

MODELS FCH 48Y/FCH 57Y/FCH 68Y

1. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY

The **[BOLD]** numbers in the descriptions below correspond to the common numbers in the Parts List and exploded assembly diagrams of FCH 68Y, FCH 48Y and FCH 57Y.

However, if a second set of numbers in **<BOLD>** follows the **[BOLD]** numbers, they correspond to FCH 48Y and FCH 57Y only.

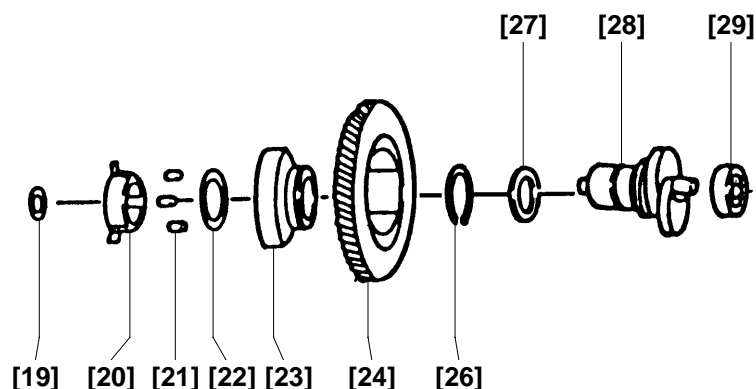
1-1. Tightening Torques

While special screws called Torx screws are used in this unit, their heads are shaped to allow the use of a flat-blade (-) screwdriver. Use a Torx driver for Torx screws or flat-blade (-) screwdriver for disassembly and reassembly.

1-2. Disassembly

1-2-1. Disassembly of the Blade Ass'y

- (1) Remove the three M4 x 6 Screws **[64]** **<63>**, and then the bottom plate.
- (2) The Blade Ass'y **[61]** **<60>** can be removed as a whole by removing the four Fixing Screws M5 x 6 **[62]** **<61>**. Then, all parts series from D9 washer **[19]** to Ball Bearing **[29]** can be separated and disassembled.

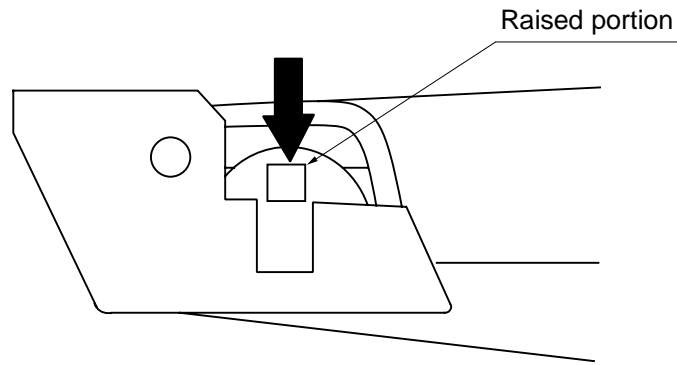


- (3) The Blade Ass'y **[61]** **<60>** can be taken apart by removing the M4 x 14 Bolts **[56]** (FCH 48Y, FCH 57Y: M4 x 12 bolts **<56>**, FCH 48Y: 4 pcs., FCH 57Y: 5 pcs., FCH 68Y: 6 pcs.), the M6 x 18 Screws **[4]** and the M6 x 20 Screws **[52]** (two M6 x 18 screws **<4>** for FCH 48Y, FCH 57Y).

1-2-2. Disassembly of the Sub Handle Ass'y

- (1) Remove the two M6 x 18 Screws **[4]** and separate the Sub Handle Ass'y (Sub Handle **[3]**, Sub Handle Lever **[2]** and Spring (L55) **[1]**) from the trimmer body.

(2) Push the two raised portions in the direction indicated by the arrow to disassemble the parts.



1-2-3. Removal of Housing (B) from the Housing (A), (B) Set

Remove the seven D4 x 20 Tapping Screws [49] and the D4 x 25 Tapping Screw [46] to remove Housing (B) from the Housing (A), (B) Set [9].

1-2-4. Removal of Bowden Wire and Switch Lever

(1) Remove the Bowden Wire [45] hung on the Rocker [13].

