



MODEL C 6DC

1. REPAIR GUIDE

[WARNING]

Without fail, remove the storage battery from the main body of the tool before starting repair or maintenance work. If the battery is left in and the switch is activated inadvertently, the motor will start rotating unexpectedly, which could cause serious injury.

1-1. Precautions in Disassembly and Reassembly

The **[Bold]** numbers in the description below and the circled numbers in the following figures correspond to the item numbers in the parts list and the exploded assembly diagram for the Model C 6DC.

1-1-1. Disassembly

(1) Removal of the Saw Blade **[11]**

While pressing the Lock Lever **[23]**, turn the Bolt M7 x 17.5 **[13]** clockwise with the attached Box Wrench 10 mm **[503]** to fix the saw blade shaft. Turn the Bolt **[13]** counterclockwise with the Box Wrench **[503]** to loosen it. Remove Washer (B1) **[12]**, the Saw Blade **[11]**, the Ring **[10]** and Washer (A1) or (A2) **[9]**. Handle the Saw Blade with care to avoid injury. The Ring **[10]** is not provided for Australia and New Zealand (GD and HD work).

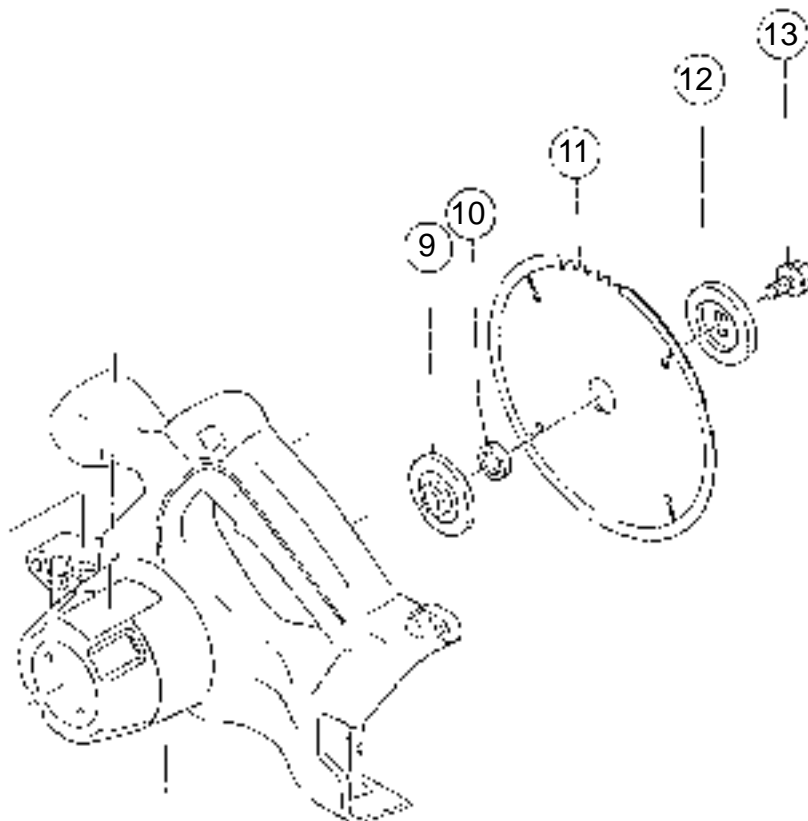


Fig. 1

(2) Removal of the Safety Cover [4]

Remove the three Seal Lock Flat Hd. Screws M3 x 12 [8] and then the Bearing Cover [7]. Remove the Return Spring [5] from the Saw Cover [28]. Remove the Safety Cover [4] from the Bearing Holder [2].

