Fog Lights

Job No. 82 — 19

A. Subsequent Installation of Fog Lights (Optional, SA 1412 - 120)

The feed cable for the fog lights is incorporated in the main wiring harness; it is located at the inside of the right wheel arch assembly.

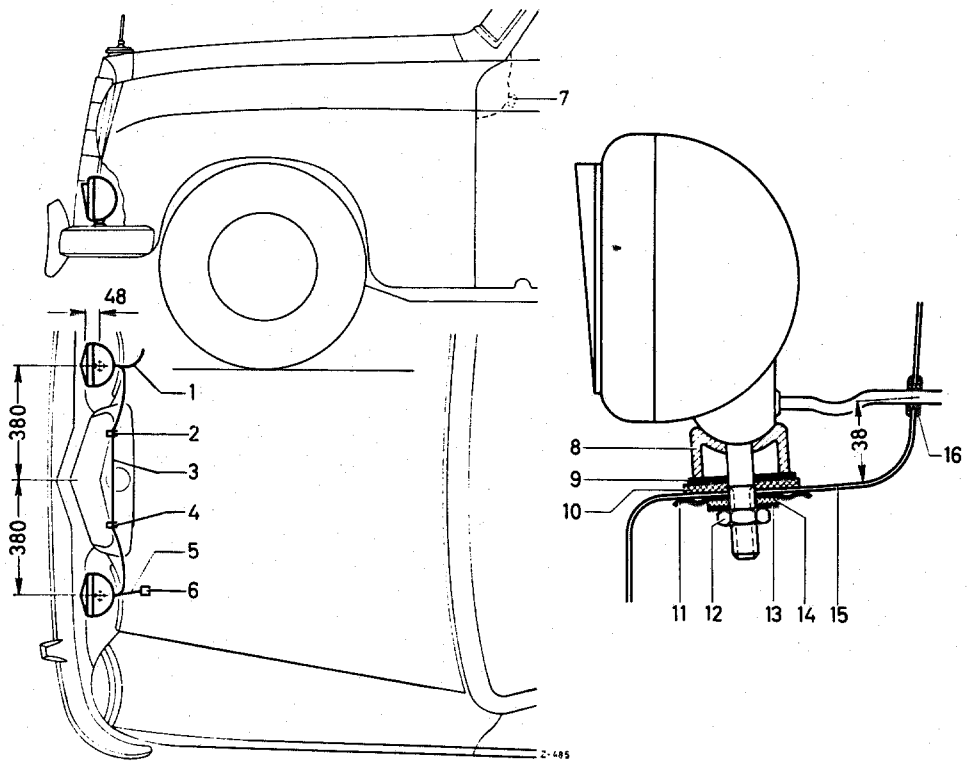

Fig. 82 — 19/1

1 Feed cable for the fog lights
2 Cable clip
3 Shunt cable
4 Cable clip
5 Ground cable
6 Cable connector for blower at left wheel arch assembly
7 Rotary light switch for fog light
8 Mounting pedestal
9 Washer
10 Rubber pad
11 Washer
12 Hexagon nut
13 Washer
14 Rubber washer
15 Panelling
16 Rubber grommet

1. For fixing the two fog lights, drill a hole 12.5 mm diameter on each side, according to the dimensions given (see Fig. 82 — 19 1).

2. Bore a 10 mm diameter hole in the panelling on each side for the cables (15), according to the dimensions given, and fit a rubber grommet (16) in each hole.

3. Fit the fog light or fog lights, using the specified washers and rubber washers (see Fig. 82 — 19 1).

4. Pull Cable Sheaf 21 (1) of the main wiring harness for the fog light, right, through the right rubber grommet (16), rubbing a little tallow on the outside of the insulation sleeve.

5. Connect the electric cables to the lamp holder, paying attention to the color coding. Connect as follows:

   The black cable (Lead No. 15) to Terminal 56a,

the brown cable (Lead No. 36) to Terminal 31 (see Job No. 54 — 1, Section A, Circuit Diagram of Main wiring Harness, Cable Sheaf 21).

If a second fog light is to be installed in addition, the following procedures should be carried out:

6. Before pulling Cable Sheaf 21 through the rubber grommet (16), the shunt cable (3) must be pulled through the insulation sleeve of the cable sheaf.

