



MODEL C 6SE, C 7SE

1. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY

The disassembly and reassembly procedures for the Model C 6SE and C 7SE are essentially the same. The [] numbers in descriptions below correspond to the item numbers in the parts list and exploded assembly diagram for the Model C 6SE, and the < > numbers for the Model C 7SE. During disassembly and reassembly, and at all 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

Before disassembly, be sure to remove the TCT Saw Blade [14] <14> to prevent damage to the teeth or personal injury.

(1) Removing the Safety Cover [6] <6>

Remove the Return Spring [7] <7> from the Safety Cover [6] <6>. Remove the three Machine Screws [11] <10>, Bearing Cap [9] <9> and Safety Cover [6] <6>.

(2) Removing the Bearing Holder [4] <4>

Remove the two Seal Lock Flat Hd. Screws [5] <5> and remove the Bearing Holder [4] <4> together with the Spindle and Gear Set [2] <2>.

(3) Removing the Spindle and Gear Set [2] <2>

Hold the Bearing Holder [4] <4> in a cylindrical jig with an inside diameter 49 mm, and remove the Spindle and Gear Set [2] <2> from the Bearing Holder [4] <4> by pushing the end of the spindle.

(4) Removing the Armature [30] <29>

Loosen the Brush Cap [40] <39> and remove the two Carbon Brushes [39] <38>.

Loosen and remove the three M5 x 45 Machine Screws [23] <22> to separate the Housing Ass'y [25] <24> from the Gear Cover Ass'y [34] <33>. The Armature [30] <29> can be removed by tapping around the Housing Ass'y [25] <24> lightly with a wooden or plastic hammer. Be careful not to tap the fan of the Armature [30] <29>.

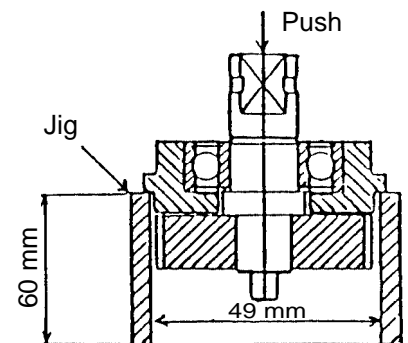


Fig. 1

(5) Removing the Base Ass'y [63] <62>

Remove the D6 x 30 Roll Pin [61] <60> to separate the Base Ass'y [63] <62> from the Gear Cover Ass'y [34] <33>.

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 torquer for fastening screws and bolts

- M3 Machine Screws $0.8 \pm 0.2 \text{ N}\cdot\text{m}$ ($8 \pm 2 \text{ kgf}\cdot\text{cm}$)
- M4 Machine Screws $1.8 \pm 0.4 \text{ N}\cdot\text{m}$ ($18 \pm 4 \text{ kgf}\cdot\text{cm}$)
- M5 Machine Screws $3.4 \pm 0.7 \text{ N}\cdot\text{m}$ ($35 \pm 7 \text{ kgf}\cdot\text{cm}$)
- M7 x 17.5 Bolt [16] (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 10 Seal Lock Flat Hd. Screw $3.4 \pm 0.7 \text{ N}\cdot\text{m}$ ($35 \pm 7 \text{ kgf}\cdot\text{cm}$)
- M3.5 Bind Screws $0.6 \pm 0.15 \text{ N}\cdot\text{m}$ ($6 \pm 1.5 \text{ kgf}\cdot\text{cm}$)
- D4 FT Screws $3.0 \pm 0.5 \text{ N}\cdot\text{m}$ ($30 \pm 5 \text{ kgf}\cdot\text{cm}$)

(2) Reassemble the Armature [30] <29>

Prior to assembling the Armature [30] <29>, ensure that the Bearing Lock [33] <32> is properly inserted into the groove of the bearing case within the Gear Cover Ass'y [34] <33>.

(3) Reassemble the Lock Lever [31] <30> (See Fig. 2.)

A. Position the Lock Lever [31] <30> between the fan and the Ball Bearing [32] <31> of the Armature [30] <29>, and carefully assemble it together with the Armature [30] <29> into the Gear Cover Ass'y [34] <33>.

B. Ensure that both ends of the spring on the Lock Lever [31] <30> are properly supported inside the ribs of the Gear Cover Ass'y [34] <33>.