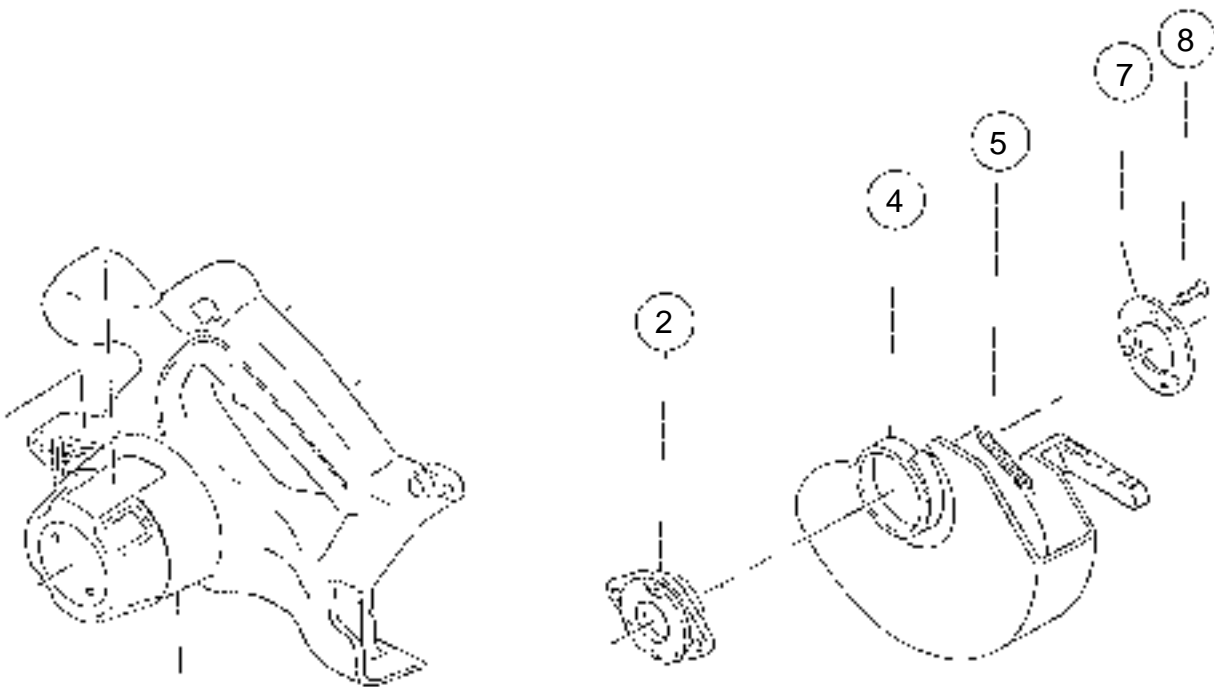


Fig. 2

(3) Removal of the Saw Cover [28]

Remove the Bolt Ass'y (Square) M6 x 22 [42]. Remove the Tapping Screw (W/Flange) D5 x 50 [30] and then the Saw Cover [28].

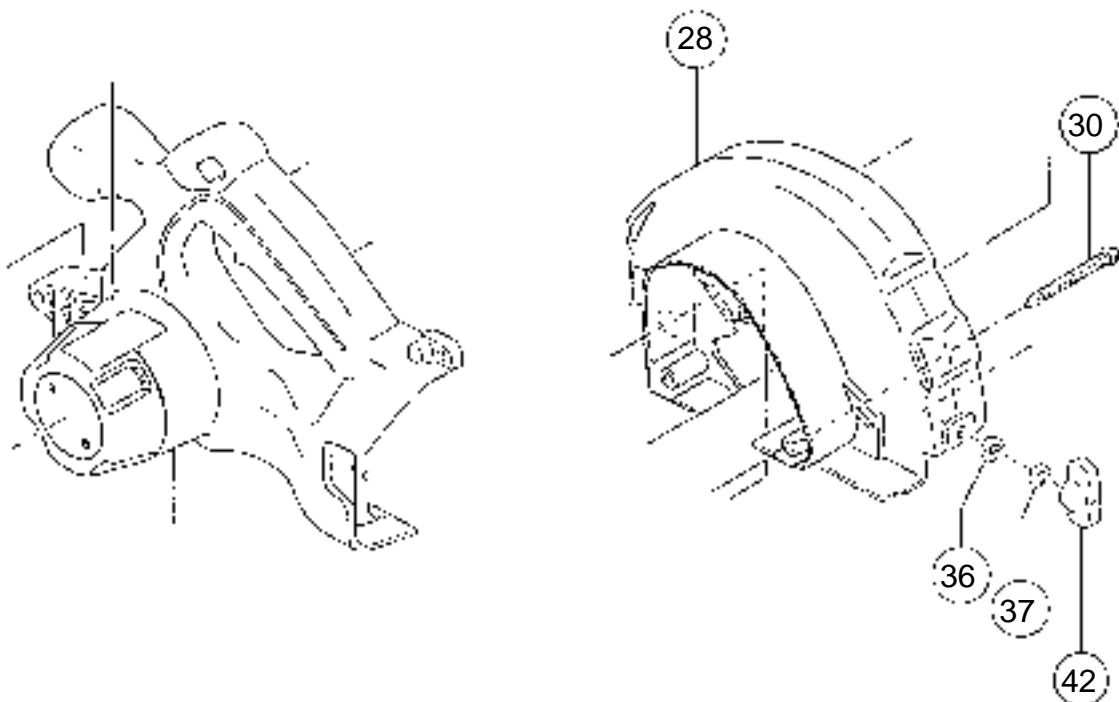


Fig. 3

(4) Removal of the Handle Cover [55]

Remove the five Tapping Screws (W/Flange) D4 x 16 [56] to remove the Handle Cover [55].

(5) Disassembly of the Gear [1] and Motor (B) [19]

(a) Remove the Seal Lock Flat Hd. Screw M5 x 12 [3] to remove the Bearing Holder [2] and the Gear [1].

Remove the Gear [1] from the Bearing Holder [2].

(b) Remove Inner Cover (A) [20], (B) [25] and Motor (B) [19] from the Housing [32]. Remove the Nylock Bolt (W/Flange) M4 x 12 [26] to remove Inner Cover (B) [25].

