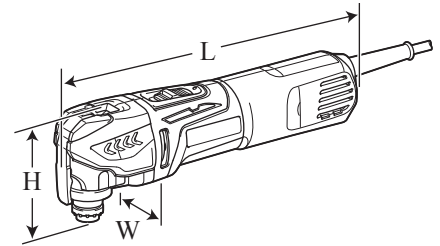


Model No. ▶ TM3010C

Description ▶ Multi tool

CONCEPT AND MAIN APPLICATIONS

Model TM3010C has been developed based on model TM3000C and equipped with the tool-less accessory change system. Other features are the same as TM3000C.



Dimensions: mm (")	
Length (L)	283 (11-1/8)
Width (W)	68 (2-11/16)
Height (H)	87 (3-7/16)

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
110	3.1	50/ 60	320	115	260
120	3.0	50/ 60	---	115	260
220	1.5	50/ 60	320	115	260
230	1.5	50/ 60	320	115	260
240	1.4	50/ 60	320	115	260

Oscillations per minute: opm=min ⁻¹	6,000 - 20,000	
Oscillating multi tool accessories	Makita oscillating multi tool accessories equivalent to BOSCH OIS (Oscillating Interface System)	
Electronic control	Variable speed control by dial	Yes
	Soft start	Yes
	Constant speed control	Yes
	Anti-restart function	No
Protection against electric shock	Double insulation	
Power supply cord: m (ft)	All countries except North American countries: 5.0 (16.4), North American countries: 2.5 (8.2)	
Weight according to EPTA-Procedure 01/2003: kg (lbs)	1.6 (3.7)*1/ 1.7 (3.9)*2	

*1: without Sanding pad, Vacuum attachment

*2: with Sanding pad, Vacuum attachment

► Standard equipment

Oscillating multi tool accessories
[equivalent to BOSCH OIS (Oscillating Interface System)] 1
Dust attachment (for Sanding pad) 1 (for European countries only)
Tool box (for storing oscillating multi tool accessories) 1 (for some countries only)
Plastic carrying case or Tool bag 1 (for some countries only)

Note: The standard equipment for the tool shown above may vary by country.

► Optional accessories

Oscillating multi tool accessories [equivalent to BOSCH OIS (Oscillating Interface System)]
Tool box (for storing oscillating multi tool accessories)
Dust attachment set
Triangular abrasive papers (Hook & loop type)

► Repair

CAUTION: Repair the machine in accordance with “Instruction manual” or “Safety instructions”.

[1] NECESSARY REPAIRING TOOLS

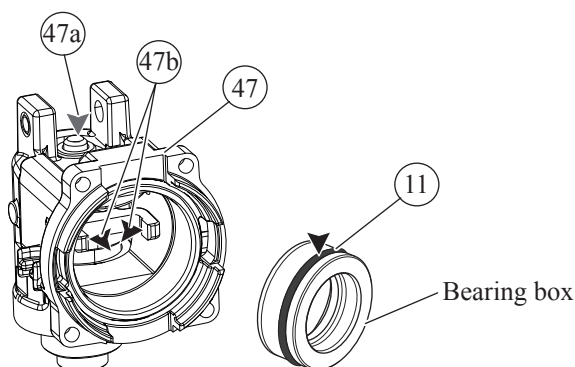
Code No.	Description	Use for
1R027	Bearing setting pipe 18-10.2	supporting Crank housing when removing Pin 5
1R233	Round bar for Arbor 4-100	removing Pin 5
1R269	Bearing extractor	removing the parts from the drive end of Armature shaft
1R291	Retaining ring S and R pliers	removing/ mounting Retaining ring S-7 from Armature shaft of drive end
1R306	Ring spring removing jig	removing Pin 5

[2] LUBRICATION

Apply **Makita grease N. No.2** to the portions designated with the gray triangle, and **MAKITA Grease FA No.2** to the portions designated with the black triangle to protect parts and product from unusual abrasion..

Item No.	Description	Portion to lubricate	Grease	Amount
④7	Crank housing complete	④7a): Driver portion	▼: MAKITA Grease N No.2	a little
		④7b): Connector portion	▼: MAKITA Grease FA No.2	a little
①1	O ring 35	Whole portion		a little

