TOYOTA VW

Short Code	TS3151
Part Number	1MT-003151-011
Thread	1/8" GAS
Hex	13 mm
Application	TOYOTA



95°C

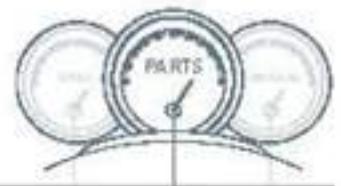


Short Code	TS3179
Part Number	1MT-003179-011
Thread	Ø 20
Hex	-
Application	VW

Short Code	TS3200
Part Number	1MT-003200-011
Thread	M16 x 1.5
Hex	17 mm
Application	DAIHATSU FIAT FORD KIA MAZDA SUZUKI

Short Code	TS3201
Part Number	1MT-003201-011
Thread	M16 x 1.5
Hex	17 mm
Application	MAZDA

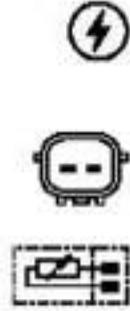
NOTE: Only the most common applications are listed. Please check application guide for product specific reference, at www.hella.co.za



Short Code	TS3202
Part Number	1MT-003202-011
Thread	M16 x 1.5
Hex	17 mm
Application	NISSAN



Short Code	TS3203
Part Number	1MT-003203-011
Thread	M16 x 1.5
Hex	11/16"
Application	DAIHATSU GM HYUNDAI TOYOTA VW



Short Code	TS4000
Part Number	1MT-004000-011
Thread	M12 x 1.5
Hex	19 mm
Application	FORD GM NISSAN OPEL RENAULT



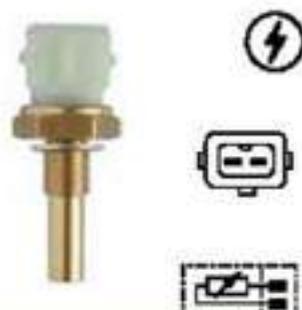
Short Code	TS4001
Part Number	1MT-004001-011
Thread	M12x1.5
Hex	19 mm
Application	ALFA ROMEO BMW FORD NISSAN RENAULT SKODA



Short Code	TS4003
Part Number	1MT-004003-011
Thread	M14x1.5
Hex	22 mm
Application	MERCEDES BENZ



Short Code	TS4020
Part Number	1MT-004020-011
Thread	3/80AS
Hex	19 mm
Application	CITROEN HYUNDAI MITSUBISHI SMART VOLVO



Short Code	TS4024
Part Number	1MT-004024-011
Thread	M10x1.0
Hex	19 mm
Application	AUDI SEAT VW



Short Code	TS4027
Part Number	1MT-004027-011
Thread	M12 x 1.5
Hex	19 mm
Application	FORD MAZDA TOYOTA VOLVO

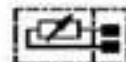
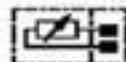
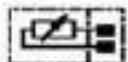


Short Code	TS4034
Part Number	1MT-004034-011
Thread	Ø 20
Hex	-
Application	FORD VW

Cross reference numbers and OE reference numbers are listed in Chapter 5

Legend  With switch for warning alarm
 Coolant temperature sender

 Can also be used for trucks
 For indication instruments coolant



Short Code	TS4037
Part Number	1MT-004037-011
Thread	3/8 x 18 NPTF
Hex	19 mm

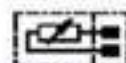
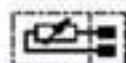
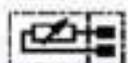
Application FORD | JAGUAR | MAZDA | VOLVO

Short Code	TS4050
Part Number	1MT-004050-011
Thread	M12 x 1.5
Hex	19 mm

Application ALFA ROMEO | CHEVROLET |
DAEWOO | FIAT | RENAULT | OPEL |
SAAB

Short Code	TS4051
Part Number	1MT-004051-011
Thread	M12 x 1.5
Hex	19 mm

Application ALFA ROMEO | BMW | CITROËN | FIAT |
HONDA | OPEL | PEUGEOT | TOYOTA |
VW



Short Code	TS4065
Part Number	1MT-004065-011
Thread	M12 x 1.5
Hex	19 mm

Application DAIHATSU | GM | MAZDA | SUZUKI |
TOYOTA

Short Code	TS4075
Part Number	1MT-004075-011
Thread	M12 x 1.5
Hex	22 mm

Application BMW | LAND ROVER

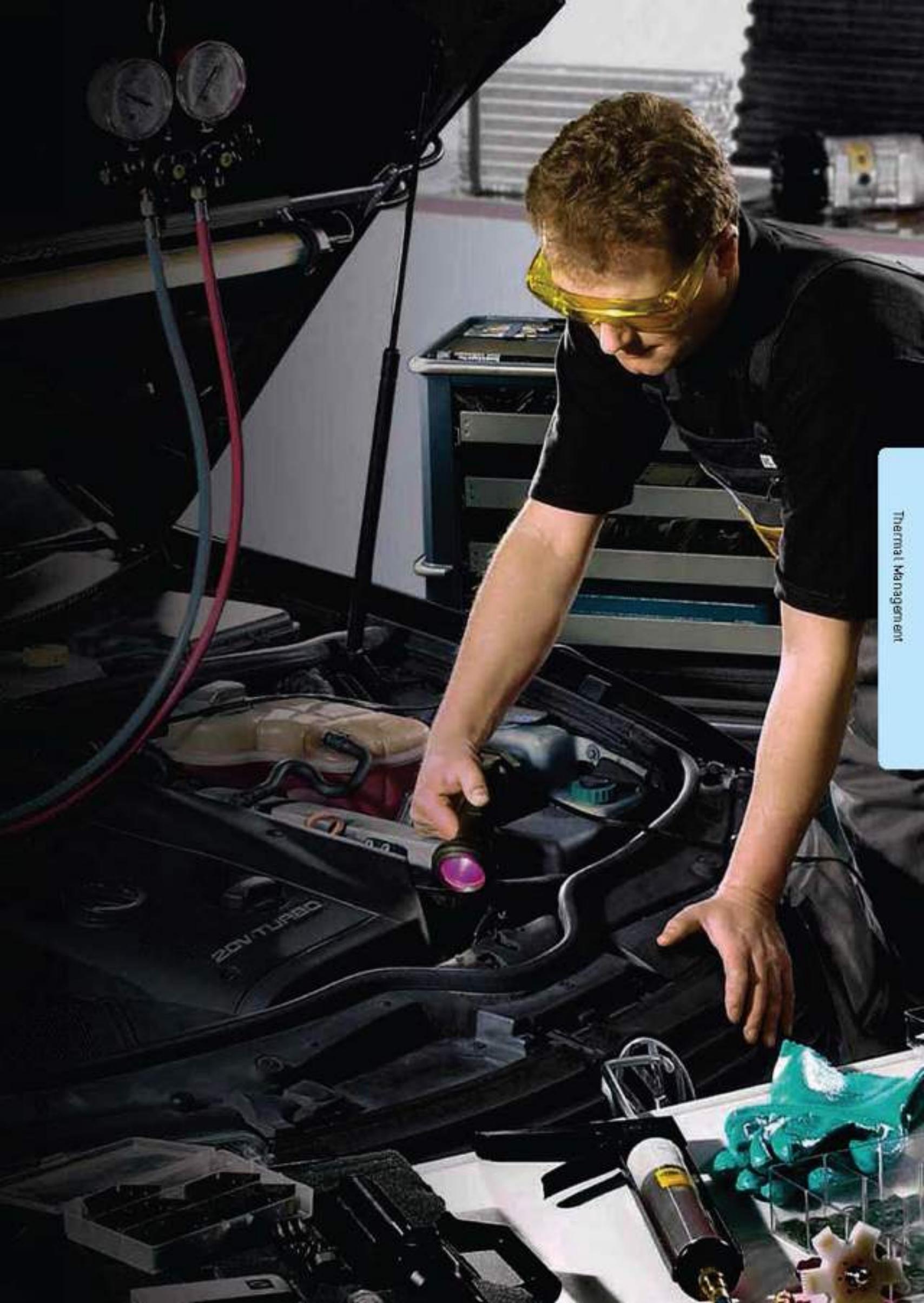
Short Code	TS4092
Part Number	1MT-004092-001
Thread	Ø 20
Hex	-

Application FORD | MITSUBISHI | MERCEDES
BENZ | PORSCHE | VW GROUP

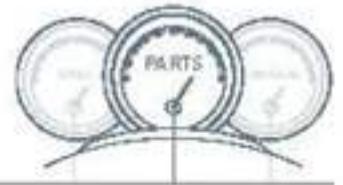
NOTE: Only the most common applications are listed. Please check application guide for product specific reference, at www.hella.co.za

2.4 Parts - Thermal Management Contents

Thermostats	2-10
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Thermal Management



Thermostats



D1	54
A	28
42	30



D1	57
A	20
42	-

Short Code	VT205.75	206.75	206.82
Part Number	2MT-002644-011	2MT-002603-011	2MT-002609-011
Temperature	75 °C	75 °C	82 °C
Specification	Gasket	Joggle Pin	Joggle Pin
Application	LAND ROVER	CITROËN PEUGEOT	CITROËN PEUGEOT

Thermal Management



D1	54
A	23
42	-

Short Code	207.82	207.87	207.92
Part Number	2MT-002570-011	2MT-002580-011	2MT-002617-011
Temperature	82 °C	87 °C	92 °C
Specification	Hole	Hole	Hole
Application	GM MAN	AUDI FAT JEEP OPEL SEAT SHOOA VW	GM OPEL



D1	48
A	185
42	-

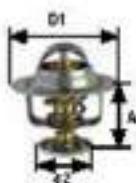


D1	54
A	23
42	-

Short Code	VT217.82	VT21.92	VT21.874
Part Number	2MT-002572-011	2MT-002620-011	2MT-002571-011
Temperature	82 °C	92 °C	76 °C
Specification	Gasket	Gasket	Gasket - Joggle Pin
Application	CHEVROLET OPEL	GM OPEL	JAGUAR LAND ROVER

Cross reference numbers and OE reference numbers are listed in page ????????????????





Legend



Temperature at which thermostat starts to open.



Thermostat can be used for trucks.



Gasket included



Offset valve

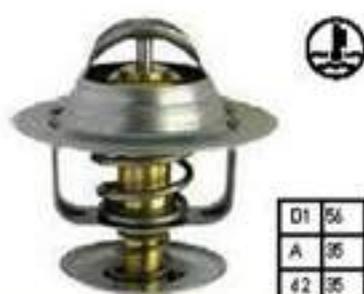


D1	54
A	35.7
42	27

Short Code	220.76	220.82	220.88
Part Number	2MT-002604-011	2MT-002611-011	2MT-002599-011
Temperature	76 °C	82 °C	88 °C
Specification	Jiggle Pin - Valve	Jiggle Pin - Valve	Jiggle Pin - Valve
Application	MINISUBISHI	MINISUBISHI	FORD LAND ROVER NISSAN



D1	40.3
A	30.3
42	30



D1	56
A	36
42	35



D1	67
A	25.5
42	35

Short Code	VT221.82	223.82	226.80
Part Number	2MT-002589-011	2MT-002607-011	2MT-002260-011
Temperature	82 °C	82 °C	80 °C
Specification	Gasket	-	-
Application	GM OPEL	FAT	AUDI BMW MERCEDES OPEL



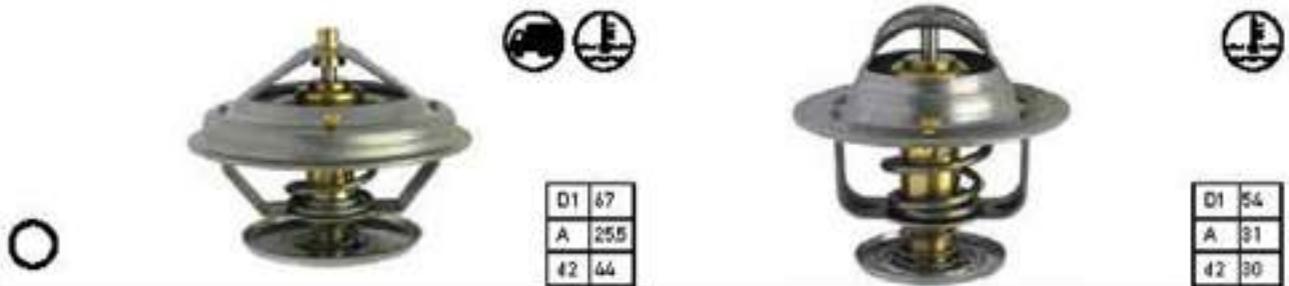
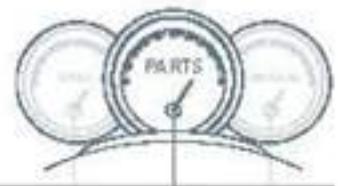
D1	67
A	25.5
42	35



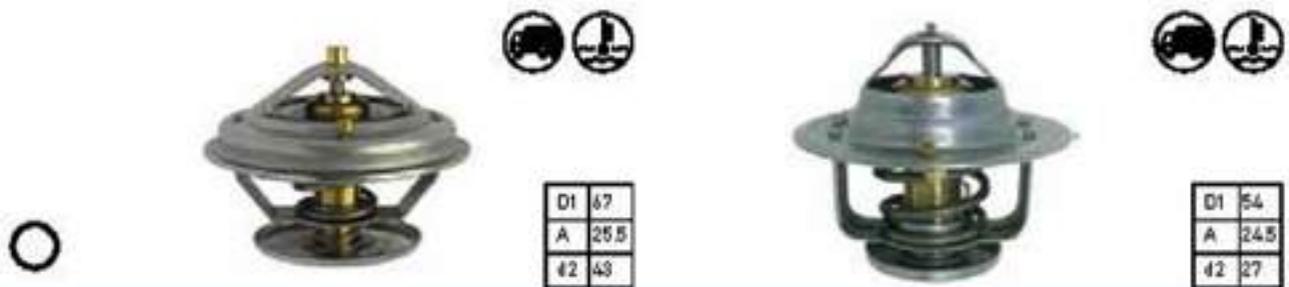
D1	67
A	25.5
42	35

Short Code	VT225.80	VT225.87	VT225.92	229.87
Part Number	2MT-002574-011	2MT-002618-011	2MT-002630-011	2MT-002592-011
Temperature	80 °C	87 °C	92 °C	87 °C
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Valve
Application	AUDI FORD LAND ROVER MERCEDES OPEL PORSCHE SEAT VW	AUDI SKODA VW	AUDI SKODA VW	AUDI VOLVO VW

NOTE: Only the most common applications are listed. Visit www.hella.com or www.hella.co.za/downloads for more information.



Short Code	VT232.70	VT232.87	233.77*	233.88
Part Number	2MT-002584-011	2MT-002614-011	2MT-002434-011	2MT-002422-011
Temperature	70 °C	87 °C	77 °C	88 °C
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Jiggle Pin	Jiggle Pin
Application	MAN	DAEWOO JAGUAR MERCEDES BENZ PELJEDT RENAULT SEANGYONG VOLVO	*ALTERNATIVE FOR 233.88 IN HOT TEMPERATURE ZONES	FIAT FORD JAGUAR LAND ROVER MAZDA NISSAN SAAB VOLVO

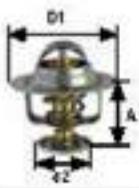


Short Code	VT234.71	VT234.75	235.79	235.82
Part Number	2MT-002443-011	2MT-002504-011	2MT-002435-011	2MT-002594-011
Temperature	71 °C	75 °C	79 °C	82 °C
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Jiggle Pin - Valve	Jiggle Pin - Valve
Application	NISSAN MERCEDES	DAF NISSAN MERCEDES	ALFA ROMEO FIAT NISSAN OPEL RENAULT	FIAT



Short Code	239.88	VT244.82	VT244.88
Part Number	2MT-002398-801	2MT-002615-011	2MT-002588-011
Temperature	88 °C	82 °C	88 °C
Specification	Jiggle Pin	Gasket - Jiggle Pin	Gasket - Jiggle Pin
Application	FORD	SUZUKI	FORD

Cross reference numbers and OE reference numbers are listed in Chapter 5



Legend



Temperature at which thermostat starts to open.



Thermostat can be used for trucks.



