



## MODELS

## C 6U/C 7U

### 1. PRECAUTIONS IN SALES PROMOTION:

In the interest of promoting the safest and most efficient use of the Models C 6U and C 7U Circular Saws by all of our customers, it is very important that at the time of sale the salesman carefully ensures that the buyer seriously recognizes the importance of the contents of the Handling Instructions, and fully understands the meaning of the precautions on the Nameplate attached to each tool.

#### 1-1. Handling Instructions:

Although every effort is made in each step of design, manufacture, and inspection to provide protection against safety hazards, the dangers inherent in the use of any electric tool cannot be completely eliminated. Accordingly, general precautions and suggestions for the use of electric power tools, and specific precautions and suggestions for the use of the Circular Saw are listed in the Handling Instructions to enhance the safe, efficient use of the tool by the customer. Salesmen must be thoroughly familiar with the contents of the Handling Instructions to be able to offer appropriate guidance to the customer during sales promotion.

#### 1-2. Cautions on Nameplate:

Each tool is provided with a Nameplate which lists the following basic safety precautions in the use of the tool.

(1) For F.R. Germany, Switzerland and Austria.

##### **ACHTUNG**

- **Bedienungsanleitung vor Inbetriebnahme lesen.**

(2) For France

##### **ATTENTION**

- **TRES IMPORTANT: Lire avec attention la notice d' utilisation.**

(3) For Other Countries:

##### **CAUTION**

- **Read thoroughly HANDLING INSTRUCTIONS before use.**

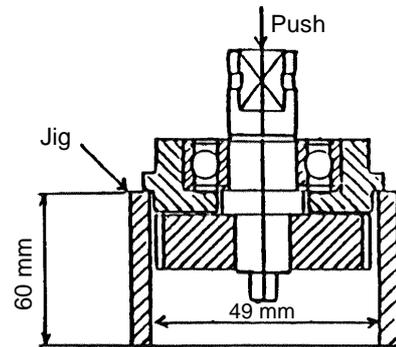
### 2. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY:

The disassembly and reassembly procedures for the Models C 6U and C 7U are essentially the same. The circled numbers in the descriptions below correspond to the item numbers in the parts list and exploded assembly diagram for the Model C 6U. 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.

#### 2-1. Disassembly:

- (1) Prior to attempting further disassembly, ensure without fail that the TCT Saw Blade ⑬ is removed to prevent damage to its cutting edge, and to avoid possible serious accident.
- (2) Remove the Safety Cover ⑨:  
First, disconnect the Return Spring ⑧ from the Safety Cover ⑨ Then, loosen the two M4 x 10 Seal Lock Flat Hd. Screws ⑪ and take off the Bearing Cover ⑩. The Safety Cover ⑨ can then be removed.

- (3) Remove the Bearing Holder (5) together with the Spindle Gear (4):  
After removing the Safety Cover (9) as described above, loosen the two M5 x 14 Seal Lock Flat Hd. Screws (21).
- (4) Separate the Spindle Gear (4) from the Bearing Holder (5):  
As illustrated in Fig. 11, support the Bearing Holder (5) with an appropriate tubular jig, and push down on the end of the Spindle to separate the Spindle Gear (4) from the Bearing Holder (5).
- (5) Remove the Armature (35):  
First, remove the Brush Caps (42), and take out the Carbon Brushes (41). Then, loosen the M5 x 35 Machine Screws (24), and separate the Housing Ass'y (27) from the Gear Cover Ass'y (3). The Armature (35) will remain attached to the Housing Ass'y (27). Then, tap gently on the outside of the Housing Ass'y (27) with a wooden or plastic hammer to loosen and remove the Armature (35). At this time, be very careful not to hit the fan on the Armature (35).
- (6) Remove the Base Ass'y (55):  
Extract the D6 x 40 Roll Pin (53), and disassemble the Base Ass'y (55) from the Gear Cover Ass'y (3).

