



Installation instructions

Transmission oil cooler with supplementary fan

27.1

Models 124.133/193/333/393

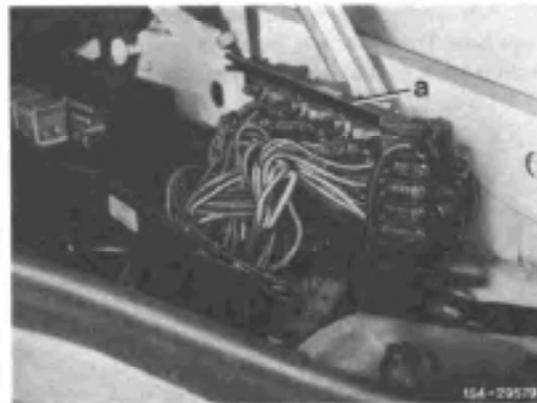
The transmission oil cooler with supplementary fan is required only on vehicles with air conditioning or automatic climate control and trailer coupling, when the trailer load amounts to more than 1500 kg total load.

Scope

- 1 Remove battery.
- 2 Remove cover (arrow).
- 3 Remove air cleaner housing.
- 4 Remove RH turn signal lamp and headlamp.



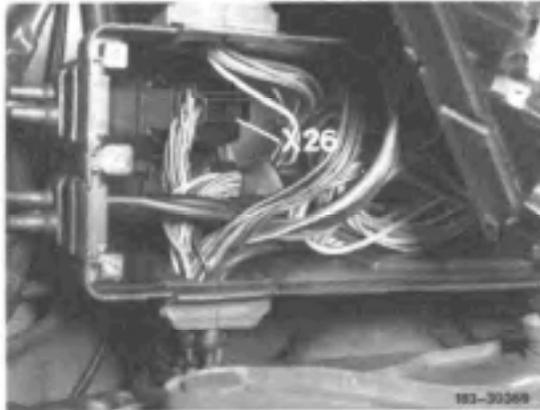
- 5 Remove both covers of fuse/relay box. Then loosen fuse carrier (a) and put aside.



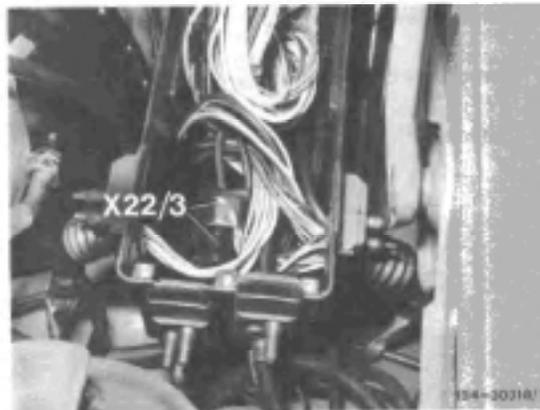
- 6 Loosen relay holder and engage 6-pole connector of auxiliary harness in characteristic field E.
- 7 Insert relay holder and connect relay (K25).
- 8 Connect pink/red line to fuses 7 and 11 (input end) according to identification.
- 9 Connect black/blue line to fuse 11 (output end).



- 10 Loosen connector (X26), open connecting element and remove violet line (location 10) from connector. Then close connecting member and fasten connector again.



- 11 Mount insulating body to removed violet line and connect with single-pole plug of supplementary harness (connector X22/3).
- 12 Remove three-point connector and rubber grommet of supplementary harness (refer to page 7).



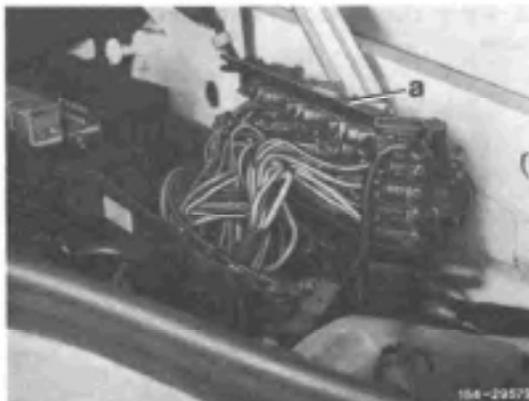
- 13 Pull supplementary harness at front out of fuse/relay box. Then continue installing lower housing from the left to the right and fasten.



