

## 46–700 Replacement of power steering pump radial sealing ring

### Oil types/filling capacity and level checkup


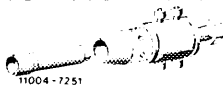

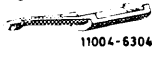
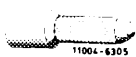
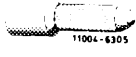
ATF or Transmission oil	refer to Specifications for service products page 236.2 refer to Specifications for service products page 237
Filling capacity	approx. 1.5 liter
Oil level checkup	With the oil at operating temperature (approx. 80° C), the oil level in supply tank should be at the punched-in or cast-in mark (approx. 20 mm below rim of tank). With cold oil and at ambient temperature, oil level 6–8 mm below mark. For filling up, use only absolutely clean oil since even minute particles of dirt might cause trouble in hydraulic system.

### Tightening torques

Nm

High-pressure expanding hose to power steering pump	45–50
Connecting pipe for return hose	45–50

### Special tools

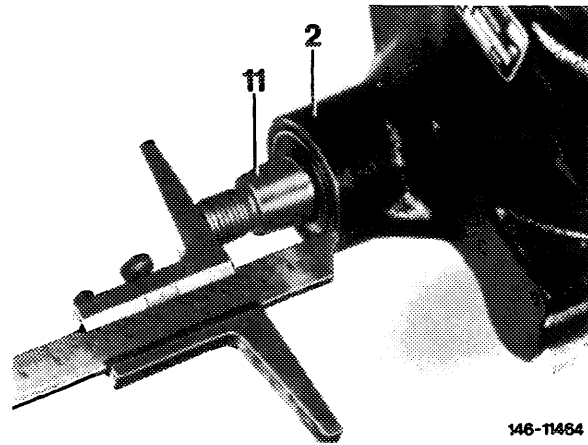
Puller for pulley		108 589 02 33 00
Puller for radial sealing ring (basic unit)		116 589 24 33 00
Clamping shoe 33 mm dia. for Vickers VT 27, ZF and Vickers VT 49 2nd version		116 589 06 34 00
Clamping shoe 30 mm dia. for Vickers VT 49 1st version		116 589 05 34 00
Punch 33 mm dia. for Vickers VT 27, ZF and Vickers VT 49 2nd version		116 589 14 15 00
Punch 30 mm dia. for Vickers VT 49 1st version		116 589 13 15 00

### Removal

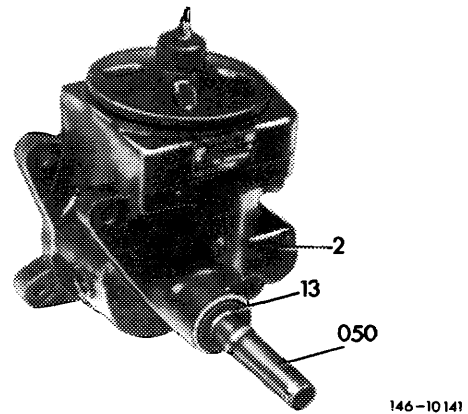
- 1 Remove power steering pump.
- 2 Remove woodruff key from input shaft.

3 On Vickers power steering pump VT 49 measure projection of input shaft in relation to pump flange.

**Note:** The dimension of the drive shaft must be measured because the drive shaft may not be pushed immediately into pump housing when the radial sealing ring is pulled off. Upon removal of sealing ring, measuring is once again required as a checkup. Note that the two measuring values must be uniform. If the dimension is larger when measuring the second time, disassemble and recondition power steering pump.



4 Screw guide sleeve (050) on input shaft.

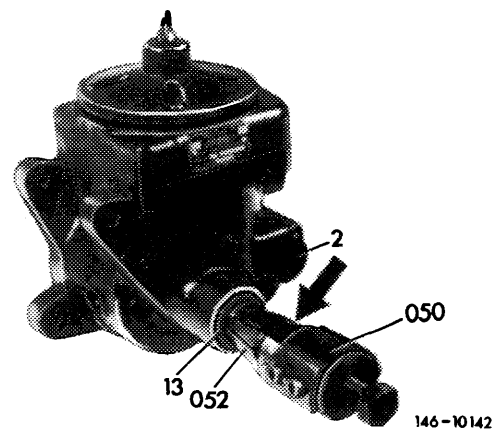


5 Turn hex. screw of puller (050) back and slip tool on input shaft while punching through sealing lips of radial sealing ring (13) with claws (051).

**Note:** On power steering pumps the following claws are required for puller:

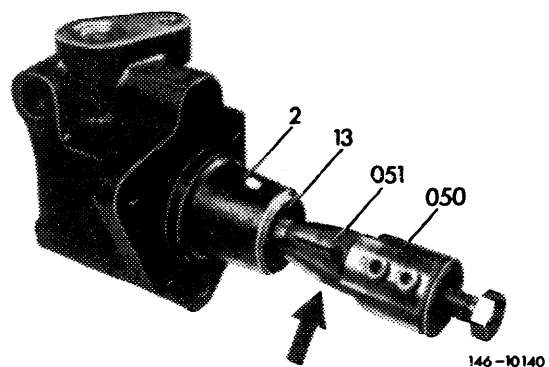
Vickers VT 27, ZF, Vickers VT 49  
 2nd version = 33 mm dia.  
 Vickers VT 49 1st version = 30 mm dia.

The respective claws must be attached to puller. The claw dia. is punched in.



6 Turn clamping cone (arrow) of puller (050) to the right up to stop and pull sealing ring out of housing.

7 Measure end play of input shaft on Vickers power steering pump VT 49 (refer to note following item 3).



## Installation

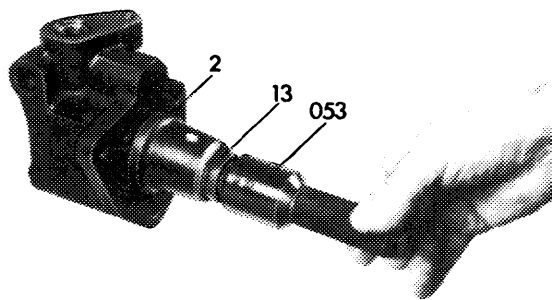
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8 Slip radial sealing ring (13) over guide sleeve (050) on input shaft and knock into housing by means of punch (053).

**Note:** For Vickers power steering pump VT 27, ZF and Vickers VT 49 2nd version, the diameter of the punch must be 33 mm, and for the VT 49 pump 1st version 30 mm.

9 Insert Woodruff key into input shaft.

10 Install power steering pump.



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