



# MODEL W 6VB

## 1. ASSEMBLY/DISASSEMBLY GUIDE

The circled numbers in the descriptions below correspond to the part item numbers in the Parts Price List.

### 1-1. Disassembly

(1) Disassembly of parts inside the Handle Cover:

Loosen the three screws (31) retaining the handle Cover (32), and remove the Handle Cover from the Housing (28).

A. Loosen the two screws attaching the cord (53) to the Trigger Switch (36) and remove the Trigger Switch.

Remove the two screws (52) retaining the Cord Clip (54) and remove the Cord (53) together with the Cord Armor.

B. Holding the Carbon Brush (45) down with the tip of a screwdriver, lift out the Brush Holder (46) together with the Carbon Brush.

Loosen the retaining screws on the two Pillar Terminals (47), and take out the Reversing switch Ass'y (50).

(2) Disassembly of parts inside the Gear Cover, Armature Ass'y, and Stator Ass'y:

Remove the screws (3) and (7) retaining the Gear Cover Ass'y (8), and remove the Gear Cover Ass'y together with the Locator Ass'y (2) and the Socket Ass'y (11). At this time, be very careful not to lose the Spring (12) and Steel Ball (13).

As shown in Fig. 6, insert two minus screwdrivers between the inner cover and gear (14) at each side and remove the gear (14), gear shaft (15) and bearing (16) from the inner cover as a single unit.

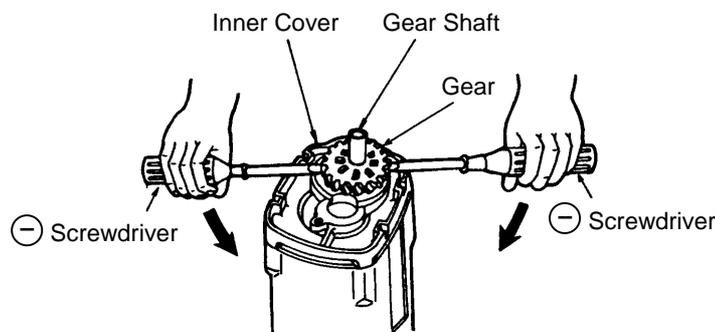


Fig. 6

Insert the tip of the screwdriver between the Inner Cover (19) and the Housing (28), and gently separate them. The Armature Ass'y (22) and the Fan Guide (23) can then be removed.

Loosen the two Screws (24) retaining the Stator Ass'y (26), and lightly tap the end of the Housing (28) with a wooden hammer to remove the Stator Ass'y from the Housing. At this time, be very careful not to lose the two M4 Nuts (48).

**1-2. Assembly**

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

(1) Lubrication:

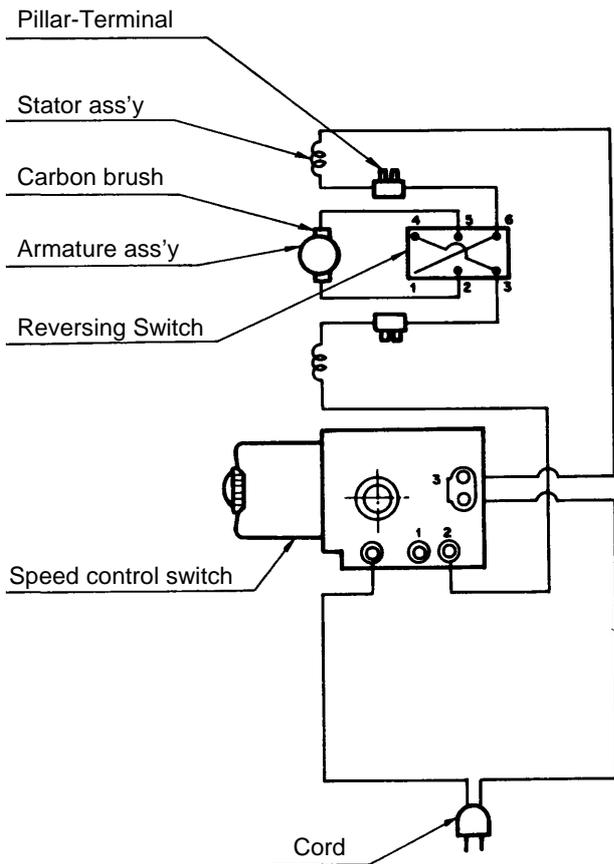
Apply a total of 10g of Molub Alloy #777-1 to the inner and outer surfaces of the Gear Shaft, Receptacle Clutch Clamp, and the inside of the Gear Ass'y.

