

Removal and Installation of Generator with Generator Support and Generator Holder

Job No.

15-11

A. OM 636

The generator is rigidly suspended on the engines of the type 636.914, 915, 916, 917, 918, 931, 932, 933 and 936 (see Figure 15-11/1). On the vehicle engines of the type 636.930, 636.934 and 636.919 the generator is furnished with rubber suspension (see Figure 15-11/2, /3 and /4).

Removal:

1. On installed engines the ground cable must be disconnected from the battery.
 2. Disconnect the lines at the terminals 51 and 61 on the regulator cutout of the generator (see Figure 15-11/1).
 3. Loosen the hexagon screws (1 and 2) at the generator support, the hexagon screw (5) at the generator holder, the hexagon screw (4) and the hex nut (3) at the mounting bar (see Figure 15-11/2).
- Note:** On the engines with rigid suspension of the generator (see Figure 15-11/1) the generator holder (6) is not slotted.
4. Press the generator towards the engine and remove the V-belt.
 5. Unscrew the two hexagon screws (1) and (2) and remove the generator (see Figure 15-11/2).
 6. Unscrew the hex nuts (8) securing the generator support and remove the generator support (see Figure 15-11/2).

Installation:

If the generator is replaced, make sure that the specified version including belt pulley is installed (see table page 15-11/3).

7. Fix generator support (2) with ground lead (6) to the cylinder crankcase (Arrangement of Components, see Figure 15-11/3).

8. Screw the generator to the generator support with the two hexagon screws (1) and (2) (do not yet tighten) (see Figure 15-11/2).

Fix the ground lead with the hexagon screw (1) (see Figure 15-11/2).

9. Attach the generator support (6) to the generator with the hexagon screw (5) (see Figure 15-11/1).

10. Check alignment of the belt pulleys. Then install the V-belt. (Under no circumstances use sharp-edged tools to do this).

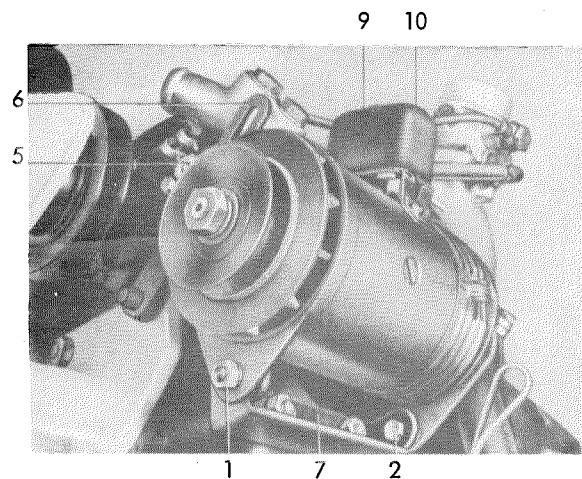


Figure 15-11/1

Rigid Generator Suspension

- 1 Hexagon screw at generator support, front
- 2 Hexagon screw at generator support, rear
- 5 Hexagon screw to fix generator to generator holder
- 6 Generator holder
- 7 Generator support
- 9 Terminal 61
- 10 Terminal 51

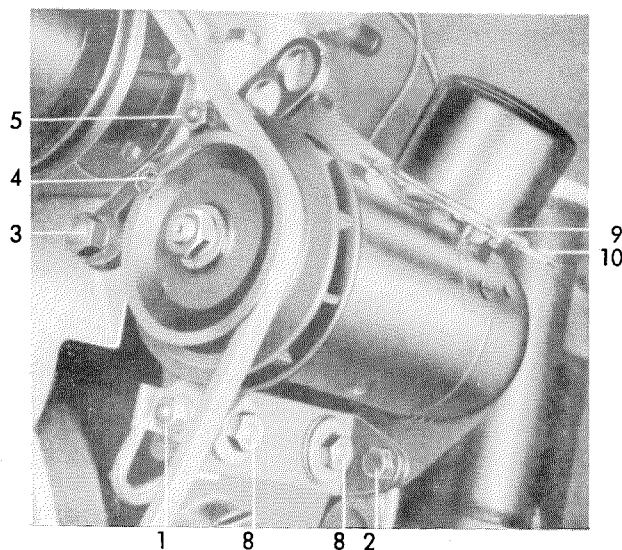


Figure 15-11/2

Rubber Suspension of Generator

- 1 Hexagon screw at generator support, front
- 2 Hexagon screw at generator support, rear
- 3 Hex nut to fix generator holder to fan support
- 4 Hexagon screw to connect holder and mounting bar
- 5 Hexagon screw to fix generator to holder
- 8 Fixing stud and hex nut
- 9 Terminal 61
- 10 Terminal 51

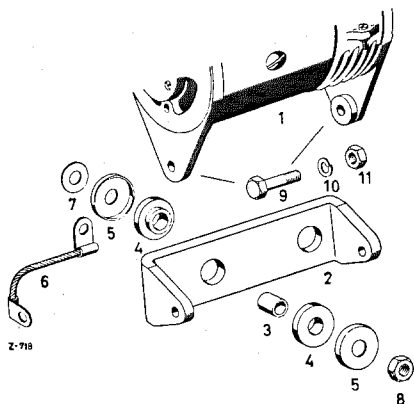


Figure 15-11/3

Generator Support with Rubber Suspension

- | | |
|---------------------|------------------------|
| 1 Generator | 7 Washer |
| 2 Generator support | 8 Hex nut M 10 |
| 3 Sleeve | 9 Hexagon screw M 8x28 |
| 4 Rubber washer | 10 Spring washer |
| 5 Plain washer | 11 Hex nut |
| 6 Ground lead | |

11. **Tighten the V-belt** by pressing the generator outwards and at the same time secure the screws (1 and 2, 4 and 5) and also the hex nut (3) (see Figure 15-11/2). **The tension of the V-belt is correct** if the V-belt can be pressed in approx. 6 mm by moderate pressure between the generator and water pump pulley (see Figure 20-6/1 and 20-6/2).

