


A. Removal and Installation of Disk-Type Horn

Removal:

1. Open the hood.
2. Disconnect the two cable connections at the disk-type horn.
3. Unscrew the hexagon screw (11) (see Fig. 54 — 15/1) and take off the disk-type horn (4) together with the flexible suspension.

Installation:

4. Installation is the reverse of the removal procedure.

Connect the two black/yellow cables (Leads Nos. 1 and 2) to the horn (see Job No. 54—1, Section A, Circuit Diagram of Main Wiring Harness, Cable Sheaf ).

B. Subsequent Installation of Two-Tone Extra-Loud Horn Assembly

(Optional, SA 10 210)

1. Disconnect the ground cable at the negative terminal of the battery.
2. Remove the standard Bosch or Hella disk-type horn (4) which is mounted on the front cross tube (see Section A).
3. Screw the Bosch two-tone extra-loud horn HO/FSA 12 3/8 A (horn with deep tone) onto the bracket (6) of the disk-type horn which was removed.
4. Hold the bracket (7) in accordance with the specified dimensions (see Fig. 54 — 15/1) on the left fork support (8) and against the wheel arch assembly (10). With the bracket in this position, mark the bores for the two hexagon screws (9) of the bracket on the wheel arch assembly (10) and bore out with a 6.5 mm diameter drill. Clean the bores and fix the bracket (7) with the two hexagon screws (9) M 6 × 15 with nuts, lock washers and washers.
5. Screw the Bosch two-tone extra-loud horn (5) HO FSA 12 4/8 A (horn with medium tone) with the hexagon screw (11) M 10 × 28

with nut and lock washer, onto the bracket (7).

6. Connect the standard cables and the two cables of 2.5 mm² section, 900 mm long, to the two-tone extra-loud horn (4).

Note: There is no difference between the connections for the installation of the two-tone extra-loud horn assembly and those of the standard horn assembly. The two horns should be connected in parallel so that the extra set of cables required consists only of two black/yellow cables to shunt the two horns.

7. Connect the other end of the extra cable set to the second two-tone extra-loud horn (5). When doing this, care must be taken to ensure that each cable is connected to the same terminal on the second as on the first two-tone extra-loud horn (4).
8. Reconnect the ground cable to the negative terminal of the battery, switch on the ignition and test the assembly.

List of Parts:

Number	Designation	Part No.
1	Extra-loud horn Bosch HO/FSA 12 3/8 A	000 542 33 20
1	Extra-loud horn Bosch HO/FSA 12 4/8 A	000 542 34 20
1	Bracket for second horn	120 542 04 40
1	Hexagon screw	M 10×28 DIN 931 — 8 G
1	Lock washer	B 10 DIN 127
1	Hexagon nut	M 10 DIN 934 — 5 S
2	Hexagon screw	M 6×15 DIN 933 — 8 G
2	Lock washer	B 6 DIN 127
2	Washer	A 6 DIN 9021
2	Hexagon nut	M 6 DIN 934 — 5 S
2	Cheese-head screw	AM 4×8 DIN 84 — 4 S
2	Lock washer	B 4 DIN 127
2	Cable, 2.5 mm ² , 900 mm long for shunting of extra-loud horn 1 and extra-loud horn 2	

