



## MODELS

## C 6BU/C 7BU

### 1. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY

The disassembly and reassembly procedures for the Models C 6BU and C 7BU are essentially the same. The **[Bold]** numbers in descriptions below correspond to the item numbers in the parts list and exploded assembly diagram for the Model C 7BU and C 6BU. However, when the item numbers are different between the Models C 7BU and C 6BU, the **[Bold]** numbers correspond to the item numbers for C 7BU and **(Bold)** numbers to those for C 6BU. 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

Be sure to remove the TCT Saw Blade **[14]** to prevent damage to the cutting edge or injuries by the saw blade before disassembly.

##### (1) Disassembly of the Safety Cover **[10]**

Remove the Return Spring **[9]** from the Safety Cover **[10]**. Then remove the two M4 x 10 Seal Lock Flat Hd. Screws **[12]**, the Bearing Cover **[11]**, and the Safety Cover **[10]**.

##### (2) Disassembly of the Bearing Holder **[6]**

Remove the Safety Cover **[10]** and then remove the two M5 x 14 Seal Lock Flat Hd. Screws **[21]** **(23)**.

Remove the Bearing Holder **[6]** together with the Spindle Gear **[5]**.

##### (3) Disassembly of the Spindle Gear **[5]**

Hold the Bearing Holder **[6]** in a cylindrical jig with an inside diameter of 49 mm, and remove the Spindle Gear **[5]** from the Bearing Holder **[6]** by pushing the end of the spindle.

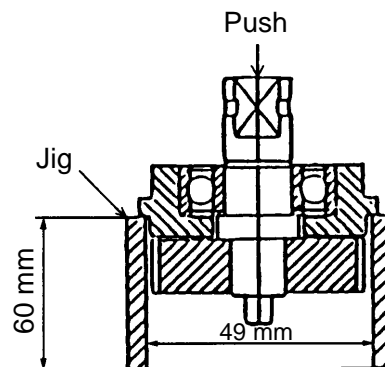


Fig. 6

##### (4) Disassembly of the Armature **[37]** **(40)**

Loosen the Brush Cap **[44]** **(47)** and take out the Carbon Brush **[43]** **(46)**. Remove the three M5 x 45 Machine Screws **[25]** **(27)** and separate the Housing Ass'y **[28]** **(30)** from the Gear Cover Ass'y **[3]**. The Armature **[37]** **(40)** remains in the Housing Ass'y in most cases. Tap the Housing Ass'y around lightly with a wooden or plastic hammer to remove the Armature. When tapping, be careful not to tap the fan of the Armature.

##### (5) Disassembly of the Base Ass'y **[67]** **(65)**

Remove the D6 x 40 Roll Pin **[58]** **(60)** and separate the Gear Cover Ass'y **[3]** from the Base Ass'y **[67]** **(65)**.

## 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 and bolts

● M4 Machine Screw	$1.8 \pm 0.4 \text{ N}\cdot\text{m}$ ( $18 \pm 4 \text{ kgf}\cdot\text{cm}$ )
● M5 Machine Screws	$3.4 \pm 0.7 \text{ N}\cdot\text{m}$ ( $35 \pm 7 \text{ kgf}\cdot\text{cm}$ )
● M8 x 15.5 Bolt [16]	$9.8 \pm 2.0 \text{ N}\cdot\text{m}$ ( $100 \pm 20 \text{ kgf}\cdot\text{cm}$ )
● D4 Tapping screws	$2.0 \pm 0.5 \text{ N}\cdot\text{m}$ ( $20 \pm 5 \text{ kgf}\cdot\text{cm}$ )
● D5 Tapping screws	$2.9 \pm 0.5 \text{ N}\cdot\text{m}$ ( $30 \pm 5 \text{ kgf}\cdot\text{cm}$ )
● Brush Caps	$0.98 \pm 0.5 \text{ N}\cdot\text{m}$ ( $10 \pm 5 \text{ kgf}\cdot\text{cm}$ )
● M4 x 10 Seal Lock Flat Hd. Screw	$1.8 \pm 0.4 \text{ N}\cdot\text{m}$ ( $18 \pm 4 \text{ kgf}\cdot\text{cm}$ )
● M5 x 14 Seal Lock Flat Hd. Screw	$3.4 \pm 0.7 \text{ N}\cdot\text{m}$ ( $35 \pm 7 \text{ kgf}\cdot\text{cm}$ )