(c) Remove the Lock Lever [23] and the Spring [33], then remove the Ball Bearing [24] from the pinion of the Motor (B) [19]. Remove the two Machine Screws M5 x 10 [22] to remove Inner Cover (A) [20]. Remove Motor (B) [19].

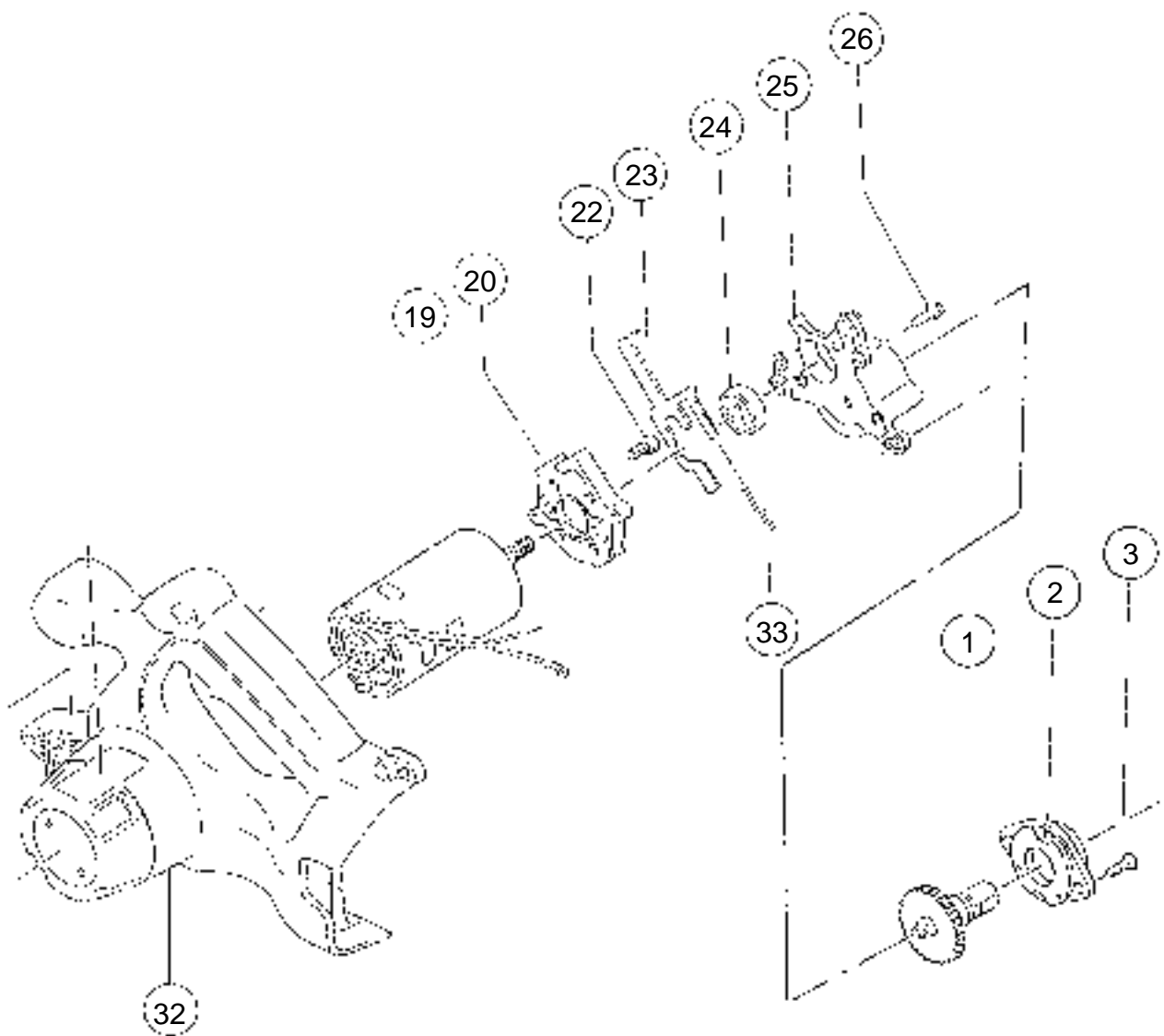


Fig. 4

(6) Removal of the Base Ass'y [46]

Extract the Roll Pin D6 x 45 [43] that connects the Base Ass'y [46] and the Housing [32]. Remove the Base Ass'y [46].

