

## 83–534 Removal and installation of expansion valve

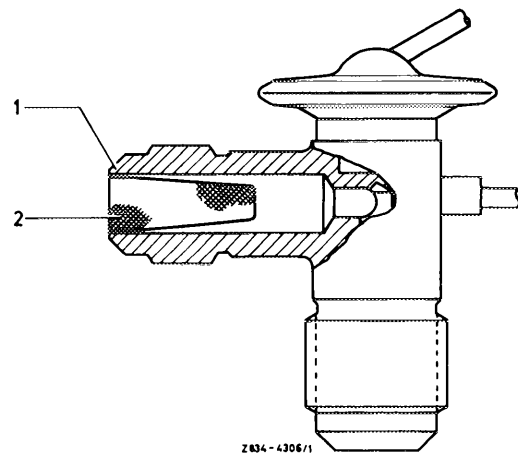
### Data

Version	Thermostatic valve with external pressure compensation		
<b>Tightening torques</b>		<b>Nm</b>	<b>(kpm)</b>
Pressure hose on expansion valve	with Cu seal	$30 \pm 5$	$(3.0 \pm 0.5)$
	without Cu seal	$45 \pm 5$	$(4.5 \pm 0.5)$
Compensating line on evaporator pipe	with Cu seal	$17 \pm 2$	$(1.7 \pm 0.2)$
Expansion valve on evaporator pipe	with Cu seal	$45 \pm 5$	$(4.5 \pm 0.5)$
	without Cu seal	$55 \pm 5$	$(5.5 \pm 0.5)$

### 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.

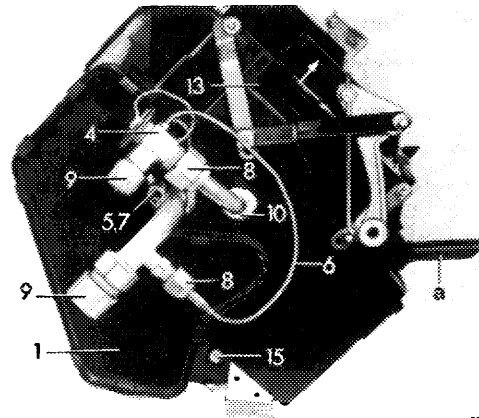
- 1 Expansion valve
- 2 Strainer



### Removal

- 1 Drain air conditioning system (83–516).
- 2 Remove cover at left under instrument panel (68–150).
- 3 Remove air hose for left-hand round nozzle.

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



183-8731

#### Layout of expansion valve on air conditioner unit

- |   |                                   |    |                                 |
|---|-----------------------------------|----|---------------------------------|
| a | Condensate drains                 | 7  | Clip                            |
| 1 | Air conditioner unit              | 8  | Coupling nut                    |
| 4 | Expansion valve                   | 9  | Closing plug                    |
| 5 | Capillary with temperature sensor | 10 | Sealing strip                   |
| 6 | Pressure compensating line        | 13 | Slide piece                     |
|   |                                   | 15 | Screw with washer and snap ring |

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

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

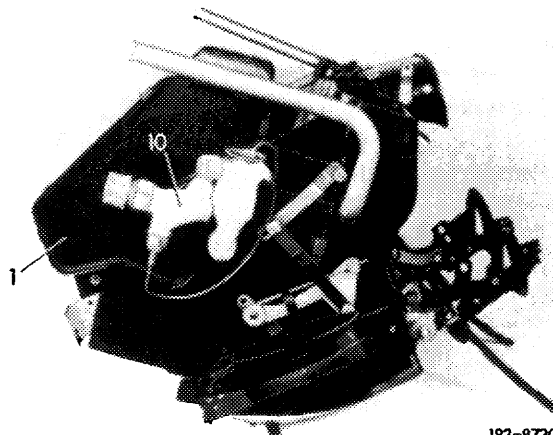
7 Loosen coupling nut (8) on expansion valve (4) and on pressure compensating line (6). Then close pipe connections of evaporator with plugs.

#### Installation

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

9 Attach capillary with temperature sensor (5) by means of clip (7), install and connect pressure compensating line (6).

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



183-8730

#### Layout expansion valve with sealing strip

- |   |                      |    |               |
|---|----------------------|----|---------------|
| 1 | Air conditioner unit | 10 | Sealing strip |
|---|----------------------|----|---------------|

11 Screw back 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 air hose for left-hand round nozzle and cover at left under instrument panel.