



# MODEL SB 75

## 1. DUST COLLECTION

### 1-1. Dust Collector

This is a system in which the housing is provided with a dust fan on its side so that air pressure from the dust fan causes grinding dust to be drawn in from the inlet and collected in a dust bag.

### 1-2. To Maintain Dust Collecting Performance

- When moist dust is drawn in, the dust collecting section becomes clogged and impairs dust-collecting performance. Instruct the customer to operate the equipment in a dry location as much as possible.
- A clogged dust bag impairs dust-collecting performance. Instruct the customer to frequently clean the dust bag.
- Overflow of dust in the dust bag impairs dust-collecting performance. Instruct the customer to empty the dust bag when dust has been collected to about 70% of bag capacity.

### 1-3. Others

Should sparks created from sanding smolder in the dust bag after sanding a steel plate etc., there is a risk of burning. Instruct the customer to always remove sanding dust from the dust bag.

## 2. NOTES ON DISASSEMBLY REASSEMBLY

Precautions on operation are given in the instruction manual; the followings are special precautions on disassembly, reassembly, and repair.

Be sure that the plug is disconnected from the power receptacle during disassembly, reassembly, and polishing belt replacement. When tightening a tapping screw, align the holes on both sides.

## **2-1. Disassembly (Encircled numbers in the following description denote item numbers in the Parts Price List.)**

### (1) Removing the armature assembly ⑪

- Remove the belt cover ③⑤ after loosening the belt cover clamping screw (M4 ⊕ tapping screw (1pc.)) ③⑥, and remove the V-belt ③④.
- By loosening the CB cap ⑥⑨, remove the carbon brushes ⑥⑧.
- Loosen the dust cover clamping screw (M4 ⊕ tapping screw (1pc.)) ④① and the M4 ⊕ Hd. machine screws ④⑩ (2pcs.); then, remove the dust cover ③⑨ and dust guide ③⑧.
- Finally, loosen the inner cover clamping screws (M5 ⊕ tapping screws (4pcs.)) ①⑥; then, remove the armature ⑪ together with the innercover ①⑤ while lightly tapping the armature with a wooden mallet from the pulley (A) ③② side.

### (2) Removing the stator ⑤

- After removing the armature, detach the handle cover ⑥③ by loosening the handle cover clamping screws (M4 ⊕ tapping screws (3pcs.)) ④①).
- Disconnect the stator lead wires from the terminal on the trigger switch ⑤④ and the connector ⑥⑩.
- After removing the stator's CB terminal suspended on the CB tube, remove the lead wire ⑨ and the fan guides (C) ①⑨ (2pcs.) by loosening the M5 + Hd. machine screw ⑦ (2pcs.); then, remove the stator ⑤.

### (3) Removing the belt tightener assembly ④④ and idle pulley ④⑤

- After removing the polishing belt, return the lever to its original position and loosen the M4 ⊕ Hd. FT-screws ③⑩ (2pcs.); then, pull out the belt tightener assembly ④④ toward the operator.
- By removing the D10 C-Type retaining ring ④⑧ and the shaft (B) ④⑦, the idle pulley ④⑤ can be removed.

### (4) Removing the pulley (A) ③② and pulley (B) ③③

- To remove the pulley (A) ③②, first remove the armature and then turn the pulley (A) clockwise with a wrench.
- To remove the pulley (B) ③③, clamp the drive pulley ②② and then turn the pulley (B) counterclockwise with a wrench.

(5) Removing the gear (24), pinion (27), and drive pulley assembly (22)

- After removing the belt cover and the V-belt, loosen the gear cover clamping screws (M4 (+) Hd. FT-screws (3pcs.)) (30); then, remove the gear cover (29) together with the pinion (27) and pulley (B) (33).
- Remove the D10 C-Type retaining ring (26) and then remove the gear (24).
- Remove the 3 x 3 x 8 key (25) and the washer (B) (23); then, remove the drive pulley assembly (22).
- To remove the pinion (27), first remove the pulley (B) (33); then remove the gear cover (29).

(6) Removing the housing (1)

- Remove the sanding belt, belt tightener assembly (44), belt cover (35), and V-belt (34)
- Loosen the M4 (+) Hd. FT-screws (43) (2pcs.); then remove the plate (67) and shoe cushion (66).
- Loosen the M4 (+) tapping screw (36) (4pcs.) by inserting a long plus (+) driver through the hole on the bottom of the body (20); then remove the housing (1).

## 2-2. Reassembling

Perform reassembling by following disassembling procedures in reverse order. The gear cover should be filled with Hitachi Motor Grease No. 29 and the felt on the body and the idle pulley should be impregnated with Turbine Oil No. 90 as lubricant. Exercise utmost care in keeping the housing and the handle cover free from Turbine Oil No. 90 while reassembling.

**2-3. After disassembly and repair, measure the, insulation resistance and conduct a dielectric strength test.**