



MODEL SAT 180

1. NOTES ON DISASSEMBLY AND REASSEMBLY

Encircled numbers in the following description denote item numbers in the Parts List.

1.1 Gear cover ⑬ grease supply

Hitachi Electric Tool Grease No. 2 (Lithium base)35 g (1.2 oz.)

1.2 Adhesive agents

- ⑱ Bearing cover ① lock screw
 - ⑱ Bearing cover lock screw
 - ⑳ Packing gland lock screw
- } Nejllock No. 2
(synthetic rubber base)

1.3 Locking torques

- ⑤ Tapping screw M4 x 16
 - ⑥ Tapping screw M4 x 20
 - ⑩ Tapping screw M5 x 25
- } 15 - 25 kg-cm (13 - 22 Lb-in)
- 25 - 35 kg-cm (22 - 30 Lb-in)

1.4 Removing the armature assembly ⑪

Take out the carbon brush ⑳ after uncapping the CB cap ⑳. By removing the M5 Tapping Screw ⑩, the armature assembly ①

can be pulled out together with the gear cover (13) and the packing gland (29). The packing gland (29) can be drawn out together with the spindle (22) and the gear (20) removing the M5 cross-slotted pan-head screw (30). Then, with the gear cover secured, use a U-shaped jig to push out the armature assembly as shown in the following figure.

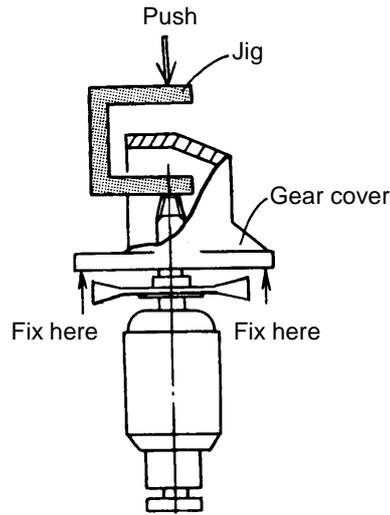


Fig. 1

1.5 Pulling out the stator assembly (4)

After removing the armature assembly (11), unscrew the M4 tapping screws (51), (69) and the M5 tapping screw (32), and detach the handle (B) (50). Upon disconnecting the leads of the stator assembly (4) from the slide switch (43) and the trigger switch (42) respectively, and then disconnecting the CB terminal (5) from the CB holder (2), the stator assembly (4) can be pulled out by unscrewing the M5 cross-slotted pan-head screw (6). If it is very tightly assembled, heating the housing assembly to about 60°C will facilitate disassembling.

1.6 Pulling out the gear

After withdrawing the packing gland (29) together with the spindle (2) etc., secure the gear (20); then, depress the spindle (2) so that the gear (20) will come out as shown in the following figure.

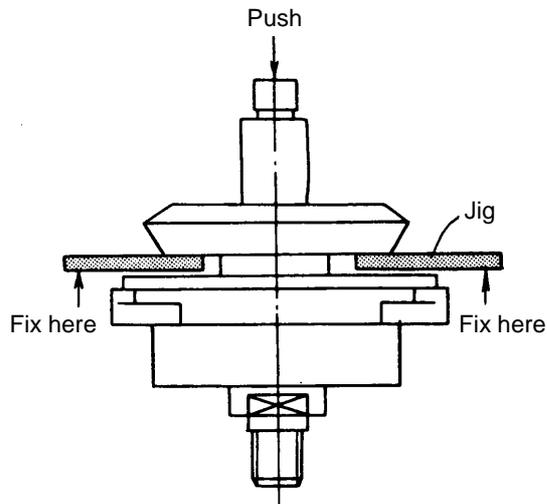


Fig. 2

1.7 Replaching the armature assembly ⑪

Secure the inner ring of the ball bearing ⑮ with a jig and depress the armature assembly ⑪ in place (see the figure on the right).

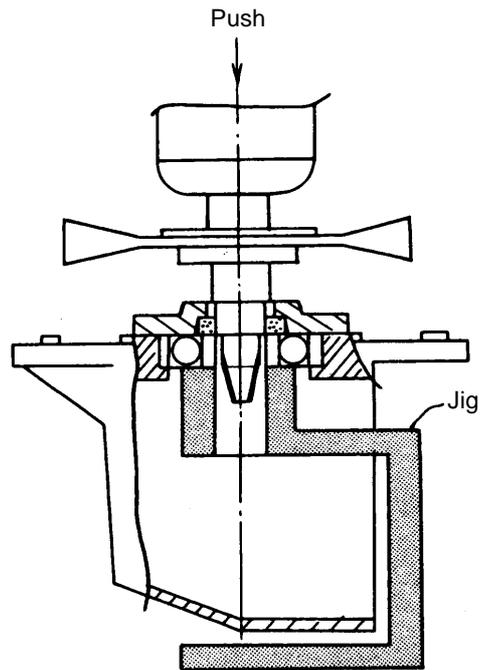


Fig. 3

1.8 Other assembling should be effected in reverse order to dis-assembling. Be sure that the washers etc. are replaced.

1.9 After disassembly and repair, measure the insulation resistance and conduct a dielectric strength test.