(2) Remove the Bowden Wire [45] and the Switch Lever [48] from Housing (A) to take them apart.

1-2-5. Removal of Motor Ass'y

(1) Remove the Gear Housing [16] accommodating the Motor Ass'y [31] from Housing (A).

(2) Remove the four D4 x 16 Tapping Screws [43] to take the Motor Ass'y apart.

1-2-6. Disconnection of Wiring

Loosen the slotted (-) Set Screw of the Connector [39] and disconnect the Internal Wires of the Switch [10], Motor Ass'y [31], Noise Suppressor [37] and Cord [41] to take the wiring apart.

1-3. Reassembly

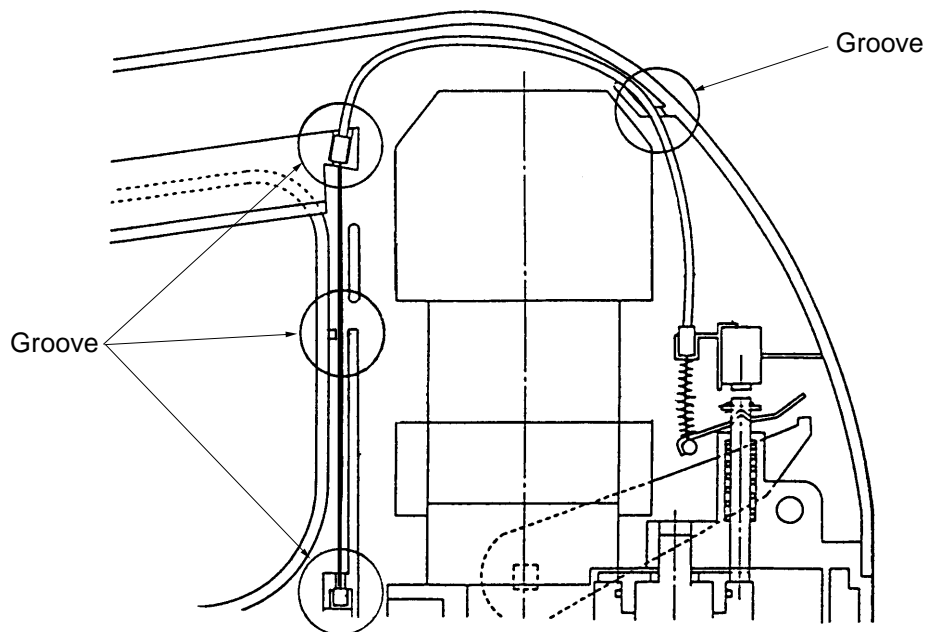
Reassembly can be accomplished by following the disassembly procedures in reverse. However, special attention should be given to the following items.

1-3-1. Reassembly of Motor Ass'y and Gear Housing

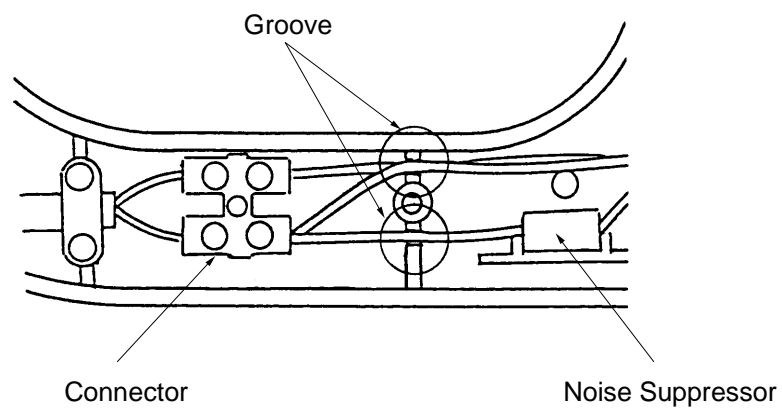
Install the Motor Ass'y [31] in the Gear Housing [16] after making sure that the O-Ring (D18) [25] is seated in the Ball Bearing groove of the Gear Housing [16].

1-3-2. Note the Following Points When Fitting Housing (B) of the Housing (A), (B) Set in Position.

