

Data

Face area/depth	6.3 dm ² / 85 mm, 4 rows
Version	copper pipes and aluminum ribs

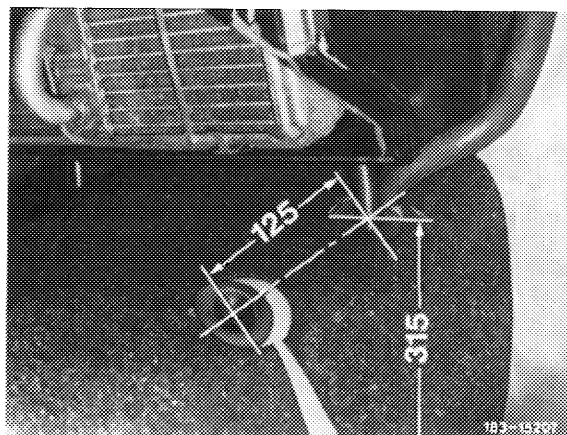
Tightening torques			Nm	(kpm)
	Pressure hose to expansion valve	with Cu seal	without Cu seal	30 ± 5 45 ± 5
Compensating line on evaporator	with Cu seal		17 ± 2	(1.7 ± 0.2)
Expansion valve on evaporator	with Cu seal		45 ± 5	(4.5 ± 0.5)
	without Cu seal		55 ± 5	(5.5 ± 0.5)
Suction hose on evaporator pipe	with Cu seal		60 ± 5	(6.0 ± 0.5)
	without Cu seal		70 ± 5	(7.0 ± 0.5)

Removal

- 1 Push back and cover both driver's seats.
- 2 Drain air conditioning system (83–516).
- 3 Unscrew hose line on expansion valve and on evaporator pipe and close (83–534, item 1 to 5).
- 4 Remove heater box with heat exchanger (83–100).

Note: To obtain faster discharge of condensate, the evaporator housing ins provided with two additional connections (starting September 1977).

In the event of leaks on evaporator, the air conditioning unit on vehicles (up to September 1977) must be replaced, since the removal of the evaporator out of air conditioning unit is impossible without damaging the housing.

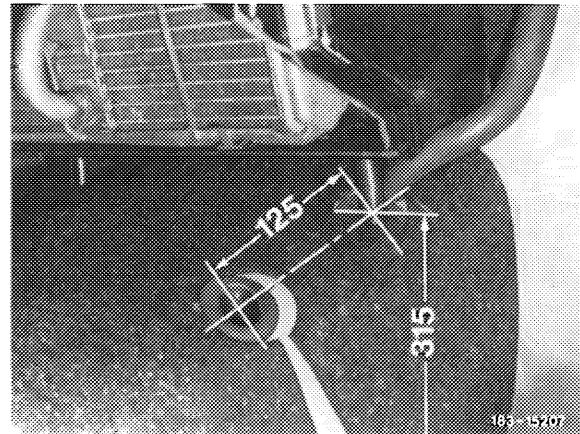


Dimension 315 = to floor plate

When renewing the complete air conditioning unit, two additional holes of 30 mm dia. must be drilled for the existing condensate drains (3). Install two hoses (1) and rubber grommets for draining condensate. The condensate drains (3) installed up to now remain in place. On vehicles with modified condensate drain, the evaporator can be replaced, as described below.

5 Remove heat exchanger (83–110).

Dimension 315 = to floor plate

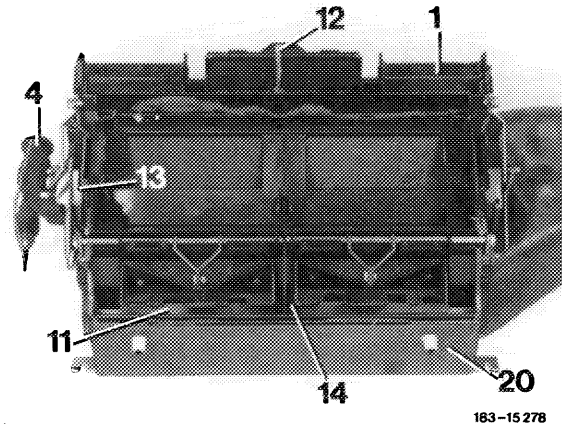


6 Remove expansion valve (83–534).

7 On lefthand steering vehicles up to 08/81 and righthand steering vehicles, pull guide tube (12) out of flap section (14) or evaporator.