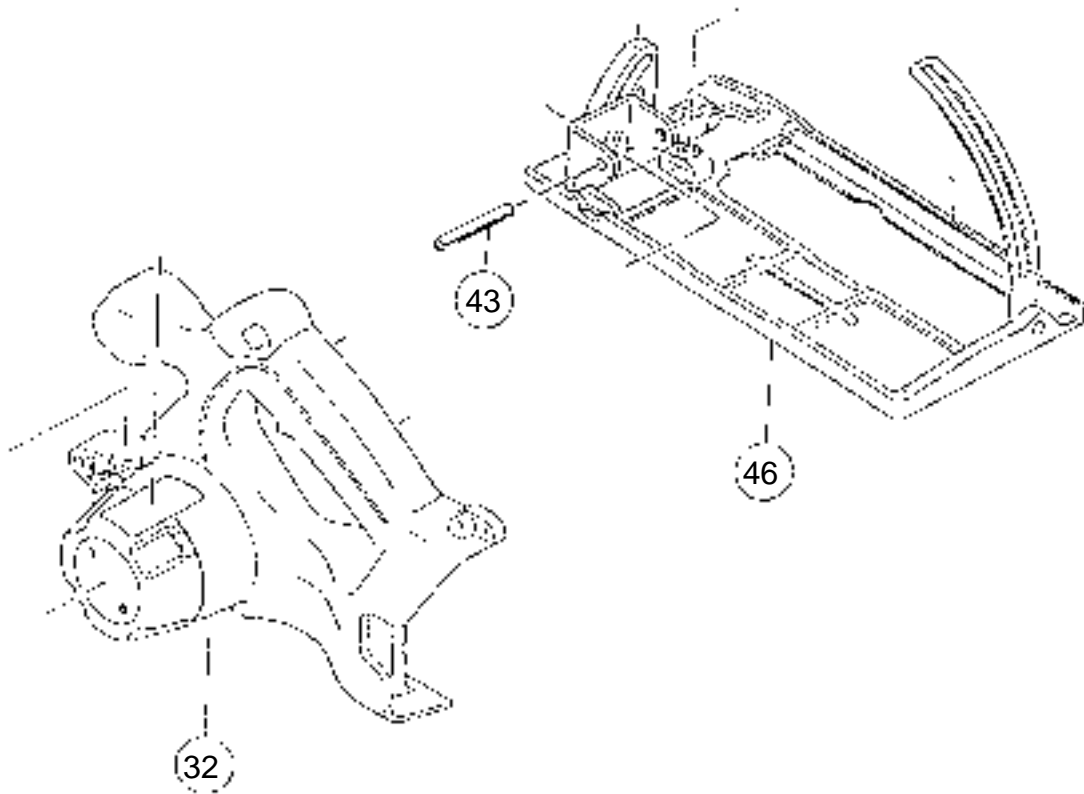


Fig. 5

1-1-2. Reassembly

Reassembly can be accomplished by following the disassembly procedures in reverse, with some items to be noted as follows.

(1) Reassembly of the components for power supply

(a) Be sure to perform wiring connections as indicated in the wiring diagram (Fig. 6-1 or 6-2).

