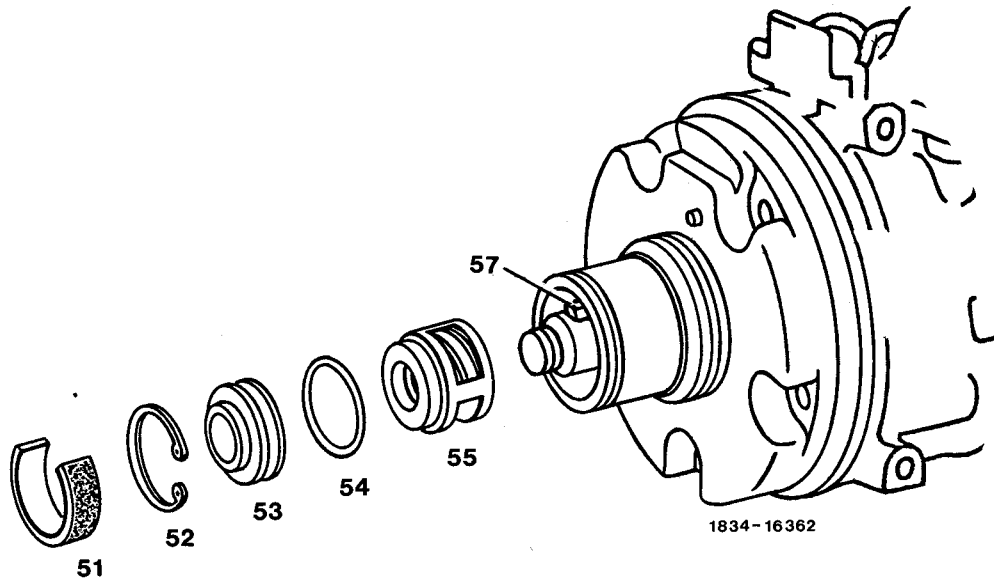


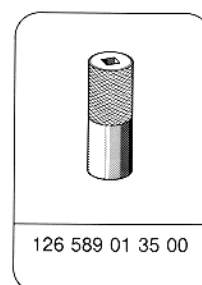
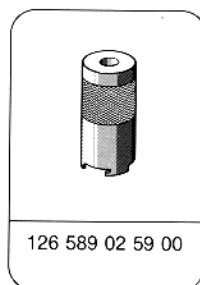
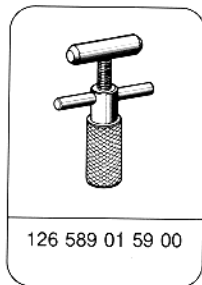
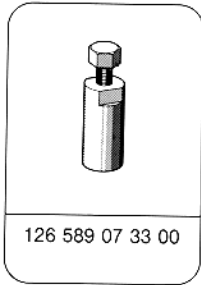
83-534 Replacing shaft seal on A/C compressor

Operation no. and operation texts and work units or standard texts and flat rates 83-0662



A/C compressor	remove/install (83-530).
Spring plate	remove/install (83-536).
Dust seal (51)	press out with screwdriver/install.
Key (57)	remove with key puller 126 589 07 33 00 and install with key installation tool 126 589 01 35 00.
Snap ring (52)	remove/install with snap ring pliers (inside).
Sealing plate (53)	remove/install with installation tool 126 589 01 59 00.
O-ring (54)	remove/install.
Shaft seal (55)	pull out/install with installation tool 126 589 02 59 00.

Special tools

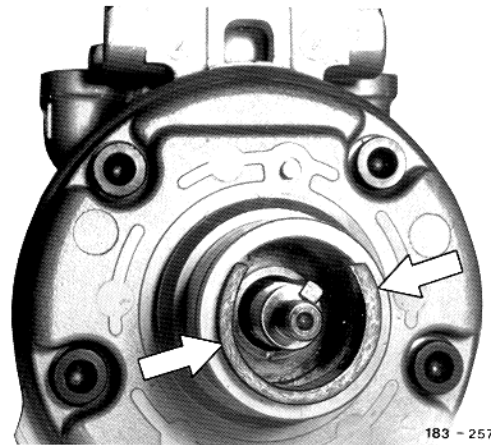


Removal/installation

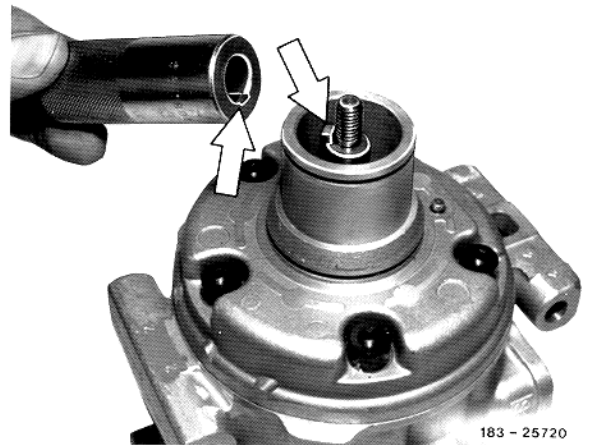
- 1 Drain air conditioner.
- 2 Remove A/C compressor (83-530).
- 3 Remove spring plate (83-536).
- 4 Press dust seal (arrows) out with screwdriver.

Installation note

Install dust seal so that open side points upward.



- 5 Position key puller on compressor shaft and turn one half turn to right.