C. When assembly of the Lock Lever [31] <30> has been completed (when the Gear Cover Ass'y [34] <33> is assembled to the Housing Ass'y [25] <24> and fastened with the M5 x 45 Machine Screws [23] <22>), push the Lock lever [31] <30> by hand and ensure that it returns to its original position when released.

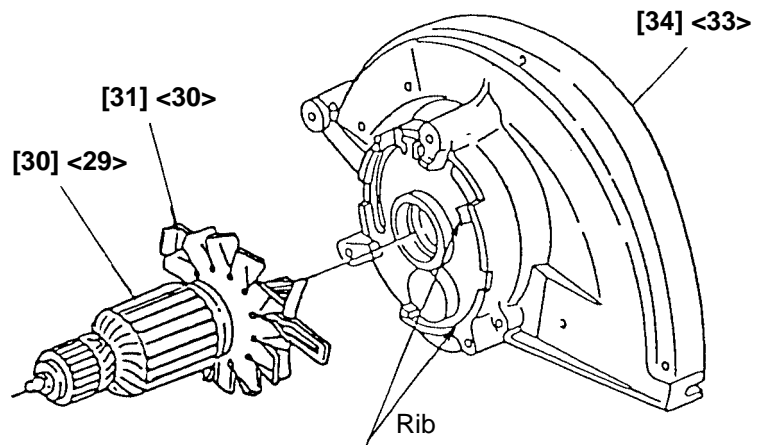


Fig. 2

(4) Reassemble the Stator Ass'y [28] <27>

As shown in Fig. 3, insert a guide bar [J-132 stator press pins (Special repair tool, Code No. 970911) are recommended] into the Stator Ass'y [28] <27> and the Housing Ass'y [25] <24> to accurately align the screw hole on the Stator Ass'y [28] <27> with the corresponding hole on the Housing Ass'y [25] <24>. Press-fit the Stator Ass'y [28] <27> into the Housing Ass'y [25] <24> so that the internal wire faces the Name Plate. Hook the carbon brush terminals in the brush holders. Be careful not to put the internal wires in the ribs of the Stator Ass'y [28] <27> in the Housing Ass'y [25] <24>. Fix the Stator Ass'y [28] <27> to the Housing Ass'y [25] <24> with the two Hex. Hd. Tapping Screws [46] <45>. If the noise suppressor is provided, fix the Terminal [52] <51> at the tip of the internal wire coming out of the noise suppressor with one of the two Hex. Hd. Tapping Screws [46] <45>. (See Fig. 4.)