Gasket included



Offset valve



D1	26.1
A	52.5
42	-



D1	40
A	18.5
42	-

Short Code	245.87	267.75	267.86
Part Number	2MT-002627-011	2MT-002598-011	2MT-002604-011
Temperature	87 °C	75 °C	86 °C
Specification	-	Hole	Hole
Application	AUDI SEAT SKODA VW	RENAULT	RENAULT



D1	59.5
A	29
42	-



D1	52
A	34.5
42	27

Short Code	252.82	VT 253.77	VT 253.88
Part Number	2MT-002626-011	2MT-002582-011	2MT-002578-011
Temperature	82 °C	77 °C	88 °C
Specification	-	Gasket - Jiggle Pin	Gasket - Jiggle Pin
Application	CITROËN PEUGEOT	HONDA ROVER	TOYOTA VW



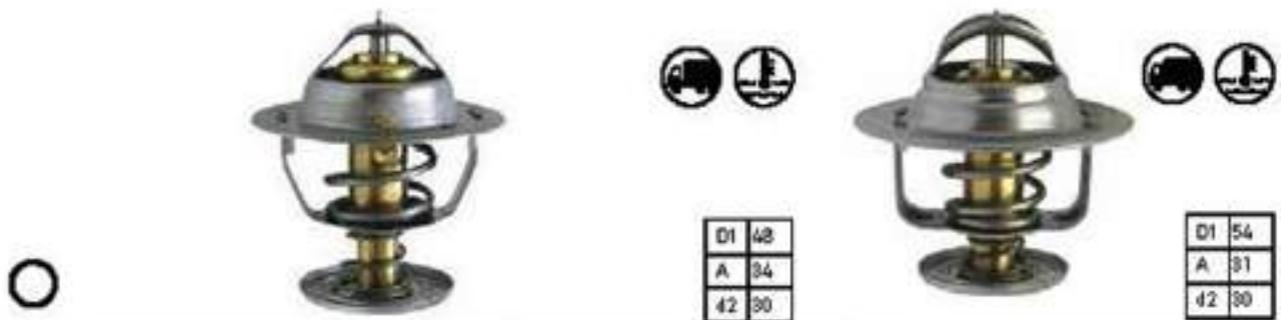
D1	52
A	23
42	-



D1	40.8
A	30.5
42	30

Short Code	254.75*	254.82	254.88	VT361.87
Part Number	2MT-002633-011	2MT-002575-011	2MT-002577-011	2MT-003618-701
Temperature	75 °C	82 °C	88 °C	87 °C
Specification	Jiggle Pin	Jiggle Pin	Jiggle Pin	Gasket -
Application	TOYOTA *ALTERNATIVE FOR 254.82 IN HOT TEMPERATURE ZONES	DAIHATSU HONDA HYUNDAI KIA MAZDA MITSUBISHI SUZUKI TOYOTA	CHRYSLER DAIHATSU FORD HYUNDAI KIA MAZDA SUZUKI TOYOTA	GM OPEL

NOTE: Only the most common applications are listed. Visit www.hella.com or www.hella.co.za/downloads for more information.



Short Code	VT256.75	VT256.82	258.75
Part Number	2MT-002621-011	2MT-002568-011	2MT-002608-011
Temperature	75 °C	82 °C	75 °C
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Hide
Application	NISSAN	DAIHATSU HYUNDAI KIA NISSAN TOYOTA VW	VOLVO



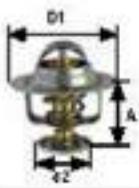
Short Code	260.82	VT264.82	264.84
Part Number	2MT-002631-011	2MT-002625-011	2MT-002596-011
Temperature	82 °C	82 °C	84 °C
Specification	Jiggle Pin	Gasket - Jiggle Pin	Jiggle Pin
Application	GM SUZUKI NISSAN OPEL SUBARU	MAZDA NISSAN SUBARU SUZUKI	NISSAN SUBARU SUZUKI



Short Code	265.82	VT271.89	VT281.85
Part Number	2MT-002637-011	2MT-002628-011	2MT-002626-011
Temperature	82 °C	89 °C	85 °C
Specification	Jiggle Pin	Gasket - Valve	Gasket - Jiggle Pin
Application	FORD	GM NISSAN OPEL RENAULT	DAEWOO MERCEDES BENZ SSANGYONG

Cross reference numbers and OE reference numbers are listed in Chapter 5





Legend



Temperature at which thermostat starts to open.



Thermostat can be used for trucks.



Gasket included



Offset valve



D1	54
A	33.5
42	30



D1	54
A	31
42	35

Short Code	284.82	VT288.80	VT288.82	VT288.87
Part Number	2MT-002579-011	2MT-002573-011	2MT-002590-011	2MT-002585-011
Temperature	82 °C	80 °C	82 °C	87 °C
Specification	Jiggle Pin	Gasket	Gasket	Gasket
Application	FORD SUBU OPEL	AUDI OPEL FORSCHE SEAT CATERPILLAR VW	CHEVROLET OPEL	AUDI FORD OPEL SEAT SKODA VOLVO VW

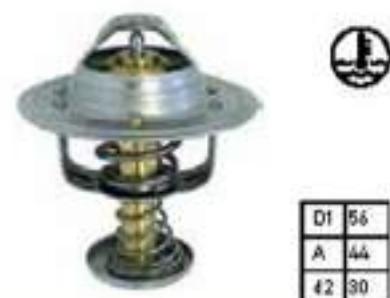


Service Kit

D1	38.5
A	-
42	-



D1	52
A	41
42	27



D1	56
A	44
42	30

Short Code	VT297.92	300.82	301.82
Part Number	2MT-002446-021	2MT-002600-011	2MT-002440-011
Temperature	92 °C	82 °C	82 °C
Specification	Gasket	Jiggle Pin	Jiggle Pin
Application	GM FIAT OPEL	FORD MAZDA	LEBUS NISSAN TOYOTA



D1	52
A	42
42	32



D1	38.5
A	-
42	-

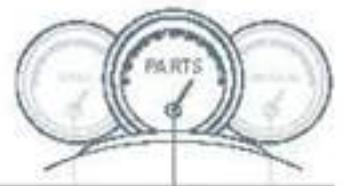


D1	54
A	33
42	30

Short Code	VT305.88	VT313.92	316.82
Part Number	2MT-002629-011	2MT-002646-011	2MT-002605-011
Temperature	88 °C	92 °C	82 °C
Specification	Gasket - Jiggle Pin - Valve	Gasket	Jiggle Pin
Application	LAND ROVER MERCEDES	GM FIAT OPEL	HYUNDAI

NOTE: Service Kit VT297.92 fits into the housing of VT313.92

NOTE: Only the most common applications are listed. Visit www.hella.com or www.hella.co.za/downloads for more information.



D1	52
A	23
42	-

D1	-
A	-
42	-

Short Code	317.75*	317.82	317.88	321.88
Part Number	2MT-002577-011	2MT-002549-011	2MT-002576-011	2MT-002642-011
Temperature	75 °C	82 °C	88 °C	88 °C
Specification	-	-	-	-
Application	*ALTERNATIVE FOR 317.82 IN HOT TEMPERATURE ZONES	SUZUKI TOYOTA	LAND ROVER ROVER	FIAT LANCIA



D1	54
A	33
42	35

D1	285
A	-
42	-

Short Code	VT318.82	VT318.88	VT326.87
Part Number	2MT-002591-011	2MT-002638-011	2MT-002593-011
Temperature	82 °C	88 °C	87 °C
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Gasket
Application	GM ISUZU OPEL VW	VW	FIAT LANCIA



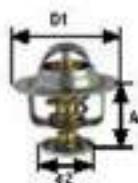
D1	40.3
A	30.3
42	30

D1	40.3
A	30.3
42	30

D1	73
A	38
42	31

Short Code	VT327.82	VT328.87	VT355.82
Part Number	2MT-002601-011	2MT-002616-011	2MT-00358-201
Temperature	82 °C	87 °C	82 °C
Specification	Gasket	Gasket	Gasket
Application	CHEVROLET OPEL	CHEVROLET OPEL	DAIHATSU TOYOTA

Cross reference numbers and OE reference numbers are listed in Chapter 5



Legend



Temperature at which thermostat starts to open.



Thermostat can be used for trucks.



Gasket included



Offset valve



Short Code	VT390.87	VT399.92	VT217.87
Part Number	2MT-003908-701	2MT-003999-201	2MT-002178-701
Temperature	87 °C	92 °C	87 °C
Specification	Gasket	Gasket - Jiggle Pin	Gasket
Application	FIAT LANCIA	OPEL	GM AUDI VW SEAT

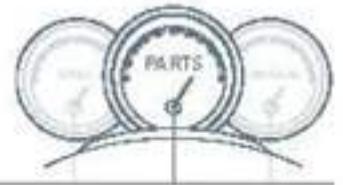


Short Code	VT 226.80	VT232.80	VT 233.82
Part Number	2MT-002268-001	2MT-002308-001	2MT-002338-201
Temperature	80 °C	80 °C	82 °C
Specification	Gasket	Gasket - Jiggle Pin	Gasket - Jiggle Pin
Application	VW AUDI OPEL MERCEDES	MAN IVECO PULG EDT VOLVO	FIAT NISSAN ISUZU MAZDA



Short Code	VT291.87	VT301.82	VT381.82
Part Number	2MT-002918-701	2MT-003018-201	2MT-003818-201
Temperature	87 °C	82 °C	82 °C
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Gasket - Jiggle Pin
Application	MERCEDES	NISSAN TOYOTA MITSUBISHI	TOYOTA

NOTE: Only the most common applications are listed. Visit www.hella.com or www.hella.co.za/downloads for more information.



D1	-
A	-
42	-



D1	56
A	83.5
42	30



D1	64
A	43
42	30

Short Code	VT391.92	VT424.82	VT443.82
Part Number	2MT-00391 9-201	2MT-00424 8-201	2MT-00443 8-201
Temperature	92 °C	82 °C	82 °C
Specification	Gasket	Gasket - Jiggle Pin - Valve	Gasket - Jiggle Pin
Application	FIAT GM OPEL	TOYOTA	OPEL TOYOTA KIA NISSAN



D1	64
A	-
42	-



D1	-
A	-
42	-



D1	-
A	-
42	-

Short Code	VT452.82	VT461.92	VT498.95
Part Number	2MT-00452 8-201	2MT-00461 9-201	2MT-00498 9-501
Temperature	82 °C	92 °C	95 °C
Specification	Gasket	Gasket	Gasket
Application	GM OPEL	OPEL SAAB VOLKSWAGEN	BMW

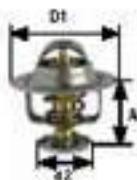


D1	-
A	-
42	-



D1	-
A	-
42	-

Short Code	VT499.95	VT504.89
Part Number	2MT-00499 9-501	2MT-00504 8-901
Temperature	95 °C	89 °C
Specification	Gasket	Gasket
Application	BMW	BMW



Legend



Temperature at which thermostat starts to open.

Thermostat can be used for trucks.



Gasket included

Offset valve

Cross reference numbers and OE reference numbers are listed in Chapter 5

NOTE: Only the most common applications are listed. Visit www.hella.com or www.hella.co.za/downloads for more information.



HELLA GUTMANN

S O L U T I O N S



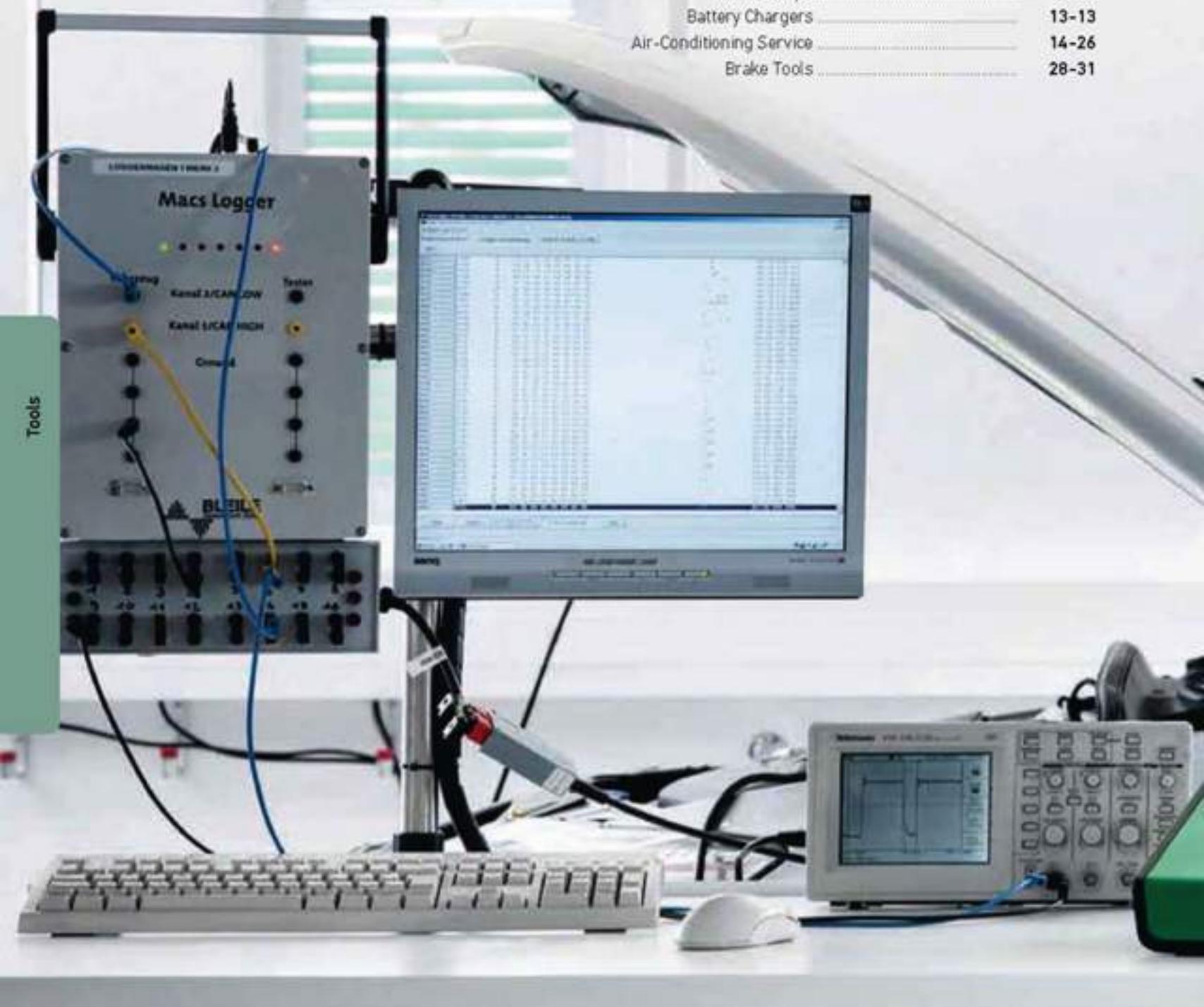
PROFESSIONAL REPAIR SHOP EQUIPMENT

www.hella-gutmann.com
www.hella.co.za/downloads



3. Tools - HELLA Gutmann Solutions Contents

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Tools



Superior Tools. Efficient Repairs.

Expertise with Tradition. With HELLA headlight beam setters, you can check any headlight system: DE, xenon, halogen and LED. They deliver optimum alignment for main headlights, auxiliary headlights and fog lights. Their use is not restricted to passenger cars, they can also be used to check commercial vehicles, motorbikes, agricultural vehicles and other types.

We also offer a wide range of engine-checks and other testers – with a service bonus! HELLA tools and units are easy to use and will last well into the future. And if you would like to cast light into darkness: HELLA always delivers optimum visibility with its wide range of robust hand lamps and workshop lamps.

Our tools are characterised by precision, comfort and ease of use. The best tools for fast and safe repairs. Day in, day out.



S O L U T I O N S



HELLA Gutmann Solutions

The Best of the Best

Those who want to earn plenty of money in their repair shops need everything to be top quality: fast vehicle identification, reliable vehicle diagnostics, a comprehensive supply of data and components, as well as professional support for repairs in the event of any tricky problems. The range of tool kits available from HELLA GUTMANN SOLUTIONS is perfectly designed to suit the needs of modern automotive repair shops.