### (2) Reassembly of the Armature [37] (40)

Prior to assembling the Armature [37] (40), ensure that the Rubber Ring [40] (43) 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) Reassembly of the Lock Lever [38] (41) (See Fig. 7)

- Position the Lock Lever [38] (41) between the fan and the 6001VVCMP52L Ball Bearing [39] (42) of the Armature [37] (40), and carefully assemble it together with the Armature [37] (40) into the Gear Cover Ass'y [3].
- Ensure that both ends of the Spring on the Lock Lever [38] (41) are properly supported inside the ribs of the Gear Cover Ass'y [3].
- After assembly of the Lock Lever [38] (41) has been completed (when the Gear Cover Ass'y [3] is assembled to the Housing Ass'y [28] (30) and fastened with the M5 x 45 Machine Screws [25] (27)), push the Lock Lever by hand and ensure that it returns to its original position when released.

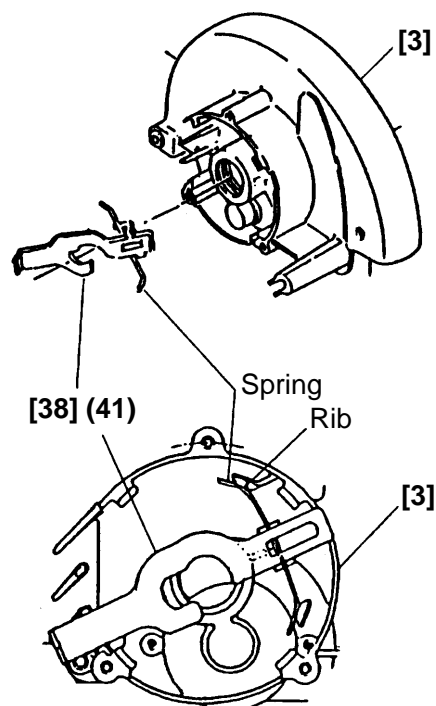


Fig. 7

(4) Reassembly of the Stator Ass'y [34] (37)

Insert the guide bar [the J-132 stator press pins (special repair tool, Code No. 970911) are recommended] into the screw holes of the Stator Ass'y [34] (37) and the Housing Ass'y [28] (30) to align them accurately and then press-fit the Stator Ass'y into the Housing Ass'y as shown in Fig. 8. Carefully observe the alignment of the Stator Ass'y during the press-fitting so that the yellow and red leadwires face to the Name Plate side as shown in Fig. 9. Then fit the carbon brush terminals on the Brush Holders [42] (45) taking care not to catch the leadwires between the ribs of the Stator Ass'y in the Housing Ass'y. Fix the Stator Ass'y to the Housing Ass'y with the two D5 x 55 Hex. Hd. Tapping Screws [53] (55).