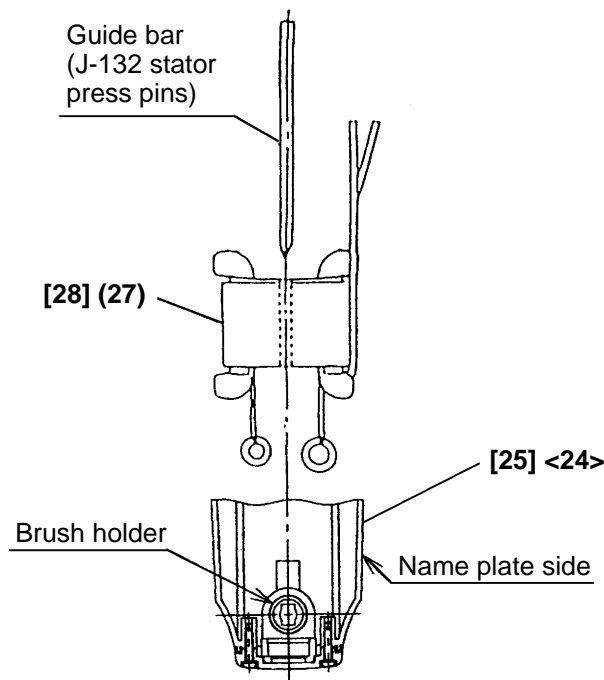


Fig. 3

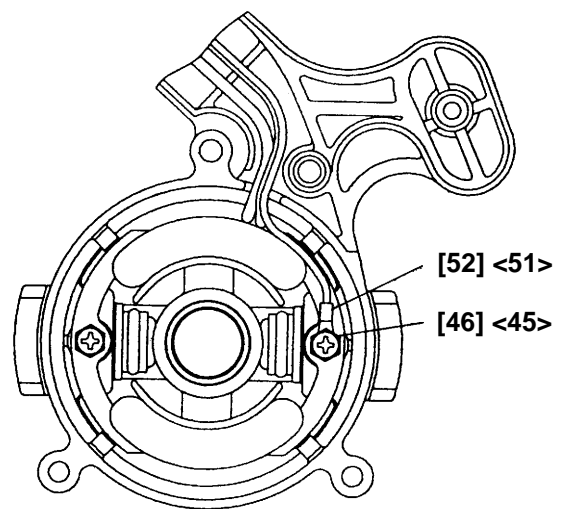


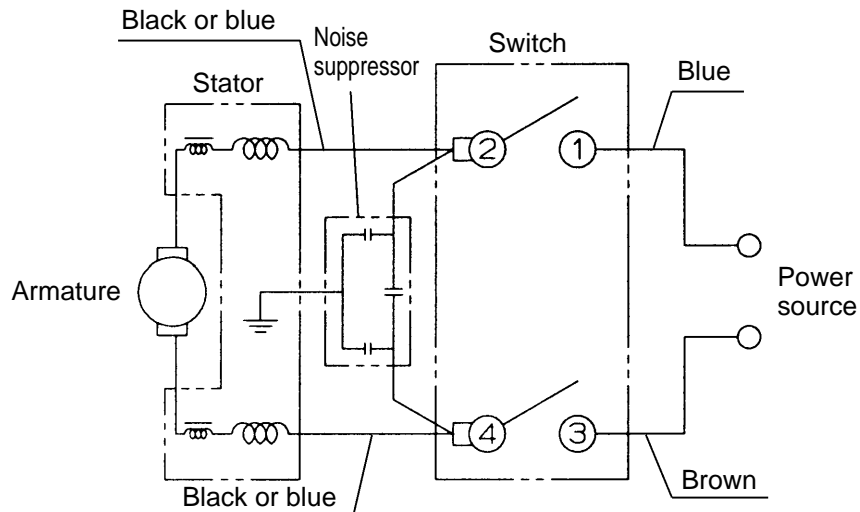
Fig. 4

(5) Wiring

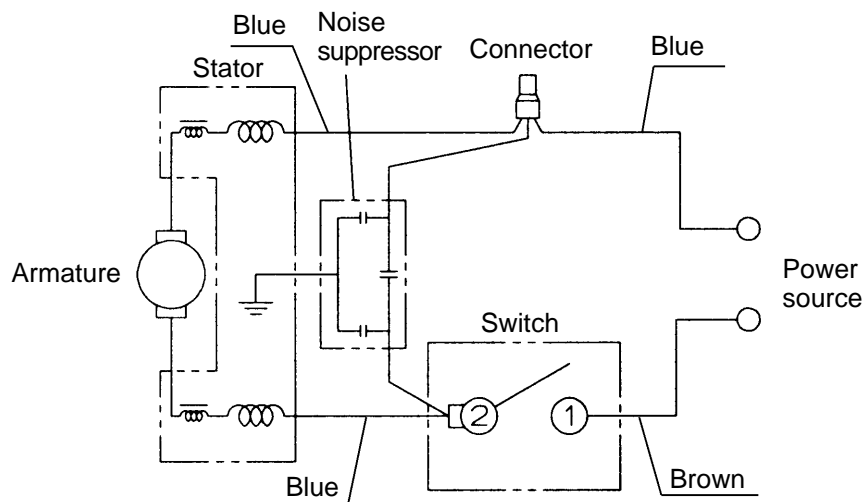
Wiring should be performed as shown below. Be careful not to sandwich the internal wires between the Handle Cover [57] <56> and the Housing Ass'y [25] <24>.