Fig. 1



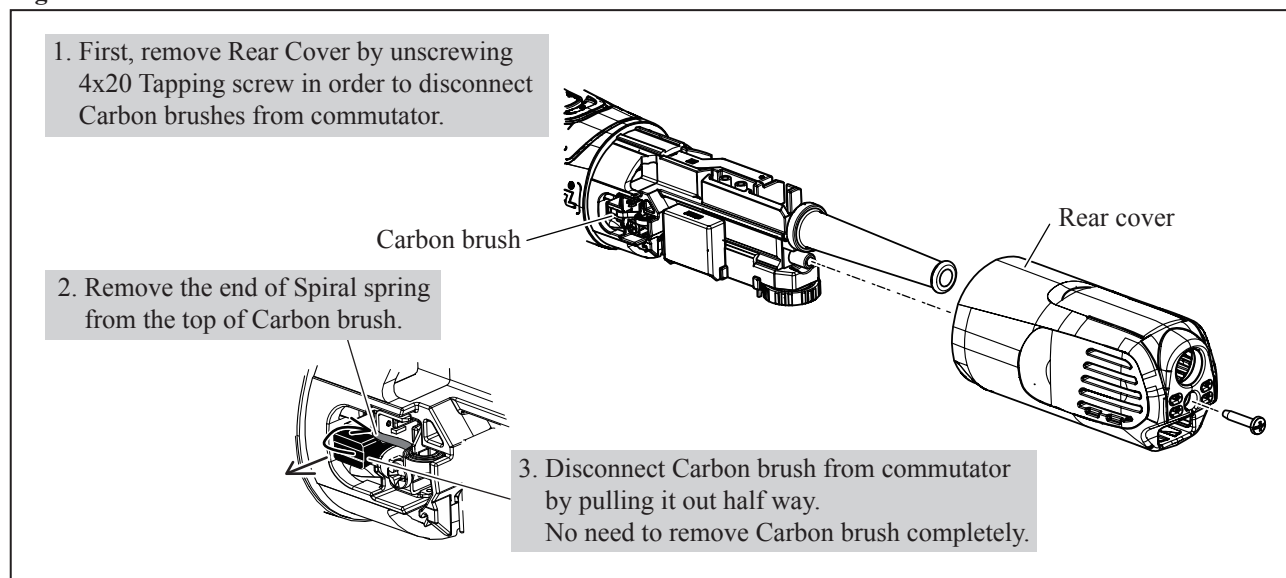
[3] DISASSEMBLY/ASSEMBLY

[3] -1. Armature

DISASSEMBLING

(1) Disconnect Carbon brush from Armature's commutator as drawn in **Fig. 2**.

Fig. 2



► **Repair**

[3] DISASSEMBLY/ASSEMBLY

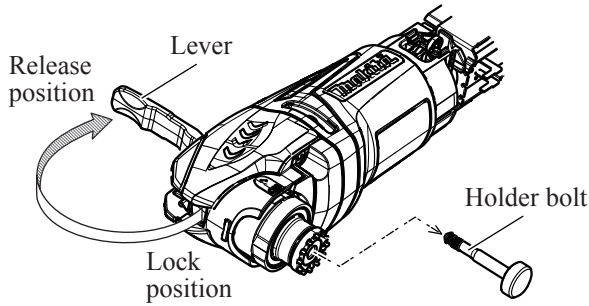
[3] -1. Armature (cont.)

DISASSEMBLING

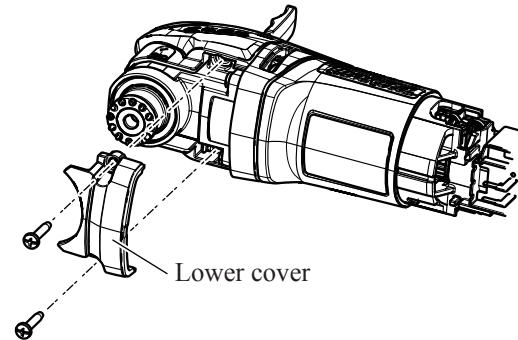
(2) Disassemble Armature as drawn in **Fig. 3**.

Fig. 3

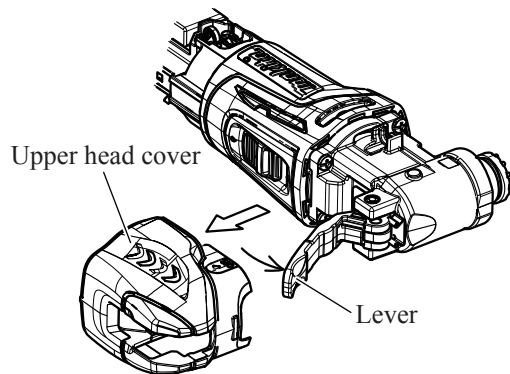
1. Shift Lever fully to the release position from the lock position, then pull off Holder bolt.