Note: New V-belts should be retightened after an operating period of approx. 10 hours, because they stretch somewhat in the beginning.

12. Connect the cables of the generator to the terminals 51 and 61 and connect the ground cable to the negative pole of the battery.

Note: Caution! If the cables of the generator are exchanged by mistake at the terminals 51 and 61, there will be the danger that the poles of the generator are reversed and the regulator cutout is destroyed.

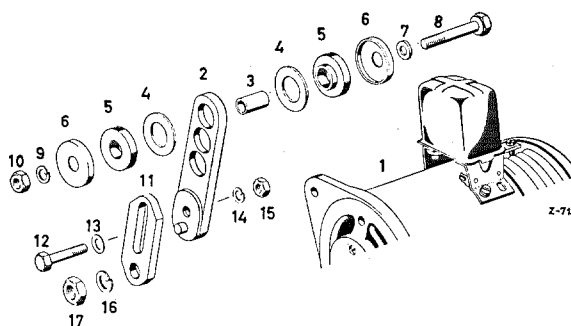


Figure 15-11/4

Two-piece Generator Support with Rubber Suspension

- | | |
|-----------------|-------------------------|
| 1 Generator | 10 Hex nut |
| 2 Holder | 11 Mounting bar |
| 3 Sleeve | 12 Hexagon screw M 8x25 |
| 4 Washer | 13 Washer |
| 5 Rubber washer | 14 Spring washer |
| 6 Plain washer | 15 Hex nut |
| 7 Washer | 16 Spring washer |
| 8 Hexagon screw | 17 Hex nut M 12 |
| 9 Spring washer | |

Generator with Belt Pulley

| DB Part No. Bosch Designation (Belt Pulley DB Part No.) | Installed in Engines of Type | | | | |
|---|------------------------------|--|--|---|---|
| 636 150 00 50 LJ/RJH 150/12 – 2100 BR 1 (153 150 00 60) x (with 2-element governor RS/TAA 130–150/12/1 attached) | 636. | 915 916 918 931 932 933 917/0 917/2 917/3 917/4 917/5 917/9 917/10 917/11 | 12 13 14 15 16 17 18 22 23 24 25 26 27 29 | 000 001 021 040 090 120 221 222 223 226 227 240 270 | 271 272 273 274 280 300 310 320* 390 391 410 411 430 440 |
| * up to engine No. 636.917–320–040 769 | | | | | |
| 636 150 07 50 LJ/GEG 160/12 – 2500 R 10 (636 150 04 60) x (with separate 3-element steep-drop governor RS/UA 160/12/15 and 3-point attachment) RS/UAA 160/12/15 as from March 1963 | 636. | 917–340 917–370 up to engine No. 034 607 917–420 919–420 930 934 935 | | | |
| 636 150 15 50 LJ/GEG 160/12 – 2500 R 10 (636 150 06 60) x (with separate 3-element steep-drop governor RS/UA 160/12/15 and 3-point attachment) RS/UAA 160/12/15 as from March 1963 | 636.914 636.917 | 120 224 225 320 370 | 636.917–320 as from engine No. 040 769 636.917–370 as from engine No. 037 247 | | |
| 636 150 15 50 x LJ/GEG 160/2 – 2500 R 10 (636 150 06 60) (with separate 2-element steep-drop governor RS/TBA 160/12/1 and 4-point attachment) Approx. as from the middle of March 1963 | 636.917 | 000 001 040 221 222 223 226 227 240 | 636.917 270 271 272 273 274 275 280 300 | 636.917 | 390 391 410 411 430 440 |
| x 636 150 22 50 LJ/GEH 90/12 – 2300 R 15 (dust-proof generator) (The pertinent pulley is supplied by the customer.) (Generator without pulley part No. 001 154 01 02) x (with separate 3-element steep-drop governor RS/UA 90/12/26 and 3-hole attachment or with separate 3- element steep-drop governor RS/UA 90/12/4 and 4-hole attachment or with attached 2-element governor RS/TBA 75–90/12/1) | 636. | 917–251 or /30 917–252 or /31 917–253 or /32 917–254 — — | | | |
| x 636 150 23 50 LJ/GEH 90/12 – 1800 R 15 (dust-proof generator) (636 150 06 60) x (with separate 3-element steep-drop governor RS/UA 90/12/26 and 3-hole attachment or with sepa- rate 3-element steep-drop governor RS/UA 90/12/4 and 4-hole attachment or with separate 2-element governor RS/TBA 75 – 90/12/A 1) | 636. | 917–180 or /19 917–190 or /20 917–260 — — 917–261 — — 917–290 — — 917–350 — — 917–400 — — | | | |
| 636 150 24 50 LJ/GEH 90/12 – 2300 R 15 (dust-proof generator) x (636 150 04 60) (with separate 3-element steep-drop governor RS/UA 90/12/26 and 3-hole attachment) | 636.917–380 | | | | |
| 636 150 26 50 x LJ/GEH 90/12–1800 R 15 (181 150 04 60) (with separate 2-element governor RS/TBA 75 – 90/12 A 1) | 636. | 917–022 or /28 917–023 or /33 | | | |

As of now engines of type designation 636.917/6 or 917-050, 636.917/21, 636.917-224, 225, 320, 330, 360, 370, 636.936, 636.937, 636.938, 636.939 and 636.940 are supplied without generator.