HELLA GUTMANN SOLUTIONS was formed in 2008 as a joint venture between HELLA KGaA Hueck & Co. and Gutmann Messtechnik GmbH. With 480 employees in Germany and Europe, the company has become one of the leading providers of solutions in the field of vehicle diagnostics and repair – irrespective of the manufacturer. With many years of experience and practical support, first-class diagnostic technology and fair pricing models, products by HELLA GUTMANN SOLUTIONS are the preferred all-inclusive package of many repair shops worldwide.

The Right Solution for Any Requirement

HELLA GUTMANN SOLUTIONS has the perfect diagnostic units to deal with whatever challenges may crop up in any repair shop environment. Whether it's a mobile secondary device for detecting errors or conducting German exhaust-emission analysis based on legal regulations, or even a multi-function station to suit all requirements, Hella Gutmann customers can relax in the knowledge that they always have the choice.

And that's by no means the end of the story! In addition to the outstanding hardware on offer, Hella Gutmann also provides the best possible service for even quicker repairs.



Testing and Adjustment Tools

Well-Conceived Tools that Make Your Work even More Profitable

At Hella Gutmann Solutions, along with high-performance multi-brand diagnostic units for any requirement, you also receive first-class tools and accessory parts that make daily work in the repair shop considerably more simple.

For example, headlight aiming devices that work optimally with all modern headlight systems, a tool for managing the tyre pressure sensors, or a suitable multi-brand system for calibrating advanced driver assistance systems.



Part Number Short code
8PD-003798-021 HG8021

SLD-TOOL

Whether in terms of leaks in one of the many closed vehicle systems or whistling noises in the cabin that cannot be precisely located, finding leaks places a strain on your time, your money and of course your nerves. It is also very difficult or even impossible for the costs for these tedious and often fruitless searches to be passed on to the customer, which is an additional source of frustration.

The SLD-Tool (Smoke Leak Detection Tool) is your reliable assistant for detecting leaks in nearly all closed systems in the vehicle, including the cabin. The special oil mist UltraTraceUV® is offset with a UV contrast agent. This ensures that the leak is marked and identified in no time. This therefore keeps your work time to a minimum.

Advantages at a glance

- Low weight for convenient handling
- Robust, repair shop-suitable casing
- Precision by using contrast agent
- Well legible vacuum and pressure indicator
- Portable
- OE-compatible
- Test mode without smoke infeed
- Flowmeter for determining the size of leaks
- Controllable amount of smoke
- Comprehensive accessory parts
- Patented technology
- etc.



Part Number Short code
8PD-010601-921 HG2301

TPM TOOL

Since 1 November 2014, all newly registered vehicles within the EU must have a deflation detection system. Another step for more safety on the road and a new challenge for repair shops that have to be able to handle the different systems.

The tyre pressure management tool, abbreviated TPM Tool, is the compact, cost-effective and high-performance solution used by repair shops to have the deflation detection systems (DDS) of all relevant brands under control. Reading out the necessary data is just as easy as programming and initialising sensors or recalibration.

Advantages at a glance

- Programming all relevant universal sensors and OE sensors
- Initialising, testing and cloning sensors/systems
- Determining battery status, sensor ID and temperature directly on the wheel
- Documentation function
- Managing on the device and computer software
- Transfer to computer via Bluetooth, USB, WLAN
- Technical data (torques, part numbers, sensor data, instructions)
- Remotely operated diagnostics for remote test
- Reading fault codes
- And much more



Part Number Short code
8PD-009734-041 **HG4041**

BPC TOOL

Current reports indicate that around 72 % of all electrical damage to the vehicle can be traced back to malfunctions and failures in the battery. Frequently at fault are high thermal loads, frequent short drives and, of course, the increasing amount of electronics and ECUs in the vehicles. Standstills due to defective batteries can affect anyone. However, they hit owners of vehicles with start/stop systems particularly hard, as replacing a battery in these is a very costly process. Replacing batteries on mere suspicion of damage cannot be justified without identifiable reasons. With the Battery Power Check Tool, abbreviated BPC Tool, Hella Gutmann Solutions introduces a battery tester which can do much more than just show the current state of charge. Together with mega macs 66 or mega macs PC, the BPC Tool is an essential aid for repair shops and roadside assistance services who want to work quickly, efficiently and cost-effectively when dealing with battery management systems.

Advantages at a glance

- Test results without the need to uninstall the battery
- Suitable for use with lead-acid batteries, EFB batteries, AGM batteries and gel batteries
- Reverse-polarity protection
- Permissible ambient temperature (-10°C to 50°C)
- Splash-proof (IP 54)
- Illuminated display
- Different language options available
- Can be combined with the mega macs 66 and the mega macs PC
- Battery voltage (V)
- Cold cranking amps
- Current in amps (0.01 A to 700 A)*
- Battery state of charge (%)

* only with optional current clamp



Part Number Short code
8PD-010601-911 **HG1911**

CSC TOOL

An increasing number of advanced driver assistance systems in vehicles make roads safer and travelling more comfortable. Initially used in the premium segment, these camera and radar systems spread to other segments – including mid-class and compact class vehicles – some time ago. But repair shops are now faced with new challenges in being able to inspect and calibrate these systems properly. The convenient and high-performance solution for repair shops is the Camera & Sensor Calibration Tool (abbreviated CSC Tool) from Hella Gutmann Solutions.

Advantages at a glance

- Documentation of adjustment/calibration via hard-copy printout and in car history
- No wheel alignment station necessary
- Option to adjust to different camera and radar systems
- Attractive pricing model
- Ease of use
- Excellent measuring accuracy
- Robust and durable
- Individually configurable
- Upgradeable at any time
- Special packages for glass specialists and body repair shops
- Compatible with the diagnostic units of the mega macs family

Headlight Aiming Devices

Headlights that are aimed precisely are essential for the safety of all road users. Unfortunately, the regular light check campaigns show that every third car on average has defects in the lighting system. Some headlights are aimed too high, while other

vehicles drive around with virtually no lights at all, leaving a great deal for repair shops to do when it comes to making them safe for use on the road. That said, it also provides excellent opportunities for them to increase their turnover.



Part Number Short code
8PA-007732-401 **HG4041**

SEG V – A REAL EYE-CATCHER

The latest generation of this device brings together the comprehensive knowledge put forward by diagnostics and lighting experts. Using the 8.4" touch display which faces the user, it has never been easier, clearer or more intuitive to control all of the functions of the SEG V. Precise vehicle identification takes place in "car history". The CMOS camera catches the light distribution of the headlight and transmits it to the electronic system for evaluation. The light distribution is then depicted together with specific data on the screen in almost no time. It is also possible to enter vehicle-specific data prior to the measurement using the software, which is similar to the mega macs series. Quick tests without entering data are possible, too. After the measurement, the recorded measurement data can be transmitted to peripheral devices via the USB interface.



Part Number Short code
8PA-007732-301 **HG2301**

(SEG IV DL)

Part Number Short code
8PA-007732-311 **HG2311**

(SEG IV DLLX)

SEG IV – SUITABLE FOR ALL SYSTEMS

The whole range of existing headlight systems – such as halogen headlights, xenon headlights, LED headlights and systems with high beam assist (vertical light/dark boundary) – can be checked and adjusted precisely thanks to the new scaling on the test screen of the SEG IV.



Part Number Short code
8PA-006796-071 **HG6071**

SEG ECONOMY – OUTSTANDING PERFORMANCE EVEN IN THE STANDARD VERSION

Aiming headlights is not your main business but, despite that, you're looking for optimal quality at a fair price without having to compromise on essential performance features. If this is the case, then the SEG Economy is the device for you.



OVERVIEW

SEG V

SEG IV-DLLX

SEG IV-DL

SEG Economy

Digital luxometer	+	+	+	+
Broadband sight	+*	+*	+	+
Deflecting mirror		+	+	
Fresnel lens	+	+	+	+
Laser positioning aid		+	+	
Level gauge / eccentric shaft for tilt adjustment	+	+		
Rotating post for directing the beamsetter box	+	+	+	
Suitable for rails	+	+	+	
8.4" touch display	+			
Vehicle identification with car history	+			
USB interface	+			
WLAN preparation	+			
Can be updated	+			
CSC Tool compatible	+	+		
Polymer concrete base with rollers	+	+	+	
Suitable for calibration with an adjustment device from the manufacturer	+	+	+	+

* Laser sight

*Her name: Lucy
Her passion: Cars
Her mission: Finding the best way
to keep repair shop customers satisfied*





Hand Lamps More Variety From The Pros

To make life in the repair shop that bit easier, Hella Gutmann Solutions has put together a range of hand lamps and repair shop lights to suit all requirements. The hand lamps are fitted with the latest LED technology and feature different lengths, light outputs and properties. Make sure your day runs as smoothly as possible with large-scale lighting provided by robust and durable repair shop lights.

Environment and energy

- As part of its company guidelines, Hella Gutmann Solutions has committed itself to operating in a way that is economically sustainable and conducive to continuous reductions in energy
- All hand lamps meet these criteria and have been designed in line with state-of-the-art environmental and energy technology
- Less waste and lower costs in comparison to disposable hand lamps

Model testing

All hand lamps comply with CE standards. This means that they comply with EN 60598-1 and EN 60598-2-8 requirements.

Hand Lamps



Part Number Short code
2XM-001974-301 HG4301

HL 1.1-168

Universal battery-operated miniature pen light unit

- Small and handy design with pocket clip
- Choose between work light and spotlight
- Robust rubber surface for ergonomic and secure grip
- Compact design for locations that are difficult to access
- Integrated solenoid
- Environmentally-friendly battery technology

TECHNICAL DATA

Hardware	Scope of functions
Light source	Main light: 7 x PLCC2 SMD LEDs = 0.6 W; Spotlight: 0.5 W
Luminous flux	Main light: 60 lm; spotlight: 15 lm
Light output	Main light: 500 lux; spotlight: 100 lux
Input voltage	100 to 240 V AC / 50 to 60 Hz
Luminescent time	Main light: 4 hours; spotlight: 5 hours
Output voltage	4.2 V DC / 0.3 A
Charging time	3 hours
Operating temperature	-10 to +40°C
Dimensions	823 x 168 mm
Weight	55 g
Protection class	IP20
Battery	3.7 V / 750 mAh lithium-ion



Part Number Short code
2XM-001974-311 HG4311

HL 1.3-120

Multifunctional hand lamp with the latest COB LED technology

- Powerful and completely consistent lighting
- Ultra-slim pocket-size design
- Integrated magnetic holder and retractable hook
- Flexible light unit head – 180° articulated
- Two-stage switch for adjusting to the type and duration of work:
Level 1 = 50%, level 2 = 100% light output

TECHNICAL DATA

Hardware	Scope of functions
Light source	1.3 W COB LED
Lighting levels	Level 1: 55 lm / level 2: 110 lm
Light output	Level 1: 130 lux @ 50 cm Level 2: 260 lux @ 50 cm
Colour temperature	6000 kelvins
Luminescent time	Level 1: 5 hours / level 2: 2.5 hours
Input voltage	100 to 240 V AC / 50 to 60 Hz
Output voltage	5 V DC / 1 A (charger)
Charging time	2.5 hours
Operating temperature	-10 to +40°C
Dimensions	120 x 59 x 25 mm
Weight	112 g
Protection class	IP20
Battery	3.7 V / 1000 mAh lithium-ion
Accessory parts	Charger for 12/24 V vehicles: BEN 001 974-401



Part Number Short code
2XM-001974-321 HG4321

HL 2.4-190

High-performance COB LED battery light

- Powerful and completely consistent lighting
- With rotatable hook and built-in solenoids
- Flexible light unit head, 180° articulated
- Featuring intelligent battery charge indicator
- Charger station with solenoid
- Two-stage switch for adjusting to the type and duration of work:
Level 1 = 50%, level 2 = 100% light output

TECHNICAL DATA

Hardware	Scope of functions
Light source	2.4 W COB LED
Lighting levels	Level 1: 100 lm / level 2: 200 lm
Light output	Level 1: 250 lux @ 50 cm Level 2: 450 lux @ 50 cm
Luminescent time	Level 1: 6 hours / level 2: 3 hours
Input voltage	100 to 240 V AC / 50 to 60 Hz
Output voltage	5 V DC / 1 A (charger)
Charging time	4 hours
Operating temperature	-10 to +40°C
Dimensions	63 x 190 x 38 mm
Weight	290 g
Protection class	IP65
Battery	3.7 V / 2200mAh lithium-ion
Accessory parts	Charger for 12/24 V vehicles: 8BN 001 974-401



Part Number Short code
2XM-001974-331 HG4331

HL 20-235R

Chargeable 20 W COB LED work light for professional users

- This rechargeable work light offers complete flexibility and freedom of movement
- 2 lighting levels
- Uniform and completely consistent lighting with only one shadow
- High CRI (Colour Rendering Index) value
- Extremely robust

TECHNICAL DATA

Hardware	Scope of functions
Light source	20W HIGH CRI COB LED
Lighting levels	Level 1: 800 lm (6 hours) Level 2: 1600 lm (3 hours)
Light output	1700/3000 lux @ 50 cm
Colour temperature	6000 kelvins
LED service life	min. 100,000 hours
Input voltage	100 to 240 V AC
Output voltage	12.6 V / 1800 mA
Charging time	3 hours
Cables	5 m (2 x 1.0 mm 2HD5RN-F)
Operating temperature	-10 to +40°C
Dimensions	220 x 235 x 75 mm
Weight	2140 g
Protection class	IP67
Battery	11.1 V / 4400mAh
Accessory parts	Tripod: 8XT001 974-411 and Bracket: 8HG 001 974-421



Part Number Short code
2XM 001 974-341 HG4341

HL 30-274

30 W COB LED > work light for professional users

- High-performance and completely consistent light
- Robust casing made from aluminium casting in a sleek, elegant design
- Flexible tripod: Easy to rotate and mount the light to ensure the optimum lighting angle
- Handle can also be used to roll up cable

TECHNICAL DATA	
Hardware	Scope of functions
Light source	30 W HIGH CRI COB LED
Lighting level	3300 lumens
Light output	5000 lux @ 50 cm
Colour temperature	6000 kelvins
LED service life	min. 100,000 hours
Voltage	100-240 V AC / 50-60 Hz
Cables	5 m (2 x 1.0 mm 2HD5RN-F)
Operating temperature	-10 to +40°C
Dimensions	281 x 274 x 76.5 mm
Weight	2800 g
Protection class	IP67
Accessory parts	Tripod: 8XT001 974-411 and Bracket: 8HG 001 974-431



Part Number Short code
2XM-001974-351 HG4351

HL 10-1042 R

Engine compartment light for extremely bright illumination of the entire engine compartment

- Range of applications using a battery or mains plug
- Slim, compact design (a only 25 mm)
- Light, pleasant and flicker-free illumination wrapped up in an illumination angle of 7.5°
- 75% brighter than conventional fluorescent tubes
- Adjustable telescopic support (1.2-1.7 m) with soft cover

TECHNICAL DATA	
Hardware	Scope of functions
Light source	120 SMD LEDs
Lighting level	700 lumens
Light output	900 lux @ 50 cm
Lighting angle	7.5°
Colour temperature	6000 kelvins
Luminescent time	1 hour
Charging time	4 hours
Input voltage	100-240 V AC, 50/60 Hz
Output voltage	9.4 V DC / 1400 mAh
Cables	5 m (2 x 1.0 mm 2HD5RN-F)
Operating temperature	-10 to +40°C
Battery	7.4 V / 1400 mAh lithium-ion
Dimensions	Ø 25 x 104.2 mm
Weight	1550 g
Protection class	IP54



Part Number Short code
2XM-001974-251 HG4251

LED INSPECTION LAMPS WITH STRIPE TECHNOLOGY

The wireless LED hand lamp with charging station provides uniform lighting thanks to its LED stripe technology. The casing is extremely robust thanks to its solid rubber design. Includes a soft-touch switch, fold-out hook and an integrated charging indicator.