• For the U.S.A. and Canada

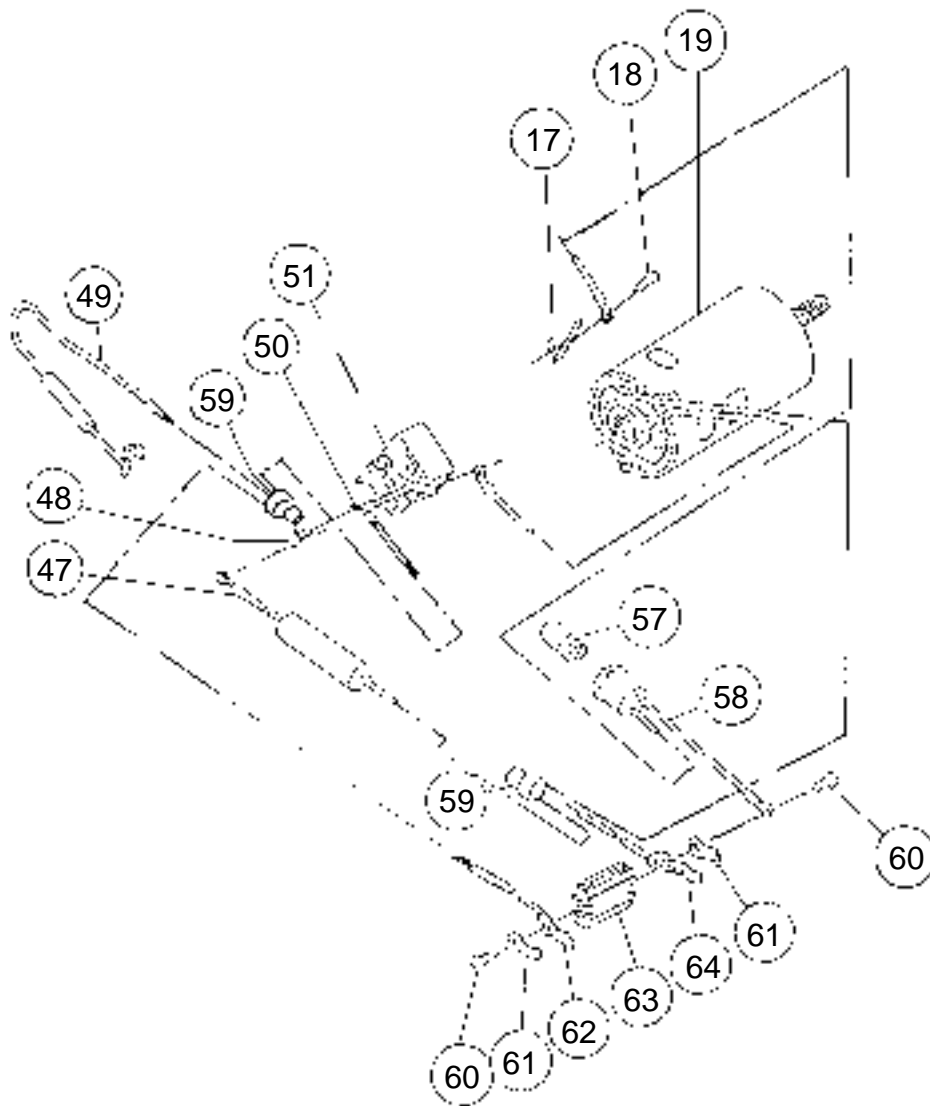


Fig. 6-1

• For Australia and New Zealand

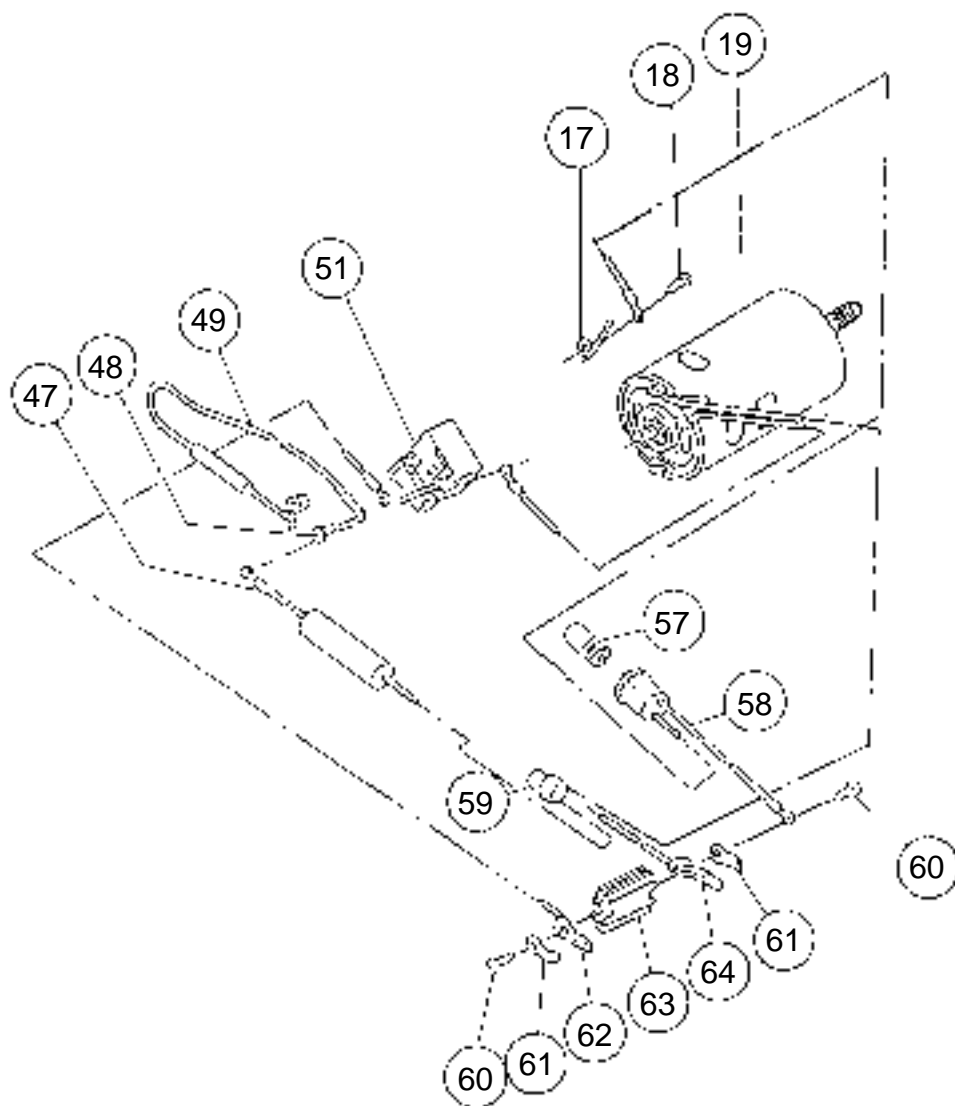


Fig. 6-2

(b) Mount Inner Cover (A) [20] to Motor (B) [19] as illustrated in Fig. 7.

