

Removal and Installation of Drive (Intermediate Gear Shaft) for Injection Pump and Oil Pump, OM 621

Job No.

05-28

Removal:

1. Remove injection pump (see Job No. 07-11).
2. Remove the injection timing device (see Job No. 07-25).
3. Loosen the screw plug (33) on the drive for the oil pump by approx. 2 turns, unscrew the hex. hd. screw with pin (35) and use a screw driver to press out the pressure piece (36) towards top, inserting the screw driver between the screw plug (33) and the cover plate (32) (see Figure 07-25/4).

Note: The pressure piece can also be pulled by a modified screw plug (33). To do this, procure a second screw plug A M 26×1.5 DIN 7604, drill through in the centre and tap a thread M 8. Screw in this thread a sufficiently long M 8 hex. hd. screw.

After unscrewing the screw plug (33) screw in the modified screw plug and pull the pressure piece by screwing in the hex. hd. screw M 8.

4. Pull the helical gear (39) (see Figure 07-25/4).
5. Completely unscrew the screw plug (33) from the pressure piece (36) and remove the washer (32) and the rubber ring (34) (see Figure 07-25/4).
6. Rearwards press out the intermediate gear shaft (10) (see Figure 07-25/4).
7. Check the front bearing bushing (11), the rear bearing bushing (12), the bearing bushing (40), the bearing bushing (37), the helical gear (39) and the intermediate gear

shaft (10) for wear, and replace, if necessary (see Job No. 05-0 and Figure 07-25/4).

Note: Up to engine No. 621.910-10-9506600 the bushing (40) in the bearing body (38) is provided with a lubricating groove; this bushing should be replaced by a bushing without lubricating groove.

Installation:

8. Insert the intermediate gear shaft (10) from behind, observing the two Woodruff keys (see Figure 07-25/4).
9. Insert the helical gear (39) and the pressure piece (36) and tighten the hex. hd. screw with pin (35). Check the axial clearance (0.1-0.25 mm) of the helical gear (see Figure 07-25/4).

Note: If the axial clearance is too small or too large, dismount the pressure piece (36) again. If it is too small, accordingly machine the front face of the bushing (37) and remount the pressure piece (36). If the clearance is too large, press the bushing (37) out of the pressure piece and correct the axial clearance of the helical gear (39) by fitting the appropriate shim between bearing bushing (37) and pressure piece (36). Press the bearing bushing with the washer into the pressure piece, insert the pressure piece again and tighten the hex. hd. screw with pin. **Again check the axial clearance of the helical gear.**

10. Fit the rubber ring (34), the washer (32) and tighten the screw plug (33) (see Figure 07-25/4).
11. Install the injection timing device (see Job No. 07-25).
12. Install the injection pump (see Job No. 07-11).