7. Connect the shunt cable (3) (Cable A 1.5 DIN 72 551, 1500 mm long), together with the black cable (Lead No. 15) of the Main Wiring Harness, to Terminal 56a of the fog light.

8. Push the insulation sleeve (B 4 × 5 sw DIN 40 621, 1200 mm long) over the shunt cable and take the shunt cable (3) with the insulation sleeve along the headlight cable to the left fog light and fix it under the existing cable clips (2) and (4).

   Solder a spade terminal 4 × 0.8 N 261 to one end of the ground cable (5) (A 1.5 DIN 72 551, 800 mm long, for the left fog light).

9. Pull the shunt cable (3), together with the ground cable (5) for the left fog light, through the rubber grommet (16), using an insulation sleeve (B 6 × 7 2 sw DIN 40 621, 1000 mm long). Rub the insulation sleeve with a little tallow on the outside.

10. Connect the shunt cable (3) Terminal 56a and the ground cable (5) to Terminal 31 of the lamp holder.

11. Connect the other end of the ground cable (5) with the spade terminal to the ground cable connection (brown cable) of the cable connector (6) for the blower at the left wheel arch assembly.

List of Parts:

Number of fog lights 1 Number	Number of fog lights 2 Number	Designation	Part No.
1	2	Fog lights	
		130 diameter, clear, Bosch	000 544 30 06
		Hella	000 544 32 06
1	2	Fog lights	
		130 diameter, yellow, Bosch	000 544 31 06
		Hella	000 544 33 06
1	2	Mounting pedestal	183 544 04 25
1	2	Washer	186 990 44 40
1	2	Pad — rubber, black	183 544 00 26
		or grey	183 544 01 26
1	2	Washer	000 984 21 56
1	2	Rubber washer	000 987 07 41
1	2	Washer	A 12 DIN 9021
—	1	Lead	A 1.5 DIN 72551; 1500 l.
—	1	Lead (ground)	A 1.5 DIN 72551; 800 l.
—	1	Spate terminal	4 × 0.8 N 261
—	1	Insulation sleeve	B 4 × 5 sw DIN 40621; 1200 l.
—	1	Insulation sleeve	B 6 × 7 2 sw DIN 40621; 1200 l.
1	2	Rubber grommet	000 997 18 81
1	2	Bulb	D 12 V. 35 W. DIN 72601

B. Subsequent Installation of Contactor for Automatic Switch-off of Fog Lights (Optional, SA 569 2 - 136)

1. Disconnect the ground cable from the negative terminal of the battery.

2. Remove the cover of the fuse box. Unscrew the two fixing screws for the fuse box and pull out the fuse box (10) forward (Fig. 82 — 19 2).

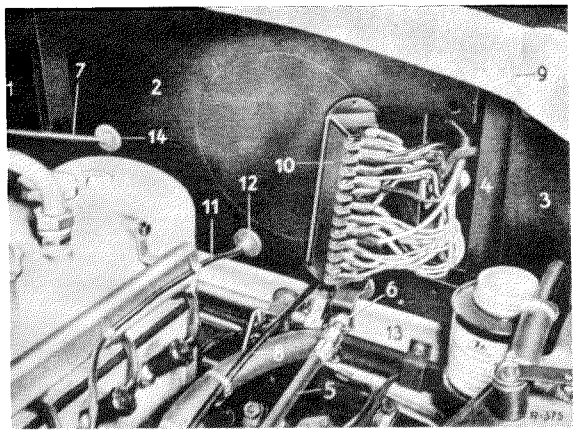

Fig. 82 — 19/2

1 Right engine compartment panel
2 Center engine compartment panel
3 Left engine compartment panel
4 Fuse box bracket (Left-hand-drive vehicles only)
5 Flexible hose of oil pressure gage line
6 Lock nut
7 Choke cable
8 Bowden cable for octane number compensator
9 Foam rubber sound-absorbing material
10 Fuse box
11 Radiator thermometer pipe
12 Rubber grommet
13 Oil pressure gage line
14 Rubber grommet

3. Solder spade terminals onto the cables which are necessary for connecting the contactor (see List of Parts), one on each end of the two black cables and the brown cable and on one end of the white cable.

