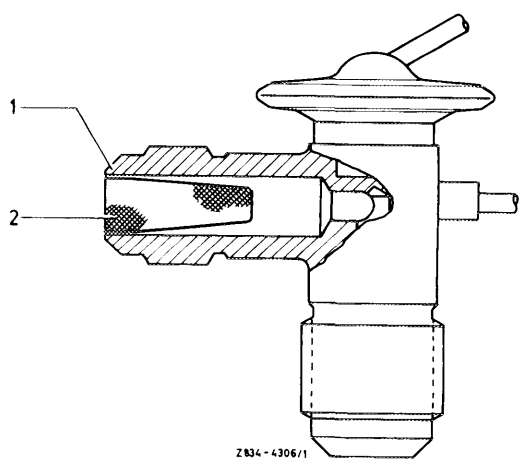
Data

Version	Thermostatic valve with external pressure compensation
Overheating adjustment	6° –1 °C at 0 °C sensor temperature and a test pressure of 10 bar gauge pressure (atü)

Tightening torques		Nm	(kpm)
Pressure hose to expansion valve	with Cu seal	30 ± 5	(3.0 ± 0.5)
	without Cu seal	45 ± 5	(4.5 ± 0.5)
Compensating line to evaporator pipe	with Cu seal	17 ± 2	(1.7 ± 0.2)
	without Cu seal	—	—
Expansion valve to evaporator pipe	with Cu seal	45 ± 5	(4.5 ± 0.5)
	without Cu seal	55 ± 5	(5.5 ± 0.5)

Note

If the installed strainer of expansion valve is heavily contaminated, flush air conditioning system with R 11 or blow out with nitrogen or R 12. Then clean strainer in expansion valve and replace receiver dehydrator.



1 Expansion valve
2 Strainer

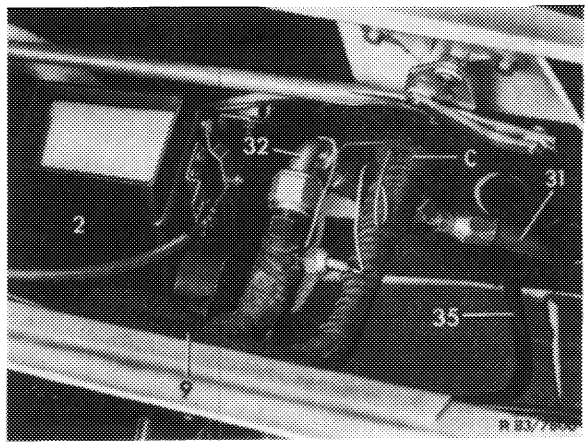
Removal

1 Drain air conditioning system (83–516).

2 Remove cover at right under instrument panel.

3 Remove glovebox.

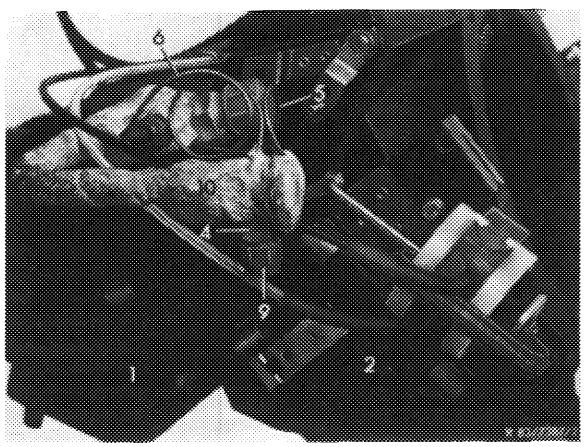
4 Unscrew pressure hose (31) from receiver dehydrator to expansion valve on expansion valve (c).