- (1) Make sure that the Bowden Wire [45] passes through the groove when installing the Bowden Wire [45] and Switch Lever [48] in Housing (A).

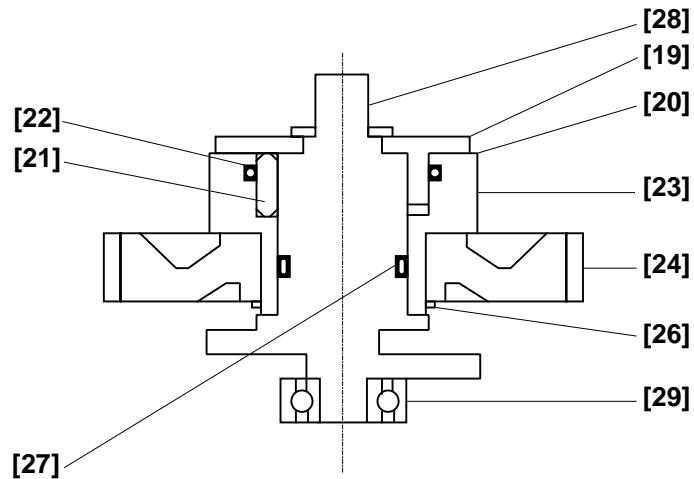


- (2) Make sure that the Internal Wires [38] as well as the Noise Suppressor Internal Wire [37] are pushed into the groove, and that there is no slack or interference with other Internal Wires.

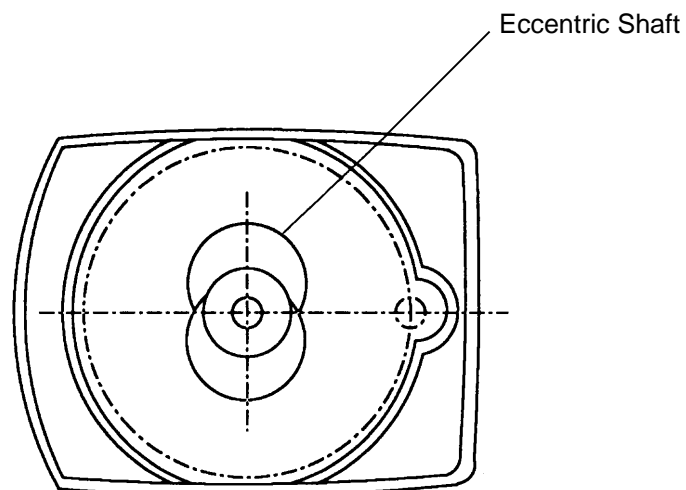


1-3-3. Reassembly of Gear Mechanism

- (1) Press the Gear [24] into the Clutch Body [23] and the Ball Bearing [29] into the Eccentric Shaft [28], and then assemble all the parts from the D9 Washer [19] to the Ball Bearing [29] together.

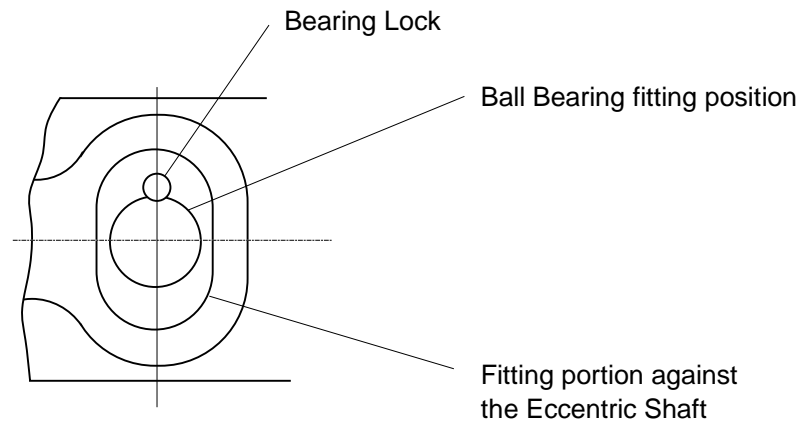


- (2) Insert the assembled gearing into the Needle Bearing [18] pressed into the Gear Housing [16], making sure that the disc portion of the Eccentric Shaft [28] is as indicated in the figure below.