4. Unscrew the two hexagon screws (7) for fixing the two flash signal mechanisms (8) and (9) (see Fig. 82 — 19 3).

5. Fix the bracket (5) for the contactor (10) with the two flash signal mechanisms (8) and (9) to the bracket (6), screwing in the two hexagon screws (7) with lock washers (Fig. 82 — 19 3).

6. Nip off the grey/red cable (Lead No. 52, Cable Sheaf 2 of the Main Wiring Harness), 2.5 mm² in section, coming from Fuse No. 8, as close as possible to the terminal of the fuse box.

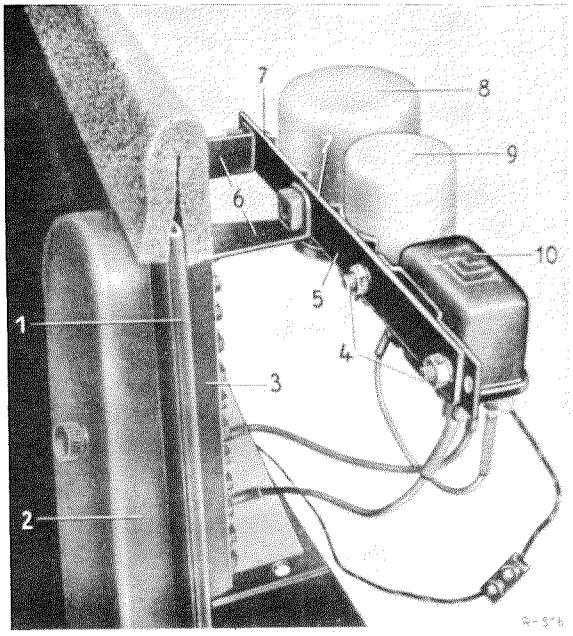

Fig. 82 — 19/3

1 Center engine compartment panel
2 Cover of fuse box
3 Fuse box
4 Cheese-head screws AM 4×6
5 Bracket for contactor
6 Bracket for flash signal mechanisms
7 Hexagon screws M 6×10
8 Upper beam flash signal mechanism
9 Flash direction signal mechanism
10 Contactor for automatic switch-off of the fog lights

7. Use a house wiring connector to connect the nipped-off cable to the white cable, 1.5 mm² in section.

   Connect the other end of the white cable to Terminal 87a of the relay (10).

8. Connect the black cable, 0.5 mm² in section, to Fuse No. 10 of the fuse box and to Terminal 86 of the contactor (10).

9. Connect the black cable, 1.5 mm² in section, to Fuse No. 8 of the fuse box and to Terminal 30 51 of the contactor (10).

10. Connect the brown cable, 0.5 mm² in section, to Terminal 85 of the contactor (10) and in the case of the Hella flash direction signal mechanism, to Terminal 31 of the flash signal mechanism (9).
If an SWF flash signal mechanism was installed, the cable must be connected to a fixing screw (4) of the contactor or taken to ground at some other suitable point.

11. Screw the contactor (10), with the two cheese-head screws (4) and with lock washers and nuts to the bracket (5) (see Fig. 82 — 19/3).

12. Press the fuse box (10) into the engine compartment panel, screw in the two fixing screws and screw on the cover of the fuse box (see Fig. 82 — 19/2).

13. Connect the ground cable to the negative terminal of the battery.

14. Check the functioning of the contactor.

List of Parts:

Number	Designation	Part No.
1	Contactor, 12 Volts, with closed-circuit contact	000 542 16 16
1	Bracket for contactor	180 544 00 38
2	Cheese-head screw	A M 4 × 6
2	Lock washer	B 4 DIN 127
2	Hexagon nut	M 4 DIN 934—5 S
1	House wiring connector, No.1, one-way	000 546 00 42
7	Spade terminal	4 × 0.8 N 261
1	Electric cable, black, 1.5 mm² 400 mm long	DIN 72551
1	Electric cable, white, 1.5 mm² 400 mm long	DIN 72551
1	Electric cable, black, 0.5 mm² 400 mm long	DIN 72551
1	Electric cable, brown, 0.5 mm² 150 mm long	DIN 72551