Features

- State-of-the-art lighting with stripe technology
- Wireless operation with charging station – always accessible and can be used anywhere
- Current consumption kept to a minimum

Technical data	
High-performance LED	25 W
500 lux	At a distance of 1 m
Type of protection	IP54
Lithium-ion battery	3.7 V, 3900 mAh
Luminescent time	5.5 hours
Charging time	Approx. 4 hours (the battery is already 80% charged after 1 hour)



Part Number Short code
2XM-001974-181 HG4181

SWAN-NECK INSPECTION LAMPS WITH LED TECHNOLOGY

Features

- Black aluminium casing with flexible swan neck
- Continuous operation of up to 60 hours*
- Dustproof and waterproof

Length: 345 mm; folded: 172 mm

Complete with a white, unbreakable LED and three (AAAA) batteries.

Battery Chargers

To save customers from the nasty surprise of having their battery fail, batteries should always be tested as part of the vehicle evaluation. This service increases levels of customer satisfaction and offers a clear increase in turnover.

Don't waste time – take advantage of this potential with battery chargers from Hella Gutmann Solutions to make your customers even happier and boost your additional turnover.



Part Number Short code
8ES-0044 17-261 HG7261

70 A HIGH-FREQUENCY CHARGER

The 70 A high-frequency charger is a robust charging device for use in professional repair shop applications involving 12 and 24 V batteries within vehicles. It is clear and easy to operate. The status is indicated using LEDs and the four-part display. The charging current can be adjusted to suit the size of the batteries. The charger can be connected while the vehicle is being serviced to offset the power drain.

TECHNICAL DATA

Areas of application	12 V / 24 V lead-acid batteries, AGM and gel batteries
Power	6.3-4.4 A RMS
Output current	70 A / 35 A (max. 30 s)
Max. continuous current	50 A / 25 A
Charging voltage	Max. 15.8 V / 31.6 V
Battery capacity	40-1500 Ah - 12 V; 20-750 Ah - 24 V
LED indicator	Charging status, charging voltage, charging current, charging time (h) and energy (Ah)
Weight	Approx. 3600 g
Dimensions	332 mm x 178 mm x 80 mm
Protection class	IP20
CE approved	



Part Number Short code
8ES-0044 17-081 HG7081

7 A HIGH-FREQUENCY CHARGER

The new, fully-automatic 7 A high-frequency charger with an 8-level charging characteristic is the perfect match for caravans, motor homes, boats and passenger cars. And with an LED indicator and capacitive push-button, it's also safe and easy to operate. A special reconditioning function restores exhaustive discharge batteries with stratified acid, while the charger also boasts a unique trickle charging function, a mode to optimise charging on cold winter days, and even the ability to charge sophisticated AGM batteries. With trickle-charge function. Suitable for battery capacities from 14-150 Ah. For 12 V lead-acid (wet, maintenance-free, Ca/Ca), AGM and gel batteries.

TECHNICAL DATA

220-240 V AC	50-60 Hz
Voltage	12 V
Charging current	7 A
Charging characteristic	8 stage
Battery capacity	14-150 Ah up to 225 Ah for trickle charging
Display	LED
Type of protection	IP65
Dimensions	Approx. 200 mm x 60 mm x 80 mm
Weight	Approx. 800 g
CE approved	



Air-Conditioning Service Husky – The Air-Conditioning Service Professionals for R134A and R1234YF

Long service life, performance and the perfect adaptation to environmental conditions are essential features of the Husky series. And these are precisely the attributes which make the Huskys from Hella Gutmann Solutions absolutely indispensable for professional air-conditioning services in repair shop environments. The robust metal housing and ergonomic design were specially developed for these environments and guarantee a long service life with a high level of operating convenience.

Available for all vehicles

The stations in the Husky series allow repair shops to carry out air-conditioning services for all conventional vehicles quickly, reliably and without a hitch. What's more, when it comes to the special requirements of air-conditioning services for electric and hybrid vehicles, the Husky stations either come pre-equipped with the necessary functions or can be upgraded as an option.

Maintaining a clear view of everything

Depending on the equipment package, the Husky series is equipped with a high-quality 4.3" colour display or a generous 15" touch screen display to illustrate technical processes with detailed graphics. Thanks to the self-explanatory and clear menu structure, all work is able to be performed intuitively and quickly. To enable clear communication between the mechanic and Husky, every single one of our stations speaks 26 languages – including Chinese.

Find leaks instead of looking for them

Instead of spending an age looking for leaks in refrigerant circuits, let Husky help you. The automatic UV tracer dye filling system installed in every Husky automatically selects the correct filling quantity for the selected refrigerant quantity, meaning that there is nothing to prevent leaks from being detected visually should one occur. The use of forming gas is, however, much more

effective. Many Husky stations are equipped with a connection for forming gas/nitrogen and also have an automatic pressure test. High-precision pressure sensors indicate any drop in pressure. When combined with an electronic forming gas leak-detection device, this is a simple and effective method for identifying and dealing with even the smallest leaks in no time at all.

Simple maintenance

Husky stations are designed to allow mechanics to change the filters, carry out vacuum pump services and check the balances themselves, saving valuable time and money. What's more, many of our Husky stations are suitable for remote maintenance assistance and can be tested and serviced via the Internet and hotline support.

Proven success

Taking a temperature measurement before and after the repair is the best way to clearly demonstrate to the customer that the actions performed were worthwhile and necessary. To this end, Husky stations are equipped with a five-metre-long temperature probe and the option is even available to add a radio thermometer. The measurement results are recorded and made available to print.

Air-Conditioning Service



HUSKY SERIES FOR R134A

Easy to convert

As of 2011, it is only permitted to use refrigerants with a GWP value of less than 150 in new type-tested vehicles (class M1). From 2017, this regulation will also apply to all vehicles approved for use in Europe.

All air-conditioning service devices in the Husky series for R134a can be converted at the factory into R1234yf devices as required using the appropriate kit. This ensures that repair shops are ideally equipped for future requests relating to air-conditioning service devices.

Well connected

Many Husky air-conditioning service devices can be equipped with a wireless network interface, making them ideal for integration into the repair shop network.

Part Number Short code
8PS-179500-201 **HG0201**
 (Husky 150)

Husky 150

The high-performance and upgradable starter air-conditioning service station for R134a impresses with a range of performance features that can otherwise only be found in the premium class and include a colour display and USB port. Ideal for user-friendly and professional air-conditioning servicing.

Part Number Short code
8PS-179500-021 **HG0021**
 (Husky 300)

Husky 300

The high-performance R134a air-conditioning service station with integrated nitrogen/forming gas leak test for conventional vehicles as well as electric and hybrid vehicles.

"A Husky makes a great impression in any repair shop."





HUSKY SERIES FOR R1234YF

The air-conditioning service experts for R1234yf

The Huskys in the 3000 series are the perfect first step on the ladder for all repair shops looking for a high-quality air-conditioning servicing device to deal with the growing demand for air-conditioning services for vehicles with the new R1234yf refrigerant. Also available as an upgrade for vehicles with alternative drive systems, they have all the features you need to guarantee quick and profitable air-conditioning services.

Inclusive or optional refrigerant analysis

The R1234yf refrigerant is by no means cheap, which means its level of purity plays a key role from an economic perspective. Huskys come fitted with an integrated refrigerant module – or else the option to add this at a later stage – and this can be used to carry out a reliable refrigerant analysis before every service process. In this way, it is possible to prevent cross-contamination with unknown refrigerants from the outset and thereby avoid any additional costs that this may incur. The status of the refrigerant is shown on the display after the analysis has been performed.

The air-conditioning service only starts when the level of purity is at least 99.5%.



For those who want it all

High-precision and fully automatic – just what you can expect from Huskys in the 3000 and 3500 series from Hella Gutmann Solutions. Fully equipped with everything repair shops need in order to be able to offer a professional air-conditioning service. Many of the systems in this series meet the high expectations of the requirement specifications for the German automobile industry and continue to impress thanks to their unique level of filling accuracy, which has a positive impact on economic efficiency and ensures that the device pays for itself in no time at all.

Unbeatably accurate

As the R1234yf refrigerant is so expensive, German car manufacturers expect an extremely high level of filling accuracy of ± 15 g at an ambient temperature of 10°C to 50°C. This is where the series scores highly in every respect, achieving an unbeatable filling accuracy of ± 7 g across the entire temperature range thanks to a precision filling system which was designed in house and integrated into the service hoses. In comparison to conventional systems marketed by our competitors, this results in significant cost savings year on year.

Part Number	Short code
8PS-179501-041	HG1041
(Husky 3000)	

Husky 3000

Professional R1234yf air-conditioning service device with high-precision filling system.

Part Number	Short code
8PS-179501-051	HG1051
(Husky 3500)	

Husky 3500

High-performance R1234yf air-conditioning service device with high-precision filling system and integrated refrigerant analysis function.

FLUSHING FLUSHING WITH REFRIGERANT



Part Number Short code
8PS-351327-641 HG7641

FLUSHING DEVICE

This device supports the flushing process (R134a refrigerant) using the Hella Gutmann Solutions air-conditioning service devices. It is connected between the air-conditioning service device and the vehicle air-conditioning system. This device ensures that liquid refrigerant flows through the entire section of the air-conditioning system that is to be flushed. The transparent containers help the user to tell when the liquid refrigerant starts to flow back out of the system without any contamination, meaning that the flushing process can be stopped.



Part Number Short code
8PS-351327-631 HG7631

FLUSHING DEVICE +

This flushing device facilitates the flushing process in the air-conditioning systems in conjunction with the Hella Gutmann Solutions air-conditioning service devices. It has a detachable glass cylinder "Inspector" that can be connected individually to the air-conditioning system and allows a visual inspection of the refrigerant and the oil to be carried out.



Part Number Short code
8PS-351327-661 HG7661
(The case contains a total of
50 individual parts)

ADAPTER SET

The case contains various adapters. These are required to bypass various components, such as restrictors, when flushing the vehicle's air-conditioning system. In addition, the adapters can be used to connect the hoses from the flushing device to the various lines or components of the vehicle's air-conditioning system.



FLUSHING WITH FLUSHING FLUID



AIR-CONDITIONING SYSTEM FLUSHING KIT 100

For cleaning with flushing liquid (in conjunction with compressed air) Kit contents:

- Flushing pistol with oil and acid-resistant connection cone
- 1-litre storage bottle (pressure relief device, quick connector with pressure gauge, ventilation valve), spiral hose and wall mount (depending on the repair shop, a 1/4" adapter with a right-hand thread is also required to apply compressed air)
- 5-litre plastic tank (for collecting the flushing liquid used), connection cover, transparent hose and connection cone
- 2 mounting brackets for the cone adapter

Part Number Short code
8PE-351310-001 HG1001

ADVANTAGES AND DISADVANTAGES OF BOTH FLUSHING METHODS

		Flushing medium	
		Refrigerant	Flushing liquid
Flushing method		System components are flushed with the aid of the air-conditioning service unit and an additional flushing device with a filter and adapters (both available separately).	System components are flushed with the aid of an additional flushing device and a chemical solution. Any remaining flushing medium must be removed with nitrogen and the system must be dried with nitrogen.
Advantages		<ul style="list-style-type: none"> + No flushing medium costs + No flushing medium disposal costs + Removes loose dirt particles and oil + Method approved by various vehicle manufacturers 	<ul style="list-style-type: none"> + Removes loose and stuck-on particles and oil + Excellent cleaning results
Disadvantages		<ul style="list-style-type: none"> - No optimal cleaning effect for stuck-on contaminants - The flushing device filter element must be replaced at regular intervals - The air-conditioning service device cannot be used for other applications during use 	<ul style="list-style-type: none"> + Flushing medium costs + Flushing medium disposal costs
Air-conditioning products		<p>Air-conditioning service device</p> <p>Flushing device</p> <p>Condenser</p>	

LEAK DETECTION



UV LEAK DETECTION SYSTEM

The Pro Shot injection system injects a precise amount (3.7 ml) of dye into the air-conditioning system each time it is actuated. The accuracy of each injection prevents too much dye from being added to the air-conditioning system and you can do away with the inconvenient process of having to take measurements from a scale. The device makes it possible to inject dye up to a system pressure of 13 bar, meaning even air-conditioning systems which are full of refrigerant can be filled.

The battery-operated LED ultraviolet lamp has a high-performance LED with a service life of up to 80,000 hours depending on how it is used.

Scope of delivery

- 1 x plastic case
- 1 x injector
- 1 x cartridge
- 1 x UV LED light
- 1 x protective glasses



Part Number	Short code
8PE-185100-011	HG0011

Part Number	Short code
8PE-185100-001	HG0001
(individual injector parts with cartridge)	

Part Number	Short code
8PE-185100-021	HG1021
(cartridge)	

Part Number	Short code
8PE-185100-031	HG0031
(UV LED light with glasses)	



Part Number	Short code
8PE-351224-111	HG4111
Leak detection kit (leak detector, pressure regulator, connection hose)	

Part Number	Short code
8PE-351224-081	HG4081
Leak detector	

LEAK DETECTION WITH FORMING GAS

New legal requirements stipulate that it is no longer permitted to fill air-conditioning systems with refrigerant if they show any signs of leaks. This means that a different medium is required to search for leaks effectively. 95/5 forming gas is particularly suitable in this respect, comprising 95% nitrogen and 5% hydrogen. 95/5 forming gas is not environmentally damaging, non-flammable and non-toxic. After filling the air-conditioning system, the special leak-detection device starts searching for any leaks that may be present. As the hydrogen atoms are the absolute smallest of all the elements, this means that they only escape through the tiniest of leaks. In further contrast to the R134a refrigerant, hydrogen is lighter than air which means that all components and connections can be checked with ease from above.

Leaking evaporators can be identified by taking measurements from the air outlet jets in the centre console. What's more, there's no need to take any complicated measurements from the condensation water drain or base discharge port. Once the leak has been found, the forming gas can simply be released from the air-conditioning system into the environment.

The leak detector for forming gas responds almost exclusively to hydrogen. This is not present in the engine compartment in its pure form, which rules out any potential for cross sensitivity and makes the search process extremely reliable and effective.



Part Number	Short code
8PE-351224-071	HG4071

ELECTRONIC LEAK DETECTOR FOR REFRIGERANT

Highlights leaks by means of an audio signal and a digital display. It detects halogen gases and even discovers the tiniest of leaks in difficult-to-reach areas (e.g. in the evaporator).





CLEANING AIR-CONDITIONING SYSTEMS

An air-conditioning system can be technically flawless and yet still cause problems. By their very design, compact evaporators used today are the perfect nesting place and breeding ground for bacteria, fungi and other microorganisms which can then spread throughout a cabin via the ventilation system.

This can lead to allergic reactions such as sneezing, coughing and watering eyes for anyone sitting in these areas. It also produces a musty or even mouldy smell in the cabin.

When it comes to cleaning air-conditioning systems, Hella Gutmann Solutions has a range of different systems available.

Airsept

With the Airsept evaporator treatment, Hella Gutmann Solutions is offering a modern cleaning and disinfecting system for frequent use.

Airsept functions

- Airsept disinfects and cleans.
- Airsept covers the evaporator with an antiseptic layer and uses special Intersept salts to prevent microorganisms from regenerating.
- Airsept also increases cooling power by repelling moisture, dust and other settleings.

Airsept is used and recommended by original equipment manufacturers. Airsept is best used as a preventative measure.



AIRSEPT SERVICE SET - "PRO VERSION"

For effective disinfection and an even evaporator coating.

Scope of delivery

- Airsept applicator with atomiser
- Spray gun
- Pressure regulator for compressed air connection
- 1 bottle of Airsept plus evaporator treatment agent, OE version
- Period of protection: 3 years, 120 ml content

Part Number	Short code
8PE-351219-051	HG0051



Part Number Short code
8PE-351331-801 HG1801

EVIDIS EVAPORATOR DISINFECTION UNIT

Disinfect the evaporator surface, vehicle interior and air-conditioning system with EVIDIS, the evaporator and the interior disinfection unit from Hella Gutmann Solutions.

This is the way to eliminate unpleasant odours, bacteria and fungal infestations and thereby make sure your customers stay healthy.