C. Subsequent Installation of Three-Tone Horn Assembly (Optional, SA 10209)

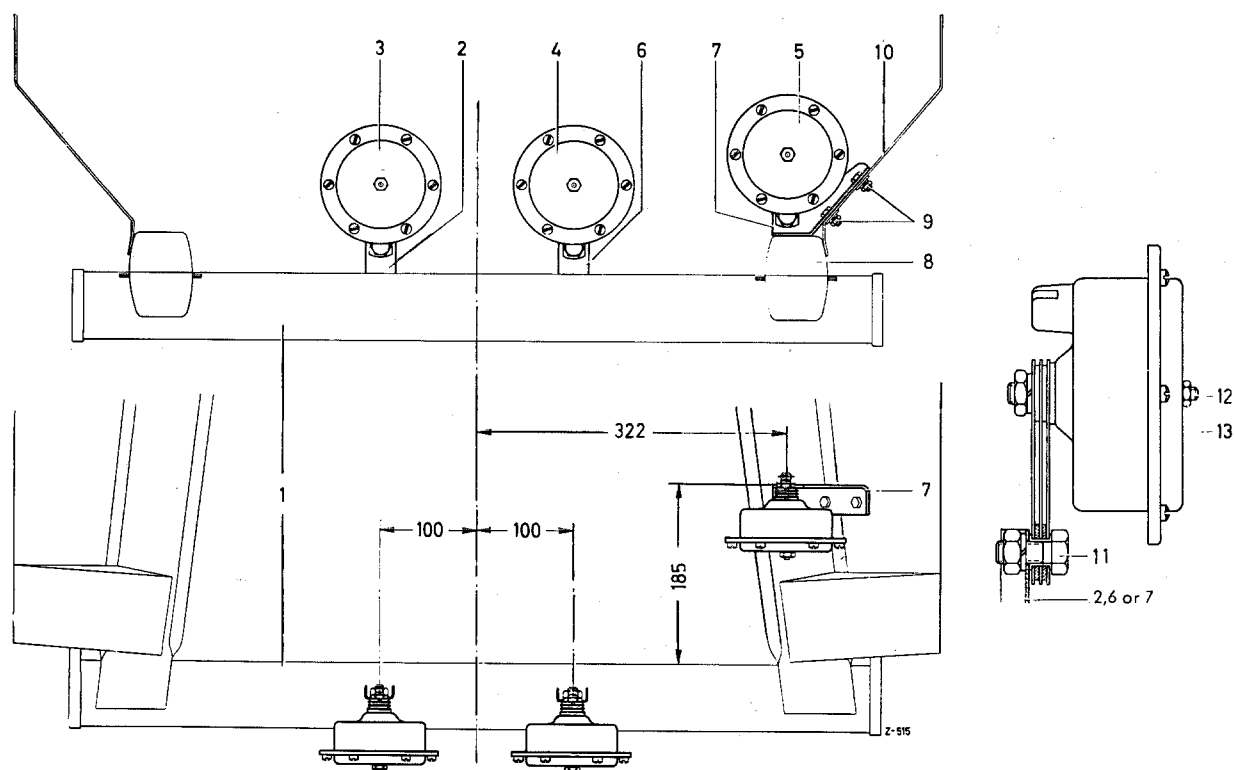


Fig. 54 — 15/1

- 1 Front cross-tube
- 2 Bracket (pedestal) for disk-type horn
- 3 Disk-type horn
- 4 Disk-type horn
- 5 Disk-type horn

- 6 Bracket (pedestal) for disk-type horn
- 7 Bracket for disk-type horn
- 8 Left fork support
- 9 Hexagon screws M 6 × 15

- 10 Wheel arch assembly left
- 11 Hexagon screw M 10 × 28
- 12 Adjusting screw
- 13 Hexagon nut

1. Disconnect the ground cable at the negative terminal of the battery.
2. Bore out the hole of the bracket (7), for fixing the push-pull switch (4), to 13 mm diameter (Fig. 54 — 15/2).

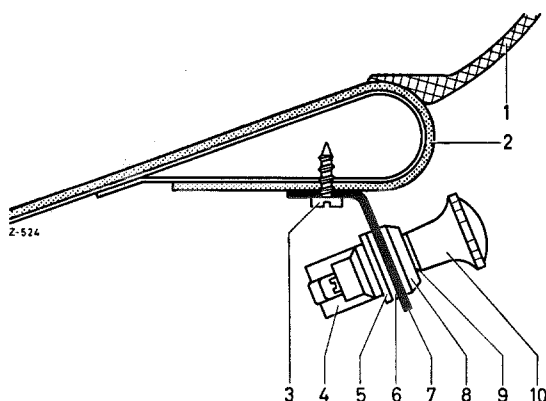


Fig. 54—15/2

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|----------------------------------------------------|----------------------------|
| 1 Instrument panel | 6 Washer |
| 2 Stiffening plate | 7 Bracket 10 120 869 00 14 |
| 3 Cheese-head self-tapping screw S 4.2X16 DIN 7971 | 8 Escutcheon |
| 4 Push-pull switch | 9 Felt washer |
| 5 Washer | 10 Control knob |

3. Hold the bracket (7) approx. 200 mm to the left of the center-line of the car under the instrument panel against the stiffening plate (2), mark the two bores for fixing the bracket and bore them out with a 2.3 mm diameter drill.

4. Screw the bracket (7) to the stiffening plate (2) with 2 chromium-plated cheese-head self-tapping screws S 4.2 X 16 DIN 7971 (see Fig. 54 — 15/2).

