

9. Lightly grease the new gasket and seat it on the connecting flange of the water pump.

Now insert the water pump in the cylinder head, so that the filler cap (1) with the vent hole is exactly on top. Screw in the fixing screws of the water pump. Fix the pipe clip holder (4) to the water pump with the two longer screws M 6 x 18. Tighten all screws evenly (see Figure 20-5/1).

10. Tighten the hexagon screw fixing the pipe clip (3) to the holder (4). The pipe clip must properly clamp the lines to prevent vibrating of the lines.
11. Install the V-belt, but do not use sharp-edged tools for this purpose. Tension the V-belt (see Job No. 20-6).
12. Attach the fan to the belt pulley. If hexagon screws M 8 x 32 DIN 931 and/or bolts and nuts are used, the screw heads must face ahead and the nuts have to be mounted with lock washers B 8 DIN 137 (also see Page 20-12/1).

**Note:** If a spacer adjusting the distance between fan and radiator has been removed, reinstall it between the fan and the belt pulley. Such spacer rings are

available 4 mm, 8 mm, and 11 mm thick (also see Page 20-8/10). The outer diameter of the spacer ring is 64 mm or 66 mm.

13. Mount the radiator in such a way that there will be a distance of 15 to 18 mm between the fan and the radiator. This distance must always be observed so that the cooling effect of the fan is not reduced. Tighten the hose joint clip at the cooling water outlet pipe and refill the cooling water.

**Note:** On the vehicle engine for the 180 D, type 636.930, do not fail to keep to the distances  $a = 20$  mm,  $b = 14$  mm (see Figure 20-5/2). If necessary, correct by dislocating the radiator.

14. Fill the water pump housing with Hypoid oil SAE 90. To do this, unscrew the filler plug (1) and also the oil level check screw (2) located at the side of the housing. Fill in until the oil flows out of the level check hole. Reinstall the two plugs (see Figure 20-5/1).

### Caution!

**The water pumps are delivered without oil filling.**

## B. OM 621

### Removal:

1. Carry out operations according to Section A, OM 636, items 1 through 4.
2. Loosen the nuts for the generator mounting (1) and the tensioning device (2-6) and turn the tension nut (4) in clockwise direction until the V-belt can be removed (see Figure 20-6/6).
3. Unscrew the venting line (9) from the water pump to the cylinder head and remove it (see Figure 20-6/6).

4. Unscrew the 3 hex. hd. screws on the water pump and remove the water pump.

### Installation:

5. For mounting the water pump, do not fail to replace the seal ring behind the upper mounting lug on the water pump.
6. Install the venting line (9) ensuring that it is free from tension and use two new seal rings each on the connections (see Figure 20-6/6).

7. Place the V-belt on the pulley and fasten the fan by means of the 3 hex. hd. screws and the lock washers.
8. Adjust the tension of the V-belt (see Job No. 20-6, Section B, OM 621, item 2).
9. With installed engine, connect all lines to the water pump and fill in cooling water.
10. Mount the radiator ensuring that with the vehicle engine type 621.910, there is a distance  $a = 20$  mm and  $b = 14$  mm between fan and radiator (see Figure 20-5/2).
11. Fill Hypoid transmission oil SAE 90 into the bearing housing of the water pump. To do this, unscrew the oil filler cap (1) and the check screw (2), which is located at the side. Fill in oil until it flows out from the lateral check bore. Again screw in the screw plugs (see Figure 20-5/1).

**Note:** Up to engine No. 621.910-10-95 15234, the hub part No. 121 202 00 14 (with 4 mounting holes) and as from engine No. 621.910-10 000001 (190 D b version) the

hub part No. 180 202 00 14 (with 3 mounting holes) is pressed on the water pump shaft.

**Caution!**

**The water pumps are supplied without oil filling.**

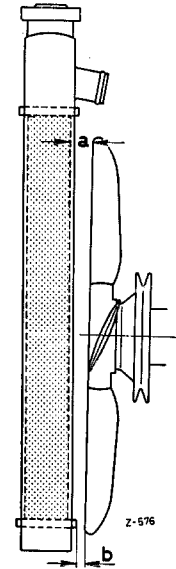


Figure 20-5/2