Data

Face / depth	6.3 dm^2 / 85, 4-row
Design	copper pipes and aluminum fins

Tightening Torques in kpm

	with Cu-seal	**without** Cu-seal
Discharge hose to expansion valve	3.0 ± 0.5	4.5 ± 0.5
Expansion valve to evaporator pipe	4.5 ± 0.5	5.5 ± 0.5
Compensating line to evaporator pipe	1.7 ± 0.2	–
Suction hose to evaporator pipe	6.0 ± 0.5	7.0 ± 0.5

Removal

1 Push back both driver's seats and cover.

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

3 Unscrew hose line on expansion valve and on evaporator pipe and close (83.1–730, item 1 to 5).

4 Remove heater box with heat exchanger (83.1–100).

5 Remove heat exchanger (83.1–110).

6 Pull guide tube (12) out of flap section (14) or evaporator (Fig. 2).

7 Remove expansion valve (83.1–530).

8 Remove tensioning springs (10) with lock washer pliers. Then pull off both sliding pieces (13) at left and right on evaporator box in direction of arrow (Fig. 1 and 2).

9 Remove flap section (14).

Note: For sealing, the flap section (14) has been glued at first with union cement laterally and at bottom of evaporator box, while a teroson cord has been used later on. Carefully separate glued surfaces with a knife.

10 Unscrew four hex. screws (15) and remove evaporator (11) (Fig. 3).

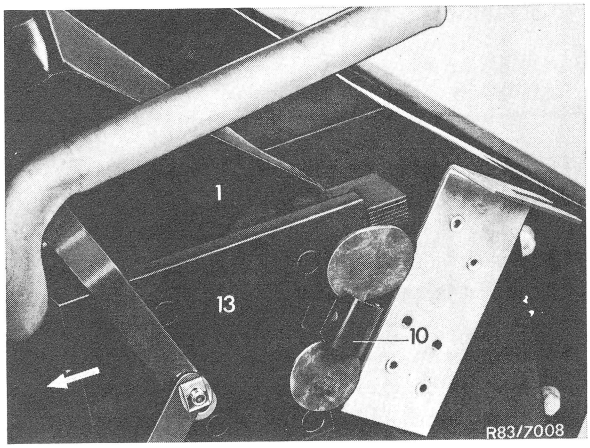

Figure 1 Evaporator box

1 Evaporator box
10 Tensioning spring
13 Slide piece

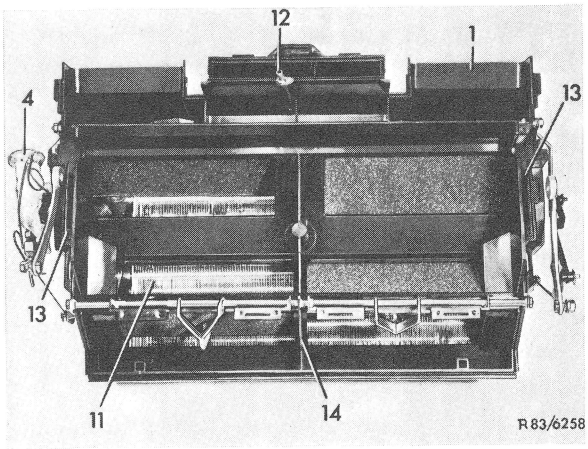

Figure 2 Evaporator box

1 Evaporator box
4 Expansion valve
11 Evaporator
12 Guide pipe
13 Slide piece
14 Flap section

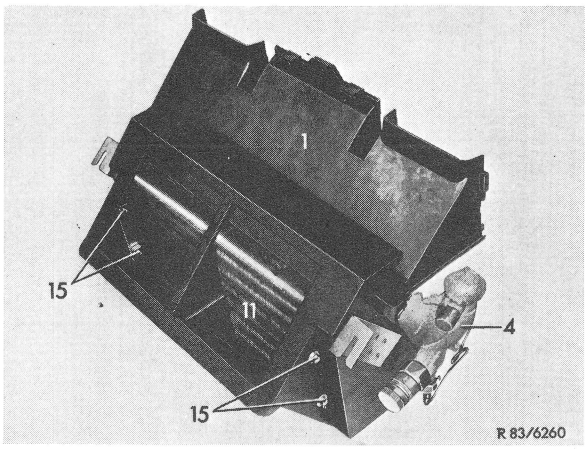

Figure 3
Layout of evaporator in evaporator box

1 Evaporator box
4 Expansion valve
11 Evaporator
15 Hex. screw with washer and lock washer

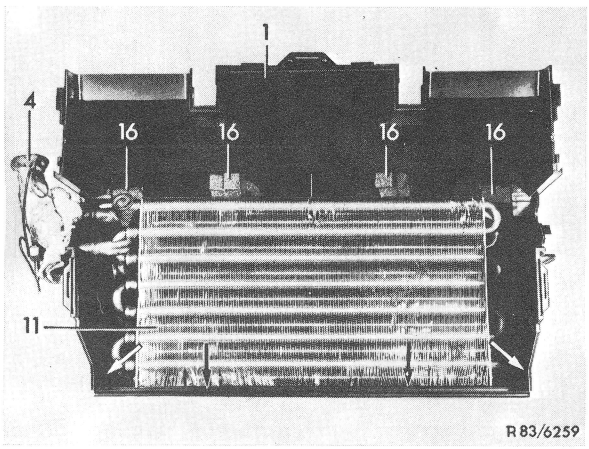

Figure 4
Layout of evaporator in evaporator box

1 Evaporator box
4 Expansion valve
11 Evaporator
16 Moltopren seal

Installation

11 Mount expansion valve (4) to evaporator (83.1–530).

12 Screw-on evaporator (11) in evaporator box by means of hex. screws (15) (Fig. 3).

13 Slide moltopren seals (16) between evaporator and evaporator box as shown in Fig. 4. Provide three surfaces of evaporator box with teroson cord (refer to arrows in Fig. 4).

14 Mount flap section (14) and attach with slide pieces (13) (Fig. 1).

15 Mount tensioning springs (10) at left and right on evaporator box at left between evaporator pipes.

16 Insert a welding wire of 3 mm dia. into guide pipe (12) for capillary. Then introduce guide pipe (12) carefully into evaporator through bore in flap section. Bend capillary guide tube slightly if required, but avoid using force.

17 Install heat exchanger (83.1–110).

18 Install heater box, making sure that the capillary (1) of the temperature vacuum switch is correctly installed and completely inserted into guide pipe (12) up to yellow mark (275 mm). (83.1–100 and Fig. 5).

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

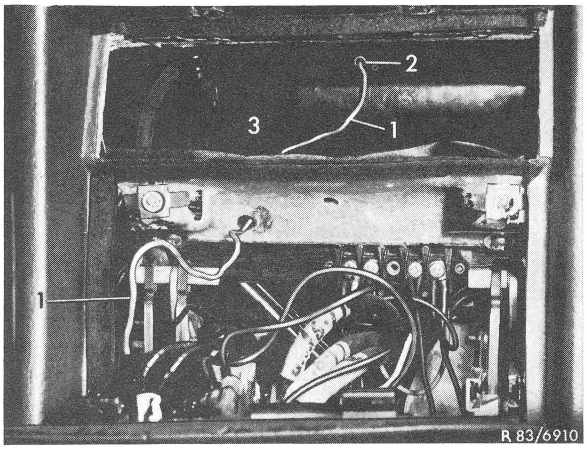

Figure 5
Layout of temperature sensor

1 Capillary
2 Guide pipe
3 Evaporator box