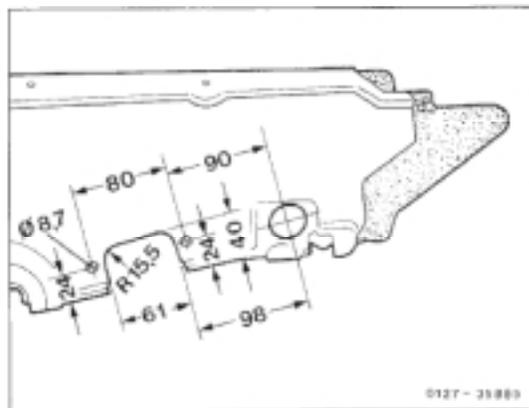
- 14 Connect grounding line to ground (W10).
- 15 Install supplementary harness along RH wheel assembly up to front cross member and fasten.



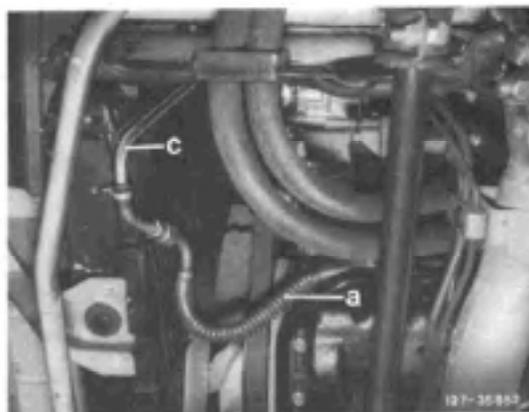
- 16 Fasten fuse carrier (a). Insert fuse 11.
- 17 Put back cover of fuse/relay box.
- 18 Remove noise capsule front member.
- 19 Remove RH noise capsule side member.



- 20 Mark cutout and bores on noise capsule side member and finish cutout.
- 21 Install noise capsule side member.



- 22 Remove oil hoses (a and b), as well as oil line (c).



a Oil hose
b Oil line



b Oil hose

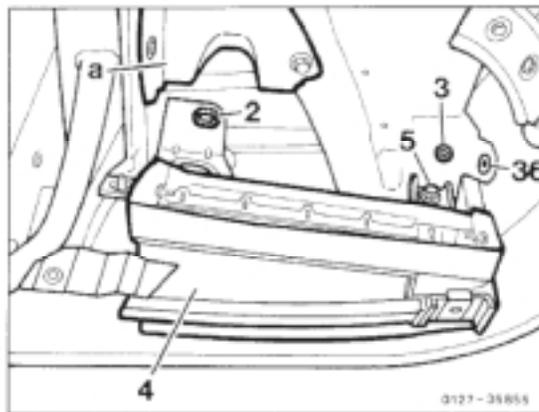
23 Mount closing plug [1] at top and below on oil cooler.



24 Remove cover (a).

25 Mount rubber grommets and rubber buffer on wheel assembly.

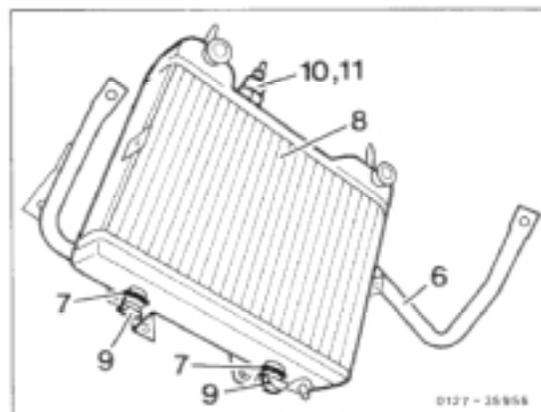
26 Insert air guide scoop and fasten at the right.



- 2 Rubber grommet
- 3 Rubber grommet
- 4 Air guide scoop
- 5 Collar nut
- 36 Rubber buffer
- a Cover

- 27 Insert rubber grommets into fastening bracket.
- 28 Screw in temperature switch with sealing ring at oil cooler.
- 29 Mount fastening bracket to oil cooler.