Air conditioner unit

- | | |
|------------------------|---------------------|
| 1 Air conditioner unit | 12 Guide tube |
| 4 Expansion valve | 13 Slide piece |
| 11 Evaporator | 14 Flap member |
| | 20 Condensate drain |

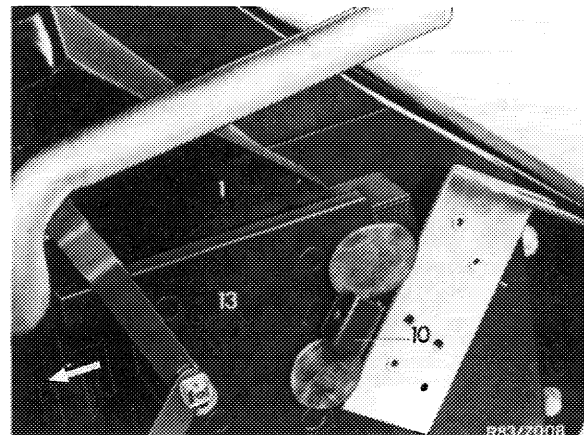


8 Remove tensioning springs (10) for locking rings with pliers. Then pull off the two slide pieces (13) at left and right on air conditioner unit in direction of arrow.

9 Remove flap member (14).

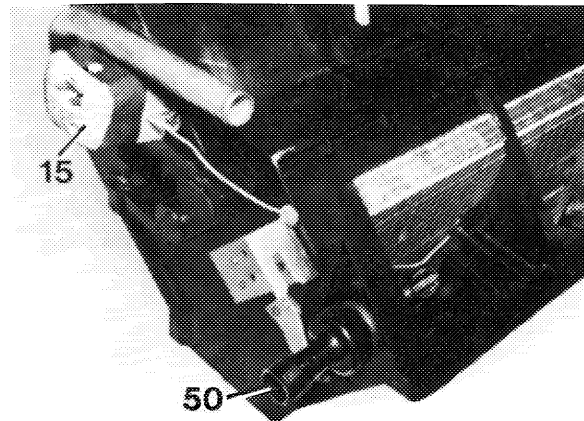
Air conditioner unit up to 08/81

- | | |
|------------------------|----------------|
| 1 Air conditioner unit | 13 Slide piece |
| 10 Tensioning spring | |

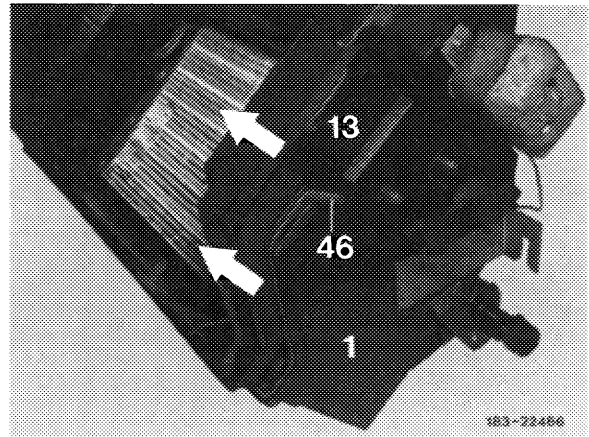


10 On lefthand steering vehicles starting 09/81, pull capillary of ETR switch (15) out of evaporator.

- 15 ETR switch with capillary (lefthand steering)



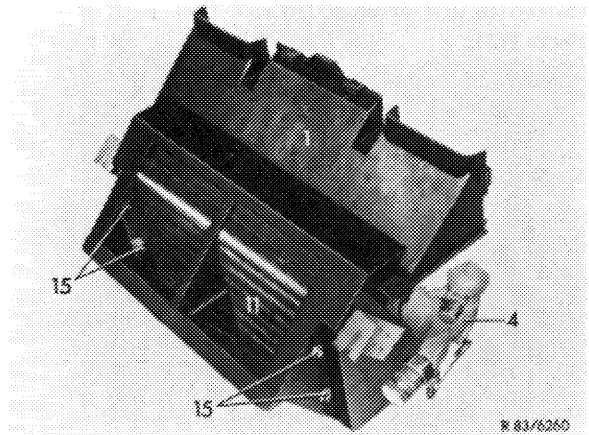
11 Pull out slide piece (13) on air conditioner unit in direction of arrow.