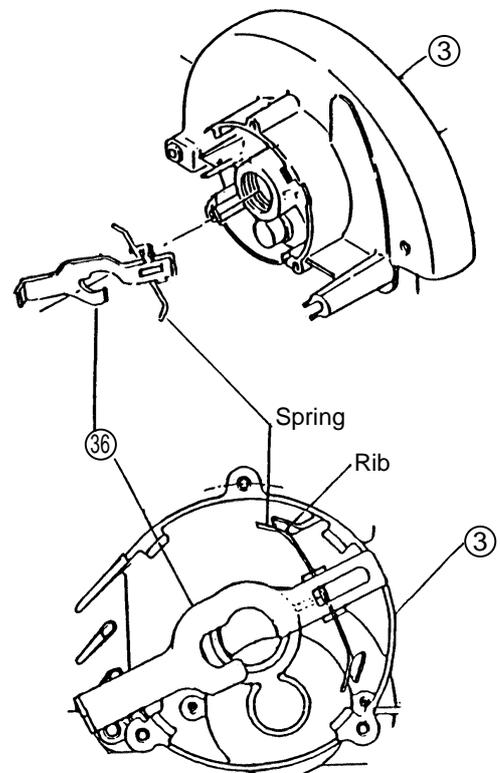


**Fig. 11**

**2-2. Reassembly:**

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

- (1) Tightening Torques for Fastening Screws and Bolts:
  - M4 Machine Screws..... 14 - 24 kgf-cm (12 - 21 in-lbs)
  - M5 Machine Screws..... 28 - 50 kgf-cm (24 - 43 in-lbs)
  - M8 x 15.5 Flange Bolt (15) 80 - 120 kgf-cm (70 - 105 in-lbs)
  - D4 Tapping Screws ..... 15 - 25kgf-cm (13 - 22 in-lbs)
  - D5 Tapping Screws ..... 25 - 35kgf-cm (22 - 30 in-lbs)
- (2) Reassemble the Armature Ass'y (35):  
Prior to assembling the Armature (35), ensure that the Rubber Ring (38) is properly inserted into the groove of the Bearing Case within the Gear Cover Ass'y (3). At this time, be very careful not to damage the Rubber Ring.
- (3) Reassemble the Lock Lever (36) (See Fig. 12):
  - A. Position the Lock Lever (36) between the Fan and the 6001VVCMP2L Ball Bearing (37) of the Armature (35), and carefully assemble it together with the Armature (35) into the Gear Cover Ass'y (3).
  - B. Ensure that both ends of the Spring on the Lock Lever (36) are properly supported inside the ribs of the Gear Cover Ass'y (3).
  - C. When assembly of the Lock Lever (36) is completed (when the Gear Cover Ass'y (3) has been assembled to the Housing Ass'y (27) and fastening with the



**Fig. 12**

M6 x 35 Machine Screws (24), push the Lock Lever (36) by hand and ensure that it returns to its original position when released.

(4) Reassemble the Stator (32):

As illustrated in Fig. 13, insert a guide bar (the J-132 Stator Press Pins [Special Repair Tool, Code No. 970911] are recommended) to ensure that the screw holes of the Stator (32) and Housing Ass'y (27) are properly aligned, and press fit the Stator (32) into the Housing Ass'y (27). When press fitting of the Stator (32) is completed, connection between the Stator (32) and the Brush Holders (27) is automatically accomplished.

(5) Lubrication:

Liberaly apply the designated lubricants as follows:

- Within the Gear Cover Ass'y (3) ..... Hitachi Motor Grease, Code No. 930035
- Ball Bearings' Chamber ..... Hitachi Power Tool Grease No. 1, Code Nos. 939301 or 939356

(6) Wiring Diagrams (See Fig. 14 - 17)

[A] Without Noise Suppressor:

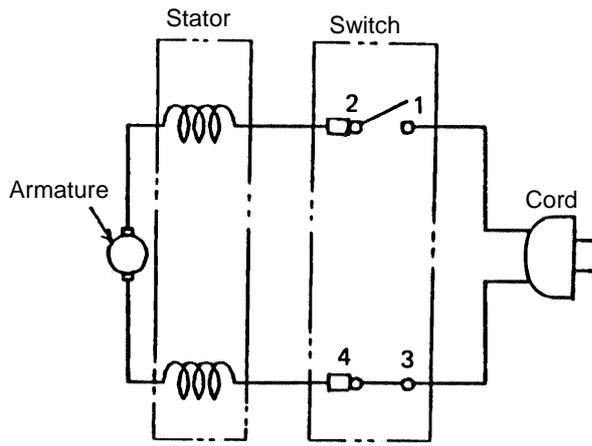


Fig. 14

[B] With Noise Suppressor:

(a) For France and Sweden

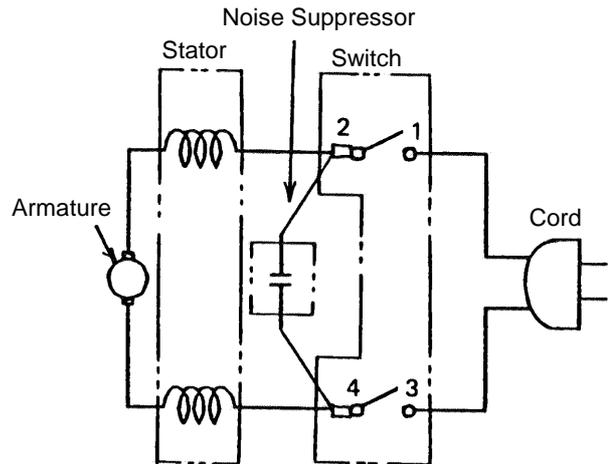


Fig. 15

(b) For Switzerland

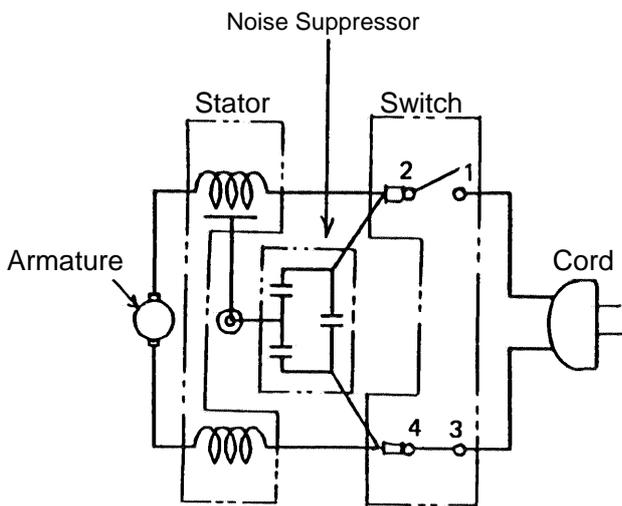


Fig. 16

(c) For other countries

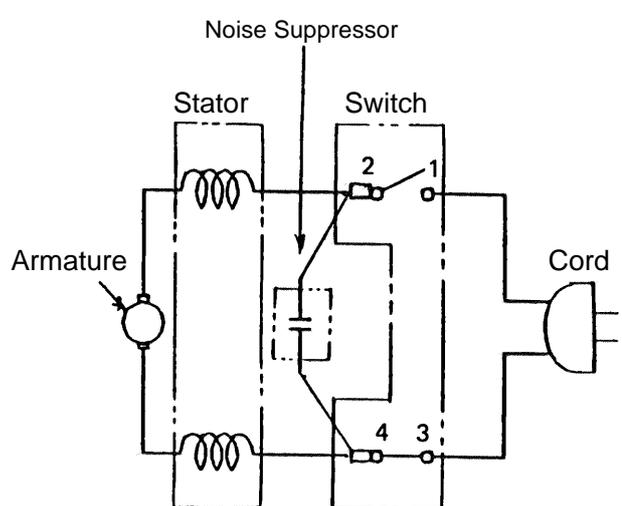


Fig. 17

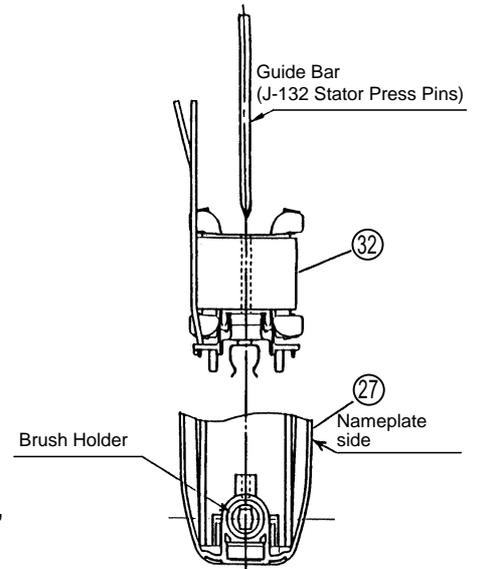