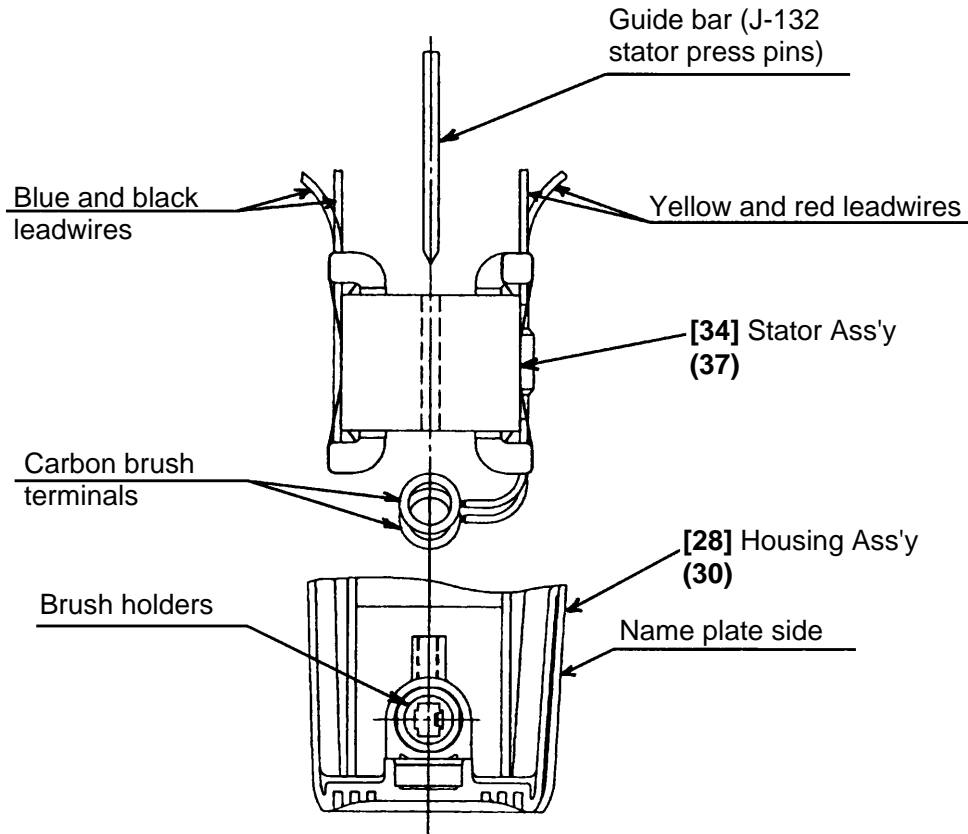


Fig. 8

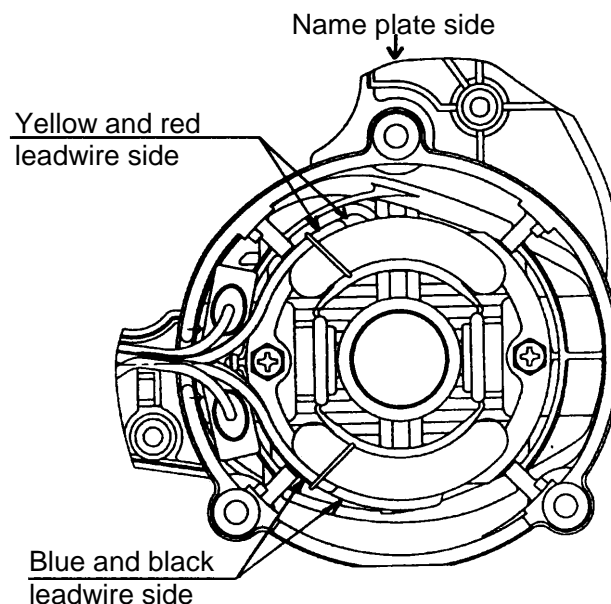
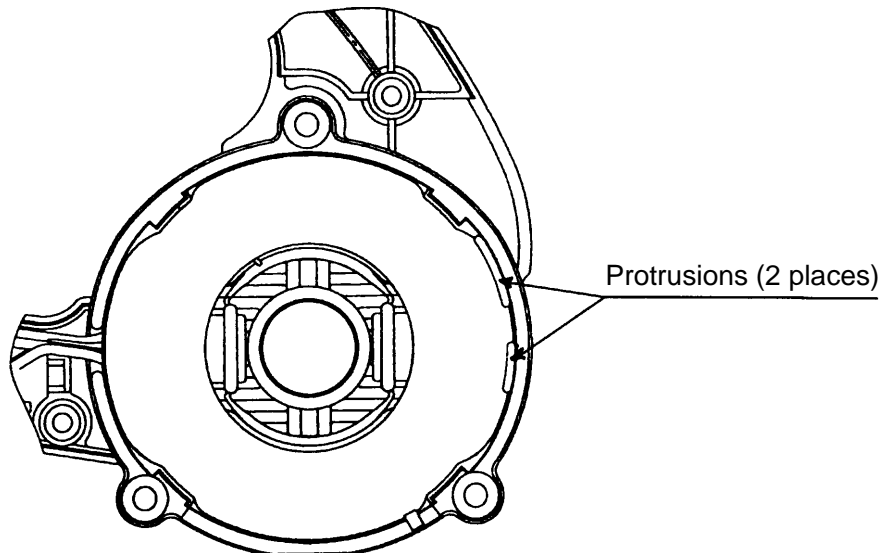


Fig. 9

(5) Reassembly of the Fan Guide **[35]** **(38)**

The orientation for assembling the Fan Guide **(38)** of the Model C 6BU is specified, but orientation of the Fan Guide **[35]** of the Model C 7BU is not specified. Mount the Fan Guide **(38)** so that its protrusions are positioned opposite to the handle of the housing Ass'y **(30)** as shown in Fig. 10.