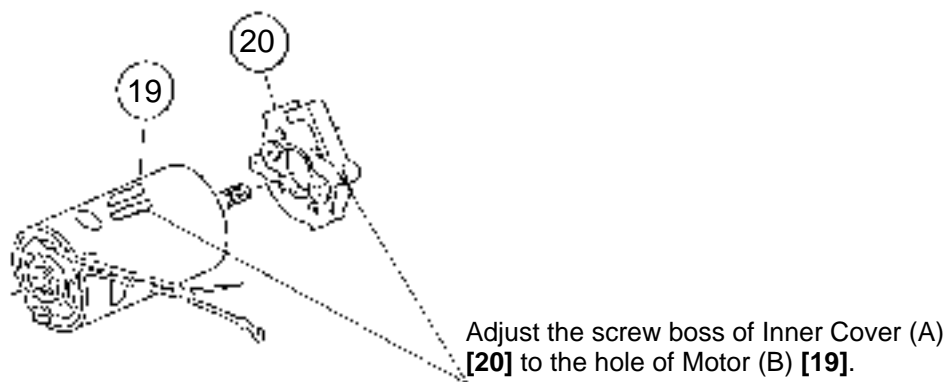


Fig. 7

(c) Connect the internal wires as illustrated in Figs. 8-1 and 8-2. Mount the Knob [54], Terminal (A) [53] and Spring (F) [52] without fail.