1. Wiring diagram

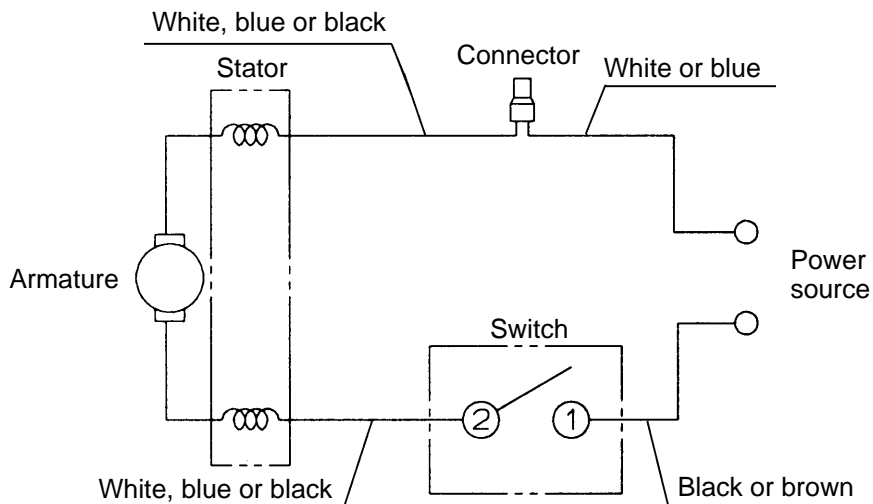
[A] For Australia and New Zealand



[B] For Korea

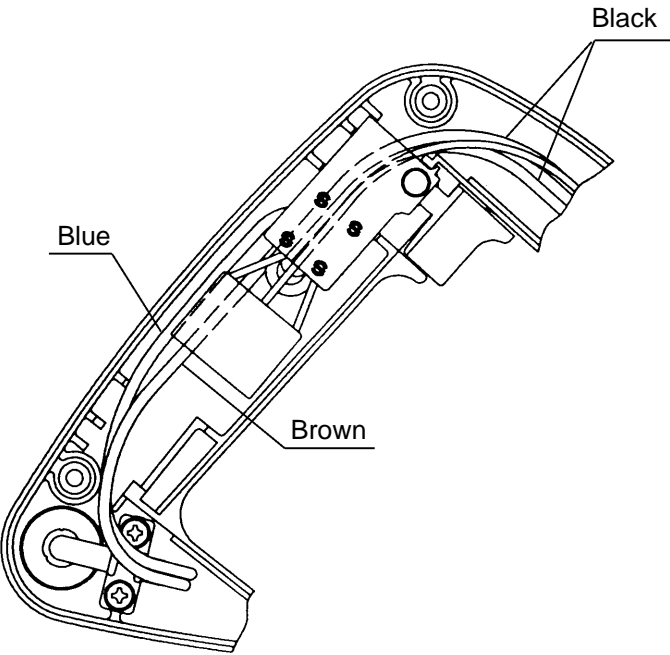


[C] For other countries [ASEAN, M.E. Asia, Taiwan]