The fully automatic service that quickly provides you with a bacteria and fungi-free evaporator surface, vehicle interior and air-conditioning system

- Suitable for all vehicles (passenger car, lorries, etc.) with 12 V direct current voltage
- Liquid is converted into mist (atomised) within the device
- Mist is transported via the air-conditioning system's circulation function to the evaporator's surface as well as via the ventilation channels. It also spreads throughout the vehicle interior
- Automatic shutdown once the service is complete

Scope of delivery

- 1 device
- 2 x 12 bottles of disinfectant
- 4 x 12 fragrance sticks with 2 different scents for inserting into the air outlet vents to fragrance the cabin (optional)
- 24 x mirror tags with information for the end customer about the service carried out



Part Number Short code
8PE-285100-521 HG0521

IONISER

The ioniser ensures that the vehicle interior smells fresh. The generator creates ozone inside the vehicle and distributes this throughout the interior. This is a reliable way of eliminating persistent odours. It has had proven success with smoke, mould and animal odours as well as petrol and oil, for example. Bad odours are generally caused by bacteria, fungi and viruses that can be effectively tackled with ozone.

Scope of delivery

- Ioniser
- 12 V power cable
- 230 V power cable



RECYCLE GUARD

The Recycle Guard removes dirt particles, lubricants, dyes and sealants as well as other contamination from the refrigerant during the suction process before it gets into the air-conditioning service station.

This prevents damage such as clogging and sticking at the air-conditioning service station. The Recycle Guard can be used with refrigerant both in a liquid and in gaseous state. Optimal results can be achieved if the refrigerant is extracted in a gaseous state.

We therefore recommend connecting the Recycle Guard to the vehicle connections that contain the refrigerant in a gaseous state.

Part Number Short code
8PE-351231-671 HG1671

The Recycle Guard contains a filter element which should be replaced after 30 hours of recycling/filling operation or if the extraction speed of the air-conditioning service station has slowed down significantly.



STRAINERS

Advantages

- Fewer repair issues which avoids the potential for lost profits -> ensures customer satisfaction
- Flow rate of lubricant and refrigerant not taken into consideration
- Suitable for use in nearly all vehicles
- Rapid, simple, cost-effective and excellent technical installation

To protect the compressor from damage caused by contamination, such as metal filings, Hella Gutmann Solutions has developed the strainer tool kit, which includes the following contents:

- Strainer and tools in a clear assortment box
- 20 different sizes of filter strainers (3 of each) (also available in individual sizes with 5 of each)
- Labels to identify whether the suction pipe contains a strainer

The strainers can be purchased separately in a total of 24 different sizes with 5 of each.

Part Number Short code
8PE-351231-701 HG1701

RANGES

A wide range of spare parts – to some extent vehicle specific – is required to complete service and maintenance on an air-conditioning system to a professional standard.

Scope of delivery

- Fittings
- O-rings
- Hoses
- Lockring

Hella Gutmann Solutions offers a comprehensive range of these spare parts. Further information can be found in our new catalogue which covers air-conditioning devices, tools and accessory parts.

ENGINE COOLING



RADIATOR VACUUM FILLING UNIT

- Can be used to bleed parking heaters
- Reliable and maintenance-free
- Independent from cooling system volume
- Rapid and bubble-free filling process



Part Number Short code
8PE-185103-271 HG3271
 (supplied in a solid plastic case)

Scope of delivery

- 1 x radiator vacuum filling unit
- 1 x injector
- 1 x suction and filling pipe – 1.50 m

Part Number Short code
8PE-185103-131 HG3131
 (supplied in a box)

Rubber cone set

Rubber cone set with coupling nipple for connecting to the quick coupling on the radiator vacuum filling unit.

- Rubber cone 1: Ø from 16 to 33 mm
 - Rubber cone 2: Ø from 23 to 42 mm
 - Rubber cone 3: Ø from 34 to 52 mm
- (one of the above must be used; not included in delivery contents)

Part Number Short code
8PE-185103-281 HG3281
 (supplied in a 20-litre box)

Accessory parts

Plastic container with scale for coolant, including uptake tube with hose connector.



COOLING SYSTEM TESTER

The cooling system tester is used to check for leaks in the cooling system. It detects whether there is a leak in the cooling system from a drop in pressure. Adapters are available for various vehicle manufacturers and models.

Scope of delivery

- 1 x aluminium pressure pump
- 5 x adapters
- 1 x flexible connecting piece

Part Number Short code
 8PE-185103-151 HG3151
 (supplied in a case)



REFRACTOMETER

Tried-and-tested repair shop testing device for determining the level of anti-freeze protection in the refrigerant and windscreen wipers, and also for determining the condition of AdBlue®. Includes an adjustable eyepiece for adapting the device to suit the eyesight of the respective user.

Scope of delivery

- 1 x refractometer
- 1 x pipette

Part Number Short code
 8PE-185103-261 HG3261
 (supplied in a case)



CO₂ LEAKAGE DETECTOR

Testing device for detecting traces of CO₂ gases in the cooling system when the cylinder head seal is defective.

Scope of delivery

- 1 x CO₂ leakage detector
- 1 x liquid reactant (bottle)

Part Number Short code
 8PE-185103-241 HG3241
 (supplied in a case)



Tools - HELLA Gummam Solutions



Brake Tools

Brake service tools as well as spare and wear parts are now also available from a single source, meaning we are in an excellent position to offer our customers the complete product range for brakes. Here we made sure to include not only the common hand-tools but also the appropriate special tools in order to offer maximum benefits to our customers



BRAKE DISC SLIDE CALIPER

The inspection requirements state that the thickness of the brake discs determines whether or not they have to be replaced.

- Measurement range: 0 to 60 mm
- Length: 188 mm / Width: 105 mm / Height: 23 mm
- Weight: 0.260 kg

Part Number	Short code
8PE-355290-001	HG9001



BRAKE GAUGE

Suitable for brake discs and brake drums

- Measurement range: 160 to 360 mm diameter
- Length: 310 mm / Width: 245 mm / Height: 13 mm
- Weight: 0.604 kg

Part Number	Short code
8PE-355290-011	HG9011



STEEL BRAKE CALIPER BRUSH

Made from steel wire and comes complete with hanging hole

- Grip size: 90 x 22 mm
- Length: 230 mm / Width: 45 mm / Height: 15 mm
- Weight: 0.088 kg

Part Number	Short code
8PE-355290-021	HG9021



COPPER BRAKE CALIPER BRUSH

Made from copper and comes complete with hanging hole.
An essential element of all aluminium brake calipers for removing brake dust.
Also suitable for cleaning tasks on all sensitive metal surfaces.

- Grip size: 90 x 22 mm
- Length: 230 mm / Width: 45 mm / Height: 15 mm
- Weight: 0.084 kg

Part Number	Short code
8PE-355290-031	HG9031



Part Number Short code
8PE-355290-041 HG9041

HEXAGONAL BRAKE LINE WRENCH

Chrome-vanadium steel, chrome-plated
Recessed hexagonal design

- Profile: Hexagonal
- Spanner width (SW1): 10 mm
- Spanner width (SW2): 11 mm
- Length: 180 mm / Width: 22 mm / Height: 15 mm
- Weight: 0.106 kg



Part Number Short code
8PE-355290-081 HG9081

BRAKE PISTON PRESSURE TOOL

Universal, for brake pistons without a turning device

- Clamping range 10 to 65 mm
- Drive with 12.5 mm (1/2") square design available
- Length: 155 mm / Width: 155 mm / Height: 55 mm
- Weight: 0.82 kg



Part Number Short code
8PE-355290-091 HG9091

BRAKE CALIPER FILE

Extra narrow, milled on 4 sides, excellent service life, suitable for burnt-on brake dust on brake calipers.

- Length: 260 mm / Width: 30 mm / Height: 25 mm
- Weight: 0.114 kg



Part Number Short code
8PE-355290-061 HG9061

BRAKE DRUM TOOL KIT

Supplied in a plastic case containing:

- 1 x brake spring clamp
- 1 x brake spring pliers with adjustable clamp
- 1 x brake hose clamp
- 2 x brake piston clamps
- 1 x handbrake cable pliers
- Length: 385 mm / Width: 275 mm / Height: 60 mm
- Weight: 2.200 kg



BRAKE PISTON RESET KIT (13-PART)

Suitable for virtually all brake calipers with a clockwise brake piston

- 13-part tool kit with a right-hand spindle
- Length: 340 mm / Width: 220 mm / Height: 60 mm
- Weight: 1.882 kg

Part Number Short code
8PE-355290-101 HG0101

OVERVIEW OF APPLICATIONS

1	Alfa Romeo
2	Citroën, Honda
3	Audi, Citroën, Ford, Honda, Jaguar, Mitsubishi, Nissan, Peugeot, Rover, Toyota, Volkswagen, Volvo
4	Alfa Romeo, Fiat, Ford, Honda, Rover, Saab
5	Adapter with 3/8" square bore
6	Jaguar
7	Jaguar, Opel
8	General Motors
9	General Motors
0	General Motors
6	Fiat
2	Mini



BRAKE PISTON RESET KIT (50-PART)

A state-of-the-art system for pistons with clockwise and anti-clockwise rotation: additional tools such as a pin punch, various retaining plates and other adapters ensure suitability in universal applications – even in the case of badly worn surfaces – and the assembly of the resetter in the brake caliper.

- One of each spindle with a right-hand and left-handed thread
- 4 x brake caliper special inserts, pentagon shaped
- 2 x hex keys, 6 and 7 mm
- 2 x pin punches for loosening the locking pin in Mercedes-Benz and Opel vehicles
- 3 x interchangeable retaining plates, 2 of which are suitable for use in badly worn brake pads / where space is at a premium
- Additional adapters for conventional vehicle models
- Including thread oil and detailed assignment list

OVERVIEW OF APPLICATIONS

1	Alfa Romeo, Audi, BMW, Citroën, Fiat, Ford, General Motors, Honda, Iveco, Jaguar, Lancia, Lincoln, Mazda, Mercedes Benz, Mini, Mitsubishi, Nissan, Opel, Peugeot, Renault, Rover, Saab, Seat, Subaru, Toyota, Vauxhall, VW, Volvo
2	Citroën, Honda, Mercedes Benz
3	Audi, BMW, Citroën, Ford, Honda, Jaguar, Mitsubishi, Nissan, Peugeot, Rover, Toyota, Volkswagen, Volvo
4	Alfa Romeo, Fiat, Ford, Honda, Rover, Saab
5	Adapter with 3/8" square bore
6	Jaguar
7	Jaguar, Opel
8	General Motors
9	General Motors

Part Number Short code
8PE-355290-071 HG9071

D	General Motors
0-dsc	Citroën
11	Jaguar
12	Mini
A	Nissan, Opel, Vauxhall
B	Ford, Lincoln, Subaru
C	Nissan, Opel, Toyota
D	Citroën
E	Nissan
F	Peugeot
G	Fiat
J	Alfa Romeo, Audi, Citroën, Fiat, Ford, Honda, Jaguar, Lancia, Nissan, Peugeot, Renault, Rover, Saab, Seat, Subaru, Volkswagen, Volvo
K	Citroën
K1	Citroën
K2	Audi
M	Nissan
N	Alfa Romeo, Audi, Ford, Lancia, Volkswagen
P	Citroën
R	Ford, Mazda, Mitsubishi, Toyota
S	Audi, BMW, Lancia, Proton, Renault, Rover, Volkswagen
Z	Mini
T	Rover
V	Rover
Q	Alfa Romeo, Fiat, Ford, Honda, Rover, Subaru
IV	heco, Volkswagen
A1	Ford
B1	Ford
F1	Ford
G1	Volkswagen
T45	Ford
P1	Peugeot
H6	BMW, Mini, Opel, Vauxhall
H7	BMW, Mini, Opel, Vauxhall
P30	Opel, Vauxhall
P55	Opel, Vauxhall
Grease	Thread grease
10 mm	Screwdriver bit, pentagon shaped, 10 x 56 mm for removing Girting brake calipers
14 mm	Socket wrench, pentagon shaped, 14 x 38 mm, lower brake caliper fixing screw for Smart cars, for removing the brake caliper from the front axle
19 mm	Socket wrench, pentagon shaped, 19 x 38 mm, brake caliper equipment for Opel Astra G and Zafira, for removing and installing the guide pin if rusty and the brake caliper sliding table on the guide pin no longer slides, or for removing the piston



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Quick Reference Barcodes

Scan the appropriate barcode to go to the specified HELLA Online Website or Service.



QR Barcode
HASA Website



QR Barcode
HELLA Online
Services



QR Barcode
HELLA Mining
Website



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HASA
Facebook Page





HELLA Tech World Your Portal to Business Success



HELLA TECH WORLD provides central access to technical knowledge and product information from HELLA's core areas of Tools, Parts, Services (be it lighting, electrics, electronics, thermal management or garage equipment) via one portal – and passes on that knowledge to registered users. The breadth of information and the level of detailed knowledge are exceptional.

The database alone has over 1,300 vehicle-specific information documents. Interactive pages, 3D online tools, e-paper, videos and animations – the portal uses the latest methods to deliver its valuable knowledge. It combines technical service and practical training.

Registered users have unrestricted free-of-charge access to the knowledge and information provided by HELLA and its joint venture partners, this includes basic and specialist knowledge on the latest products, as well as product and marketing information.

The site holds a wealth of information for day-to-day work and is ideal for specialist training and teaching.

Visit HELLA TECH WORLD. Just follow the link from: www.hella.com/techworld to learn more about this meaningful electronic support tool.

Vehicle-Specific Repair Tips

We support automotive garages with vehicle-specific diagnostic and repair information related to a variety of fault symptoms - and in all of HELLA's core competency areas!



Practical Knowledge

Practical information from the expert: installation instructions, technical brochures, filling capacity manuals, technical videos and much more – expertise for your garage.



Technical Product Information

Prepared by experienced technicians: we have collected our technical information on HELLA products and specific vehicle systems here for you.



Knowledge Is Power

Expand your knowledge using our interactive training. Learn useful information about HELLA's core competence fields at your own pace.



Know How Tool

Practical detailed and realistic 3-D images that provide technical background knowledge.



Product Specific Tips

Product-specific technical information in one database - there's no easier way!

Technical Information

Modular LED Light

General Instructions

The three light series (daylight, brake/light, rear light, parking light and indicator) have been fully adapted to meet the needs for green, blue and red elements. High power and high efficiency LED technology. Existing single light bulb versions and combinations with LED technology are only to be replaced with LED variants.

By using efficient light-emitting diodes (LEDs) with precise lenses, Hella's LED light series offers the light distribution specified by law - and all of this with up to 90% less power consumption with bulb lighting.

To extend the service life of the lights, all components are constructed in a way that optimises the temperature conditions. Depending on the level of equipment, the light housing is made of aluminium or plastic. This prevents overheating of the LEDs at ordinary high ambient temperatures. These products are built for durability over the vehicle's service life through the use of quality LEDs and good thermal management. They are thus an important, economical and environmentally friendly "lifetime" solution.



HELLA Online Training

Use HELLA Online Training to refresh and expand your knowledge! Schedule your individual study time and learn at your own pace - thanks to modern e-learning. Complex issues are taught in small learning units with the help of illustrative graphics and animations. Test your learning success at any time by taking a quiz for each product area. For each of HELLA core fields of expertise (thermal management, lighting, electrics, and electronics), there is at least one training module in which you can find information about technical fundamentals, working principles, fault diagnosis and repair.



Vehicle Specific Tips

In this database, you will find vehicle-specific diagnostic and repair information relating to a variety of fault symptoms. Experienced technicians and mechanics have compiled this professional, technical information in order to support automotive garages during vehicle repair. You can search the database by entering multiple key words, for instance the vehicle make, model, relevant system or components, and also filter the information using the categories (lighting, electronics, etc.).

Bulletin



Mazda

3

Model year: 07/01/2008-31/03/2009

Windscreen wiper fails

If a complaint is made about the windscreen wiper failing in the above vehicle, this may indicate an insufficient earth connection in the windscreen wiper motor.

In order to remedy this, an additional earth cable for the windscreen wiper motor is required in the specified workshop.

The vehicle manufacturer has already withdrawn the recall and modified versions of affected models. For further details, however, it must be assumed that not all vehicles have been checked as recalled.



HELLA Online Online Tools and Services

Clear-cut and compact, this is where to look for a selection of important and targeted facts on products from our comprehensive HELLA product range.

Worklights

Find the right HELLA worklight for your application in seconds using the worklight tool. You can configure your vehicle light combination interactively, view product recommendations or view your configuration in the impressive 360° mode using a wide range of simulations.

<http://www.hella.com/worklight-configurator>



E-Cars

Learn everything about HELLA products for the eCar. Display a range of different functions and obtain detailed product information.