1-3-4. Reassembly of Blade Ass'y

- (1) Before installing the Blade Ass'y **[61]** <**60**> into the trimmer body, make sure that the fitting center which the Blade (A) and Blade (B) are assembled, is in alignment with the Ball Bearing fitting position at the Gear Cover **[58]**.



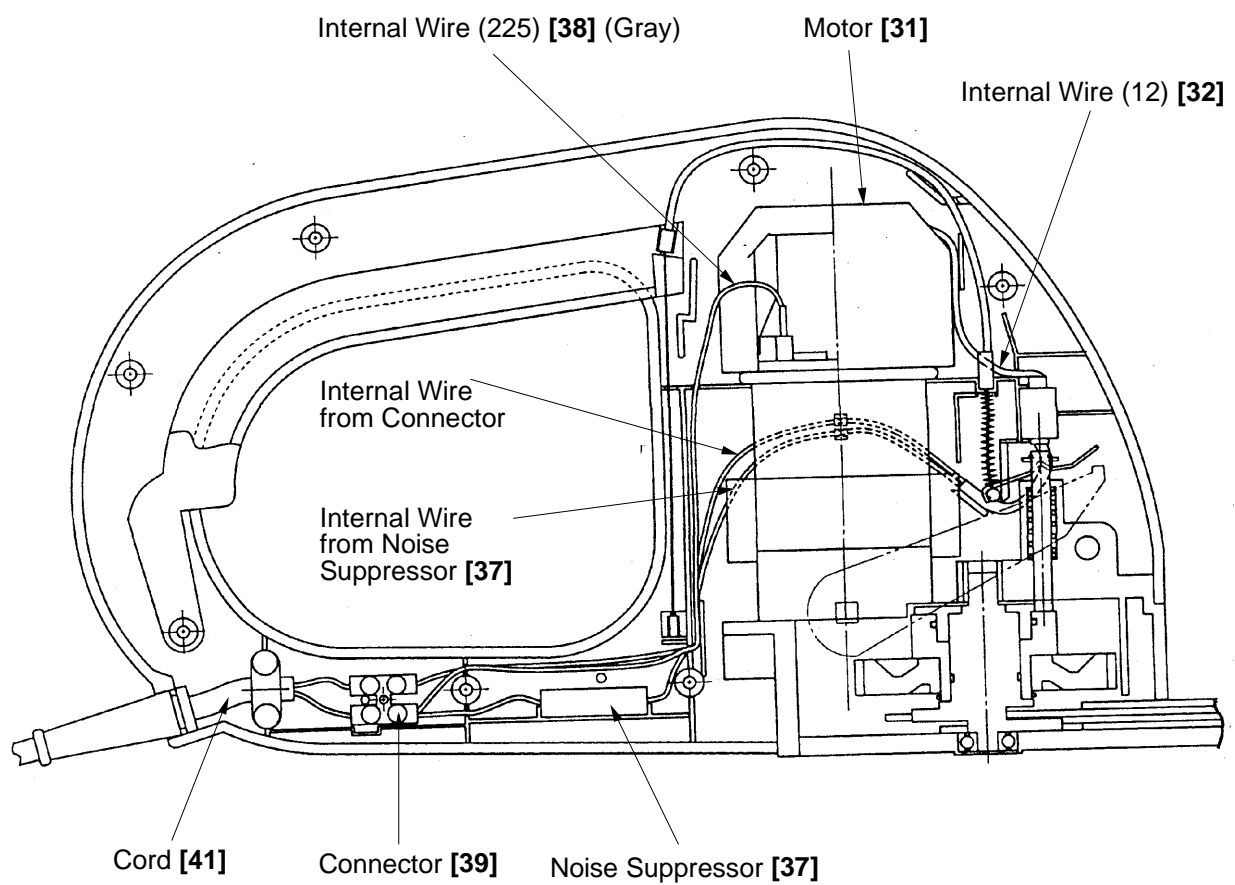
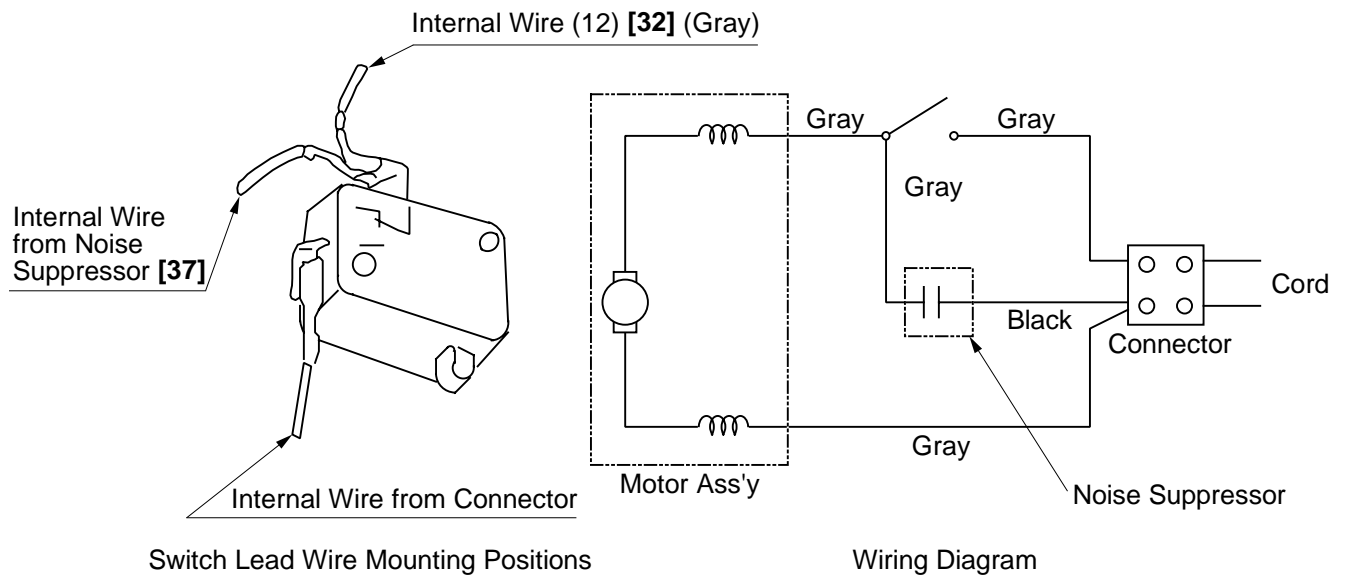
- (2) The Blade Ass'y can be installed with no trouble after carrying out Step (1).