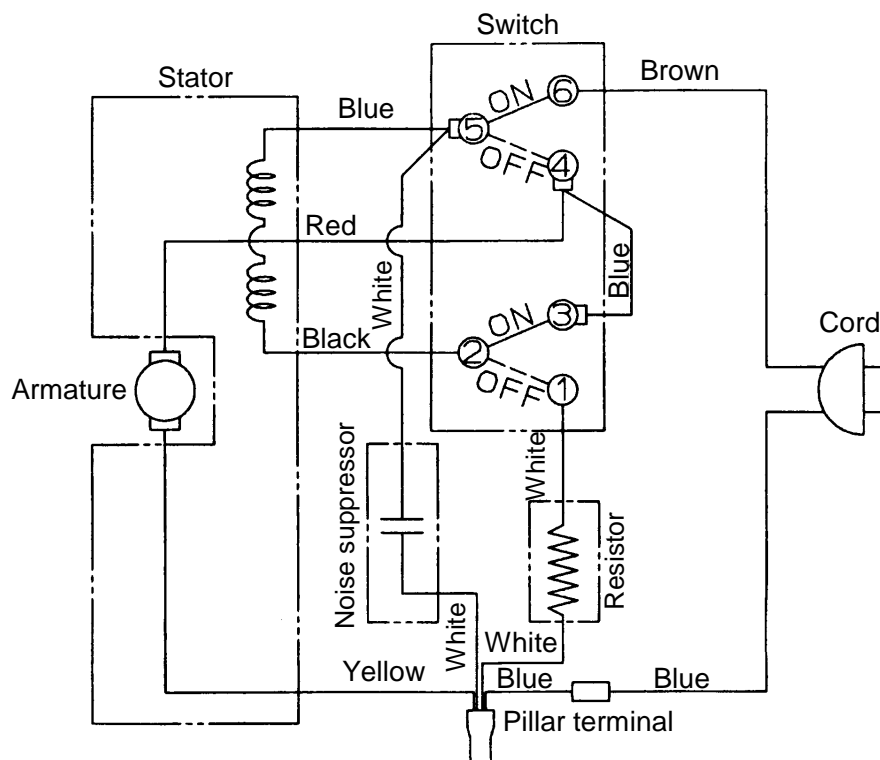


**Fig. 10**

(6) Internal wiring

The Models C 6BU and C 7BU require more complicated wiring compared with conventional models because they are equipped with an electric brake. Be sure to make the wiring connections as shown in Fig. 11 and the other wiring diagrams with due care not to pinch the leadwires in the Handle Cover **[54]** **(56)**.

A. Wiring Diagram



**Fig. 11**

B. Connection for the Switch (B) [29] (31)

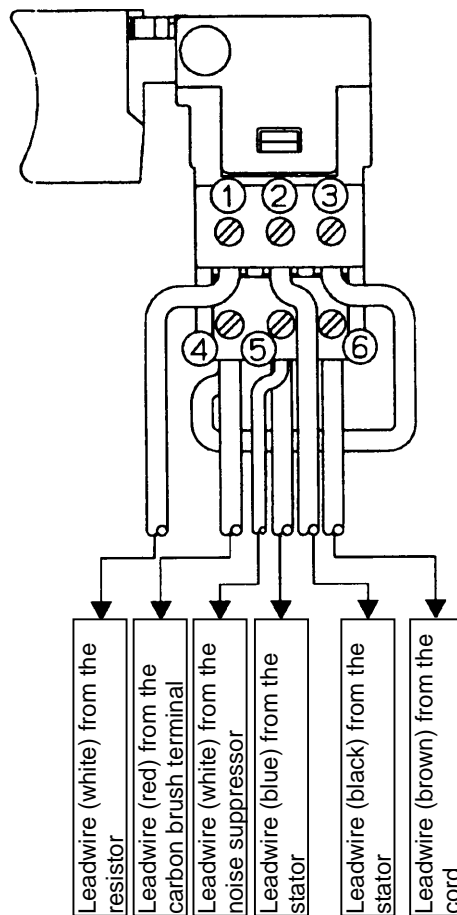


Fig. 12

C. Connection and Place for the Resistor [31] (34)

Connect the short leadwires of the Resistor [31] (34) to the other leadwires with the connector and connect the long leadwire to the Switch (B) [29] (31) as shown in Figs. 11 and 12. Place the Resistor between the Stator Ass'y [34] (37) and the Housing Ass'y [28] (30) bending its intermediate leadwire so that the leadwire faces to the Gear Cover Ass'y [3] side as shown in Fig. 14. Be careful that the insulation tube of the Resistor does not protrude from the fitting surface of the Fan Guide [35] (38).