<http://www.hella.com/MicroSite/soe/en/e-cars>



Eliver

The online comparison tool for HELLA worklights, auxiliary lights, beacons and visual warning systems. Test the various products and illuminations here.

http://www.hella.com/MicroSite/eliver_start



Disk-Type Horns and Trumpet Horns

Compare HELLA horns and fanfares using our online tool.

<http://www.hella.com/MicroSite/horns>



E-Motion Factory

Enter the world of car lighting. Configure your car quickly and easily thanks to accessories by HELLA.

<http://www.hella.com/MicroSite/emotionfactory>



Lumion

Our Lumion filament bulb configuration tool helps you quickly and conveniently find the right bulb for your vehicle. Simply choose your make of car, the vehicle class, and the model year.

<http://www.hella.com/MicroSite/bulbs>



Module Switches

You can find a variety of switch variants here. In addition, customer-specific symbol variants can be flexibly and individually laser marked.

<http://www.hella.com/switchshop>



OWS

Configure your own individual OWS7 here. From vehicle selection, through a variety of roof beam widths, to individual light modules. Of course, you can also choose other equipment, such as work-lights, chaser light signals, and side close-range illumination.

<http://www.hella.com/ows7>





Starters and Alternators

Find your exchange parts quickly and easily. Our online database provides you with a wide range of information on the selected product, with corresponding cross-references including images.

<http://www.hella.com/startersalternators>



Wiper Blades

Find the right wiper blade for your passenger or commercial vehicle in an instant - using our configurator. A video also demonstrates how to easily retrofit the state-of-the-art HELLA Dyna Blades to your vehicle.

<http://www.hella.com/microsite-wiperblades>



Brief Information Database

Find information quickly on lots of products.

<https://appcms.hella-content.com/page/kitool>



Mobile Apps

Practical information and service on the move – on your smartphone or tablet.

<http://www.hella.com/MicroSite/hella-apps>



HELLA Automotive South Africa Website

You can review the HELLA on-line catalogue, view specific product detail, there are installation instructions, Store Locator... and so much more - all available at the press of a button.

<http://www.hella.co.za>



Social Media

You will find the latest news, competitions, trivia and product releases for the internet community and you can post your comments. Come on board and Like Us today!

<https://www.facebook.com/hellasouthafrica>



Microsites and Links

Discover everything allied to the wide HELLA product range via the links below:

<http://www.hella.com/agriculture>
<http://www.hella.com/cardriver>
<http://www.hella.com/truck>
<http://www.hella.com/offroad>
<http://www.hella.com/tuning>
<http://www.hella.com/municipal>
<http://www.hella.com/trailer>
<http://www.hella.com/bus>
<http://www.hella.com/caravan>
<http://www.hella.com/emergency>
<http://www.hella.com/powersports>
<http://www.hellamarine.com>
<http://www.hellamining.com>





Solutions for Electric Power Steering (EPS)



Rack-EPS

Product Model: 1234

Integrated Column

5. Cross Reference / OE Reference Numbers Contents

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Thermostats

Brand HELLA part number	Short code	OE Reference number				
ALFA ROMEO						
2MT-002636-011	Z33.77	7615237	60800440	7656567		
2MT-002635-011	Z35.79	60713535	4500823	4750024		
2MT-002631-011	Z60.82	140 60 07 03 200	60740578			
AUDI						
2MT-002585-011	VT288.87	056.121.113.D	026.121.113			
2MT-002580-011	207.87	95688361				
2MT-002630-011	VT25.92	078.121.113.G	078.121.113.H			
2MT-002630-011	VT25.92					
2MT-002573-011	VT288.80	056.121.113.A				
2MT-002572-011	VT17.82	052.121.113				
2MT-002620-011	VT17.92	052.121.113				
AUDI VOLKSWAGEN						
2MT-002574-011	VT25.80	022.121.113	076.121.113	075.121.113.D	075.121.113.E	
2MT-002591-011	VT318.82	059.121.113.B				
2MT-002260-011	Z26.8	035.121.113	025.121.113.E			
BMW						
2MT-002260-011	Z26.8	11.531.713.040	11.531.710.953	11.531.710.954		
CATERPILLAR						
2MT-002573-011	VT288.80	4N6958				
CHEVROLET						
2MT-002589-011	VT21.82	93206807				
2MT-002616-011	VT328.87	90232012	93206694			
2MT-002579-011	Z84.82	75039	2485613	70998113		
2MT-002572-011	VT17.82	96143939				
2MT-002572-011	VT17.82	1517858	1520969	1635905	5004887	6085917 6085918
2MT-002572-011	VT17.82	6100630	6201207	6201247	81SF-8575-EA	81SF-8575-FA 85HF-8575-AA
2MT-002572-011	VT17.82	91XM-8575-AA	96MM-8575-BD			
CHRYSLER						
2MT-002597-011	Z54.88	4105768	4494470	4573560		
CITROËN						
2MT-002624-011	Z52.82	7910.011.101	7910.016.560			
2MT-002580-011	207.87	95688361				
2MT-002609-011	Z06.82	1337.47	91500723	9150072380		
2MT-002573-011	VT288.80	133823				
DAEWOO						
2MT-002626-011	VT281.85	6062030275				
2MT-002614-011	VT232.87	1112000515	1102000515			
2MT-002572-011	VT17.82	96143939	03038094			
2MT-002625-011	VT264.82	17670A78801-000	94580182			
2MT-002620-011	VT17.92	96143939	303809			
DAF						
2MT-002584-011	VT234.75	104.159	390.455	394.346		
2MT-002584-011	VT234.75	104.159	390.455	394.346		
2MT-002584-011	VT234.75	104.159	390.455	394.346		
2MT-002586-011	VT232.70	104.159	390.455	394.346		
DAIHATSU						
2MT-002578-011	VT253.88	9004833029				
2MT-002597-011	Z54.88	90916-03055	90048-33021	90048-33041	90916-03036	
2MT-002588-011	VT246.88	90048-33041-000				
2MT-002568-011	VT256.82	90916-03046-000	90916-03069-000	90916-03090-000		
2MT-002568-011	VT256.82	90916-03046	90916-03069	90916-03090		
2MT-003558-201	VT355.82	16340-58010	90048-33058	90916-03066	90916-03077	90916-33058 90916-03066-000
2MT-003558-201	VT355.82	90916-03077-000	90916-03102-000			
2MT-002596-011	Z64.84	16341-87208-000	16341-87583-000	16341-87793-000	16341-87795-000	
2MT-002625-011	VT264.82	16341-87206-000	16341-87210-000	16341-87289-000	16341-87290-000	16341-87582-000 16341-87585-000
2MT-002625-011	VT264.82	16341-87780-000	16341-87781-000	16341-87786-000	16341-87787-000	90048-33008-000 90048-33011-000
2MT-002625-011	VT264.82	90048-33022-000	90048-33023-000	90048-33025-000		
2MT-002577-011	317.75	19300-679-000	HE41-99-152	HE41-99-152A	HE41-99-152B	HE41-99-152C HE41-99-152D
2MT-002575-011	Z54.82	90048-33001	90916-03040	1757074001	90048-33020	90916-03016 90916-03033
2MT-002575-011	Z54.82	90916-03034	90916-03037			
FIAT						
2MT-002642-011	Z21.88	4664992	46513506	46523733	46776216	
2MT-002580-011	207.87	4154312	4154313	95688361	9405028680	
2MT-002609-011	Z06.82	9150072380				
2MT-002573-011	VT288.80	9616090180				
2MT-002594-011	Z35.82	500329622	7303615			

Brand HELLA part number	Short code	OE Reference number					
FIAT							
ZMT-002607-011	223.82	4355846	4393448	4437481	43558460	4351196	4409254
ZMT-002607-011	223.82	7649055					
ZMT-002636-011	233.77	7856567					
ZMT-002635-011	235.79	4750024	98463638	4837166	98463637		
FIAT LANCIA							
ZMT-003908-701	VT390.87	7545958	7589135				
ZMT-002593-011	VT324.87	7723325					
FORD							
ZMT-002585-011	VT288.87	1002788	1031881	1096699	95W-8575-AB	95W-8575-CA	1086282
ZMT-002585-011	VT288.87	6100372	6169774	801587	6106381	6176366	84FF-8575-BA
ZMT-002585-011	VT288.87	89FF-8575-AA	89FF-8575-AB				
ZMT-002604-011	247.86	84NU-8575-D					
ZMT-002578-011	VT253.88	1096283					
ZMT-002597-011	254.88	HE4199152A	6994257	95WM-8575-AA			
ZMT-002588-011	VT246.88	6994257	E61Z-8575-A	F21Z-8575-A	YU3Z-8575-BA	95WM-8575-AA	
ZMT-002576-011	317.88	6994257	95WM-8575-AA				
ZMT-002398.801	239.88	1001993	6866389	89FF-8575-AB	928M-8575-AA	928M-8575-AD	948M-8575-AA
ZMT-002398.801	239.88	1634617	6153501	6163500	6588962	891M-8575-AA	928M-8575-AE
ZMT-002574-011	VT225.80	1018799	1032249	95W-8575-BA			
ZMT-002617-011	207.92	1472378	3023647	3516860	4038969	6526879	
ZMT-002617-011	207.92	89EM-8575-AD	F5DE-8575-ED	F8DE-8575-AA	F8DZ-8575-AA	XF1E-8575-BA	YF1Z-8575-BA
ZMT-002599-011	220.88	1957271	1962338	1962611			
ZMT-002629-011	VT305.88	ERRC291A					
ZMT-002580-011	207.87	1002788	1031881	1096699	95W-8575-AB	95W-8575-CA	1452357
ZMT-002637-011	265.82	256G-8570-AB	256G-8575-A2A	BG4A-8A590-AA	F2RZ-8575-B	XS4E-8575-AC	XS4E-8575-AE
ZMT-002579-011	284.82	E3HN-8575-AA					
ZMT-002579-011	284.82						
ZMT-002600-011	300.82	3396924	3599763	3893570	3902514	4176181	4188498
ZMT-002600-011	300.82	F4ZZ-8575-BA	XM34-8575-AB				
ZMT-002622-011	233.88	1957271					
ZMT-002571-011	VT218.74	1518627	1595160	1607993			
ZMT-002572-011	VT217.82	1493700	1497689	800572	800573	800574	1509953
ZMT-002260-011	226.8	7072643	V9AD-8575-AA				
ZMT-002620-011	VT217.92	1493700	1497689	800572	800573	800574	1509953
ZMT-002620-011	VT217.92	1517058	1520969	1635905	5004887	6085917	6085918
ZMT-002620-011	VT217.92	1571879	6100629	81HF-8575-AA			
ZMT-002620-011	VT217.92	1571879	6100629	81HF-8575-AA			
ZMT-002646-021	VT297.92	7083256					
ZMT-002646-011	VT313.92	7083256					
GENERAL MOTORS							
ZMT-002589-011	VT221.82	90466522	90486126				
ZMT-002624-011	252.82	9109737					
ZMT-002628-011	VT271.89	91159950					
ZMT-002591-011	VT318.82	94214962	97089891	97361770			
ZMT-003999-201	VT399.92	90573326					
ZMT-002260-011	226.8	91153670					
ZMT-002635-011	235.79	9161123					
ZMT-002601-011	VT327.82	90410665	90443473				
ZMT-002625-011	VT264.82	94580182					
ZMT-002620-011	VT217.92	24420728	90200836				
ZMT-002631-011	260.82	94336069					
ZMT-002570-011	207.82	97094283					
ZMT-002644-011	VT205.75	90144834					
ZMT-002646-021	VT297.92	93275.736					
ZMT-002646-011	VT313.92	93275.736					
GENERAL MOTORS OPEL							
ZMT-002585-011	VT288.87	08966485	1338033				
ZMT-002580-011	207.87	1338018	1338041	2898688	8966485		
GENERAL MOTORS CHEVROLET							
ZMT-002590-011	VT288.82	08966483	90412604				
HONDA							
ZMT-002597-011	254.88	19300-PE2-815	19300-PE2-816	19300-PE2-817			
ZMT-002582-011	VT253.77	19300-PE0-013	19300-PL2-004	19300-PE3-013	19300-PE3-024	19300-PE0-024	19300-P10-003
ZMT-002582-011	VT253.77	19300-P10-004	19301-P08-316	19301-P1K-307	19300-PM3-003	19300-PM3-004	19300-PF3-004
ZMT-002582-011	VT253.77	19301-P08-000	19301-P08-305	19301-P08-306	19301-P08-315	19301-P10-307	19301-PAA-305
ZMT-002582-011	VT253.77	19301-PAA-306	19301-PDF-305	19301-PLC-305			

Thermostats

Brand HELLA part number	Short code	OE Reference number					
HONDA							
2MT-002568-011	VT256.82	19301-PV0-305	19301-PV0-306				
2MT-002577-011	317.75	19300-657-000	19300-692-013	19300-692-811	19300-692-812	19300-PA0-003	19300-PB2-024
2MT-002575-011	254.82	19300-PA0-003	19300-PB2-004	19300-PB2-003	19300-PB2-013	19300-PB2-014	19300-PB2-023/026
HYUNDAI							
2MT-002597-011	254.88	25500-21210	25500-21220	25500-33020	25500-33040	25500-33050	25500-33060
2MT-002568-011	VT256.82	25500-02500					
2MT-002580-011	207.87	25500-22600					
2MT-002625-011	VT264.82	25500-02550					
2MT-002575-011	254.82	25500-11200	MD005317	25500-24000			
HYUNDAI KIA							
2MT-002605-011	316.82	25500-23001	25500-23010				
INNOCENTI							
2MT-002571-011	VT218.74	6053401124	39406121				
2MT-002590-011	VT288.82	4220309					
ISUZU							
2MT-002591-011	VT318.82	4294280	8970898910	8-97361770-0	8-94214962-0	8-97089-891-0	
2MT-002631-011	260.82	13770051	8-94336069-0				
2MT-002570-011	207.82	8-97094-283-0					
IVECO							
2MT-002584-011	VT234.75	98492868	98492873	4807495	4749727		
2MT-002584-011	VT234.75	98492868	98492873				
2MT-002584-011	VT234.75	98492868	98492873				
2MT-002643-011	VT234.71	98420718	98492868				
2MT-002635-011	235.79	4684390	60713535				
JAGUAR							
2MT-002614-011	VT232.87	22037675	22037676				
2MT-002578-011	VT253.88	JDE1275					
2MT-002571-011	VT218.74	1518627	1607993	C13944/1	C20766/1		
JEEP							
2MT-002580-011	207.87	83501426					
2MT-002570-011	207.82	3156283					
KIA							
2MT-002597-011	254.88	0K013-15-171	0K200-15-171	0K200-15-171A	0K30E-15-171	2550033050	2550033060
2MT-002580-011	207.87	2550022600					
2MT-002636-011	233.77	0K756 15171C					
2MT-002575-011	254.82	0K201-15-171	0K201-15-171A	0K2A1-15-171	KHE41-15-171		
LANCIA							
2MT-002594-011	235.82	4703088					
2MT-002614-011	VT232.87	46130366					
LAND ROVER							
2MT-002576-011	317.88	GTS301	PEL10016				
2MT-002574-011	VT225.80	STC3338					
2MT-002629-011	VT305.88	ERF3291	ERF3291A				
2MT-002580-011	207.87	ETC4765					
2MT-002622-011	233.88	ERF2803	8AB3-15-171A	8AB3-15-172	8AB4-15-171	8173-99-152	1N01-15-171
2MT-002571-011	VT218.74	ETC4761					
2MT-002570-011	207.82	602687	ETC4763				
2MT-002644-011	VT205.75	ETC4761					
LEXUS							
2MT-002640-011	301.82	90916-03075	90916-03084	90916-03125	90916-03129		
MAN							
2MT-002586-011	VT232.70	51064020042					
2MT-002570-011	207.82	51064020002					
MAZDA							
2MT-002585-011	VT288.87	1 E07 15 171	1 E07 15 171 A				
2MT-002597-011	254.88	HE-41-99-152A	81-73-99-152A	81-73-99-152B			
2MT-002617-011	207.92	1 E03 15 171					
2MT-002611-011	220.82	0823 15 171 A	0839 15 171 A	8553 15 171			
2MT-002600-011	300.82	F505-15-171	KL01-15-171	KL01-15-171A			
2MT-002622-011	233.88	8AB3-15-171A					
2MT-002636-011	233.77	8AB3 15 171					
2MT-002625-011	VT264.82	0118-15-171A	0187-15-171A	0259-15-171	0259-99-152	1A04-15-171	8BA1-15-171
2MT-002625-011	VT264.82	8BA2-15-171	8BA2-15-171A	AY01-15-171	AZ10-15-171	ZZ50-15-171	ZZ52-15-171
2MT-002625-011	VT264.82	ZZ53-15-171	ZZ54-15-171				
2MT-002575-011	254.82	HE-41-99-152	8A-B7-15-171	8A-BC-15-171	HE-41-99-152C		
MERCEDES BENZ							
2MT-002574-011	VT225.80	005 203 29 75					

