

# Removal and Installation of Generator

Job No.

15—11

## A. Standard Version

1. If the engine is installed, disconnect the negative cable at the battery and the cable at the generator.
2. Remove the nuts of the generator mounting (1) and the clamping device nuts (2—6), and turn the clamp nut (4) far enough to the right to allow the generator Vee-belt to be removed (Fig. 15—11/1).

Unscrew the mounting nuts (1) and the fixing screw for the clamping wedge (3) and remove the generator forward. If necessary, remove the tensioning screw (6) at the crankcase.

3. Fix the tensioning screw (6) at the crankcase. Place the generator in position, fit the clamp wedge fixing screw (3) and install all the nuts together with their lock washers, but do not tighten up. Do not forget the ground lead.

**Note:** In the first version, the generator is supported at the front and the rear between two rubber washers, and the tensioning screw at the bottom at the crankcase is similarly supported between two rubber washers. In the second version, however, (as of Engine No. 65 004 76) only the generator is supported at the front between two rubber washers (Fig. 15—11/3).

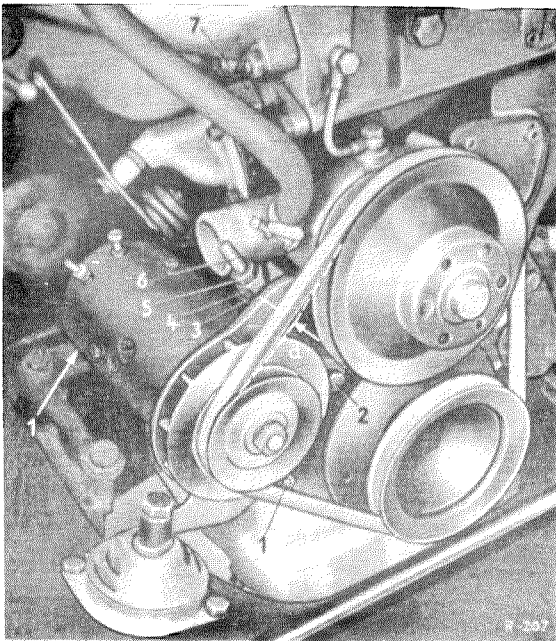


Fig. 15—11/1

- 1 Generator mounting
- 2 Tensioning screw (6) mounting
- 3 Clamping wedge
- 4 Clamp nut
- 5 Locking nut
- 6 Tensioning screw
- 7 Chain tensioner

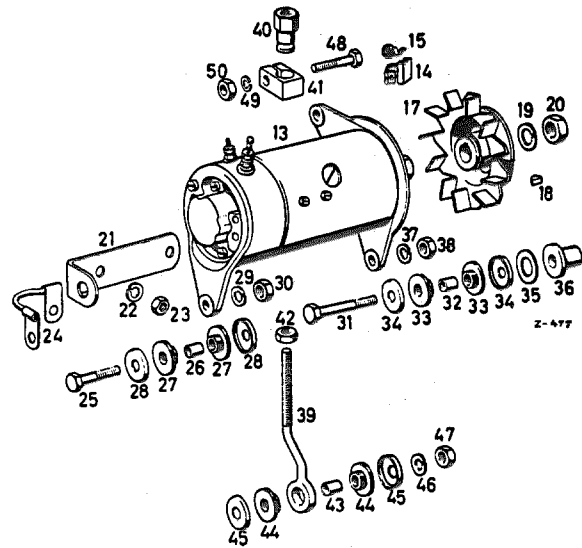
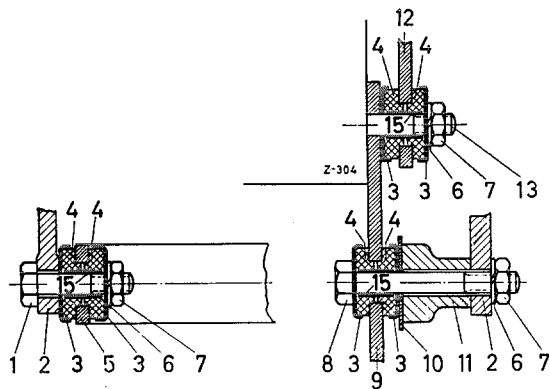