(2) Tightening Torque:

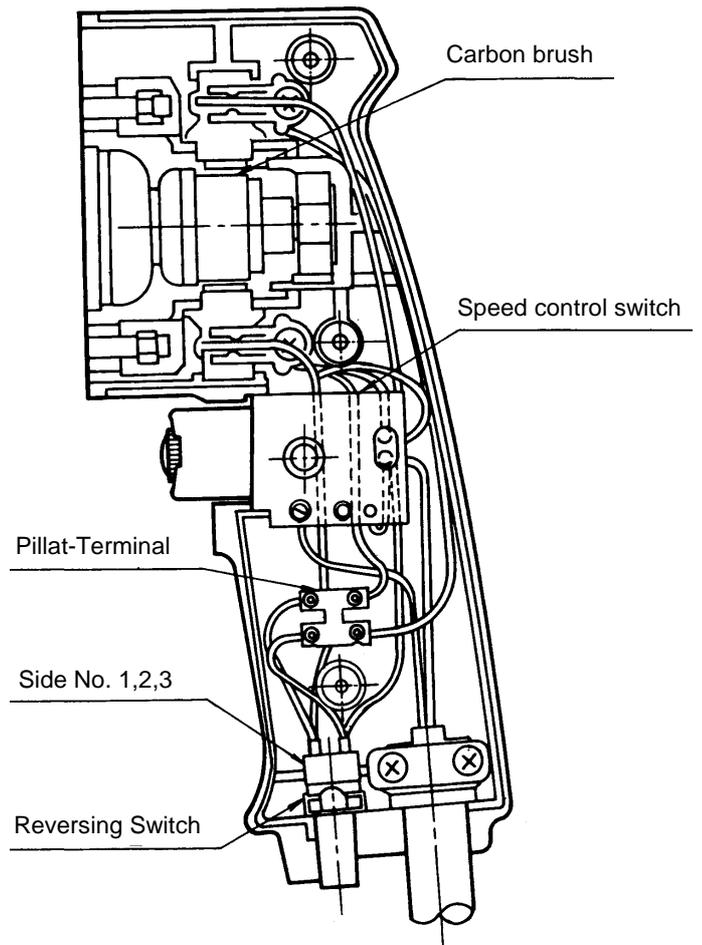
Handle Cover Retaining Screws.....	15 - 25 kg - cm (13.0 - 21.7 lbs.-in)
Gear Cover Retaining Screws .....	20 - 30 kg - cm (17.4 -26.1 lbs.-in)
Stator Retaining Screws .....	14 - 22 kg - cm (12.2 -19.0 lbs.-in)
Pillar Terminal screws.....	2.5 - 4.5 kg - cm (2.2 - 3.9 lbs.-in)
Speed Control Switch Retaining Screws.....	3 - 9 kg - cm (2.6 - 7.8 lbs.-in)

