



MODELS

C 7BD/C 7SB

1. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY:

The circled numbers in the descriptions below correspond to the item numbers in the Parts List for the Model C 7SB, while those in parentheses are for the Model C 7BD. During disassembly and reassembly, and at all other times as well, sufficient care must be exercised in handling to ensure that there is no deviation in the flatness of the bottom surface of the base and in its perpendicularity with relation to the saw blade.

1-1. Disassembly:

- (1) Prior to attempting further disassembly, ensure without fail that the Saw Blade ⑭ (⑭) is removed to prevent damage to its cutting edge, and to avoid possible serious accident.
- (2) Remove the Safety Cover ⑦ (⑦):
First, disconnect the Return Spring ⑧ (⑧). Then, loosen the two M4 x 10 Seal Lock Flat Hd. Screws ⑫ (⑫), and take off the Bearing Cover ⑪ (⑪). The Safety Cover ⑦ (⑦) can then be removed.
- (3) Remove the Bearing Holder ③ (③) together with the Spindle Gear ② (②):
After removing the Safety Cover ⑦ (⑦) as described above, loosen the two M5 x 14 Seal Lock Flat Hd. Screws ④ (④), and take off the Bearing Holder ③ (③) together with the Spindle Gear ② (②).

- (4) Separate the Spindle Gear ② (②) from the Bearing Holder ③ (③) :

As illustrated in Fig. 1, support the Bearing Holder ③ (③) with an appropriate tubular jig, and push down on the end of the Spindle Gear ② (②) with a hand press to separate the Spindle Gear ② (②) from the Bearing Holder ③ (③).

- (5) Remove the Armature Ass'y ②⑥ (②⑥) :

First, remove the Carbon Brushes ③⑦ (③⑦) . Next, take off the Clamp Lever ⑤⑨ (⑤⑨), loosen the Clamp Nut ⑥① (⑥①), and remove the M6 x 20 Bolt ④⑥ (④⑥).

Then, loosen the M5 x 45 Machine Screws ①⑦ (①⑦), and separate the Housing Ass'y ①⑧ (①⑧) from the Gear Cover ③① (③①). The Armature Ass'y ②⑥ (②⑥) will remain within the Housing Ass'y ①⑧ (①⑧). With a wooden or plastic hammer, tap gently on the outside of the Housing Ass'y ①⑧ (①⑧) to loosen and remove the Armature Ass'y ②⑥ (②⑥). At this time, be very careful not to hit the fan on the Armature Ass'y ②⑥ (②⑥).

- (6) Remove the Base Ass'y ⑤④ (⑤③):

Extract the D6 x 40 Roll Pin ⑤⑤ (⑤④) which connects the Base Ass'y ⑤④ (⑤③) and the Housing Ass'y ①⑧ (①⑧), and separate them.

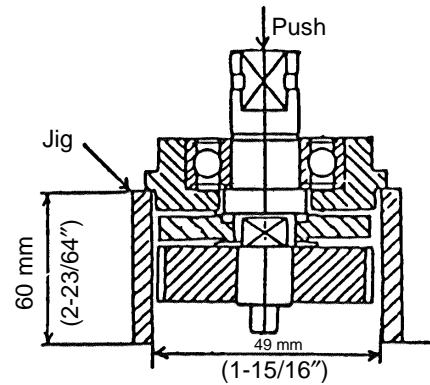


Fig. 1

1-2. Reassembly:

Reassembly can be accomplished by following the disassembly procedures in reverse. However, particular attention should be given to the following items.

- (1) Tightening Torque for Fastening Screws:

- M4 Machine Screws..... 14 - 24 kg. cm (12 - 21 in-lbs)
- M5 Machine Screws..... 28 - 50 kg. cm (24 - 43 in-lbs)
- M8 x 15.5 Flange Bolt ①⑥ (①⑥) ... 80 - 120 kg. cm (70 - 105 in-lbs)
- D4 Tapping Screws 15 - 25 kg. cm (13 - 22 in-lbs)
- D5 Tapping Screws 25 - 35 kg. cm (22 - 30 in-lbs)

- (2) Reassembly of the Armature Ass'y ②⑥ (②⑥):

Prior to assembling the Armature Ass'y ②⑥ (②⑥), ensure that the Rubber Ring ③① (③①) is properly inserted into the groove of the Bearing Case within the Gear Cover ③① (③①). At this time, be careful not to damage the Rubber Ring ③① (③①).