5. Hold the bracket (7) in accordance with the specified dimensions (see Fig. 54 — 15/1) on the left fork support (8) and against the wheel arch assembly (10). Mark the bores for the two hexagon screws (9) and bore out with a 6.5 mm diameter drill. Clean the bores and fix the bracket (7) with the two hexagon screws (9) M 6 X 15 with nuts, lock washers and washers.

6. Weld the bracket (2) to the cross-tube (1) in accordance with the specified dimensions (see Fig. 54 — 15/1).

7. Screw the disk-type horn (5) Bosch HO/FDF 12 4/8 (with medium tone) with the hexagon screw (11) M 10 X 28, together with nut and lock washer, onto the bracket (7) which is fitted to the wheel arch assembly.

8. Screw the disk-type horn (3) Bosch HO/FDF 12 5/8 (with high tone) with the hexagon screw (11) M 10 X 28, together with nut and lock washer, to the bracket (2) which has been welded to the cross-tube.

9. Unscrew the two hexagon screws (7) for fixing the two flash signal mechanisms (8) and (9) (see Fig. 54 — 15/3).

Note: The procedures in Paras. 9 and 10 are not necessary if the contactor (10) for the fog lights or the bracket (12) for the contactor (10) are already fitted

In this case the contactor (5) for the horn assembly should be so mounted that the rear sides of the two contactors are facing each other (Fig. 54 — 15/3).

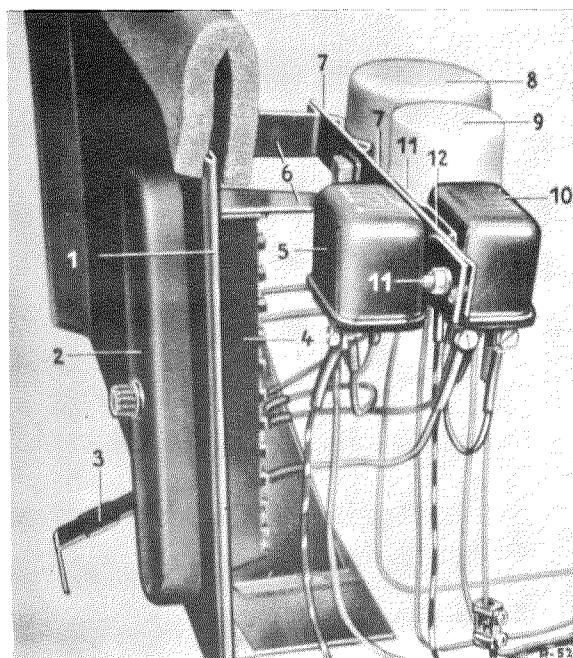


Fig. 54 — 15/3

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|---------------------------------------------------------------|------------------------------------------------------|
| 1 Bracket for the fuse box at center engine compartment panel | 7 Hexagon screws M 6X10 |
| 2 Cover of fuse box | 8 Flash signal mechanism for upper beam |
| 3 Bracket for oil pressure gage line | 9 Flash signal mechanism for flash direction signals |
| 4 Fuse box | 10 Contactor for automatic switch-off of fog lights |
| 5 Contactor for three-tone horn assembly | 11 Cheese-head screws |
| 6 Bracket for flash direction signal mechanism | 12 Bracket for contactor |

10. By screwing in the two hexagon screws (7) with lock washers, fix the bracket (12) for the contactor (5) with the two flash signal mechanisms (8) and (9) to the bracket (6).
11. Take the cover off the fuse box. Unscrew the two fixing screws for the fuse box (10) and pull the fuse box out forward (Fig. 54 — 15/4).

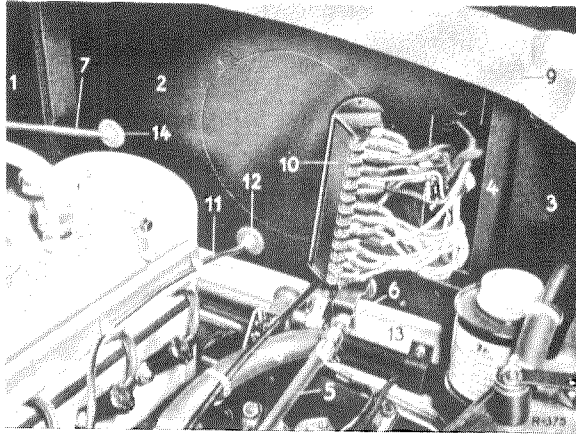


Fig. 54 — 15/4

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

12. Connect the cable, 2.5 mm² in section and 1000 mm long, to Terminal 30/51 of the contactor (5) and to Fuse No. 3 of the fuse box. Connect the cable, 1.5 mm² in section and 80 mm long, with two spade terminals 4 × 0.8 N 261 and the two rubber grommets Part No. 000 997 01 81 to Terminal 30/51 and to Terminal 86 of the contactor (see Fig. 54 — 15/3).
13. 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.
14. Connect one of the black/yellow cables of the extra cable set, 1 mm² in section and

