



MODEL D 10VC

1. ASSEMBLY/DISASSEMBLY GUIDE:

The circled numbers in the descriptions below correspond to the part numbers in the Parts Price List for Type D10VC.

1-1 Disassembly:

A. Disassembly of Parts Within the Handle:

(1) Remove the Handle Cover:

Loosen the M4 x 20 (+) -Hd. Tapping Screws (21), and remove the Handle Cover (22).

(2) Remove the Carbon Brush:

With a small minus-head screwdriver, lift up on the Brush Holder (24), and pull it out slightly. Next, pull out the terminal portion which connects the Carbon Brush (25) and the lead wire from the Reversing Switch Ass'y (27). When pulling the terminal, it is best to push the Carbon Brush fully into the Brush Holder (see Fig. 2).

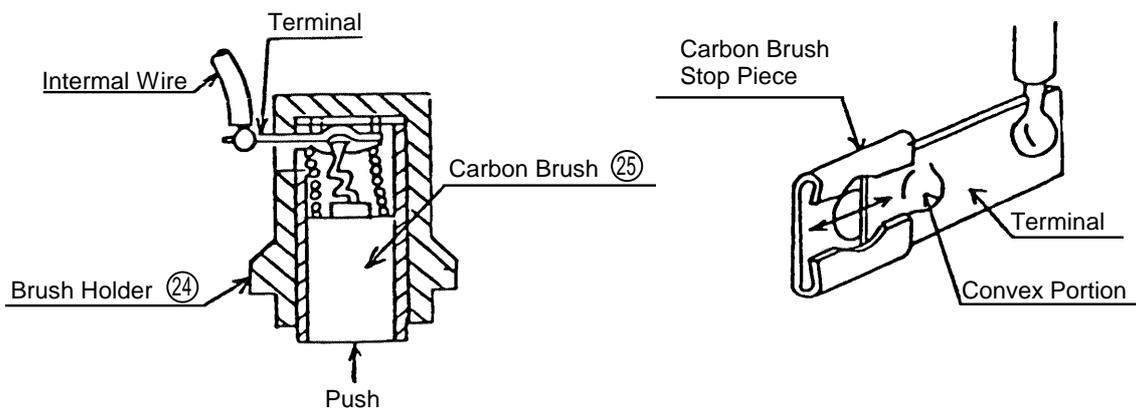


Fig. 2

(3) Remove the Cord:

Loosen the M4 x 16 (+) -Hd. Tapping Screws (28) which retain the Cord Clip (29), and remove the Cord (30) together with the Cord Armor (31).

B. Disassembly of the Armature Ass'y and Stator Ass'y:

(1) Loosen the M4 x 50 (+) -Hd. Tapping Screws (8) and the M4 x 35 (+) -Hd. Tapping Screws (7) which retain the Gear Cover (9), and remove the Gear Cover from the Housing (18). Then, remove the Inner Cover Ass'y (11) and the connected Armature Ass'y (14) from the Housing.

(2) Remove the Armature Ass'y from the Inner Cover Ass'y:

As illustrated in Fig. 3, support the Inner Cover Ass'y (11) with a tubular jig, and push down on the tip of the pinion gear on the Armature Ass'y (14).

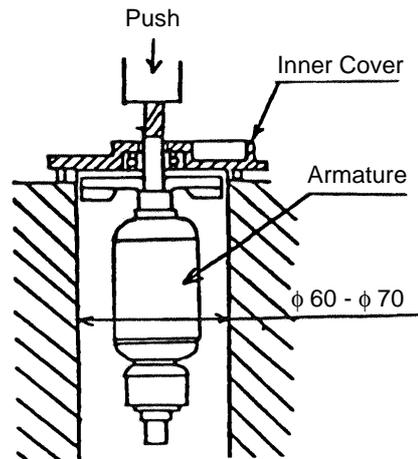


Fig. 3

(3) Remove the Stator Ass'y from the Housing:

First, remove the Fan Guide (15) from the inside of the Housing.

Then, loosen the M4 x 40 (+) -Hd. Tapping Screws (16), and lightly tap the end surface of the Housing with a wooden hammer to loosen and remove the Stator Ass'y (17).

C. Disassembly of the Drill Chuck:

On the Type D10VC, the Drill Chuck (2) is fixed to the Spindle (4) by a 3/8"-24UNF-2A thread (right-hand thread).

