

Data

Pressure switch in receiver dehydrator	Cut-out pressure: 2 + 0.2 bar gauge pressure Cut-in pressure: max. 0.6 bar above cut-out pressure
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Tightening torque	Nm
Pressure switch	20 ± 4

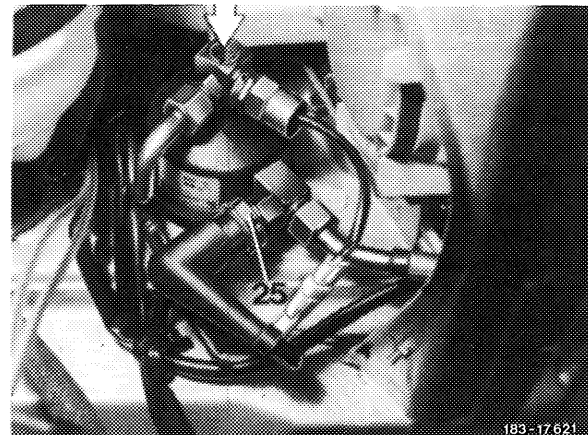
Note

Drain refrigerant of air-conditioning system for removing pressure switch (25) (83–516).

Checking pressure switch (25)

Check cut-in pressure (air-conditioning system filled with refrigerant).

- 1 Run engine and switch-on air-conditioning system (switch-on blower and temperature dial).
- 2 If electromagnetic clutch of refrigerant compressor is not attracting, check the two flat plugs on pressure switch for voltage (do not pull plug from pressure switch).
- 3 If both plugs of pressure switch are carrying voltage, a fault on coil of electromagnetic clutch or on electric line between pressure switch and clutch coil is indicated (83–508).
- 4 If only one flat plug of pressure switch is carrying voltage, an insufficient quantity of refrigerant in air-conditioning system is indicated (refer to sight glass: arrow) or pressure switch is defective.



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5 To check refrigerant level, pull the two electric lines from pressure switch and connect to each other (short-circuit). Run air-conditioning system for approx. 2–3 minutes, then shortly after adding electromagnetic clutch, check whether coolant flows free of bubbles past sight glass of receiver dehydrator.

6 If quantity of refrigerant is adequate, pressure switch is defective.

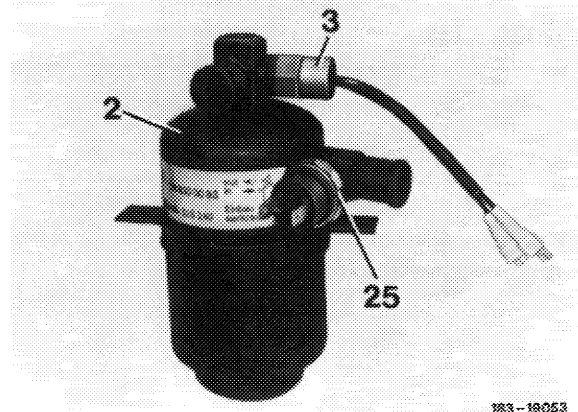
7 Switch-off ignition.

Checking cut-out pressure

8 Connect pressure gauge (service unit or installation aid) to service valve (pressure end).

9 Pull both electric lines from pressure switch (25) and connect ohmmeter to pressure switch.

10 Drain refrigerant, at approx. 2 ± 0.2 bar gauge pressure, the cut-out point of pressure switch should be indicated by ohmmeter (ohmmeter set to infinite).

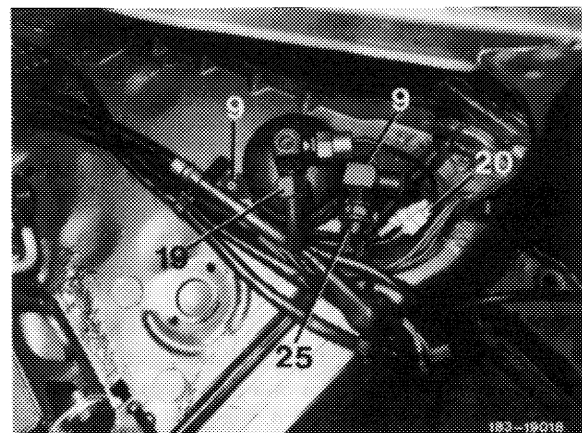


Removing pressure switch

11 Drain air-conditioning system (83–516).

12 Pull-off electric lines and unscrew pressure switch (25) from receiver dehydrator (2).

13 Close connection on receiver dehydrator with plug.



Pressure switch (25) with O-ring seal

Installing pressure switch

14 Moisten O-ring and threads of pressure switch with refrigerant oil.

15 Screw pressure switch (25) into receiver dehydrator (2) and plug-on electric lines.

16 Evacuate air-conditioning system, refill and check for function and leaks (83–510, 512 and 514).