Brand HELLA part number	Short code	OE Reference number					
MERCEDES BENZ							
ZMT-002543-011	VT234.71	002 203 82 75	002 203 77 75	116 200 00 15	116 200 01 15		
ZMT-002584-011	VT234.75	002 203 82 75	002 203 77 75	116 200 00 15	116 200 01 15		
ZMT-002626-011	VT281.85	601 200 00 15	606 203 02 75	003 203 99 75	004 203 10 75	604 203 00 75	
ZMT-002584-011	VT234.75	002 203 82 75	002 203 77 75	116 200 00 15	116 200 01 15		
ZMT-002629-011	VT305.88	005 203 30 75					
ZMT-002584-011	VT234.75	002 203 82 75	002 203 77 75	116 200 00 15	116 200 01 15		
ZMT-002614-011	VT232.87	002 203 76 75	002 203 81 75	003 203 69 75	102 200 08 15	102 200 09 15	102 200 14 15
ZMT-002614-011	VT232.87	110 200 05 15	111 200 05 15				
ZMT-002260-011	226.8	002 203 75 75	002 203 80 75	220 800 75	615 200 13 15	615 200 14 15	616 200 04 15
ZMT-002260-011	226.8	616 200 18 15	617 200 03 15	617 200 08 15	617 200 18 15		
MITSUBISHI							
ZMT-002611-011	220.82	MD094120	MD997224	MD-015299	MD-997606		
ZMT-002606-011	220.76	MD015299	MD997222	MD997605			
ZMT-002580-011	207.87	MN-980137					
ZMT-002625-011	VT264.82	MD-096658	MD-115075				
ZMT-002577-011	317.75	MD997225					
ZMT-002577-011	317.75	19300-657-811	19300-657-812	90916-03020	90916-03021	90916-03022	90916-03029
ZMT-002577-011	317.75	90916-03034	90916-03036	90916-03037	90916-03040	90916-03046	90916-03060
ZMT-002575-011	254.82	MD005131	MD005371				
NISSAN							
ZMT-002628-011	VT271.89	7700872554	21200-000AA				
ZMT-002611-011	220.82	21200-16A00	21200-76204	21200-89J00	21200-93J10	21200-9F600	21200-96002
ZMT-002606-011	220.76	21200-W3310	21200-16A10				
ZMT-002606-011	220.76						
ZMT-002599-011	220.88	21200-05D10	21200-05D11	21200-05D12	21200-G2401	21200-W3305	21200-Y9701
ZMT-002599-011	220.88	21200-96012					
ZMT-002568-011	VT256.82	21200-77A65	21200-4M600	21200-77A05	21200-77A61	21200-77A66	
ZMT-002580-011	207.87	21200-99B12	21200-99B13	21200-09000			
ZMT-002580-011	207.87	21200-78501	21200-78503	21200-78505	21200-78506	21200-78515	
ZMT-002640-011	301.82	21200-57J00	21200-57J15				
ZMT-002596-011	264.84	21200-01E00					
ZMT-002622-011	233.88	21209-96011	21209-96001	21200-Y9701	21200-G2401	21200-96012	21200-76206
ZMT-002622-011	233.88	21200-62401	21200-49701	21200-05D10	21200-05D11	21200-05D12	
ZMT-002571-011	VT218.74	21200-F3100	21200-F3160	21200-H7902			
ZMT-002608-011	258.75	21200-W3310	21200-16A10				
ZMT-002631-011	240.82	21200-2H600	21200-41E00	21200-85G00	21200-P7901	21200-P7990	21200-V0100
ZMT-002631-011	240.82	21200-V0200	21200-V0201	21200-80W00			
ZMT-002570-011	207.82	21200-99B02	21200-99B03				
ZMT-002621-011	VT256.75	21200-77A00	21200-77A60	21200-77A63	21200-77A65		
ZMT-002621-011	VT256.75						
ZMT-002621-011	VT256.75	200-77A00	21200-77A60	21200-77A63			
OPEL							
ZMT-002574-011	VT225.80	1338076	1338082	1338091	90509110		
ZMT-002589-011	VT221.82	13 38 070					
ZMT-002624-011	252.82	44 01 737					
ZMT-002617-011	207.92	1338016	1338055				
ZMT-002591-011	VT318.82	13 38 074	42 94 200	63 38 036			
ZMT-002616-011	VT328.87	1338043	1338049				
ZMT-003999-201	VT399.92	1338331					
ZMT-002571-011	VT218.74	1338034					
ZMT-002590-011	VT288.82	1338024	1338061				
ZMT-002573-011	VT288.80	1338024	1338061				
ZMT-002572-011	VT217.82	1338009	1338042	1338044	1338047	1338097	3038094
ZMT-002260-011	226.8	1338466					
ZMT-002635-011	235.79	4500823					
ZMT-002601-011	VT327.82	13 38 059	13 38 062				
ZMT-002620-011	VT217.92	1338009	1338042	1338044	1338047	1338097	3038094
ZMT-002620-011	VT217.92	1338015	13 38 052	13 38 053	13 38 042		
ZMT-002620-011	VT217.92	13 38 052	13 38 053				
ZMT-002631-011	240.82	1338093	43 04 369				
ZMT-002570-011	207.82	13 38 077					
ZMT-002628-011	VT271.89	4408334					
PEUGEOT							
ZMT-002624-011	252.82	1338.37	1338.83	1337.30			
ZMT-002609-011	206.82	1337.47					
ZMT-002573-011	VT288.80	1338.23					

Thermostats

Brand HELLA part number	Short code	OE Reference number				
PEUGEOT						
2MT-002614-011	VT232.87	1337.34	102.200.19.15	102.200.15.15	110.200.06.15	
PEUGEOT CITROËN						
2MT-002603-011	206.75	1337.49				
2MT-002603-011	206.75					
PORSCHE						
2MT-002574-011	VT225.80	95610611300				
2MT-002573-011	VT288.80	94410601900	94410612905	94410612907		
RENAULT						
2MT-002505-011	VT288.87	74.31.397.947	74.33.545.031	74.35.842.409	74.39.180.811	
2MT-002604-011	247.86	77.00.619.931	77.00.722.762	77.01.348.374		
2MT-002598-011	247.75	77.01.348.375	7700613873			
2MT-002624-011	252.82	7701.348.372				
2MT-002628-011	VT271.89	7700872635	8200479402	7700872554		
2MT-002614-011	VT232.87	77.01.349.415	7700.657.955	7700.703.136	7701.349.173	
2MT-002635-011	235.79	7701.026.647	50.00.815.791	7701.042.512		
ROVER						
2MT-002582-011	VT253.77	G1S-283	G1S-300	G1S319	PEL100350	
2MT-002574-011	VT225.80	G1S287				
2MT-002571-011	VT218.74	1346284	1340727	1340574	ETC4761	
2MT-002260-011	226.8	G1S287				
SAAB						
2MT-002622-011	233.88	9337.379	8389512			
2MT-002620-011	VT217.92	5342.258				
SCANIA						
2MT-002260-011	226.8	269374	276012			
SEAT						
2MT-002585-011	VT288.87	SE021032221B	056.121.113D			
SSANGYONG						
2MT-002626-011	VT281.85	6062030275	6062030575			
2MT-002614-011	VT232.87	1112000515				
SUBARU						
2MT-002580-011	207.87	3175.34302				
2MT-002596-011	264.84	17600-85821				
2MT-002625-011	VT264.82	21200-KA010	21200-KA040	21200-KA050	21200-KA150	21200-KA151 317531900
2MT-002625-011	VT264.82	3175.32400	4175.35400	4175.35500	4175.35600	4175.35800
2MT-002625-011	VT264.82	4975.35500	4975.35700			
2MT-002631-011	260.82	4175.37000	4175.37100	4175.37200	4175.37300	21200-AA010 21200-AA040
2MT-002631-011	260.82	21200-AA060	21200-AA120	21200-P7901	21200-V0200	
SUZUKI						
2MT-002578-011	VT253.88	17670-65720				
2MT-002597-011	254.88	17570-74701	17600-83830	17600-83831	17600-83832	17600-83833 17600-83850
2MT-002597-011	254.88	17600-83851	17670-79100	17670-79101	17670-83020	17670-83021
2MT-002588-011	VT246.88	17600-60823-000				
2MT-002588-011	VT246.88					
2MT-002569-011	317.82	17600-83821	17600-60813-000			
2MT-002615-011	VT246.82	17600-83821	17600-85831-000			
2MT-002596-011	264.84	17600-85821	17570-50610			
2MT-002573-011	VT288.80	17670-66600-000				
2MT-002625-011	VT264.82	17600-82810	17600-82811	17600-82820	17600-82821	17600-82830 17600-82831
2MT-002625-011	VT264.82	17600-82840	17600-82850	17600-82860	17600-85810	17600-85811 17600-85820
2MT-002625-011	VT264.82	17670-50600	17670-50620	17670-65020	17670-67020	17670-67021 17670-67022
2MT-002625-011	VT264.82	17670-76600	17670-76601	17670-79001	17670-82000	17670-82010 17670-85000
2MT-002625-011	VT264.82	17670-85010	17670-85811	17670-M85030		
2MT-002575-011	254.82	17570-74001	17600-60813	17600-85831	17600-83821-000	
TOYOTA						
2MT-002578-011	VT253.88	16340-54010	90916-03072	90916-03099	90916-03106	
2MT-002578-011	VT253.88	90048-33029	90916-03043	90916-03062		
2MT-002597-011	254.88	90916-03040	90916-03055	90916-03078		
2MT-002569-011	317.82	90916-03083				
2MT-002615-011	VT246.82	90916-03083				
2MT-002615-011	VT246.82					
2MT-002568-011	VT256.82	90916-03046	90916-03060	90916-03065	90916-03090	90916-03095 90916-03096
2MT-002568-011	VT256.82	90916-03109	90916-03115	90080-23003		
2MT-003558-201	VT355.82	90916-03102	90916-03077			
2MT-002640-011	301.82	90916-03075	90916-03084	90916-03125	90916-03129	
2MT-002573-011	VT288.80	SU001-00223				
2MT-002575-011	254.82	90916-03027	90916-03035	90916-03054	90916-03083	90916-03040

Brand HELLA part number	Short code	OE Reference number					
VAUXHALL							
ZMT-002573-011	VT288.80	1338024	1338061				
VOLVO							
ZMT-002585-011	VT288.87	Z71417	Z71417-8	Z71664	Z71664-5	9180811	
ZMT-002580-011	207.87	30863985					
ZMT-002622-011	233.88	Z73458	3273458	Z73306	Z73457	Z73459	
ZMT-002643-011	VT234.71	Z51872					
ZMT-002614-011	VT232.87	3273480-4	Z73480	Z734804			
ZMT-002608-011	258.75	Z73952					
ZMT-002592-011	229.87	Z73728	Z73728-6				
VOLKSWAGEN							
ZMT-002578-011	VT253.88	J9091603099					
ZMT-002627-011	245.87	032.121.110.B	032.121.110.P				
ZMT-002568-011	VT256.82	J9091603046					
ZMT-002573-011	VT288.80	056.121.113.A					
ZMT-002572-011	VT217.82	052.121.113		96.143.939			
ZMT-002620-011	VT217.92	052.121.113	036.121.113.B				
ZMT-002570-011	207.82	032.121.110.F					
VOLKSWAGEN AUDI							
ZMT-002638-011	VT318.88	059.121.113.A	059.121.113.H				
ZMT-002592-011	229.87	069.121.113	069.121.113.A				
VOLKSWAGEN GROUP (AUDI, SEAT, VW)							
ZMT-002585-011	VT288.87	056.121.113.D	032.121.113	03G.121.113.A	44.121.113	056.121.113.D	068.121.113.B
ZMT-002585-011	VT288.87	068.121.113.D	068.121.113.H	SE021032221B			
ZMT-002618-011	VT225.87	077.121.113	078.121.113.F	078.121.113.G	078.121.113.C	078.121.113	076.121.113
ZMT-002580-011	207.87	03G.121.113	050.121.113.C	06B.121.113.A	044.121.113	056.121.113.D	068.121.113.H

Temperature Sender Units

Brand HELLA part number	OE Reference number					
ALFA ROMEO FIAT LANCIA						
1MT-003100-011	7910247507					
1MT-004051-011	9946866	5972332	60513205	60800167		
1MT-004001-011	11911110000	60523383				
ALFA ROMEO						
1MT-004050-011	60811520					
AUDI / SEAT / VW						
1MT-003170-011	701.919.369 B	701.919.369 C				
1MT-004024-011	026.906.161					
BMW						
1MT-004051-011	13 62 1 284 397	13621401 965	13621709966			
1MT-004001-011	13621357414					
1MT-004075-011	13621433076	1433076	2307038935			
1MT-003107-011	62 11 0 788 115					
CHEVROLET						
1MT-004050-011	12191170	15404280	96181508	96182634		
1MT-003057-011	2958320					
CITROËN						
1MT-004051-011	0242 46	1338 57	91514549			
1MT-004020-011	1338 G4					
DAEWOO						
1MT-003140-011	55421017	55422617	6615423017			
1MT-004050-011	12191170	15404280	25036898	96181508	96182634	
1MT-003029-011	92061480	3439088				
DAIHATSU						
1MT-003203-011	89420-20020-000					
1MT-003203-011						
1MT-003119-011	89420-87703-000					
1MT-003200-011	89420-87701					
1MT-003150-011	89420-16040-000					
1MT-004065-011	89422-87701-000					
1MT-004020-011	89422-87302-000	89422-87101-000				
FIAT						
1MT-003200-011	553621200					
1MT-003121-011	7548005	7588883	7588903	7542186		
1MT-004051-011	7770239	5972332	60800142	98424793		
1MT-004050-011	55199579	7778980				
1MT-003041-011	50000102	7588802	7588882			
FORD						
1MT-003200-011	D27Z-10884-A					
6PT-009107-201	E7GZ-10884-B					
1MT-003135-011	E92Z-10884-C					
1MT-004051-011	1207003	1C1R-7H141-AA				
1MT-004027-011	3405645	3465427	3601374	B3C8-1884D	F32Z-12A68-A	F42Z-10884-A
1MT-004034-011	1331294	1669948	95WV-10884-AA	95WV-10884-AB		
1MT-004001-011	1957002					
1MT-004065-011	1960041	1960296	1961789			
1MT-003170-011	1669990	95WV-8B607-LA				
1MT-004037-011	F54F-12A68-AA	F54F-12A68-AB	4323633	4337456	7158126	
1MT-003057-011	6058836	6098273	77FB-10884-AA	81EB-10884-AA	C3AZ-10884-A	6122039
1MT-003057-011	1583836	1591388	1701341	C5EH-10884-B	D1FZ-10884-B	84 V8 10884 AA
1MT-003105-011	1784077	6076967	81AB-10884-AA	C4AH-10884-A	84AB-10884-BA	
1MT-003130-011	6108298	6113258	6136366	6141932	6146864	
1MT-003130-011	84DA-10884-AA	85FB-10884-AA	86AB-10884-AA			
1MT-003144-011	6145143	86 VB 10884 BA				
1MT-004092-001	XM21-10884-BA					
GENERAL MOTORS						
1MT-003203-011	94841819	94847543				
1MT-003119-011	94247437	960657787	94847362	96067371		
1MT-003133-011	94235691	94237861				
1MT-004051-011	90800939	90410792	90510183	92017805	94205866	93358883
1MT-003151-011	94854974					
1MT-004027-011	91171786	96062513				
1MT-004050-011	12146897	12191170	12611420	15326388	15369305	15404280
1MT-004050-011	25036898	96182634	93247291	25036898		
1MT-004065-011	93180124					
1MT-003029-011	03439088	3439088-3	90246852	90510850	92029764	