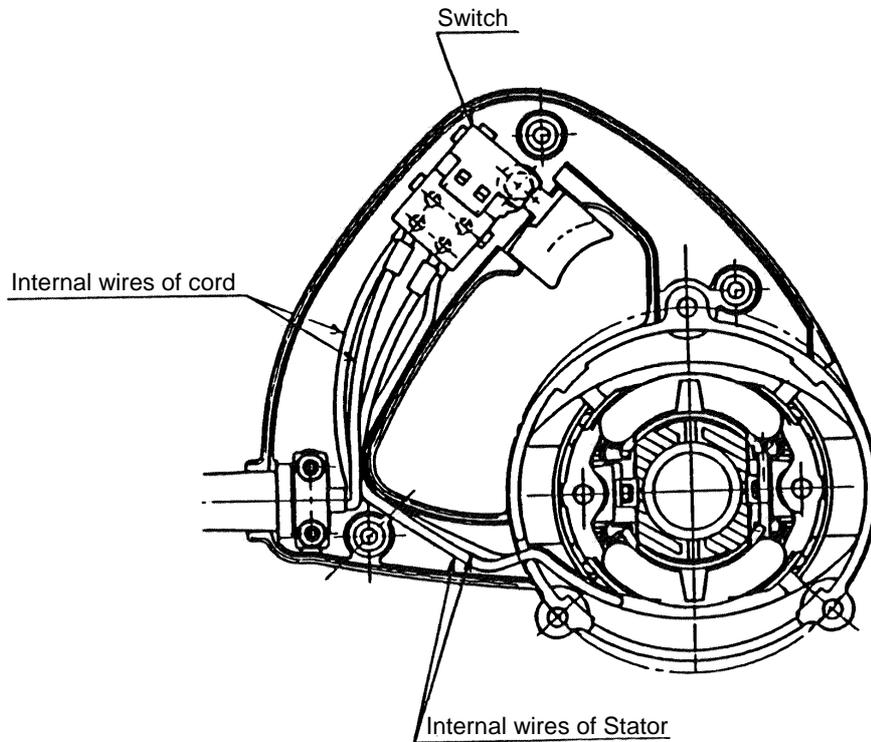


Fig. 13

(7) Internal wire arrangement (See Fig. 18 - 20)

Connect internal wires as illustrated in Fig. 18 - Fig. 20. At this time, ensure that none of the wires are pinched between components during assembly.