Air conditioner unit lefthand steering starting 09/81

- 1 Air conditioner unit
- 13 Slide piece

12 Unscrew hex. screws (15) and remove evaporator (11).

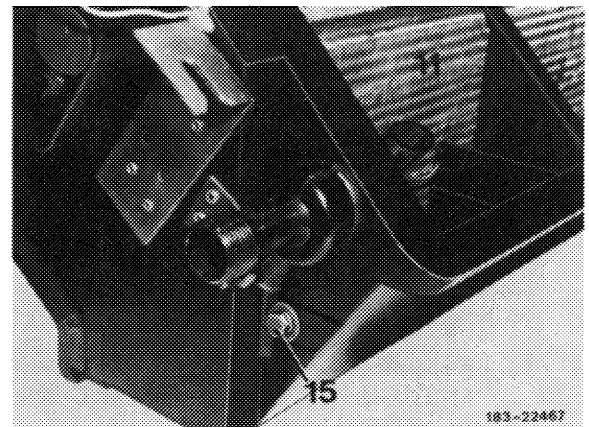


Layout evaporator in air conditioner unit Lefthand steering up to 08/81 and righthand steering

- 1 Air conditioner unit
- 4 Expansion valve
- 11 Evaporator
- 15 Hex. screw with washer and snap ring

Layout evaporator in air conditioner unit lefthand steering starting 09/81

- 11 Evaporator
- 15 Hex. screw with washer and snap ring, right (left mirror image)

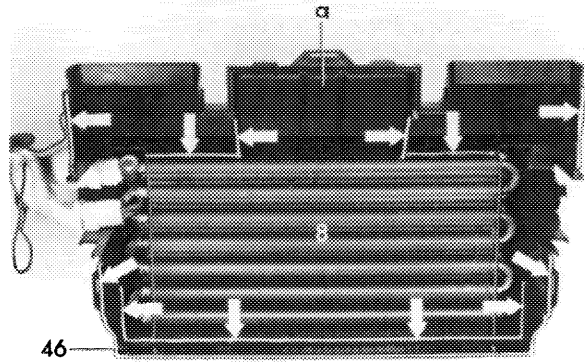


Installation

13 Mount expansion valve (4) on evaporator (83-534).

14 Screw-on evaporator (11) in air conditioning unit by means of hex screws (15).

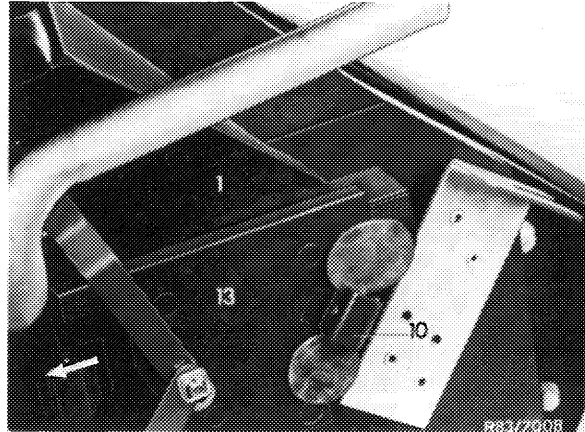
15 On lefthand steering vehicles up to 08/81 and righthand steering vehicles, place sealing cord (46) on air conditioner unit.



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16 Mount flap member (14) and attach with slide pieces (13).

17 Mount tensioning springs (10) at left and right on air conditioner unit. At the left between evaporator pipes, pay attention to perfect sealing between evaporator pipes and slide pieces (13).

