

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

Tightening torque	Nm	(kpm)
Pressure switch	20 ± 4	(2 ± 0.4)

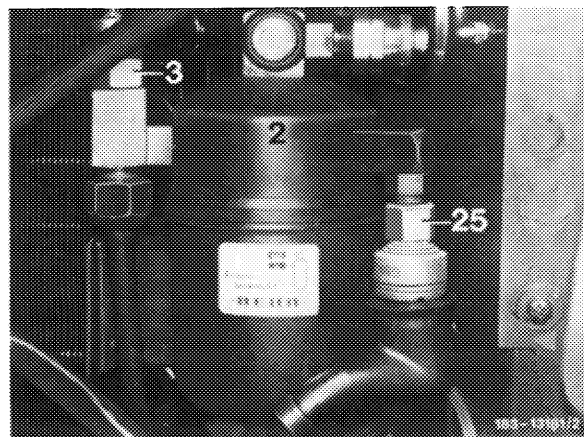
Note

Drain refrigerant of air conditioning system when removing pressure switch (25).

Checking, removing and installing 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 switch).
- 2 If the electromagnetic clutch of refrigerant compressor is not attracting, test 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, the fault is on coupler of electromagnetic clutch or on electric line between pressure switch and clutch coupler (83–508).
- 4 If only one flat plug of pressure switch carries voltage, the refrigerant charge in air conditioning system is not adequate or the pressure switch is defective.



5 To check refrigerant level, pull the two electric plugs from pressure switch and connect to each other (short-circuit). Run air conditioning system for approx. 2 – 3 minutes, then check immediately after engaging the electromagnetic clutch whether the refrigerant is flowing past receiver dehydrator free of bubbles.

6 If the refrigerant charge is adequate, the fault is on pressure switch.

7 Switch-off ignition.

Checking cut-out pressure

8 Connect pressure gauge (service unit or the like) to service valve (pressure end).

9 Pull both electric plugs from pressure switch and connect ohmmeter to pressure switch.

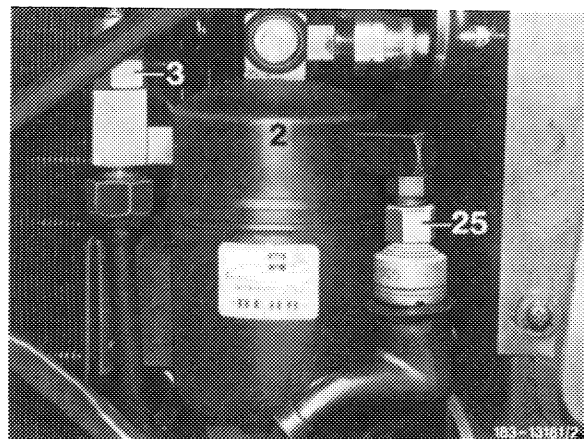
10 Drain refrigerant, at approx. 2 ± 0.2 bar gauge pressure the cut-out point of pressure switch should be indicated by ohmmeter (ohmmeter to infinite).

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 with conical seal

Installation

Note: For reliable sealing of pressure switch 1st version (conical seal) a copper sealing ring (13) 7/16" (part no. 000 835 05 98) may be used.

14 Moisten O-ring or sealing cone and threads with cold-flowing oil.

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

16 Evacuate air conditioning system, fill up again and check for function (83–510, 512 and 514).

