Data

Design	Thermostatic valve with external pressure compensation
Excessive heat adjustment	6° – 1° C at 0° C sensor temperature and 10 atm test pressure

Tightening Torques in kpm

	with Cu-seal	**without** Cu-seal
Discharge hose to expansion valve	3,0 ± 0.5	4.5 ± 0.5
Compensating line to evaporator pipe	1.7 ± 0.2	–
Expansion valve to evaporator pipe	4.5 ± 0.5	5.5 ± 0.5

Note

If the built-in strainer of the expansion valve shows excessive contamination, flush air-conditioning system with R 11 or blow out with nitrogen or R 12. Then replace strainer in expansion valve (Fig. 3) as well as receiver.

Removal

1 Drain air-conditioning system (83.0–850).

2 Remove cover at left under instrument panel (68.1–150).

3 Remove air hose toward lefthand round nozzle.

4 Unscrew air duct at left, but without disconnecting cable control with coil (83.1–100, item 8 and 9,.

5 Unscrew discharge hose from receiver to expansion valve on expansion valve (4) (Fig. 1).

6 Remove sealing tape (10) (NO DRIPE TAPE) from expansion valve.

7 Remove clip (7) from capillary pipe together with temperature sensor (5) from evaporator pipe.

8 Loosen coupling nut (8) on expansion valve (4)

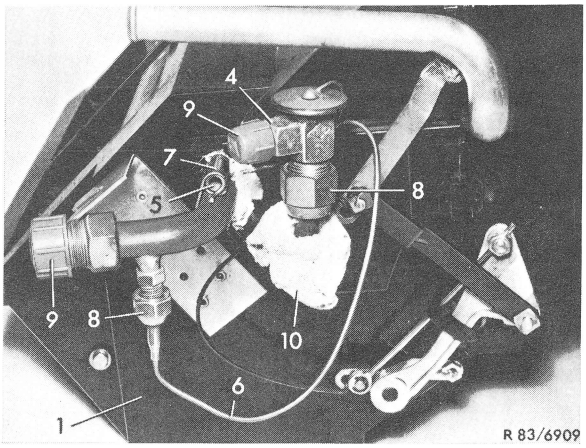

Figure 1
Layout of expansion valve on evaporator box

1 Evaporator box
4 Expansion valve
5 Capillary pipe with temperature sensor
6 Pressure compensation line
7 Clip
8 Coupling nut
9 Plug
10 Sealing tape

and on pressure compensation line (6). Then close pipe connections of evaporator with plugs.

Installation

9 Moisten threads with refrigeration oil. Mount expansion valve (4) to evaporator pipe.

10 Attach capillary pipe with temperature sensor (5)

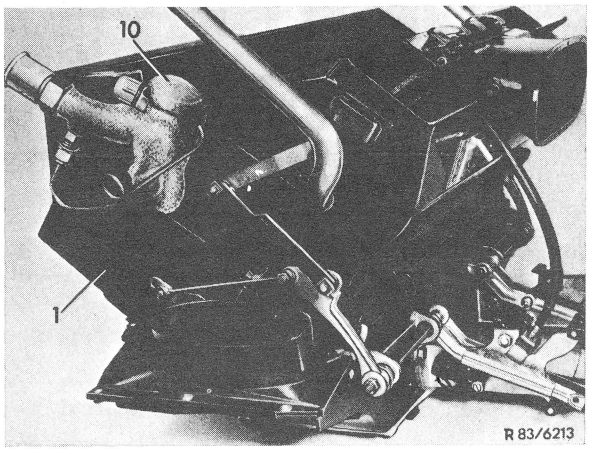

Figure 2
Layout of expansion valve with sealing tape
1 Evaporator box 10 Sealing tape

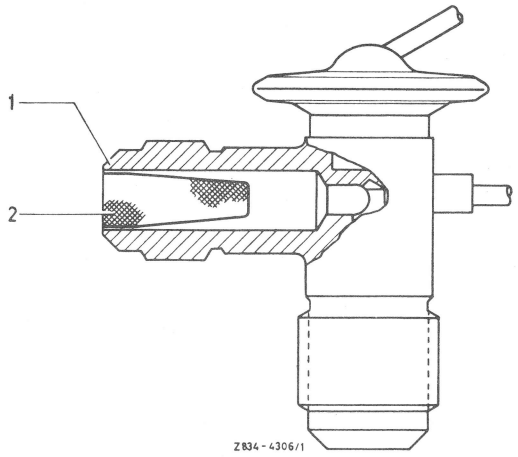

Figure 3
1 Expansion valve 2 Strainer

by means of clip (7) as shown in Fig. 1, install pressure compensation line (6) and connect.

11 Wind expansion valve and capillary pipe with temperature sensor with sealing tape (NO DRIPE TAPE) (Fig. 2).

12 Screw hose lines back to expansion valve.

13 Evacuate air-conditioning system, fill up again, check for performance and leaks (83.0–830 and 840).

14 Reinstall air duct left.

15 Install air hose for lefthand round nozzle and lefthand cover under instrument panel.