

83-534 Removal and installation of expansion valve

Data

Version Thermostatic valve with external pressure compensation

Tightening torques	Nm
Pressure hose to expansion valve 5/8"	15-18
Suction hose to expansion valve 7/8"	29-37
Evaporator pipeline 3/4"	24-28
Evaporator pipeline 3/4"	29-37

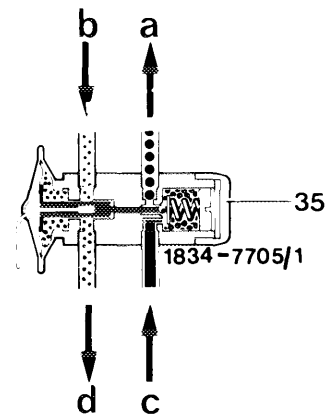
Special tools

Open box end wrench with 3/8" square insert

17 mm	000 589 69 03 00
19 mm	000 589 70 03 00
22 mm	000 589 71 03 00
24 mm	000 589 72 03 00

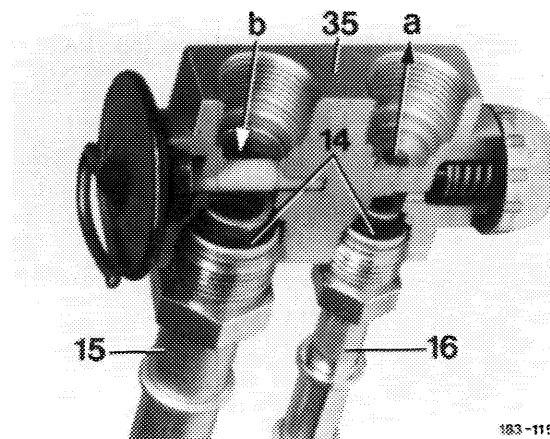
Note

If expansion valve shows considerable contamination, renew receiver dehydrator and expansion valve (83-530).



Injection valve (diagram)

- a To evaporator
- b From evaporator
- c From receiver dehydrator
- d To compressor



Injection valve (section)

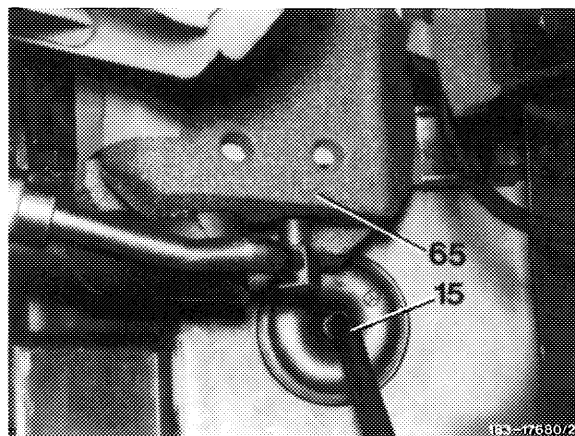
- 35 Injection valve
- 14 O-ring
- 15 O-ring fitting for hose line from injection valve to refrigerant compressor
- 16 O-ring fitting for hose line from fluid reservoir to injection valve

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Removal

- 1 Drain air-conditioning system (83–516).
- 2 Remove cover at left (righthand steering vehicle at the right) under instrument panel (83–150).

- 3 Open housing by half (65).
- 4 Loosen all hose and pipe lines on injection valves (35) with box end wrench first and then screw off.
- 5 Remove injection valve and close connections with plugs.



Installation

- 6 Moisten threads with refrigerant oil and check O-rings (14).
- 7 Provisionally screw-on injection valve (35) on evaporator pipes.
- 8 Provisionally connect refrigerant line (66 and 67) to injection valve. Then tighten all connections with box end wrench.
- 9 Evacuate air-conditioning system, refill and check for function and leaks (83–510, 512 and 514).
- 10 Carefully fasten housing (65) to injection valve.
- 11 Install cover under instrument panel (68–150).

