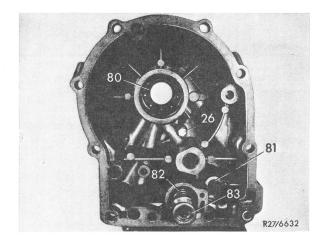
## Disassembly and Reassembly of Rear Transmission **27.**2

Tightening Torques	Nm	(kpm)	
Fastening bolt for tachometer drive and secondary pump	8	(0.8)	
Phillips head screw for holding plate on locking piston	4	(0.4)	
Special Tool			
Assembly mandrel	108 589 (	108 589 02 43 00	

## Disassembly

1 Remove rear transmission case (27.2–500).

**2** Unscrew fastening bolt from cover plate of locking piston and remove locking piston (81) together with spring (Fig. 1).





81 Locking piston82 Pressure receiving springs83 Spring plate

**3** Remove spring plate (83) with two springs (82) and pressure receiving piston from rear transmission case cover.

4 Unscrew fastening bolt for tachometer drive.

**5** Pull tachometer drive (31 to 33) out of rear transmission case, remove tachometer pinion (31) from bearing body (33) (Fig. 2).

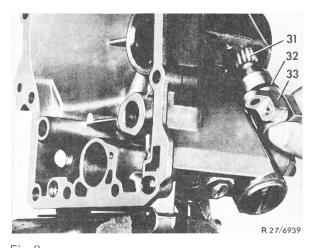


Fig. 2 31 Tachometer pinion 33 Bearing body 32 O-ring

6 Unscrew fastening bolt for secondary pump (26) (Fig. 1).

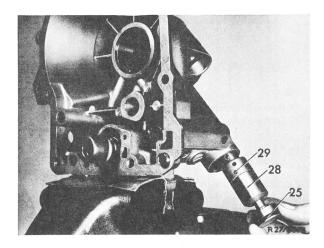


Fig. 3 25 O-ring 28 Secondary pump

29 Fastening bore

7 Remove secondary pump (28) from rear transmission case (Fig. 3).

 ${\bf 8}$  . Push sealing ring (86) out of rear transmission case (Fig. 4).

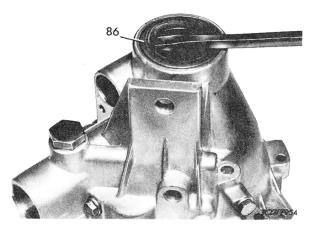


Fig. 4 86 Sealing ring

**9** Remove locking ring (79) and press out ball bearing (80).

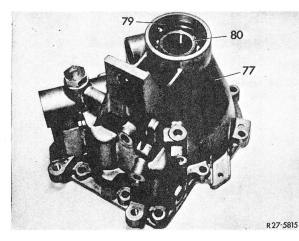
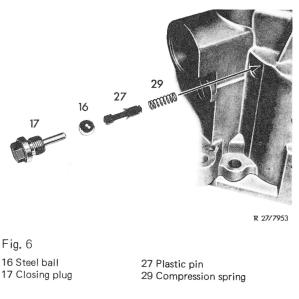


Fig. 5 77 Rear transmission case 80 Ball bearing 79 Locking ring

**10** Unscrew the two measuring connection plugs.

**11** Remove closing plug (13) together with compression spring (10) and glass ball (9) (Fig. 8).

**12** Unscrew closing plug (17) and remove steel ball (16) (Fig. 6).



13 Check thrust pin (27) for smooth operation.

**Caution!** If the plastic pin (27) binds or drops out, be sure to replace. New transmission covers are already provided with the plastic pin (27), compression spring (29), ball (16) and closing plug (17).

## Assembly

**14** Press-in ball bearing (80) (Fig. 5) with assembly mandrel (78) (Fig. 7).

**15** Insert locking ring (79) (Fig. 5), press-in sealing ring (86) (Fig. 4).

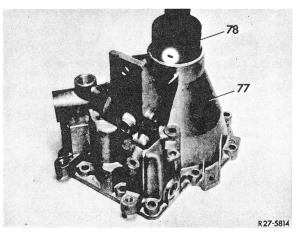


Fig. 7 77 Rear transmission case 78 Assembly mandrel 108 589 02 43 00

**16** Insert locking piston (81) with spring and screw down holding plate at 4 Nm (0.4 kpm) (Fig. 1).

**17** Introduce secondary pump (28) into rear transmission case until the fastening bore (29) is in alignment with the bore in transmission case (Fig. 3).

**18** Tighten fastening bolt (26) of secondary pump to 8 Nm (0.8 kpm) (Fig. 1).

**19** Insert tachometer pinion (31) into bearing body (33), introduce tachometer drive into rear transmission case until fastening bore is in alignment with bore in transmission case (Fig. 2).

**20** Tighten fastening bolt of tachometer drive to 8 Nm (0.8 kpm).

**21** Screw-in closing plug (13) with spring (10), as well as glass ball (9) and new sealing ring (Fig. 8).

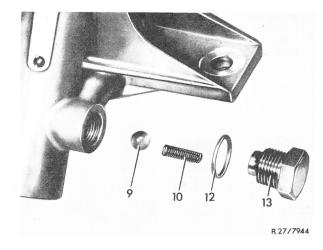


Fig. 8

9 Ball valve 10 Compression spring 12 Sealing ring 13 Closing plug

**22** Screw-in the two measuring connection plugs with new sealing ring.

23 Insert pressure receiving piston:

Insert compression spring (82) into piston (23) and introduce both together into case (Fig. 10).

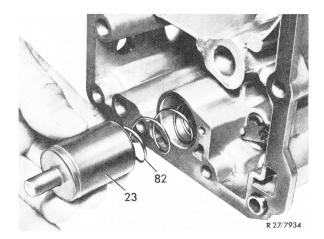


Fig. 10 23 Pressure receiving piston 82 Pressure receiving spring

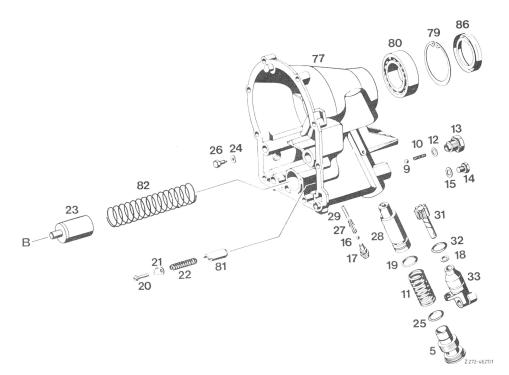


Fig. 11

9 Ball

- 5 Plug with inlet valve for
- 15 Sealing ring
  - 16 Ball

14 Closing plug

- 17 Closing plug
- 18 Sealing ring
- 19 O-ring
- 10 Compression spring
- 11 Compression spring
- 12 Sealing ring 13 Closing plug

secondary pump

- 20 Oval-head screw
- 21 Holder
  - 22 Compression spring

.

- 23 Pressure receiving piston
- 24 Spring washer
- 25 O-ring
- 26 Fastening bolt for secondary 79 Locking ring
  - pump
- 27 Plastic pin
- 28 Secondary pump
- 29 Compression spring
- 31 Tachometer pinion
- 32 O-ring
- 33 Bearing body
- 77 Rear transmission case
- 80 Ball bearing
- 81 Locking piston
- 82 Pressure receiving springs
- 86 Radial sealing ring