- (3) Reassembly of the Lock Lever ②⑦ (②⑦): (See Fig. 2)

- Position the Lock Lever ②⑦ (②⑦) between the Fan and the 6201VVCMP52S Ball Bearing ②⑨ (②⑨), and carefully assemble it together with the Armature Ass'y ②⑥ (②⑥) into the Gear Cover ③① (③①).
- Carefully ensure that both ends of the Flat Spring on the Lock Lever ②⑦ (②⑦) are properly supported inside the ribs of the Gear Cover ③① (③①), as illustrated in Fig. 2.
- When assembly of the Lock Lever ②⑦ (②⑦) is completed (when the Gear Cover ③① (③①) has been assembled to the Housing Ass'y ①⑧ (①⑧) and fastened with the M5 x 45 Machine Screws (w/washers) ①⑦ (①⑦)), push the Lock

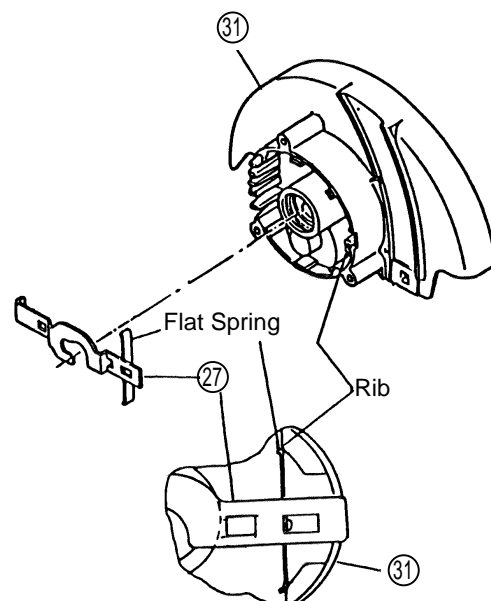


Fig. 2

Lever (27) (27) by hand and ensure that it returns smoothly to its original position when released.

(4) Lubrication:

Liberal apply designated lubricants as follows:

- Nippeco SEP-3A (Code No. 930035) within the Gear Cover: 15 gr. (.528 oz)
- Multemp PS No. 2 (Code Nos. 939301 or 939536) in the Ball Bearings.

(5) Wiring Diagrams (See Figs. 3 - 5):

A. Model C 7SB:

a. For New Zealand:

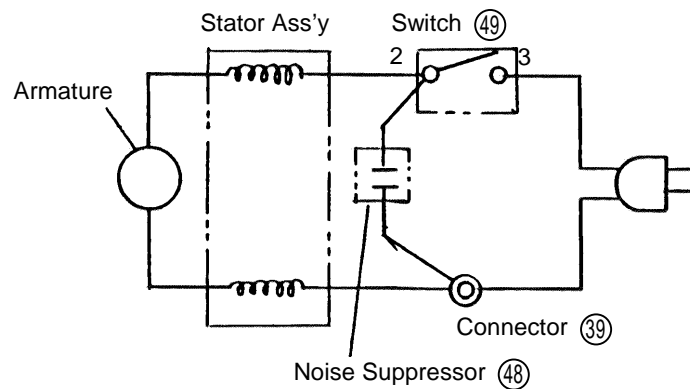


Fig. 3

b. For other countries:

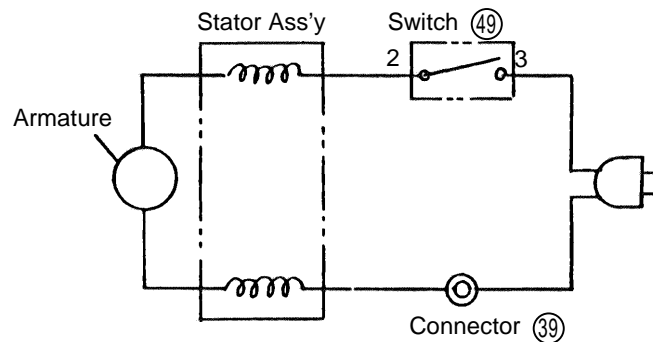


Fig. 4

B. Model C 7BD (for the U. S. A. and Canada Only) :

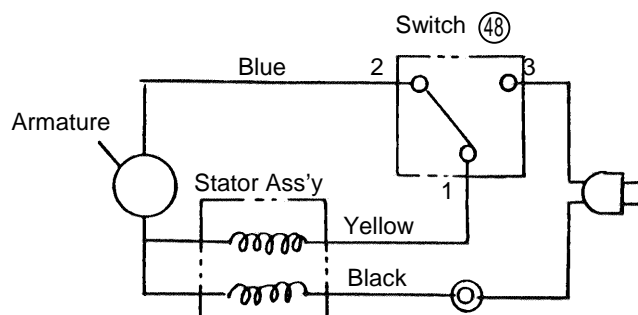


Fig. 5

(6) Internal Wire Arrangement (See Figs. 6 and 7):

Connect internal wires as illustrated in Figs. 6 and 7.