• For the U.S.A. and Canada

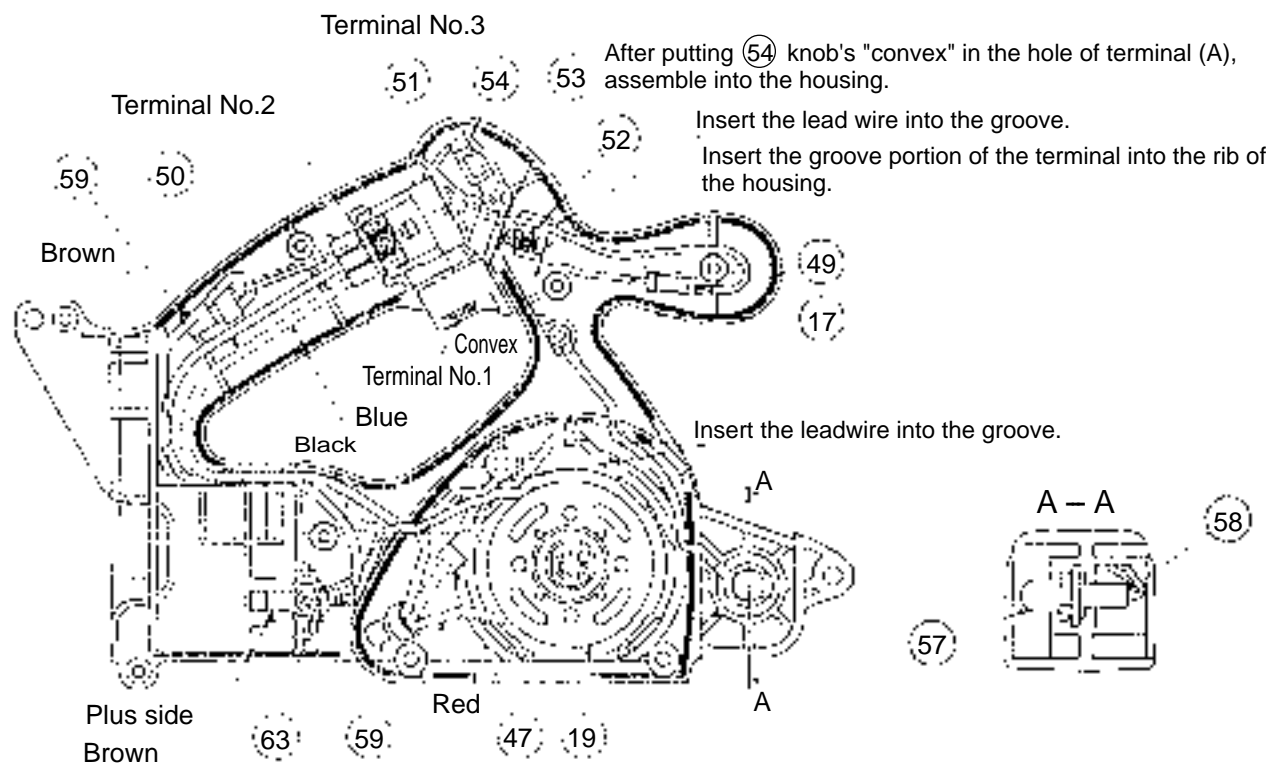


Fig. 8-1

• For Australia and New Zealand

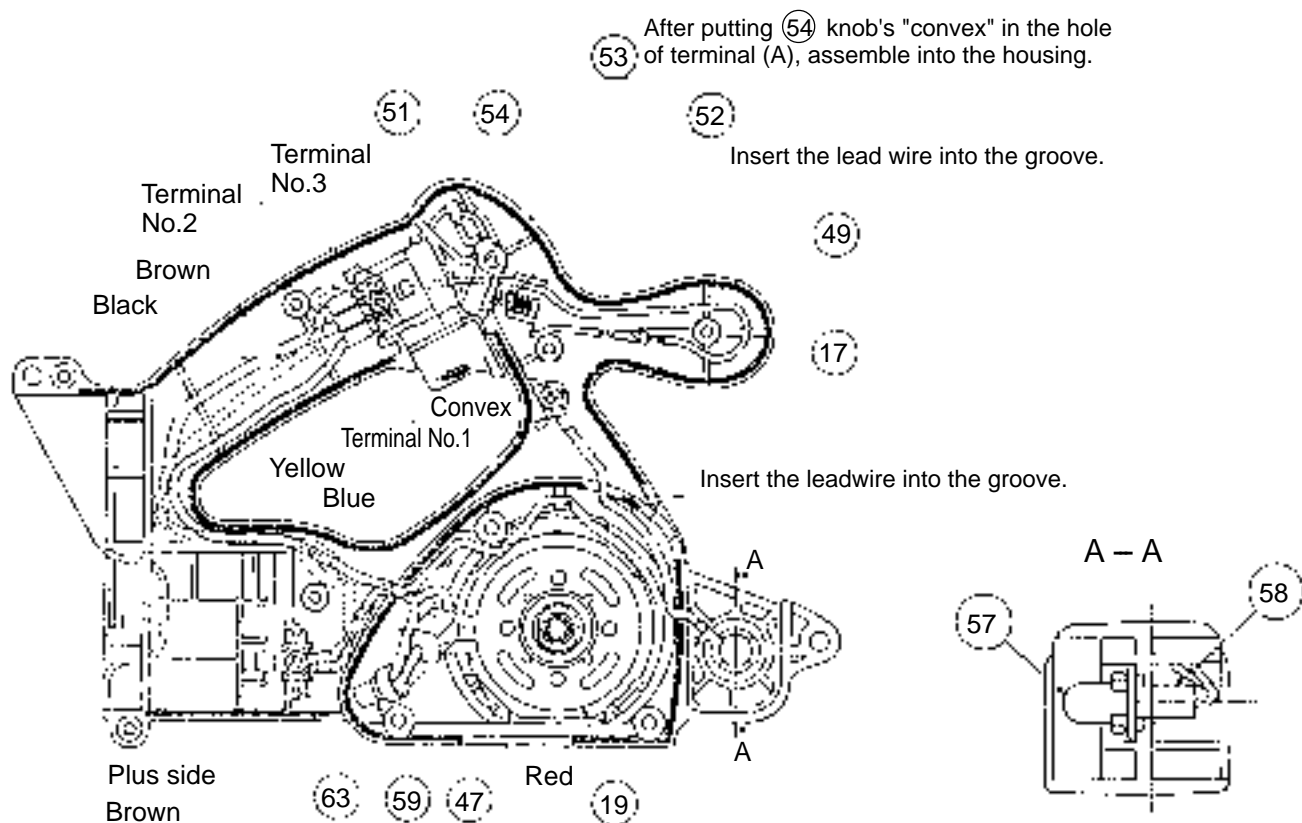


Fig. 8-2

(2) Reassembly of the Gear [1]

- (a) Apply grease (Hitachi Motor Grease No. 29) to the pinion and the meshing parts of the Gear **[1]**, and also to the inside of the metal of Inner Cover (B) **[25]**. 5 Grams in total.
- (b) When securing Inner Cover (A) **[20]** to Inner Cover (B) **[25]** with the Nylock Bolt (W/Flange) M4 x 12 **[26]**, be careful not to interfere with the rotation of the pinion.

(3) Checking of operation after reassembly

- (a) Check that the Knob **[54]** operates smoothly and the switch trigger can be locked and released reliably.
Check that the Lamp **[57]** is turned on when the Knob is operated.
- (b) Check that the cutting and inclining operation of the Base Ass'y **[46]** is smoothly performed.
- (c) Check that the Safety Cover **[4]** operates smoothly.
- (d) Check that the brake is applied when turning off the switch.
- (e) Check that the saw blade turns in the arrow direction indicated on the saw cover (counterclockwise viewed from the front of the saw blade).
- (f) Check that runout of the saw blade is 0.6 mm or less at 150 mm dia. position

(4) Wiring Diagram

Perform wiring as illustrated in Fig. 9-1 or 9-2. Note that wrong wiring can cause troubles such as rotation failure, inverse rotation and brake failure.