First, fit a 14 mm (9/16") spanner to the provided flat surfaces on the shaft of the Spindle.

Next, as illustrated in Fig. 4 fit a J-90 Ring Ass'y to the body portion of the Drill Chuck Ass'y, and secure the Ring Ass'y in a vise. At this

time, insert the pin of the ring assembly into the Handle mounting hole on the drill body portion. Finally, fit the 14 mm (9/16") spanner

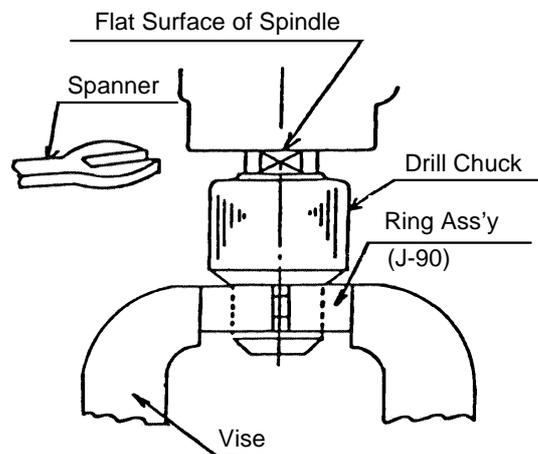


Fig. 4

to the provided flat surfaces on the shaft of the Spindle, and turn the Spindle counter-clockwise to remove the Drill Chuck Ass'y (2).

D. Disassembly of the Gear:

- (1) Remove the Bearing Cap ③ which is mounted on the Gear Cover ⑨. In removal, ensure that the spanner used matches the dimensions of the Bearing Cap ③ (Hitachi's J-29 Spanner is recommended). Also, carefully note that the Bearing Cap is left-hand threaded.
- (2) Occasionally, the ball bearing fitted in the Inner Cover Ass'y ⑪ will adhere to the Spindle ④ during disassembly. In this case, remove the ball bearing from the Spindle.
- (3) As illustrated in Fig. 5, support the end surface of the Gear Cover ⑨ with a tubular jig, and push down on the end of the Spindle ④ with an arbor press or similar tool to remove the Spindle. At this time, the Gear ⑩ will be simultaneously removed from the Spindle.

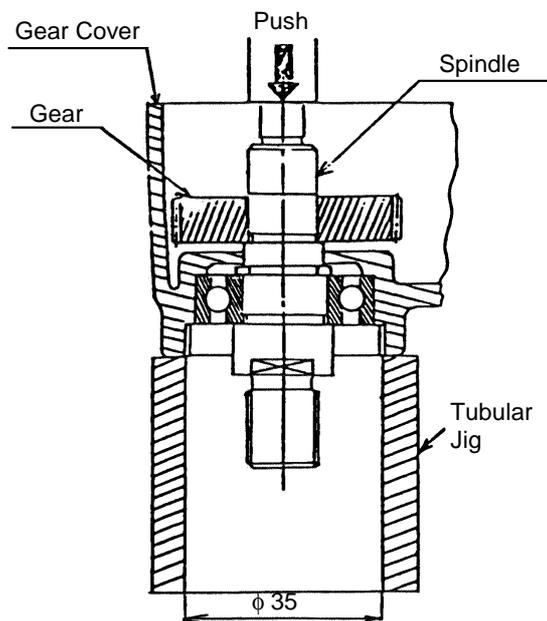


Fig. 5

1-2 Assembly:

Assembly can be accomplished by following the disassembly procedures in reverse. However, special attention should be given to the following items:

A. Wiring Operation:

- (1) When connecting the lead wire terminal to the Carbon Brush ⑳, ensure the terminal is inserted in the direction illustrated in Fig. 2.
- (2) Ensure that internal wiring is accomplished in accordance with the illustrations in Fig. 6. When reassembling the Handle Cover, be very careful not to pinch or damage the wires inside.