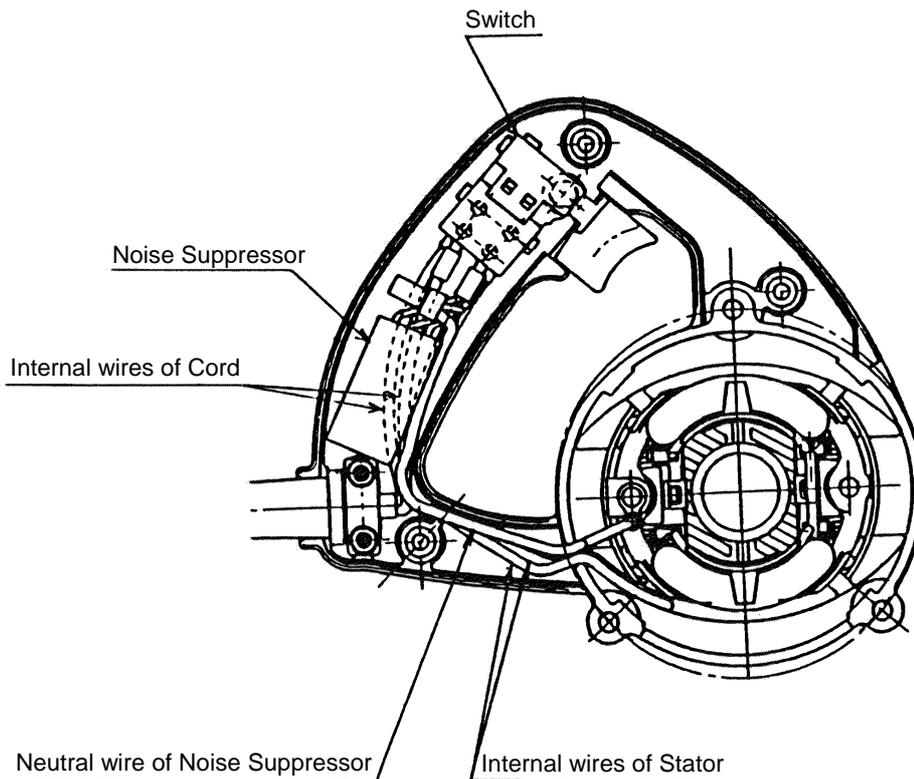
[A] Without Noise Suppressor:



**Fig. 18**

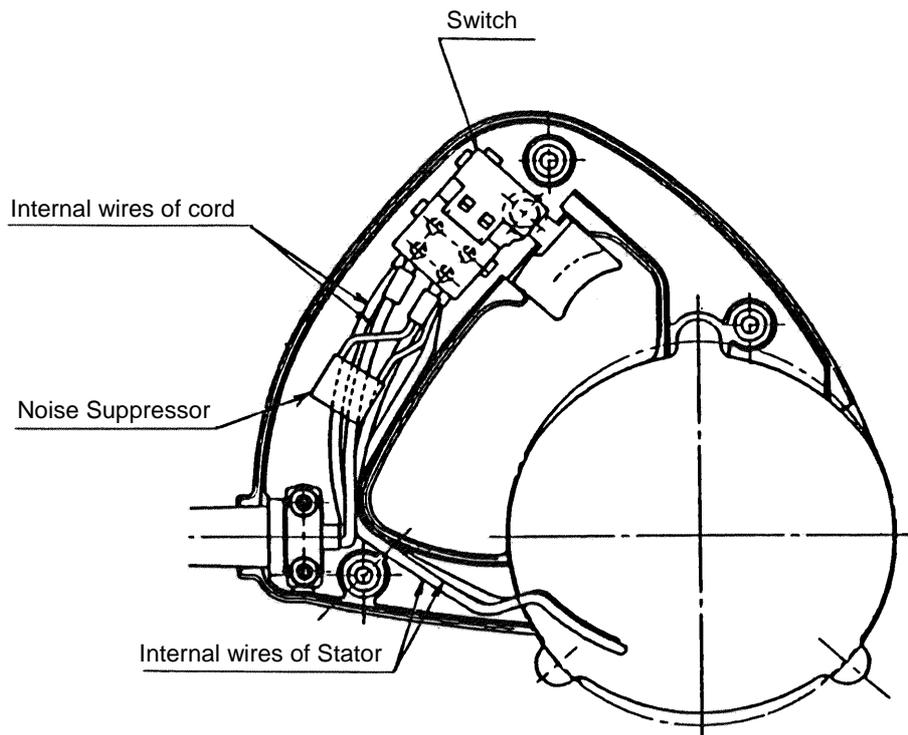
[B] With Noise Suppressor

(a) For Switzerland:



**Fig. 19**

(b) For other countries:



**Fig. 20**

**(8) Insulation Tests:**

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

Insulation Resistance:  $7M\Omega$  or more with DC 500 V Megohm Tester

Dielectric Strength: AC 4000 V/1 minute,  
with no abnormalities ....220 V - 240 V (and 110 V for U. K. products)  
AC 2500 V/1 minute,  
with no abnormalities ....110 V - 127 V (except U. K. products)

**(9) 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.