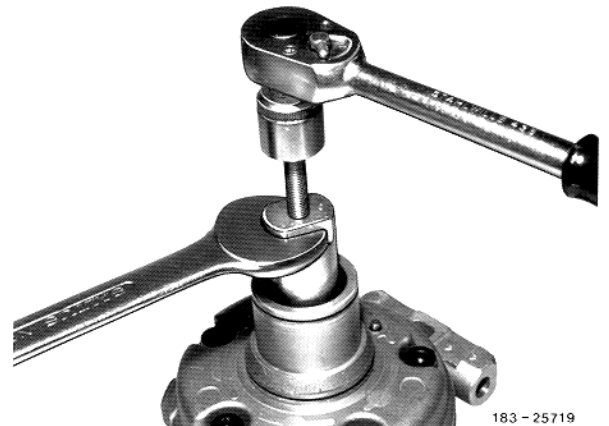


- 6 Pull out key and remove.
- 7 Remove snap ring (52).

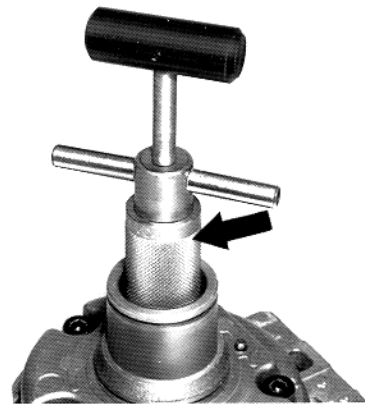
Installation note

Reinstall key with key installation tool
126 589 01 35 00.

The conical surface of the snap ring must point toward the front.



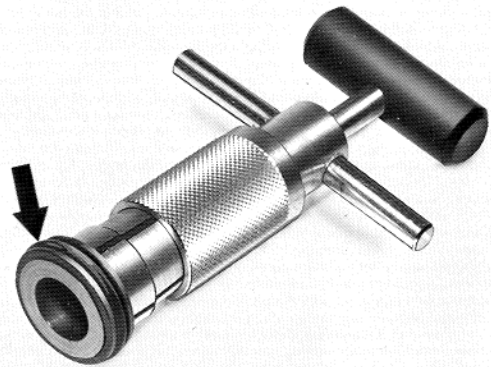
8 Insert installation tool for sealing plate and retaining ring (arrow) up to mark and press downward.
Pull out sealing plate (53) and remove from tool.



183-25851

Installation note

Ensure that sealing plate is installed in proper position and coat O-ring (arrow) with refrigeration oil.

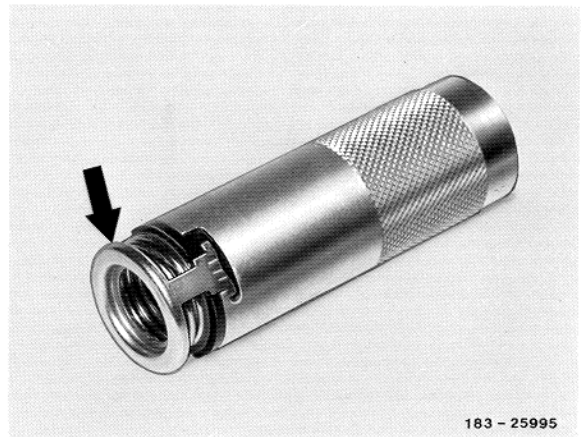


183 - 25994

9 Insert installation tool for shaft seal, press in, turn to right and pull out shaft seal.

Installation note

Fasten new shaft seal in installation tool and coat with refrigeration oil. After inserting the shaft seal unhook installation tool by turning to left.

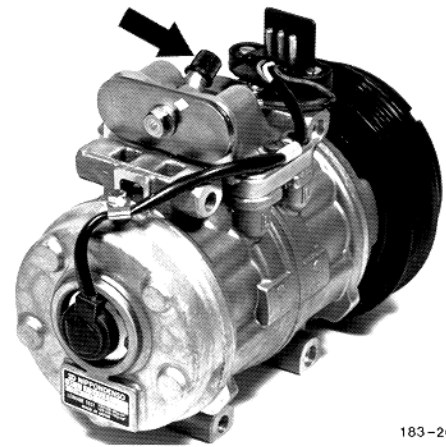


183 - 25995

Caution

The crankshaft seal on the clutch side of the A/C compressor is only supplied as a complete unit and must also be installed as such. Never install old and new parts together. Newly installed shaft seal sets should not be removed again immediately because of a slight leak. The carbon ring is lapped together with the inside of the sealing plate. This fit improves after the shaft seal has been run in.

- 10 Reinstall in reverse order.
- 11 Install spring plate (83-536).
- 12 Allow refrigerant vapor to flow into A/C compressor at service valve (arrow). A bottle or charging cylinder pressure of more than 4 bar is required.
- 13 Turn compressor shaft a number of times manually in the normal direction of rotation with the A/C compressor in the installed position.
- 14 Test A/C compressor for leakage with leak detector.
- 15 Close valve on service unit or charging cylinder and remove hose from service valve.
- 16 Install A/C compressor (83-530).
- 17 Replace fluid reservoir (83-540).
- 18 Correct oil level (83-525), adding 10 cm³ of fresh oil to the compressor in addition.
- 19 Evacuate air-conditioning system and recharge; check for proper function (83-508).



183-26600/1