B. Lubrication and Adhesive Guide:

(1) Lubrication

- Gear Cover Inside HITACHI MOTOR GREASE
No. 29 (0.033 Lbs)
- Armature Pinion and HITACHI MOTOR GREASE
Gear No. 29

(2) Adhesive

- Bearing Cap Biska 18-M

C. Tightening Torque for Fastening Screws:

- M4 Tapping Screw 15 - 25 kgf-cm
(13.0 - 21.7 in-lb)
- Bearing Cap 100 - 150 kgf-cm
(86.8 - 130 in-lb)
- Screw for Terminal 2.5 - 4.5kgf-cm
(2.2 - 3.9 in-lb)
- Drill Chuck Ass'y 300 ± 25 kgf-cm
(260 ± 20 in-lb)

1-3 Wiring diagram and wiring work for America, Canada

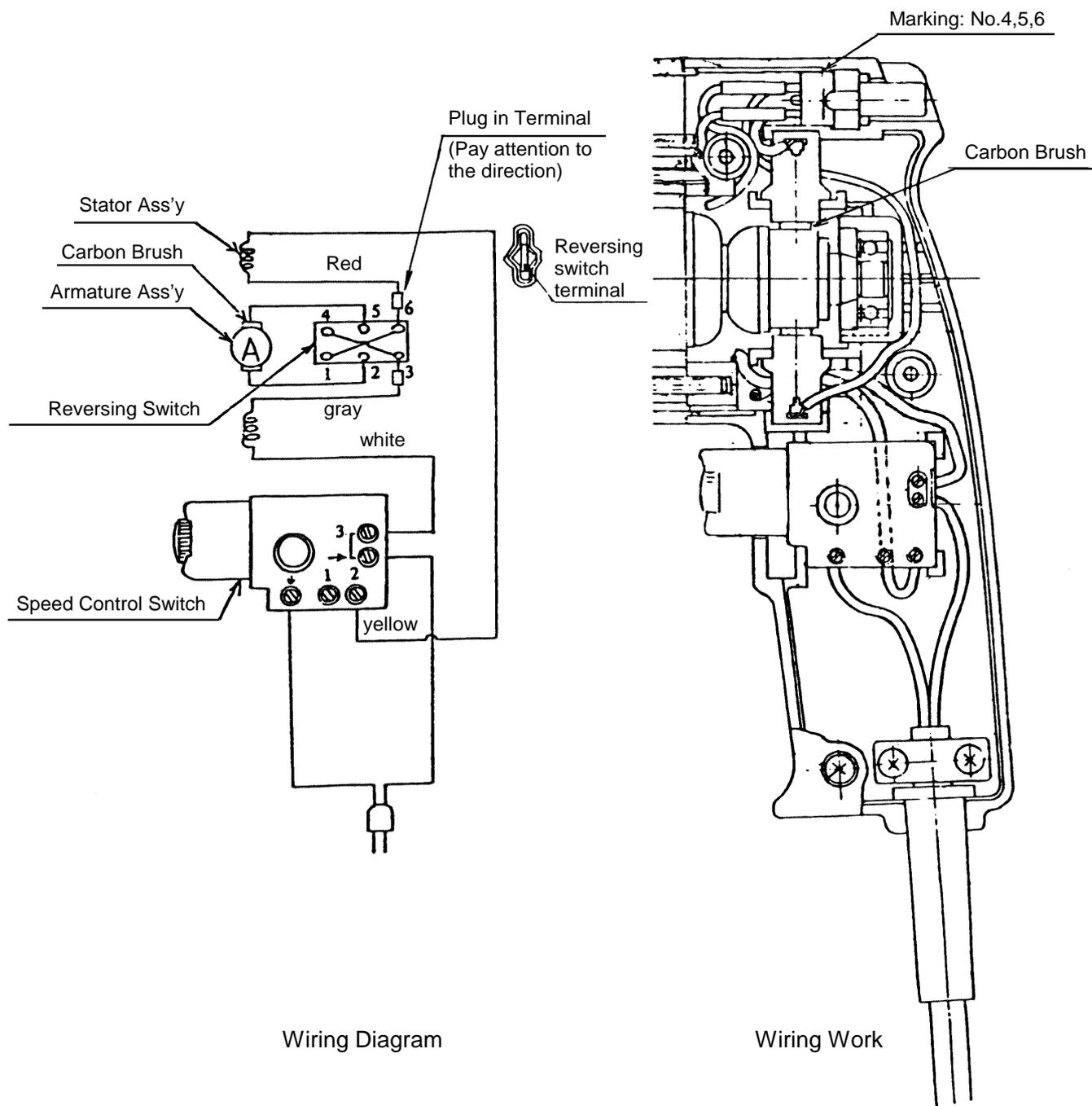


Fig. 6