1-3-5. Applying Grease

Apply Hitachi Motor Grease No. 29 (Code No. 930035 is recommended) to the armature pinion and gear teeth and sliding parts such as fitting portion between Clutch Body **[20]** and Eccentric Shaft **[28]** and between Eccentric Shaft and fitting portion of Blade to the Eccentric Shaft.

1-4. Wiring Diagram and Lead Wire Arrangement

Conduct wiring in accordance with the wiring diagrams and schematic diagram illustrated below.



1-5. Insulation Tests

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

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

Dielectric Strength: AC 4,000 V/1 minute, with no abnormalities.....220 V - 240 V

1-6. No-Load Current Values

After 30 minutes of no-load operation, current values should be as follows:

220 V....	}Less than 1.2 A
230 V....	
240 V....	

2. STANDARD REPAIR TIME (UNIT) SCHEDULES

Model	Variable Fixed	10	20	30	40	50	60
FCH 48Y		Work Flow					
FCH 57Y			Cord Bowden Wire Switch Lever Rocker Spring (L22) Clutch Pin				
FCH 68Y							
	General Assembly	Sub Handle Sub Handle Lever Spring (L55) x 2 Protector Carbon Brush x 2		Housing (A), (B) Set Motor Gear Housing Switch element			
	Fixed Cost Protector Sub Handle Switch Switch Lever Blade Ass'y Cord Others	0 min. 10 min. 20 min.	Bottom Plate Clutch Guide Housing Pin x 3 O-Ring x 2 Clutch Body Gear Eccentric Shaft BB (626VV) Blade Ass'y	Blade (A), (B) Blade Holder Holder Plate Distance Piece (A), (B) Gear Cover			