

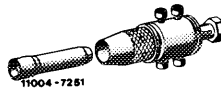
Special tools

Puller for pulley



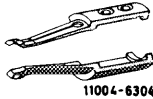
108 589 02 33 00

Puller for radial sealing ring (basic unit)



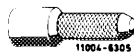
116 589 24 33 00

Clamping shoe 33 mm dia. for VT 27



116 589 06 34 00

Punch 33 mm dia. for VT 27

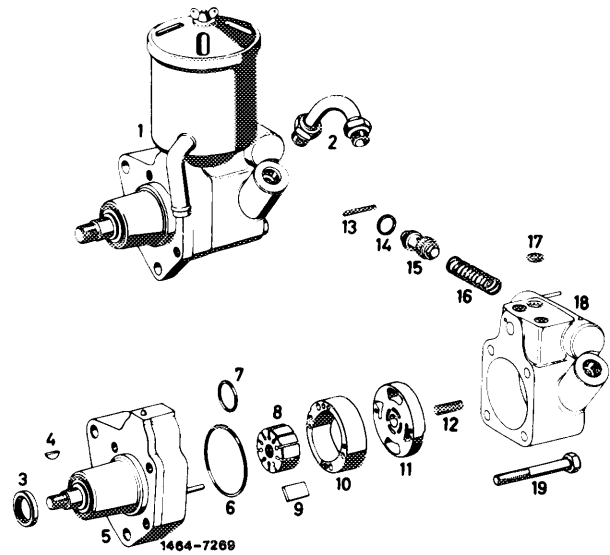


116 589 14 15 00

Rotor and cam ring

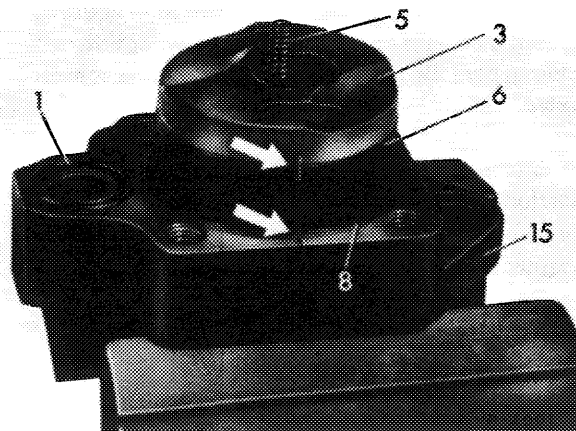
1 Unscrew hex screws (19) by means of which housing cover (5) is attached to pump housing (18) and remove pump housing.

- | | |
|--|--|
| 3 Radial sealing ring | 13 Locking pin |
| 4 Woodruff key | 14 O-ring (closing plug) |
| 5 Housing cover | 15 Volume control valve with pressure relief valve |
| 6 O-ring (pump housing) | 16 Spring for volume control valve |
| 7 O-ring (oil feed bore) | 17 O-ring (closing plug) |
| 8 Rotor | 18 Pump housing |
| 9 Blade | 19 Hex screw |
| 10 Cam ring | |
| 11 Pressure plate | |
| 12 Compression spring for pressure plate | |

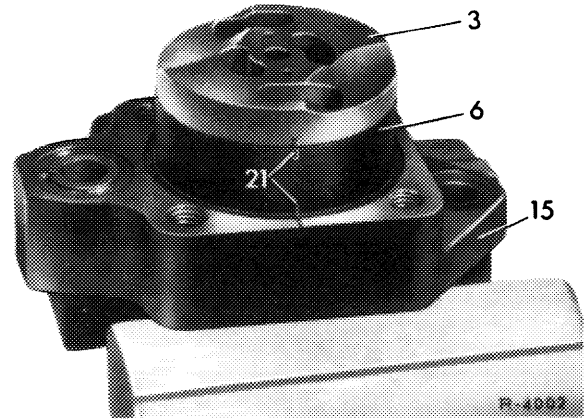


2 Remove compression spring (5) from pressure plate (3). Mark pressure plate (3), cam ring (6) and housing cover (15) together (refer to arrows).