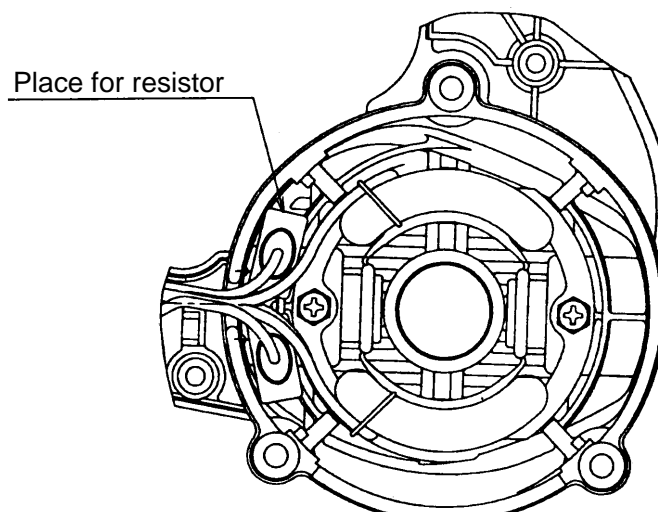
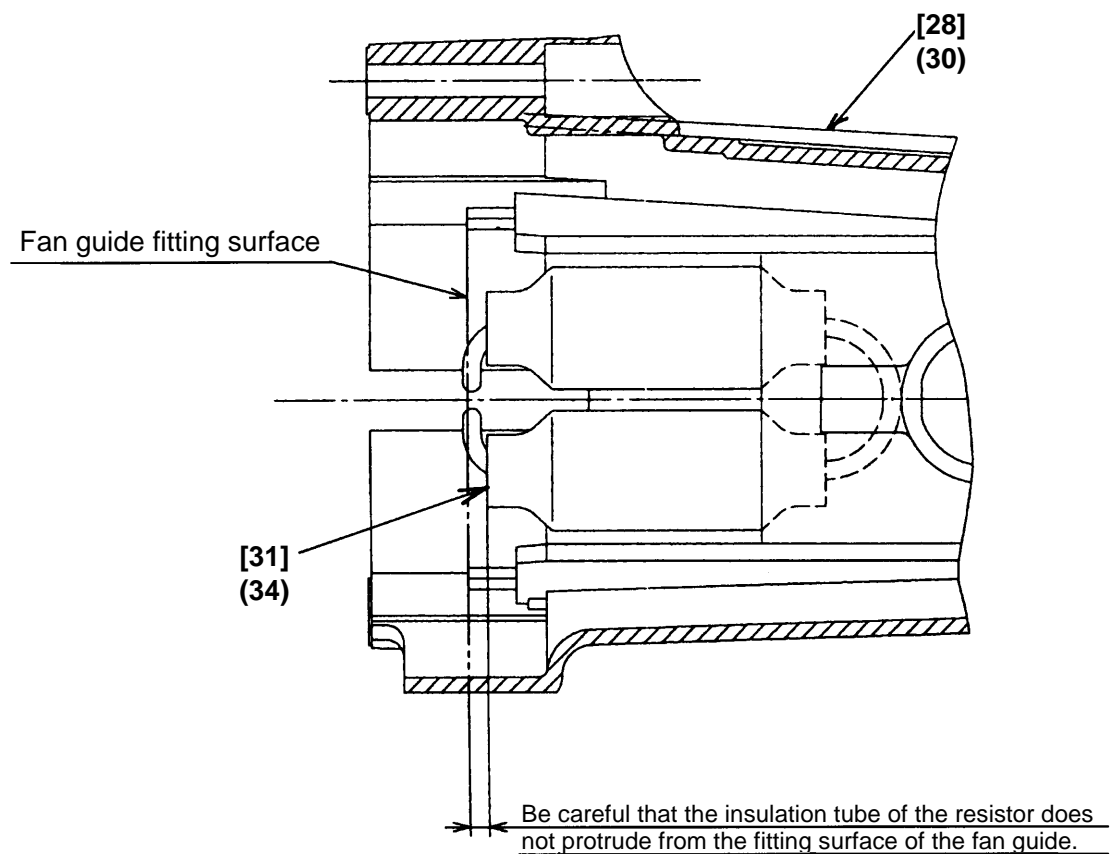
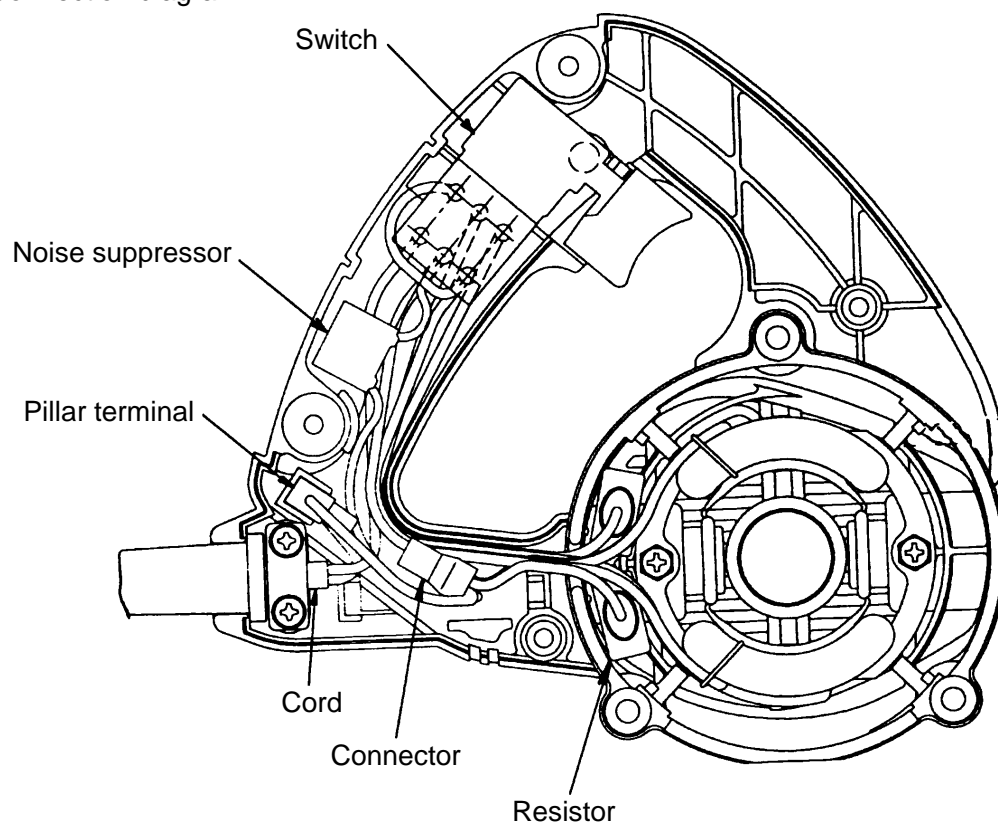