At this time, ensure that none of the wires are pinched between components during reassembly.

A. Model C 7SB:

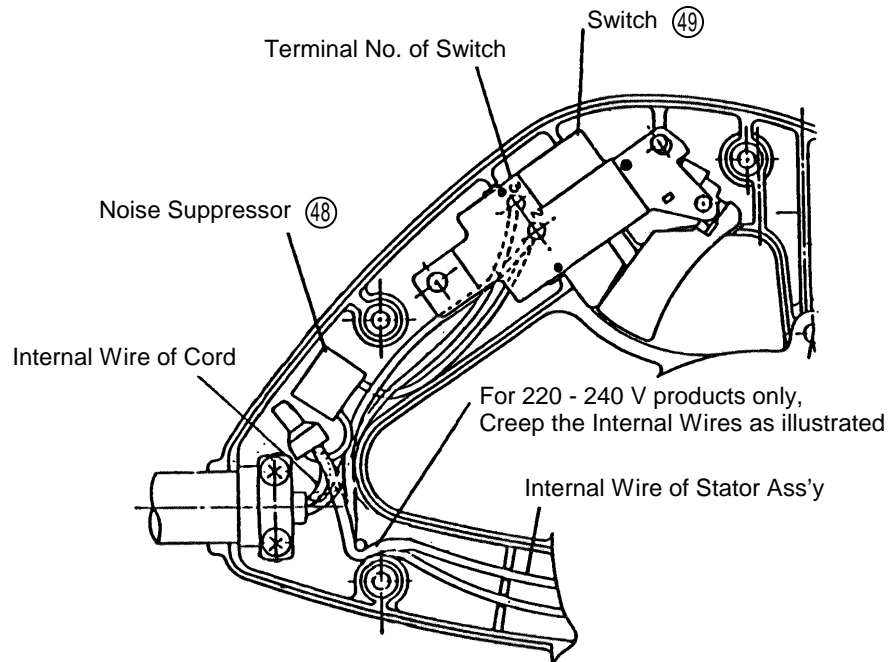


Fig. 6

(NOTE) The internal wire arrangement for models without a Noise Suppressor (48) is the same as that in Fig. 6 with the exception of the noise suppressor.

B. Model C 7BD:

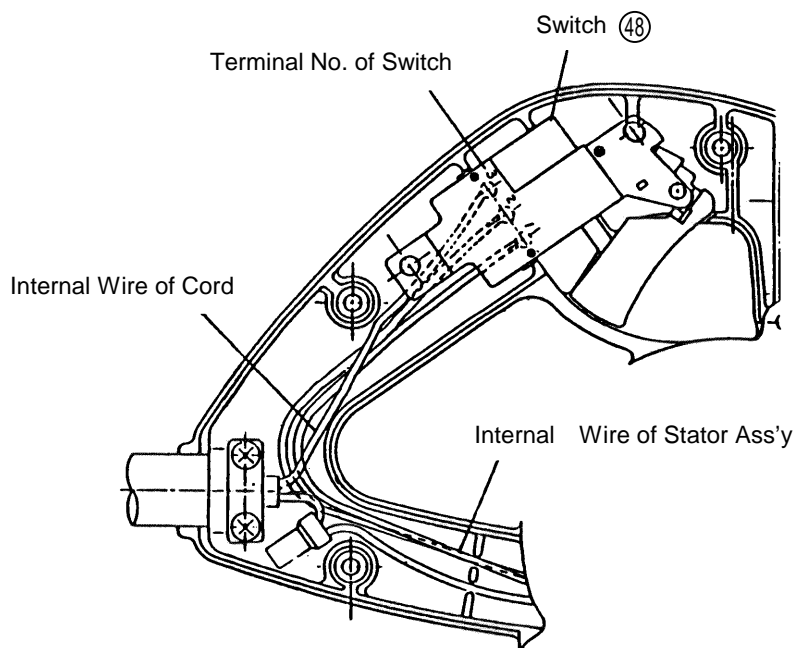


Fig. 7

(7) Insulation Tests:

On completion of disassembly and repair, measure the insulation resistance and conduct dielectric strength test.

Insulation Resistance: 7M Ω or more with DC 500 V Megohm Tester

Dielectric Strength: AC 4,000 V/1 minute,
with no abnormalities220 V - 240 V
(and 110 V for U. K. products)
AC 2,500 V/1 minute,
with no abnormalities100 V - 127 V
(except U. K. products)

(8) Cleaning the Cover:

Clean the exterior of the tool with a soft cloth moistened with soapy water, and dry thoroughly.

Chloric solvent, gasoline, and thinner will cause plastic components to dissolve.