

1369900951 is screwed to the long fixing stud without washer. The use of a standard nut causes an incorrect alignment of the mounting bar (6), thus twisting the belt tensioning device (see Figure 20-15/2).

7. Fix the fan bearing bracket (10) with belt pulley (9) to the support of the fan bearing bracket (14). Tighten the fixing screw (2) only lightly at first, so that the fan bearing bracket can still be turned easily for the tensioning of the V-belt (see Figure 20-15/1).

**Note:** The left screw (when viewed in direction of driving) is installed with lock washer (3), the right one seated in the slotted hole with washer (4) and lock washer (see Figure 20-15/1).

8. Insert the V-belt and adjust the tension of the V-belt by means of the screw (7) (see Figure 20-15/1).

The tension of the V-belt is correct if the V-belt can be pressed in approx. 10 to 15 mm between the two belt pulleys by moderate pressure (see Figure 20-15/3). Tighten the fixing screws (2) (see Figure 20-15/1).

Dimensions of the narrow V-belt:  
9.5 x 750 mm long N 275.

## B. Disassembly and Assembly

### Disassembly:

1. Drive out the centering ring (1) toward the front with hammer punches to the fan bearing bracket (10) (see Figure 20-15/4).
2. Unscrew the hex nut (2) and remove the Woodruff key (3).
3. Pull the fan bearing bracket (10) out of the fan hub (6).

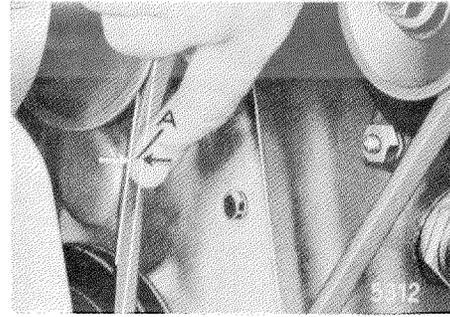


Figure 20-15/3

A. Depression value 10 to 15 mm

**Note:** Under no circumstances should the V-belts be installed with sharp-edged tools.

9. Put the mounting bar (11) over the left-hand fixing stud and fix it with a lock washer, a standard hex nut (1) and a hexagon screw (13) (see Figure 20-15/1).
10. Check the tension of the V-belt for the water pump and the generator, tighten if necessary (see Job No. 20-6, Paragraph 2).
11. Screw the fan (8) to the belt pulley (9), with 4 screws and 4 spring washers (see Figure 20-15/1).

4. Remove the spacer (7), the annular grooved-bearing (8), and the oil-seal ring (9) from the shaft.
5. Take the guard ring (5) and the annular grooved-bearing (4) out of the fan hub (6).

### Checking and Repairing:

6. Clean all parts and check them for wear. Check tight seating of the annular grooved-bearings and the centering ring.

**Note:** Check especially the tight fit of the centering ring (1), because this ring serves not only to center the fan but also to seal the front end of the fan bearing which is filled with 30 cm<sup>3</sup> of SAE 90 oil.

**Assembly:**

7. Force the annular grooved-bearing (8) and a new oil-seal ring (9) into the fan hub. Before this operation apply sealing compound to the circumference of the oil-seal ring which must be flush with the fan hub (see Figure 20-15/4).
8. Press in the fan bearing bracket (10).
9. Install the guard ring (5).
10. Slip the spacer (7) on the shaft and press in the annular grooved-bearing (4), so that it rests against the guard ring (5). The annular grooved-bearing (8), possibly pressed in too far, is positioned correctly by the spacer during this operation.
11. Screw on the nut (2) with the spring washer (3) and tighten.
12. Fill in 30 cm<sup>3</sup> of oil of the SAE group 90 and press in the centering ring (1), so that the 4 holes of the ring coincide with the tapped holes for the fixing screws of the fan.

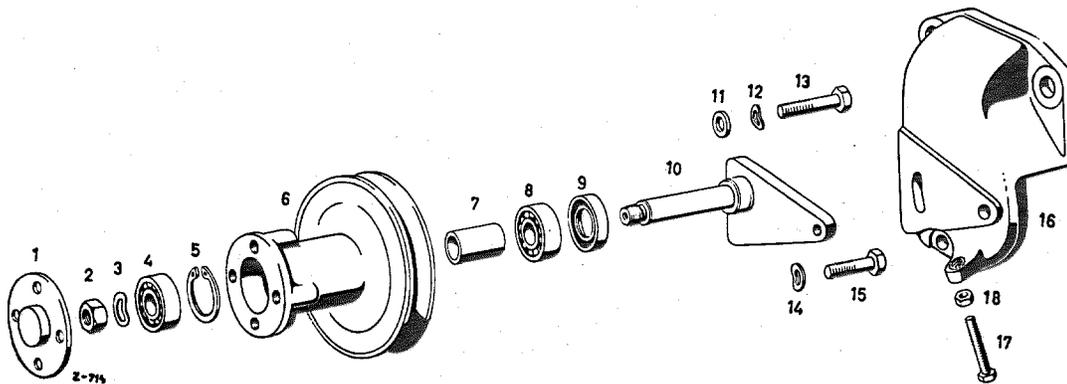


Figure 20-15/4

- 1 Centering ring (for fan)
- 2 Hex nut (M 12x1.5)
- 3 Spring washer
- 4 Annular grooved-bearing 6202 DIN 625 15x35x11 mm
- 5 Guard ring (35x1.5 DIN 472)
- 6 Belt pulley with fan hub
- 7 Spacer 17.6x22 mm in dia., 33 mm long

- 8 Annular grooved-bearing 6202 DIN 625 15x35x11 mm
- 9 Sealing ring (oil-seal ring) 22x35 mm in dia., 8 mm wide
- 10 Fan bearing bracket
- 11 Washer
- 12 Spring washer
- 13 Hexagon screw M 8x40

- 14 Spring washer
- 15 Hexagon screw M 8x30 to fix fan bearing bracket to support
- 16 Support for fan bearing bracket
- 17 Adjusting screw M 6x40 for fan bearing bracket
- 18 Lock nut