1500 mm long, with the spade terminal to Terminal 85 of the contactor (5) and the other black/yellow cable to the black yellow lead of the main wiring harness at the cable connector for the steering (see Job No. 54 — 1, Section A Circuit Diagram of Main Wiring Harness, Cable Sheaf **28**).

15. Connect the other two ends of the cables of the extra cable set to the push-pull switch (4) (see Fig. 54 — 15/2).
16. Push the washers (5) and (6) onto the push-pull switch (4). Place the push-pull switch in position in the bracket (7) (see Fig. 54 — 15/2), screw on the escutcheon (8) and tighten up with Hook Wrench 136 589 02 05.

Then push on the felt washer (9) and screw on the control knob (10).

17. Connect the electric cable, 2.5 mm² in section and 700 mm long, to Terminal 87 of the contactor and to the disk-type horn (5) Bosch HO/FDF 12 4/8, which is fixed to the wheel arch assembly.
18. Connect the other extra cable set with the black/yellow cables, 2.5 mm² in section and 1000 mm long, to the disk-type horn (5) HO/FDF 12 4/8 and to the disk-type horn (3) HO/FDF 12 5/8.

19. Connect the brown ground cable, 2.5 mm² in section and 300 mm long, to the disk-type horn (5) HO/FDF 12 4/8 and to the ground connection of the cable connector for the blower at the left wheel arch assembly.
20. If the vehicle is fitted with a disk-type horn (4), make Hella, Part No. 000 542 73 20, as standard equipment, the latter must be replaced by the disk-type horn, make Bosch, HO/FDF 12 3/8 (see Section A).
21. Connect the ground cable to the negative terminal of the battery, switch on the ignition and check the assembly.

List of Parts:

Number	Designation	Part No.
1	Disk-type horn Bosch HO/FDF 12 3/8 (only necessary if a Hella disk-type horn was installed as standard equipment)	000 542 44 20
1	Disk-type horn Bosch HO/FDF 12 4/8	000 542 45 20
1	Disk-type horn Bosch HO/FDF 12 5/8	000 542 46 20
1	Bracket for disk-type horn at wheel arch assembly left	120 542 04 40
2	Hexagon screw	M 6×15 DIN 933 — 8 G
2	Lock washer	B 6 DIN 127
2	Washer	A 6 DIN 9021
2	Hexagon nut	M 6 DIN 934 — 5 S
2	Hexagon screw	M 10×28 DIN 931 — 8 G
2	Lock washer	B 10 DIN 127
2	Hexagon nut	M 10 DIN 934 — 5 S
1	Bracket for disk-type horn at front cross-tube	10 120 612 00 31
1	12 Volt contactor with operating contact	000 542 15 19
1	Bracket for contactor	180 544 00 38
2	Cheese-head screw	AM 4×6 DIN 84
2	Lock washer	B 4 DIN 127
2	Hexagon nut	M 4 DIN 934 — 5 S
1	Push-pull switch	120 540 00 44
1	Bracket for push-pull switch	10 120 869 00 14
2	Cheese-head self-tapping screws	S 4.2×16 DIN 7971
1	Extra cable set with 2 cables each 1 mm ² in section and 100 mm long	
1	Extra cable set with 2 cables each 2.5 mm ² in section and 1000 mm long	
1	Electric cable, 2.5 mm ² in section and 1000 mm long	
1	Electric cable, 2.5 mm ² in section and 700 mm long	
1	Electric cable, 2.5 mm ² in section and 300 mm long	
1	Electric cable, 1.5 mm ² in section and 80 mm long	B 1 DIN 72551
2	Spade terminal	4×0.8 N 261
2	Rubber grommet	000 997 01 81
2	Cheese-head screw (for cable connection at disk-type horn)	AM 4×8 DIN 84
2	Lock washer	B 4 DIN 127