Elongated or damaged V-belts should be replaced in due time to avoid the water pump or generator being out of operation. Also replace heavily worn pulleys which will cause damages to the V-belts.

The correct tension is of decisive importance for the longevity of the V-belt. If too slack, the V-belt tends to flutter. If too tight, the V-belt will become warm, also the bearings of the fan, water pump and generator will be subject to excessive load. Protect the V-belts from oil and grease; oil decomposes the rubber and separates it from the tissue.

A. OM 636

V-belt for water pump and generator

For all types of the OM 636, the removal procedure of the V-belt for the water pump and the generator is identical. (If an additional centrifugal pump is driven by the crankshaft, refer to Job No. 20–3, Section A, item c).

1. Loosen the hex. hd. screws (1) and (2) on the generator support, the hex. hd. screw (5) on the generator holder and the hex. hd. screw (4) as well as the hex. nut (3) at the mounting rail (see Figure 20–6/1).

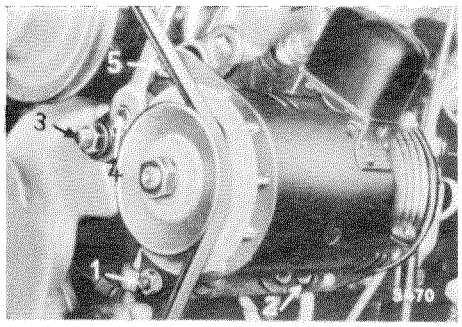

Figure 20–6/1

1 Hex. hd. screw on generator support, front
2 Hex. hd. screw on generator support, rear
3 Hex. nut for mounting the generator holder to the fan support
4 Hex. hd. screw to connect holder and mounting rail
5 Hex. hd. screw for mounting the generator to the holder

2. Press the generator against the engine and remove the V-belt.

Note: On the engines with rigid generator mounting (see Figure 20–6/2) the holder (4) is not divided.

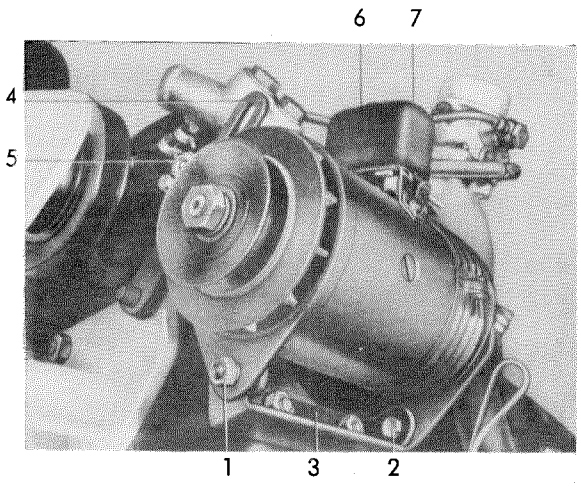

Figure 20–6/2

1 Hex. hd. screw
2 Hex. hd. screw
3 Generator support
4 Holder
5 Hex. hd. screw
6 Terminal 61
7 Terminal 51

3. Place the V-belt on the pulley (to do this, do not use sharp objects). The following table shows the dimensions of the V-belts for the different types.

Note: The size specification of the V-belts has been modified. The figure 9.5 specifies the mean width and 1225 specifies the outer circumference. Formerly, the inner circumference (1175) and the max. and min. width (10×8.5) had been specified.

Type	Dimensions of the V-belts
636.912, 914 915, 916 918, 931 932, 933 and 636.917	V-belts DIN 2215 17×11×1090 mm long for generator, fan and water pump drive
636.930 919, 934, 935 636.917/28 and/or 917–022 636.917–340 and 636.917–370	Narrow V-belt N 275 10×8.5×1175 mm long replaced by 9.5×1225 mm long for water pump and generator drive narrow V-belt N 275 9.5×750 mm long for fan drive

4. **Stretch the V-belt** by pressing the generator outwards and tightening the screws (1 and 2, 4 and 5) as well as the hex. nut (3) (see Figure 20–6/1).