- For the U.S.A. and Canada

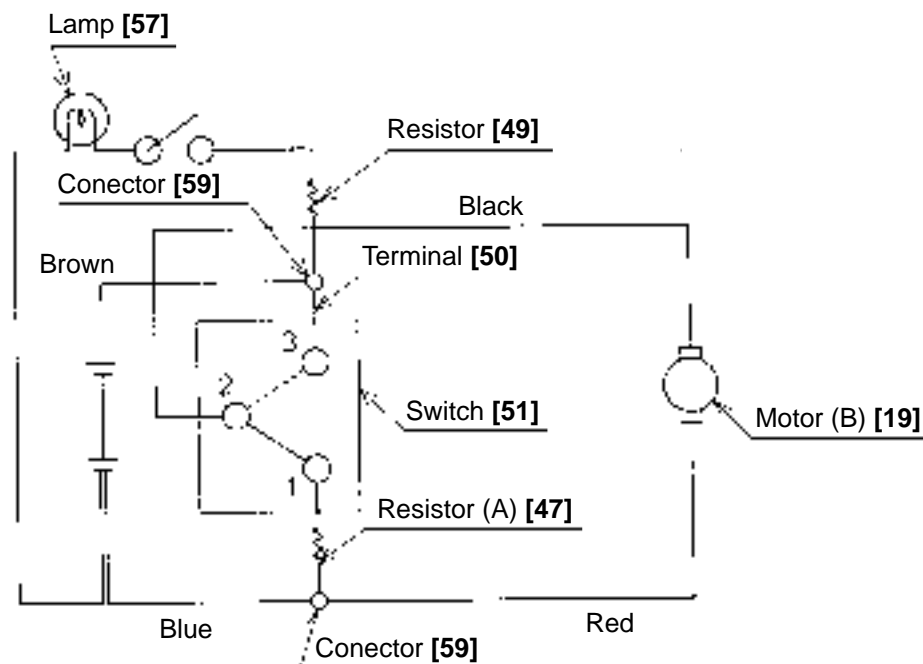


Fig. 9-1

- For Australia and New Zealand

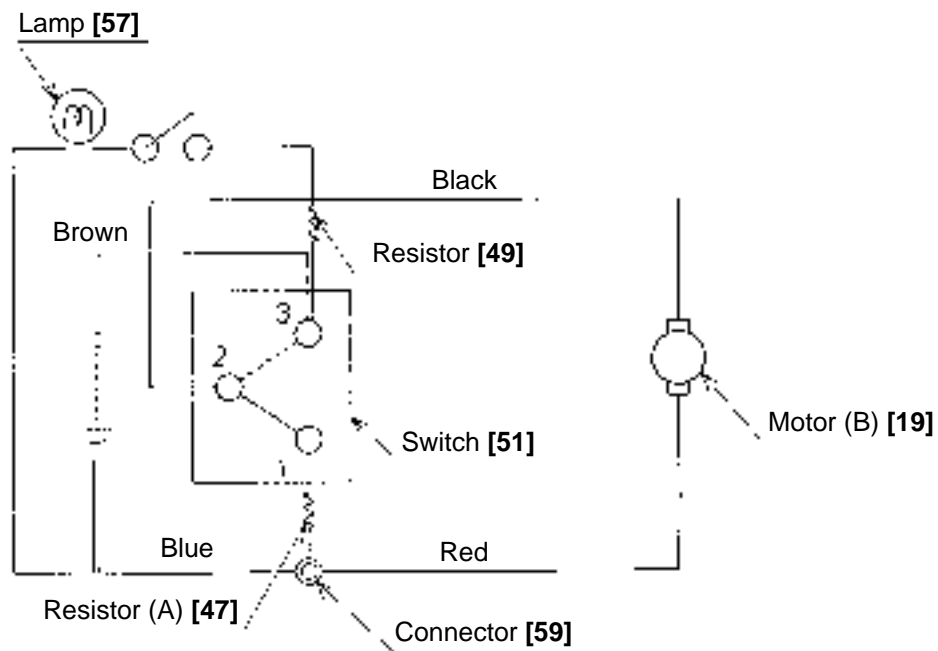


Fig. 9-2

(5) Tightening torque of each screw is given below.

Machine Screw (W/Washer) M3.5 x 6 [48]	6 ± 1.5 kg·cm
Machine Screw M5 x 10 [22]	20 ± 5 kg·cm
Tapping Screw (W/Flange) D4 x 16 [56]	20 ± 5 kg·cm
Tapping Screw D4 x 10 [18]	20 ± 5 kg·cm
Seal Lock Flat Hd. Screw M5 x 12 [3]	35 ± 7 kg·cm
Seal Lock Flat Hd. Screw M3 x 12 [8]	8 ± 2 kg·cm
Nylock Bolt (W/Flange) M4 x 12 [26]	35 ± 7 kg·cm

1-2. Precautions in Disassembly and Reassembly of Battery Charger

Refer to the Technical Data and Service Manual of the Model UC 24YF Charger for precautions in disassembly and reassembly of this charger.

2. STANDARD REPAIR TIME (UNIT) SCHEDULES

MODEL	Variable		10	20	30	40	50	60 min.
	Fixed							
C 6DC		Work Flow						
		Switch Socket						
				Inner Cover (B) Ball Bearing (609VV) Inner Cover (A) Lock Lever	Housing Motor (B)			
		General Assembly						
		Saw Blade Safety Cover Return Spring		Saw Cover Gear Bearing Holder Ball Bearing (6002VV)				
		Base Ass'y						