**1-3. Wiring Diagram and Wiring Work**

(1) for America, Canada

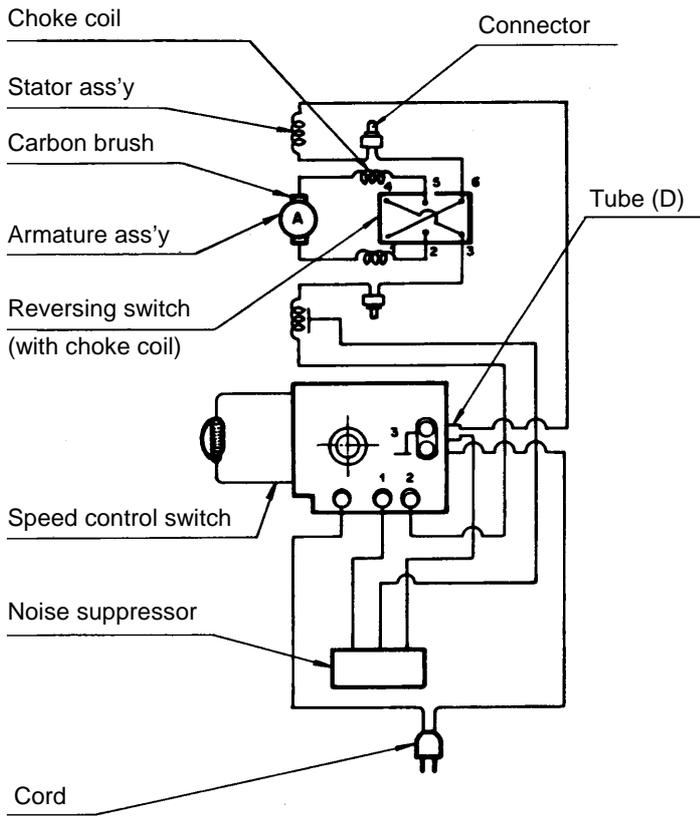


**Wiring Diagram**

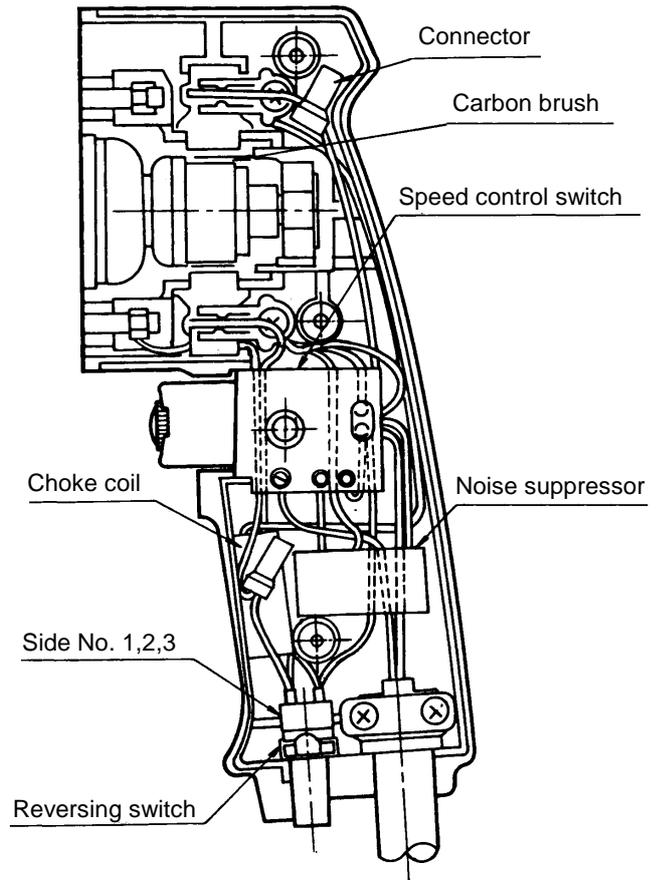


**Wiring in Handle**

(2) for Europe



**Wiring Diagram**



**Wiring in Handle**

**1-4. Checks After Assembly**

On completion of repair (in disassembled state), measure the insulation resistance and conduct dielectric strength test.

**CAUTION**

- Ensure without fail that the insulation resistance measurement and dielectric strength test are conducted between the plugblade and some portion of the external metal frame, such as the gear cover. Never carry out these tests between the two blades of the plug. This could cause burning out of the control element in the switch.

**1-5. No-load current value**

After no-load operation for 30 minutes, the no-load current value should be as specified below at a frequency of 50/60 Hz.

110 V	2.8 A or less	220 V	1.4A or less
115 V	2.7 A or less	230 V	1.3A or less
120 V	2.6 A or less	240 V	1.2A or less
127 V	2.5 A or less		