   The tension of the V-belt is correct, if it deflects by approx. **6 mm** when applying moderate pressure in the centre between generator and water pump pulley (see Figure 20–6/3). If necessary, correct the tension of the V-belt by loosening the screw (4) (see Figure 20–6/1).

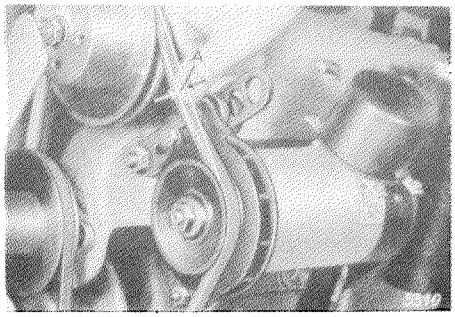

Figure 20–6/3

A. Deflection by applying pressure: approx. 6 mm

Note: New V-belts should be re-tensioned after a running period of approx. 10 hours, since they slightly elongate at the beginning.

V-belt for fan bearing bracket

1. Loosen the hex. nut (6), the screw (7) and the mounting screws (2) for slackening the V-belt and remove the V-belt (see Figure 20–6/4).

2. Place the V-belt on the pulley and adjust the tension of the V-belt by means of the screw (7) (see Figure 20–6/4).

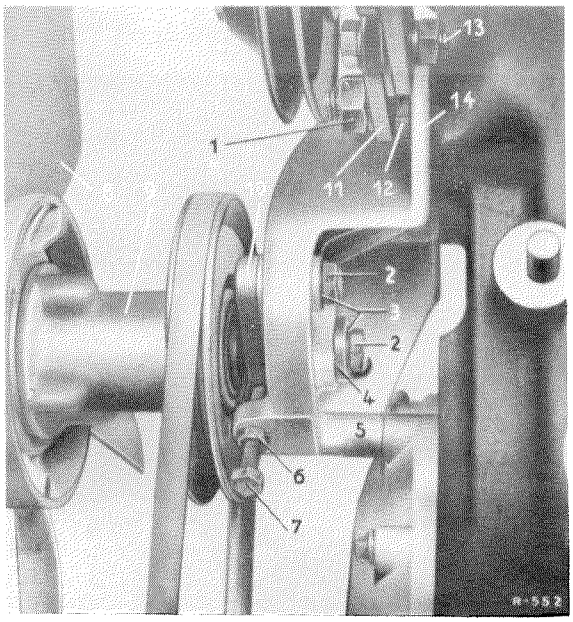

Figure 20–6/4

Mounting of the fan to the pulley, which is seated on a cylinder crankcase mounted carrier

1 Hex. nut for mounting the fan bracket and the mounting rail for the generator
2 Mounting screw for the fan bracket
3 Lock washer
4 Washer
5 Mounting of fan bracket to the timing gear housing cover (screw not visible)
6 Hex. nut
7 Screw for tensioning the V-belt for the fan
8 Fan
9 Pulley with fan hub
10 Fan bearing bracket
11 Mounting rail
12 Hex. nut, part No. 136 990 09 51
13 Hex. hd. screw
14 Fan bracket

The tension of the V-belt is correct, if it deflects by approx. **10–15 mm** when applying moderate pressure between the two pulleys (see Figure 20–6/5). The mounting screws (2) and the hex. nut (6) should be tightened (see Figure 20–6/4).

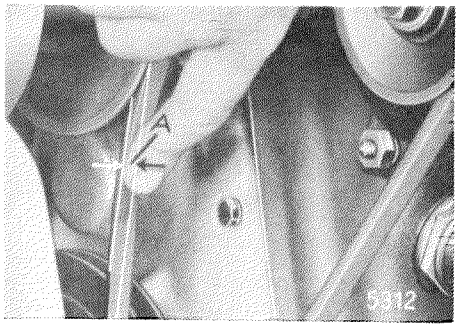

Figure 20–6/5

A deflection by applying pressure: approx. 10–15 mm