Brand HELLA part number	OE Reference number				
GENERAL MOTORS					
1MT-003029-011	92061480	92063941	94472002	94521028	
HONDA					
1MT-003119-011	89424-74371				
1MT-003200-011	37750-611-154				
1MT-003135-011	37750-PC1-004				
1MT-004051-011	37870-P5T-G00	37870-PDF-E01			
HYUNDAI					
1MT-003203-011	94650-11110				
1MT-003062-011	94650-21010				
1MT-003119-011	94650-32500	94650-32520	94650-32510		
1MT-003200-011	AA050-18510				
1MT-004020-011	39220-35710				
ISUZU					
1MT-003119-011	8-94247-437-1				
1MT-003133-011	8-94235-691	8-94237-861			
1MT-004051-011	8-94205-866-0				
1MT-004050-011	8-12191-170-0	8-15404-280-0			
1MT-003029-011	8-92061-400-0	8-92063-941-0			
JAGUAR					
1MT-004027-011	LNA1600AA				
1MT-004037-011	LRA1600AA	XR832403			
KIA					
1MT-003203-011	AA92E18510				
1MT-003200-011	AA05018510				
2PT-009107-201	KKY01-18-510				
1MT-003135-011	KK150-18-51X	KK15118510	KK151-18-510A		
1MT-004027-011	MB59318840A				
LAND ROVER					
1MT-004075-011	MEK000030L	MEK100170L	MEK500130	NSC100870L	
1MT-003105-011	AAU1115				
MAZDA					
1MT-003119-011	B541-18-510	JE15-18-51X	KL01-18-51X	Y701-18-510	
1MT-003200-011	011818510	011889181			
1MT-003201-011	0259-18-510	0259-89-181			
2PT-009107-201	8569-18-510	8569-18-510A	E7G2-10-884B		
1MT-003135-011	G607-18-510				
1MT-004027-011	B303-18-840	B593-18-240A	N391-18-840	NF02-18-840	Y70218840
1MT-004065-011	B574-18-840				
1MT-004037-011	1E0018510	GY01-18-840A	Z2M1-18-707		
MERCEDES BENZ					
1MT-003140-011	0025421017	0025422517	0055422617	6615423017	
1MT-004092-001	0135427817				
1MT-004003-011	0085423217				
MINI					
1MT-004027-011	13627791951				
MITSUBISHI					
1MT-003203-011	A-603427	MD-001380	MD-603427		
1MT-003062-011	MD-001380	MD-095556			
1MT-003119-011	MD-091056	94650-32510	94650-32520	ME-202052	
1MT-004020-011	MD-177572	MD182467	MR-985034		
NISSAN					
1MT-003202-011	25080-89902				
1MT-003120-011	25080-89903	25080-F3900			
1MT-004001-011	22630-N4200	22630-G2404	22630-G2402	22630-10G00	11023-V0700
1MT-004000-011	22630-71L00	22630-99B00			
1MT-004065-011	22630-000AH	22630-0M200	22630-1W400	22630-43Y00	22630-44B10
1MT-004065-011	22630-71L00	22630-7Y000	22630-95F0B	22630-99B00	22630-99B10
1MT-004065-011	22630-D9702	22630-ED000			22630-D9701
1MT-003029-011	3439088				
1MT-003131-011	25080-89900	25251-37700			
1MT-003131-011					
OPEL					
1MT-003119-011	1338507				
1MT-003133-011	1338505	1338506			
1MT-004051-011	1338444	1338451	1338458	6238317	
1MT-004050-011	850413	1338441	1338477	4803530	4810250
					6238938

Temperature Sender Units

Brand HELLA part number	OE Reference number					
OPEL						
1MT-004065-011	44 15 176					
1MT-003029-011	1338448	1342561	1342568	1342569	5851969	851075
PEUGEOT						
1MT-004051-011	0242 46	1338 57				
1MT-003100-011	2422					
PORSCHE						
1MT-004051-011	944 606 125 00					
RENAULT						
1MT-004001-011	77 00 582 688					
1MT-004050-011	77 01 053 991					
1MT-004065-011	22 63 044 B20	23 45 012 920	50 01 870 250	77 01 058 398		
1MT-003100-011	7700 767 336					
ROVER						
1MT-003135-011	GTR141	GTR142				
1MT-004075-011	MEK 000030	MEK 100170	NSC 100870			
1MT-003105-011	GTR120	GTR199				
SAAB						
1MT-004051-011	45 03 132	47 70 228	93 57 021			
1MT-004050-011	15404280	59 52 155				
1MT-003125-011	88 00 914	88 59 233	91 08 291			
SEAT						
1MT-003126-011	27919501	49919501	SE 0219470001	W0 049919501		
SKODA						
1MT-004001-011	004 435 010					
1MT-003107-011	111-982410	113-982410	115982410	6U0 919501 A		
1MT-003041-011	111-982410	113-982410	115982410	6U0 919501 A		
SMART						
1MT-004020-011	005 153 62 28	122 153 01 28	132 153 00 28			
SUBARU						
1MT-003077-011	21203-AA000	82080-4150				
1MT-003119-011	21203-AA030					
1MT-004027-011	22630-KA020					
SUZUKI						
1MT-003119-011	34850-82011	34850-14F00-000	34850-82012-000			
1MT-003200-011	34850-65011	34850-78E21-000				
1MT-004027-011	13650-61B00	13650-51G10	13650-57F00	13650-78E00		
1MT-004065-011	13650-84101					
TOYOTA						
1MT-003119-011	83420-16020	83420-16030				
1MT-004051-011	89422-05010	89422-05020				
1MT-003151-011	83420-16050	83420-20040	83420-16050	83420-AA010		
1MT-004027-011	89422-35010	89422-20010				
1MT-003150-011	83420-16040	83420-20030				
1MT-004065-011	89422-12010					
1MT-003203-011	83420-16010	83420-20010	83420-20020			
1MT-003077-011	83420-12010	83420-20011				
VOLVO						
1MT-003129-011	1257617-9					
1MT-003126-011	1257216	3517501	3517501-7			
1MT-004051-011	1332396-9					
1MT-004027-011	30874172	8653103				
1MT-004037-011	30711661					
1MT-004020-011	30874182					
VOLKSWAGEN						
1MT-003140-011	2D0 919 501 C					
1MT-004092-001	06A 919 501					
1MT-003203-011	J83 420 200 20					
1MT-003129-011	028 919 501 A					
1MT-003126-011	027 919 501	049 919 501 5	049 919 501 1	175 919 501	SE 021 9470001	
1MT-004027-011	J89 422 200 10					
1MT-003150-011	J83 420 160 40	J83 420 200 30				
1MT-004034-011	357 919 501 A	6U0 919 501 B	030 919 501			
1MT-004024-011	030 919 501	026 906 161 2	034 906 161			
1MT-004051-011	025 906 041	6U0 919 501	X03 952 640	4435008		

Thermal Switches

Brand HELLA part number	OE Reference number					
ALFA ROMEO						
1MT-725929-701	60009247					
1MT-705928-700	60549313	60564432				
1MT-726928-700	60585603					
AUDI SEAT VOLKSWAGEN						
1MT-803959-001	1J0.959.481	6X0.959.481				
1MT-802971-021	1J0.959.481.A					
1MT-840951-021	8D0.959.481.B					
BMW						
1MT-800102-971	61.31.1.364.273	13.64.2.73				
1MT-801959-001	61.31.1.364.272	61.31.1.357.073	13.64.2.72			
6ZT-007837-001	61.311.378.073	13.78.0.73				
1MT-839909-701	61.31.8.363.677	8.363.677				
1MT-870110-105	61.319.401.973	9.401.973				
CITROËN						
1MT-705867-600	1264.14	91514046				
1MT-705959-000	95492854	95632734	1264.21	96015494		
1MT-821928-201	96.123.564					
1MT-832879-201	91.61.054					
FIAT						
1MT-705928-700	4114572	4235333	4263597	4318331	4340878	55331172 655331172
1MT-003046-011	4141538	4149117	4163888	4169122	4185217	4189508 4334613
1MT-003046-011	4414779	4448130	5984452	7588847	7588920	
1MT-725929-701	7738582	46477717				
FIAT LANCIA						
1MT-726928-700	5992746	7728057	50000969	82477919	7748867	82436410
FORD						
1MT-705928-700	81NU-14806-A					
1MT-717951-020	321.959.481.C					
1MT-705867-600	6120663	83GB-8B607-A2B				
1MT-705103-981	6077897	6077905	610433	6104434		
1MT-705103-981	77FB-8B607-A3D	78FB-000-8B607-A	81AB-8B607-A1A	81AB-8B607-A2A	D8RZ-8B607-C	
1MT-705100-951	6104435					
1MT-804102-971	92AB-8B607-AA	85GB-8B607-B1A				
1MT-804102-971	7001611	1652990	6142676	6186463	6186464	7001604
1MT-829100-110	6154134	7001605	87EB-8B607-AA	87EB-8B607-AB	87EB-8B607-AA	
1MT-829100-110	6190785	6190786	7001607	89EB-8B607-DA	89EB-8B607-DB	
1MT-820928-701	85AB-8B607-A3A	89FB-8B607-A1A	85AB-8B607-A3B	85AB-8B607-A3B	89FB-8B607-AA	
1MT-820928-701	1646398	6146107	6146110	6168439	6169111	6169112 6169113
1MT-820928-701	6496665	7001608				
1MT-787951-020	7215818	95/W-8B607-GA				
1MT-828951-001	7001606	89EB-8B607-AC				
GENERAL MOTORS						
1MT-372294-851	94846018					
1MT-705100-951	90108636					
1MT-705959-000	90087398					
1MT-740100-951	90242277					
1MT-761100-110	90339408					
1MT-767951-200	90357304					
1MT-871920-001	94853091					
1MT-821928-201	09.110.309					
HONDA						
1MT-811938-801	37760-P00-003	37760-P00-004	37773-PLZ-E01			
1MT-810928-071	37773-PH1-003	37773-PH2-621	37773-P10-004			
HYUNDAI						
1MT-868850-001	25360-37100					
ISUZU						
1MT-811938-801	5-06202-839-0					
IVECO						
1MT-726928-700	99460557					
JAGUAR						
1MT-705958-000	EAC.2510					
LADA						
1MT-705100-951	2108-38280-100					
1MT-766100-951	90339500					
LAND ROVER						
1MT-705103-981	PRC3366	PRC3505				
1MT-705959-000	PRC3541					

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MERCEDES BENZ						
1MT-833100-107	006 545 42 24					
62T-008729-001	006 545 15 24	006 545 40 24				
1MT-705115-119	002 545 79 34					
1MT-003090-011	002 542 73 17					
MITSUBISHI						
1MT-374485-801	MB-007639					
NISSAN						
1MT-792928-701	21595 01A00					
1MT-791877-701	21595 36A00					
1MT-788928-701	21595 60A00					
1MT-788928-701						
OPEL						
1MT-766100-951	1341023					
1MT-705100-951	1341 002	1341 007				
1MT-705959-000	1341 003					
1MT-801959-001	1341 010					
1MT-740100-951	13401011	13401017				
1MT-761100-110	1341025					
1MT-767951-200	1846326					
1MT-821928-201	44 02 309					
1MT-832879-201	45 00 754					
PEUGEOT						
1MT-726928-700	1264 32					
1MT-705867-600	1264 03	1264 14				
1MT-705826-800	242 12					
1MT-705959-000	1264 21					
1MT-705958-000	1264 2	1264 05	1264 09	1264 12	1264 15	
1MT-725929-701	1264 2					
RENAULT						
1MT-705867-600	77 01 348 194					
1MT-705958-000	08 55 957 600	77 00 618 658	77 00 622 019	77 00 759 441	77 01 348 765	77 01 349 694
1MT-821928-201	7700 782 503	7700 812 371				
1MT-832879-201	7700 839 072	7701 036 113				
ROVER						
1MT-811938-801	GTR274	PEJ100110	PEJ100120			
SAAB						
1MT-705928-700	40 86 708	85 47 572	85 33 226	85 61 367	85 69 238	95 26 518
1MT-705115-119	40 86 724	85 72 331	95 26 526	95 52 878		
SEAT						
1MT-705928-700	0004318331	SE 1 27952 600A				
1MT-717951-020	SE-023952600-A	321 959 481 D	191 959 481 C			
1MT-003046-011	FA-947000.00	FA-947000.01	FC-952600.01	FC-952600.02	HL-947000.50	SE-147947000A
SKODA						
1MT-717951-020	6U0 959 481	6U0 959 481 A				
1MT-705959-000	113-095 070	113-095 073	114-095 070	004 433 017	6U0 959 481 E	
TOYOTA						
1MT-372294-851	89428-15011	89428-32010				
1MT-372485-800	89428-10100	89428-10110	89428-10090			
1MT-814908-501	89428-33010	89428-06010				
1MT-871920-001	89428-12160	89428-12150				
TOYOTA DAIHATSU						
1MT-872900-001	89428-10120					
VOLKSWAGEN						
1MT-705103-981	251 959 481					
1MT-705959-000	175959481	823 959 481 G	823 959 481 K	6U0 959 481 E	823 959 481 F	823 959 481 A
1MT-718959-000	307959481.1					
1MT-717929-601	251 959 481 C	251 959 481 D				
1MT-717951-020	251 959 481 H	321 959 481 C	251 959 481 G	321 959 481 A	321 959 481 D	
1MT-717951-020	191 959 481 A	191 959 481 C	6U0 959 481	6U0 959 481 A		
1MT-795959-000	867959481					
1MT-787951-020	1H0 959 481 B					
1MT-717879-200	251 959 481 G	251 959 481 K	251 959 481 H			
VOLVO						
1MT-718959-000	191 959 481 B	307 959 481 1	321 959 481 E			
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1F8-181541-011	Z1541	2.1. 2	1H4-027996-061	H27996061	2.1. 66	1ML-012488-111	A4886	2.1. 16
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1FD-010953-817	A3817	2.1. 9	1HT-004942-071	DT3MKT	2.2. 9	1MT-003046-011	FS3046	2.3. 4
1FD-923116-801	A8075	2.1. 14	1HT-004943-071	DT3FRT	2.2. 9	1MT-003057-011	TS3057	2.3. 9
1FE-006300-121	A1220	2.1. 12	1HT-004944-071	DT4MKT	2.2. 9	1MT-003062-011	TS3062	2.3. 9
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CH7P-8	6EH-188704-161	22.21	DA0241	5DA-358000-241	22.24	DA5711	5DA-193175-711	22.25
CH8P-8	6EH-188704-171	22.21	DA0251	5DA-358000-251	22.24	DA5721	5DA-193175-721	22.25
CM7RP-11	6EH-188704-181	22.21	DA0261	5DA-358000-261	22.25	DA5731	5DA-193175-731	22.25
CM7RP-8	6EH-188704-291	22.21	DA0271	5DA-358000-271	22.24	DA5741	5DA-193175-741	22.25
CM8RP-11	6EH-188704-191	22.21	DA0281	5DA-358000-281	22.25	DA5751	5DA-193175-751	22.25
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CV8P-9	6EH-188704-331	22.21	DA0301	5DA-358000-301	22.25	DA5771	5DA-193175-771	22.25
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D1101	6EK-001559-001	22.4	DA0341	5DA-358000-341	22.24	DA5801	5DA-193175-801	22.25
D1102	6EF-001571-101	22.7	DA0351	5DA-358000-351	22.25	DA5811	5DA-193175-811	22.25
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D2244	6FH-004570-177	22.5	DA0431	5DA-358000-431	22.25	DA5891	5DA-193175-891	22.25
D2245	6EM-004570-221	22.5	DA0441	5DA-358000-441	22.25	DA5901	5DA-193175-901	22.25
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DF012	6EH-004407-012	22.4	DA5381	5DA-193175-381	22.25	DT2MKT	1HF-004940-071	22.9
DF042	6EH-004407-042	22.4	DA5391	5DA-193175-391	22.25	DT3FKT	1HF-004943-071	22.9
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