Hose line on evaporator pipe or expansion valve

- c Expansion valve
- 2 Heater box
- 9 Cable strap
- 31 Hose line from receiver dehydrator to expansion valve
- 32 Hose line from evaporator to compressor
- 35 Harness for air conditioning system

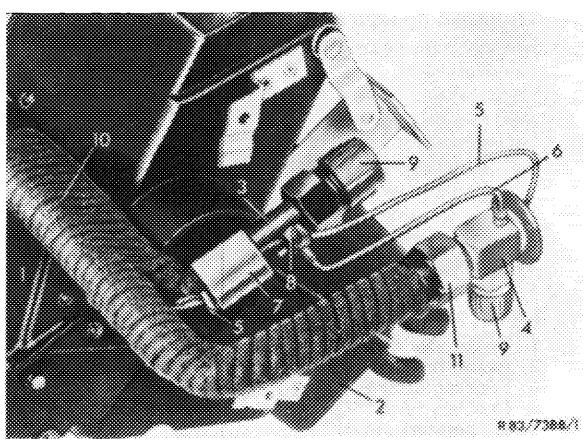
5 Remove sealing tape (10) (NO DRIP TAPE) from expansion valve.



Layout of expansion valve with sealing tape

- 1 Evaporator housing
- 2 Heater box
- 4 Expansion valve
- 5 Capillary with temperature sensor
- 6 Pressure compensating line
- 9 Closing plug
- 10 Sealing tape

6 Force clamp (7) for capillary with temperature sensor (5) from evaporator pipe (3).



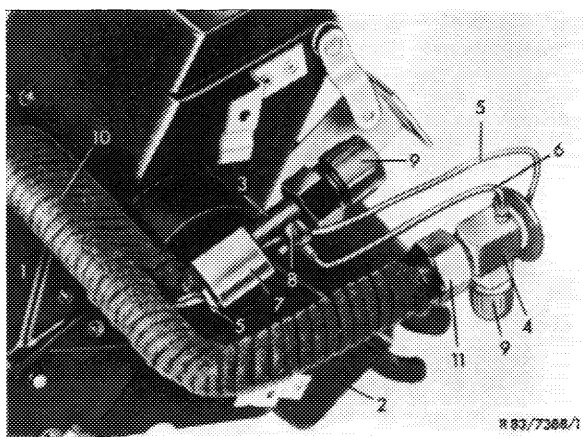
Layout of expansion valve on climate cabinet

- 1 Evaporator housing
- 2 Heater box
- 3 Evaporator pipe
- 4 Expansion valve
- 5 Capillary with temperature sensor
- 6 Pressure compensating line
- 7 Clamp
- 8 Coupling nut
- 9 Closing plug
- 10 Sealing tape
- 11 Coupling nut

7 Loosen coupling nut (8 and 11) on expansion valve (4) and on pressure compensating line (6). Then close pipe connections of evaporator with plug.

8 Moisten threads with cold-flowing oil. Mount expansion valve (4) to evaporator pipe.

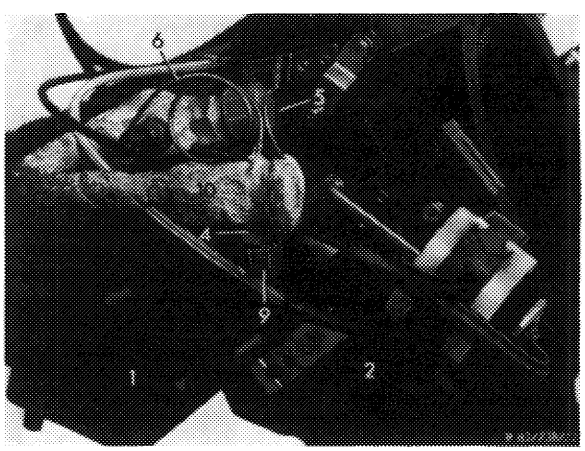
9 Attach capillary with temperature sensor (5) to evaporator pipe (3) by means of clamp (7), install pressure compensating line (6) and connect.



Layout of expansion valve on climate cabinet

1	Evaporator housing	6	Pressure compensating line
2	Heater box	7	Clamp
3	Evaporator pipe	8	Coupling nut
4	Expansion valve	9	Closing plug
5	Capillary with temperature sensor	10	Sealing tape
		11	Coupling nut

10 Wind sealing tape (NO DRIP TAPE) around expansion valve and capillary with temperature sensor.



Layout of expansion valve with sealing tape

1	Evaporator housing	6	Pressure compensating line
2	Heater box	9	Closing plug
4	Expansion valve	10	Sealing tape
5	Capillary with temperature sensor		

11 Again screw-on hose lines on expansion valve.

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

13 Install glovebox.

14 Install cover at right under instrument panel.