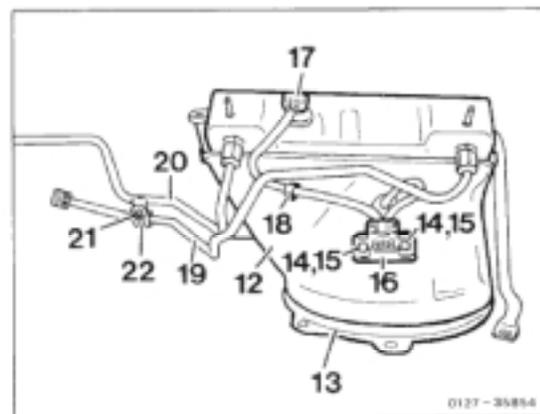
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|----|--------------------|
| 6 | Fastening bracket |
| 7 | Rubber grommet |
| 8 | Oil cooler |
| 9 | Clip |
| 10 | Temperature switch |
| 11 | Sealing ring |



- 30 Mount blower housing and screw laterally to fastening bracket with screws N 4.8 x 13 and washers B4.2.

- 31 Insert blower while pulling harness through blower housing and inserting rubber grommet. Then screw blower to fastening bracket, using nut with plastic insert for this purpose.

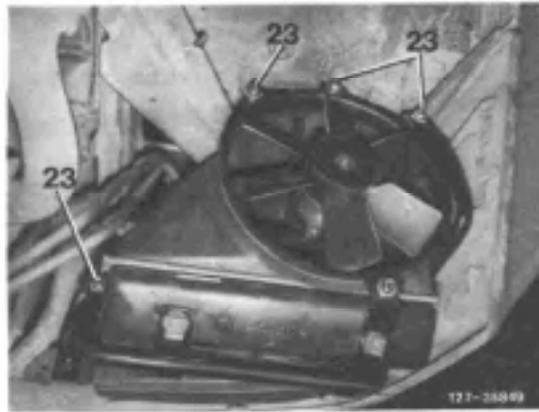
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|----|----------------|----|-------------|
| 12 | Blower housing | 18 | Clamp |
| 13 | Blower | 19 | Oil line |
| 14 | Plate nut | 20 | Oil line |
| 15 | Screw B4.8x16 | 21 | Screw M6x16 |
| 16 | Plug | 22 | Clamp |
| 17 | Socket | | |



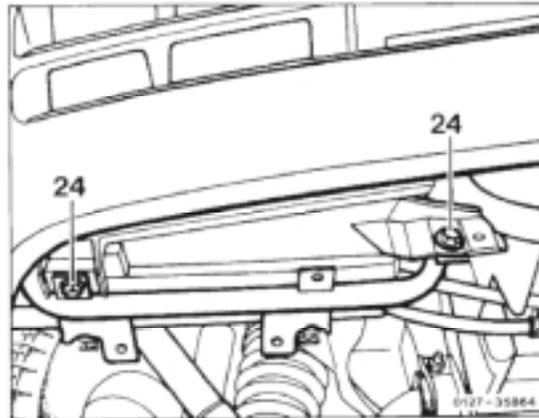
- 32 Insert plate nuts into blower housing and screw on 3-pole plug.
- 33 Insert lines into 3-pole plug (refer to wiring diagram) and close plug.
- 34 Attach socket to blower harness (refer to wiring diagram) and press onto temperature switch.
- 35 Mount oil lines on oil cooler and connect both oil lines with clamp.



36 Insert completed oil cooler into wheelhouse while plugging 3-pole socket of supplementary harness onto plug on blower housing. Then fasten oil cooler.