Fig. 13



**Fig. 14**

**D. Connection diagram**



**Fig. 15**

(7) Lubrication

Liberal apply to the Gear Cover Ass'y [3]

Nippeco Grease (SEP-3A) 8 g

Code No.930035

Rub grease into the gear and pinion teeth.

**1-3. Insulation Tests**

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

Insulation resistance: 7MΩ or more with DC 500V Megohm Tester

Dielectric strength: AC 4000 V/1 minute, with no abnormalities

230V

**1-4. Runout of Saw Blade**

Runout of saw blade should be as follows:

Model	Measuring portion	Allowable value
C 6BU	dia. 130	0.6 mm maximum
C 7BU	dia. 160	0.7 mm maximum

**1-5. Cleaning the Unit Case**

when the unit becomes soiled, clean it with a cloth moistened with soapy water. Since chloric solvents, gasoline, and thinner tend to melt plastic material, their use for cleaning should be absolutely avoided.

**1-6. No-Load Current Values**

After no-load operation for 30 minutes, the no-load current values should be as follows.

230V

C 6BU 3.0 A maximum

C 7BU 3.5 A maximum

## 2. STANDARD REPAIR TIME (UNIT) SCHEDULES

MODEL	Variable		10	20	30	40	50	60 min.
	Fixed							
<div>C 6BU</div> <div>C 7BU</div>	<div>General Assembly</div>		Work Flow					
			Switch (B) Cord					
					Housing Ass'y Stator Ass'y			
			Saw Blade Safety Cover Return Spring	Armature Ball Bearing (608VV) Ball Bearing (6001VV)				
				Gear Cover Ass'y Spindle Gear Bearing Holder Ball Bearing (6003VV)				
			Base Ass'y					