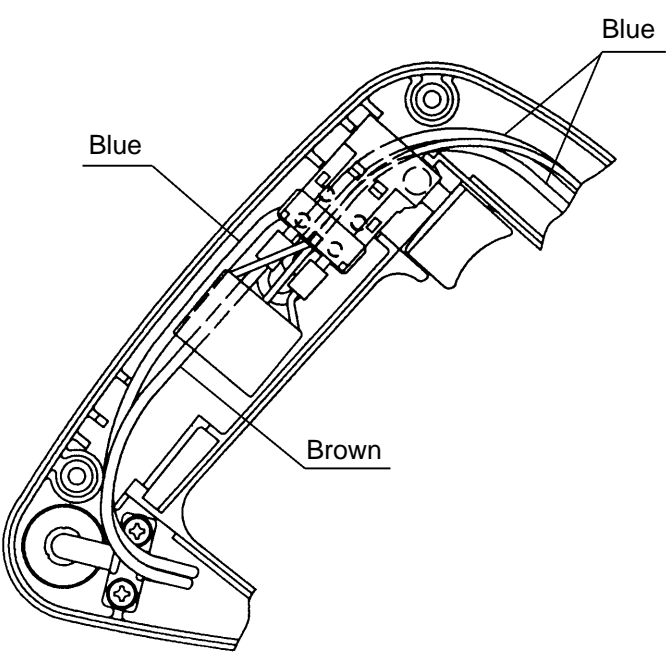


2. Schematic diagram

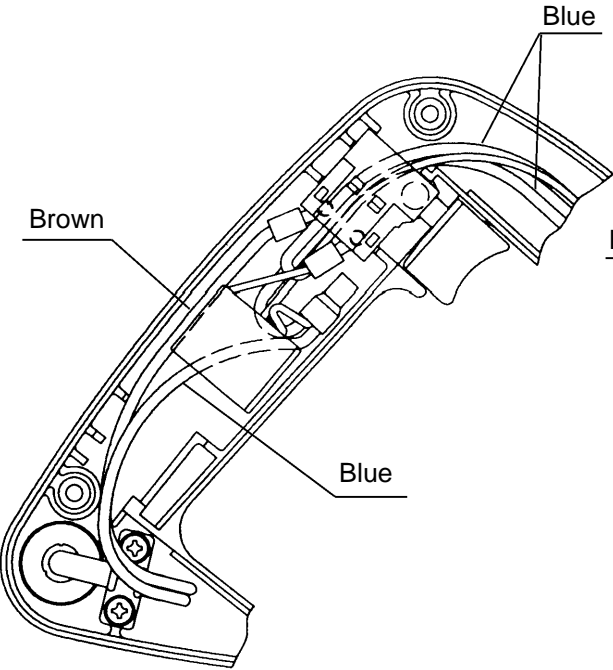
[A] For Australia



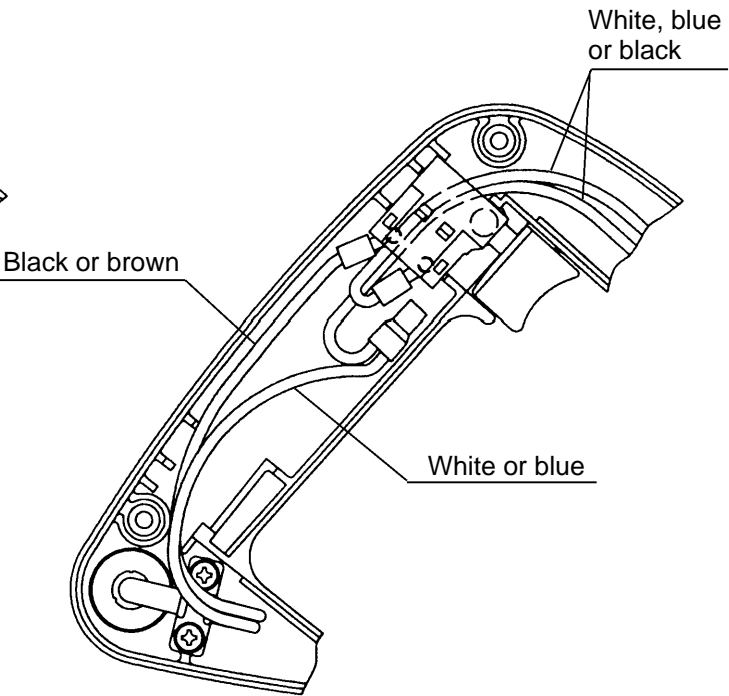
[B] For New Zealand



[C] For Korea



[D] For other countries [ASEAN, M.E. Asia, Taiwan]



(6) Lubrication

The Gear Cover Ass'y [34] <33> Apply Nippeco Grease (SEP-3A) 8 g

Code No. 930035

Amplly rub grease into the teeth of gear and pinion.
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1-3. 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

1-4. Deflection of Saw Blade

Allowable deflection level of the saw blade shall be as follows.

Model	Measuring point	Allowable level
C 6SE, C 7SE	150	0.5 mm max.

1-5. Cleaning the Case

When the unit becomes soiled, clean it with a clean soft rag moistened with soapy water. Since chloric solvents, gasoline and thinner tend to melt plastic material, their use for cleaning is absolutely avoided.

2. STANDARD REPAIR TIME (UNIT) SCHEDULES

MODEL	Variable		10	20	30	40	50	60 min.
	Fixed							
C 6SE		Work Flow						
C 7SE				Switch Cord				
					Housing Ass'y Stator Ass'y			
	General Assembly							
		Saw Blade Safety Cover Return Spring		Armature Ball Bearing (608VV) Ball Bearing (6000VV)				
				Gear Cover Ass'y Spindle and Gear Set Bearing Holder Ball Bearing x 2				
		Base Ass'y						