3 Remove O-ring (1 and 8) from housing cover (15).

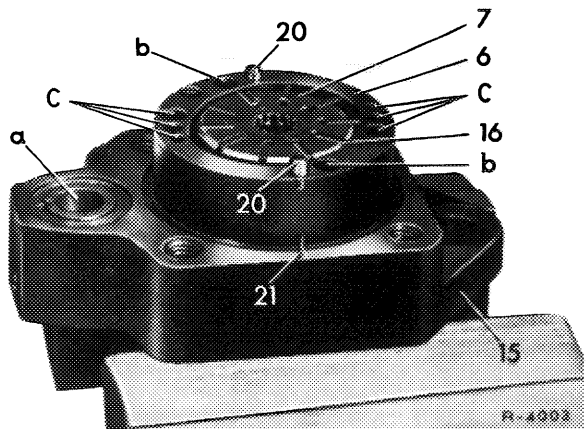


4 Remove pressure plate (3) from fitted pins, then remove cam ring (6).



5 Remove rotor (7) including blade (16) from splining of input shaft.

- a Oil feed from supply tank
- b Pressure oil outlet from cam ring
- c Intake holes
- 6 Cam ring
- 7 Rotor
- 15 Housing cover
- 16 Pump blade
- 20 Fitted pin
- 21 Marking line

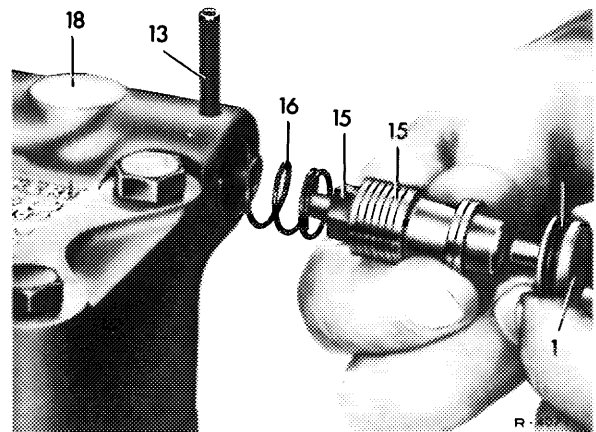


6 Check all parts well and flush.

Volume control valve

7 Carefully knock locking pin (13) out of pump housing (18), since this will generally also push closing plug and volume control valve out of housing under influence of compression spring.

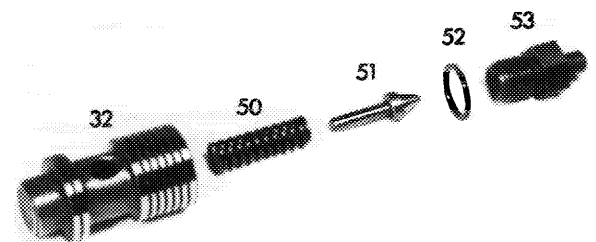
8 Remove closing plug (1), volume control valve (15) and compression spring (16) from pump housing.



Note: If the closing plug remains seated in housing, loosen by means of light hammer blows against closing plug. **Be sure not to damage volume control valve.**

9 Clamp volume control valve (32) at its unground section into vise and unscrew valve screw (53) of pressure relief valve. Make sure that no spacing washer (52) is lost.

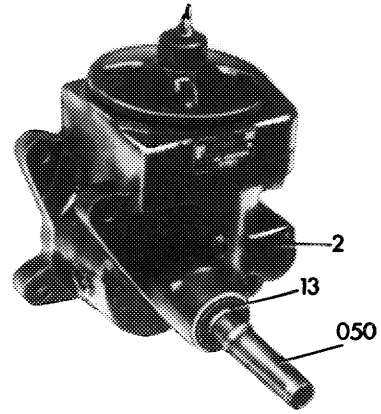
Remove valve cone (51) and compression spring (50) from volume control valve.



Input shaft and sealing ring

10 Remove woodruff key from input shaft.

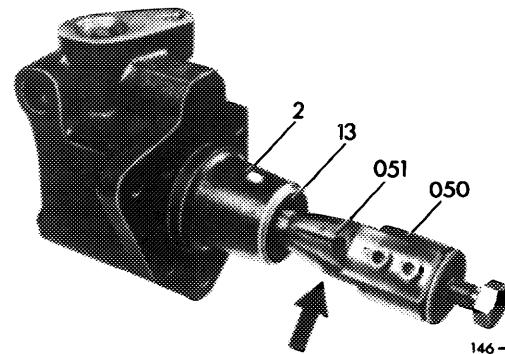
11 Screw guide sleeve (050) on input shaft.



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12 Screw back hex screw of puller (050) and slip tool on input shaft, while punching through sealing lips of radial sealing ring (13) with shoes (051).

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



146-10140

- 1 O-ring
- 2 Pump housing
- 3 Pressure plate
- 4 Oil guide plate
- 5 Compression spring
- 6 Cam ring
- 7 Rotor with blade
- 8 O-ring
- 9 Bearing bushing
- 10 Sheet half
- 11 Input shaft
- 12 Bearing bushing
- 13 Sealing ring
- 15 Housing cover