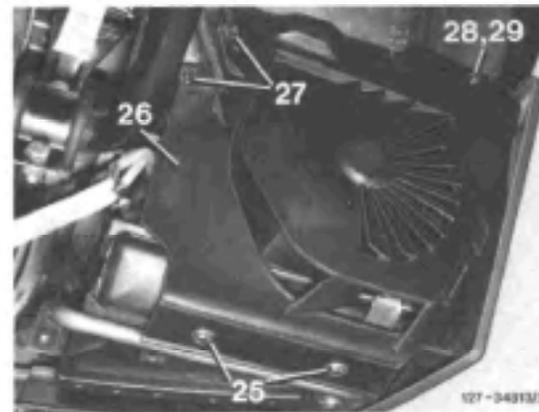


23 Nut with plastic insert M6



24 Screw M6x16

37 Mount cover.

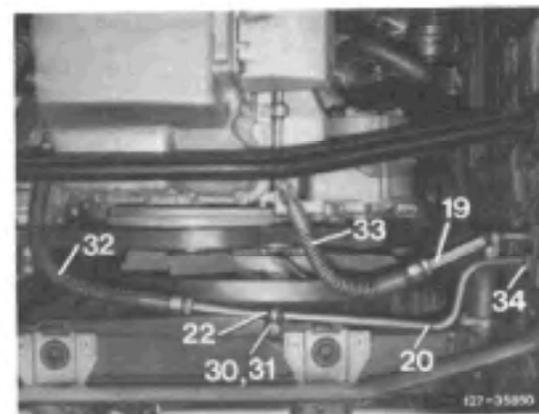


25 Screw M6x12
26 Cover
27 Plastic nut
28 Plate nut
29 Screw B6.3x16

38 Mount rubber grommet to oil lines and noise capsule side member.

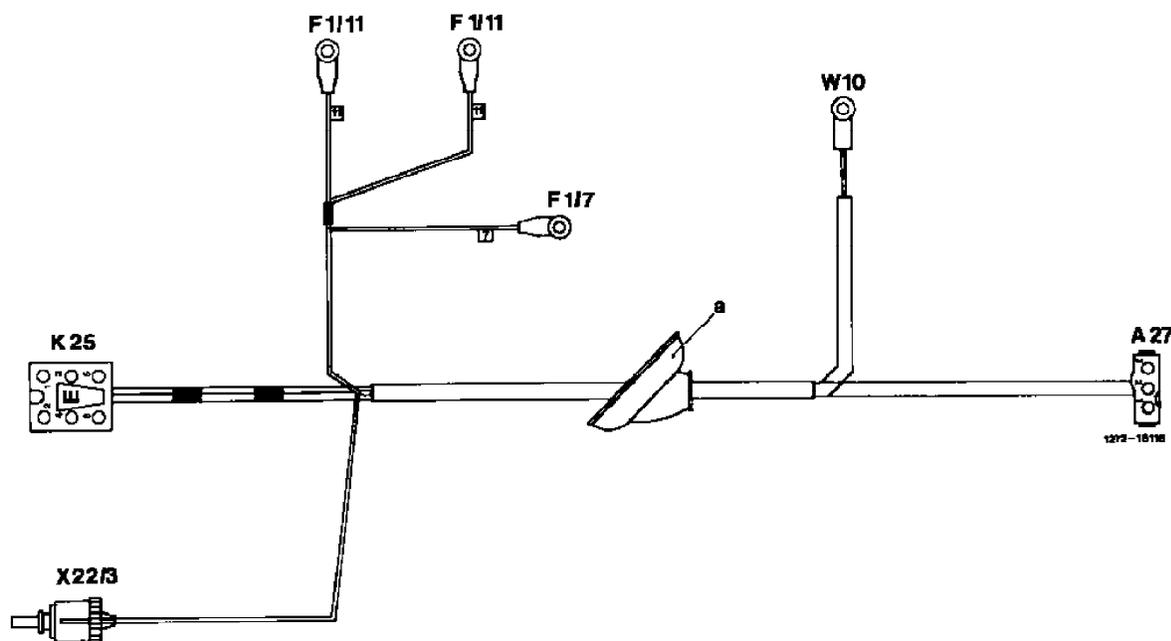
39 Fasten oil line with existing clamp to cooler, insert nut (M6) into cooler fastening for this purpose.

40 Mount oil hoses.



19 Oil line	31 Screw M6x16
20 Oil line	32 Oil hose
22 Clamp	33 Oil hose
30 Nut M6	34 Rubber grommet

- 41 Install battery and connect.
- 42 Check blower for function, while switching on ignition and bridging temperature switch. Switch off ignition after checking.
- 43 Install headlamp and turn signal.
- 44 Install air cleaner housing.
- 45 Check transmission oil level of automatic transmission and correct (refer to Maintenance Manual Volume 2, 2710).
- 46 Check transmission oil cooler and lines for leaks.
- 47 Install noise capsule front member.



Harness

A27 3-pin connector on blower housing
 F1 Fuse/relay box
 Fuse 7 (input end) terminal 15
 (line color pink/red)
 Fuse 11 (input end) terminal 16
 (line color pink/red)
 Fuse 11 (output end) terminal 15
 (line color black/blue)

W10 Ground, battery
 X22/3 Connector transmission-cooling 1-pin
 a Rubber grommet (remove)

