



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
- } NejiLock No. 2
(synthetic rubber base)

1.3 Locking torques

- ⑤① Tapping screw M4 x 16
 - ⑥⑨ Tapping screw M4 x 20
 - ③② 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 ③⑤ after uncapping the CB cap ③⑥. By removing the M5 Tapping Screw ③②, the armature assembly ①

can be pulled out together with the gear cover ⑬ and the packing gland ⑳. The packing gland ㉑ can be drawn out together with the spindle ㉒ and the gear ㉓ removing the M5 cross-slotted pan-head screw ㉔. Then, with the gear cover secured, use a U-shaped jig to push out the armature assembly as shown in the following figure.

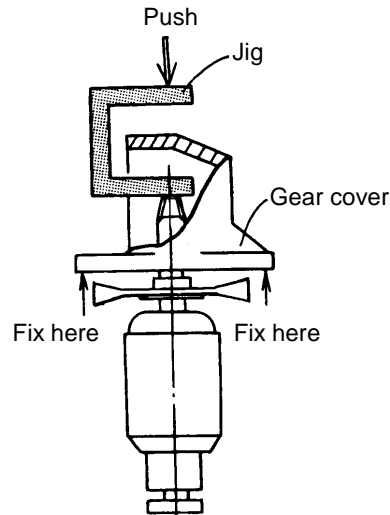


Fig. 1

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) ⑤⑩. 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 ㉑ together with the spindle ② etc., secure the gear ㉓; then, depress the spindle ② so that the gear ㉓ will come out as shown in the following figure.

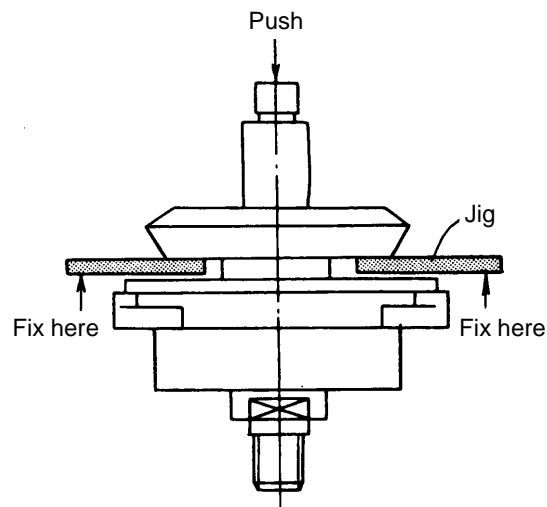


Fig. 2

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).

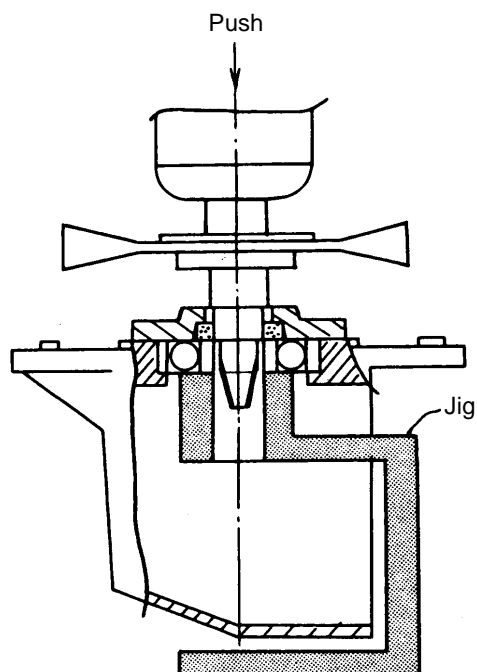


Fig. 3

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.