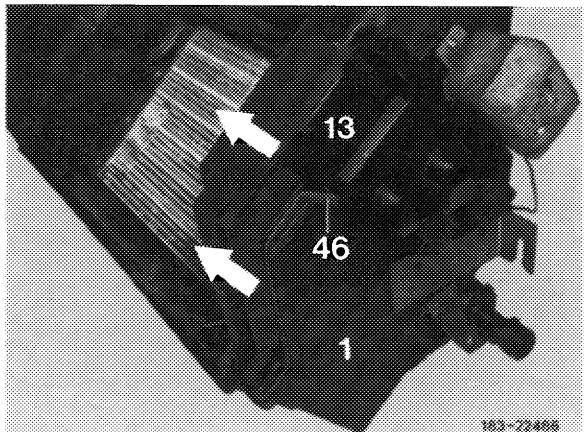


Air conditioner unit

1 Air conditioner unit
10 Tensioning spring

13 Slide piece

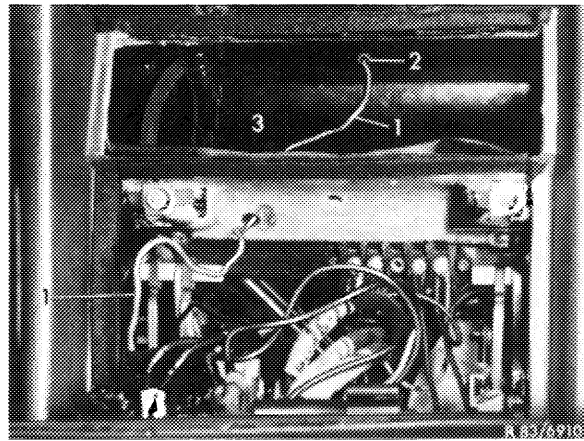
18 On lefthand steering vehicles starting 09/81, slip slide piece (13) on air conditioner unit. At the left, between evaporator pipes, pay attention to perfect sealing between evaporator pipes and slide piece (13).



19 On lefthand steering vehicles up to 08/81 and righthand steering vehicles, carefully insert guide tube (2) through bore in flap section into evaporator. If required, slightly rebend capillary guide tube. But make sure that no force is applied.

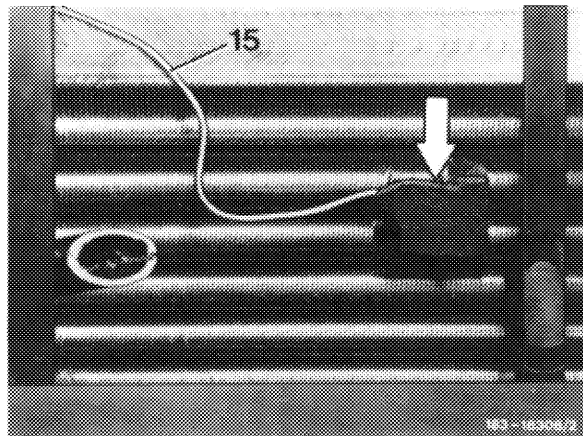
Layout temperature sensor lefthand steering up to 08/81 and righthand steering

1 Capillary	3 Air conditioner unit
2 Guide tube	



20 On lefthand steering vehicles starting 09/81, slip capillary (15) of ETR switch in-between ribs of evaporator up to mark. Then glue a moltoprene strip (arrow) on capillary and on evaporator ribs.

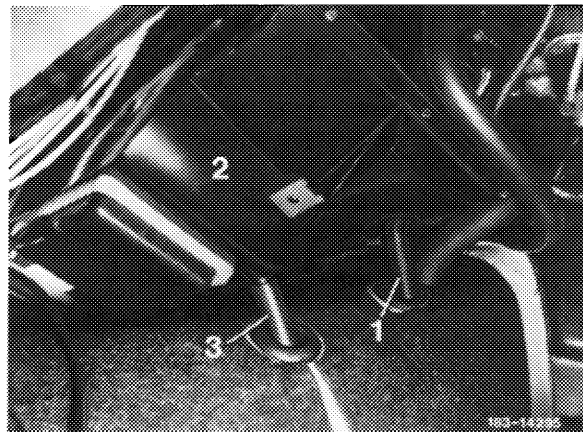
Layout capillary of ETR switch on vehicles with automatic climate control lefthand steering starting 09/77 and air conditioning system starting 09/81.



21 Install heat exchanger (83—110).

22 Install heater box, but make sure that on vehicles up to 08/81 lefthand steering and righthand steering, the capillary of the temperature vacuum switch is correctly installed and slipped completely into guide tube up to yellow mark (275 mm) (83—100). Mount condensate drain hoses (1 and 3) on air conditioner unit and guide through grommets in tunnel.

1	Hose for condensate drain on evaporator housing
2	Center air duct
3	Water hose on center air duct



23 Evacuate air conditioning system, fill up again, check for function and leaks (83—510, 512 and 514).