Fig. 15—11/2

- |                       |                     |
|-----------------------|---------------------|
| 14 Carbon brushes     | 33 Rubber washer    |
| 15 Compression spring | 34 Cup washer       |
| 17 Vee-pulley         | 35 Washer           |
| 18 Woodruff key       | 36 Spacer sleeve    |
| 19 Lock washer        | 37 Lock washer      |
| 20 Hexagon nut        | 38 Hexagon nut      |
| 21 Support            | 39 Tensioning screw |
| 22 Lock washer        | 40 Clamp nut        |
| 23 Hexagon screw      | 41 Clamp wedge      |
| 24 Ground lead        | 42 Hexagon nut      |
| 25 Hexagon screw      | 43 Sleeve           |
| 26 Sleeve             | 44 Rubber washer    |
| 27 Rubber washer      | 45 Cup washer       |
| 28 Cup washer         | 46 Lock washer      |
| 29 Lock washer        | 47 Hexagon nut      |
| 30 Hexagon nut        | 48 Hexagon screw    |
| 31 Hexagon screw      | 49 Lock washer      |
| 32 Sleeve             | 50 Hexagon nut      |

1st version



2nd version

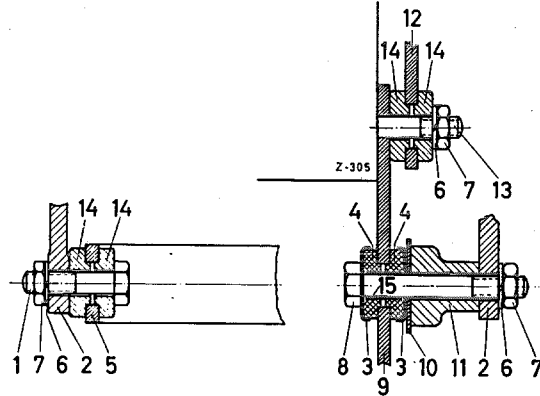


Fig. 15 — 11/3

1 Hexagon screw M 8 × 32 DIN 931 — 8 G  
2 Generator  
3 Cup washer  
4 Rubber washer  
5 Support

6 Lock washer  
7 Hexagon nut M 8 DIN 934 — 5 S  
8 Hexagon screw M 8 × 60 DIN 931 — 8 G  
9 Engine support  
10 Washer

11 Spacer sleeve 25.5 mm long  
12 Tensioning screw  
13 Stud screw M 8 × 30 DIN 939 — 5 S  
14 Washer  
15 Sleeve

With the introduction of the second version of the generator mounting, the ground cable (24) was no longer fitted (Fig. 15 — 11/2). As of Engine No. 65 02 360, however, it was installed again, and was later fitted to the front of the generator and lengthened. The ground lead on the front of the generator is now located between the washer (14), or alternatively the front generator lug (2) and the lock washer (6) (Fig. 15 — 11/3, 2nd version).

If repairs are being carried out on an engine not fitted with ground lead, a ground lead (Part No. 121 150 03 32) should subsequently be installed on the front of the generator. When replacing a ground lead which was fitted to the bracket and to the rear generator lug, the new ground lead (Part No. 121 150 03 32) should be fitted on the front of the generator in the same way.

4. Check the alignment of the pulleys. Then put on the Vee-belt and tighten by turning the clamp nut (4) to the left. The distance which the Vee-belt can be pressed out of the straight when moderate thumb pressure is applied from the generator side must measure at least 5 mm and not more than

10 mm. When this operation is completed, tighten the lock nut (5) and the front and rear mounting nuts (1) (see Fig. 15 — 11/1).

5. Connect up the generator cables and the ground cable to the negative terminal of the battery.

When connecting up the electric cables of the wiring harness from the generator to the regulator, pay attention to the color coding.

Connect as follows: The black cable (Lead No. 1) (1.5 mm<sup>2</sup> in section) fitted with tag, to terminal DF,

the red cable (Lead No. 2) (4 mm<sup>2</sup> in section) to terminal D +,

the brown cable (Lead No. 3) (2.5 mm<sup>2</sup> in section) to terminal D — of the generator (see Job No. 54 — 4, Section A, Diagram of the Wiring Harness, Generator-Regulator).

**Note: Be sure to connect cables to correct terminals. Incorrect connection of the terminals involves the danger of pole reversal to the Generator and could result in the destruction of the Regulator!**

## B. Subsequent Installation of a 300 Watt Generator (Optional Extra SA 10183)

The subsequent installation of a 300 watt generator as an optional extra is described in Job No. 01 — 4, Section D.