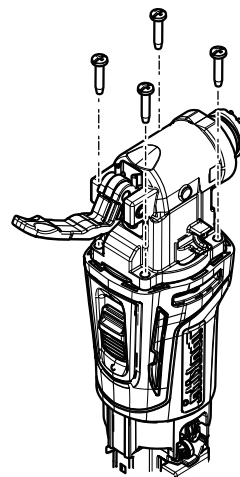
2. Remove Lower cover by unscrewing two 4x20 Tapping screws.



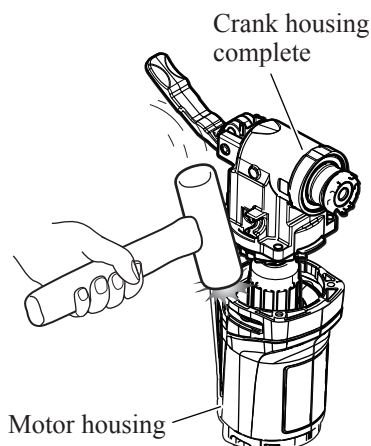
3. Return Lever a little to the lock position, then remove Upper head cover.



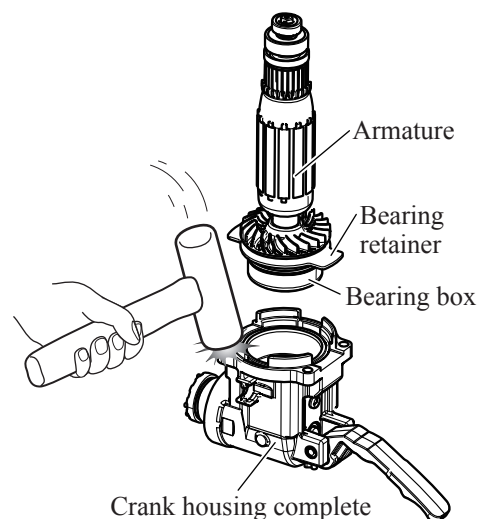
4. Remove four 4x20 Tapping screws.



5. Separate Crank housing complete together with Armature by tapping the edge of Motor housing.



6. Remove Armature section by tapping the edge of Crank housing complete.



► **Repair**

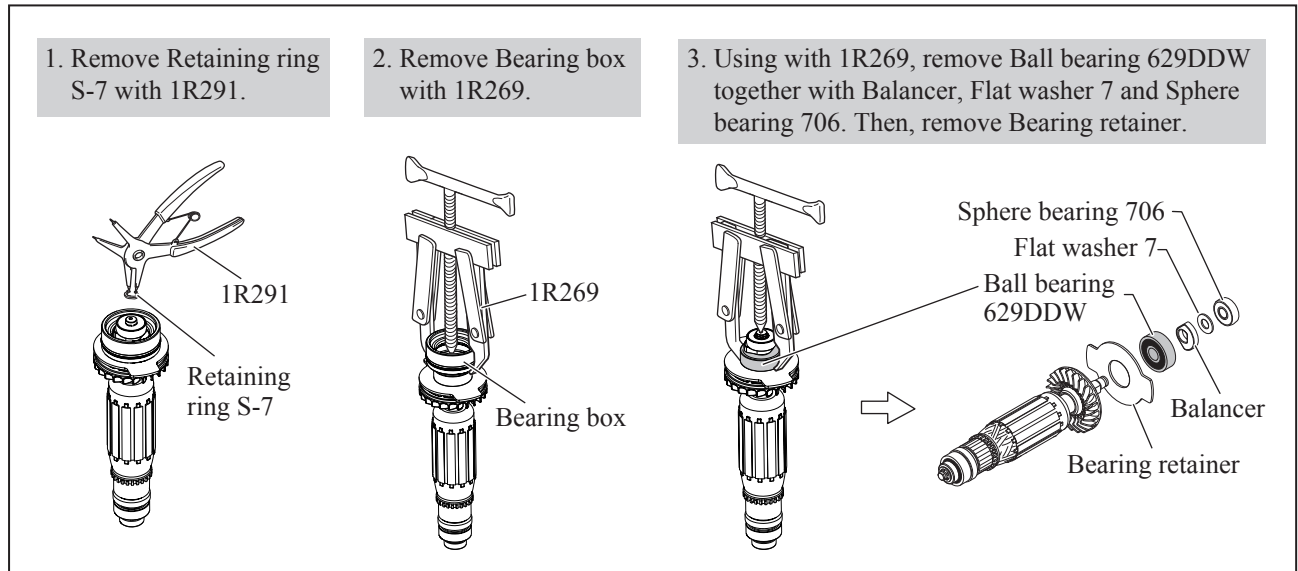
[3] DISASSEMBLY/ASSEMBLY

[3] -1. Armature (cont.)

DISASSEMBLING

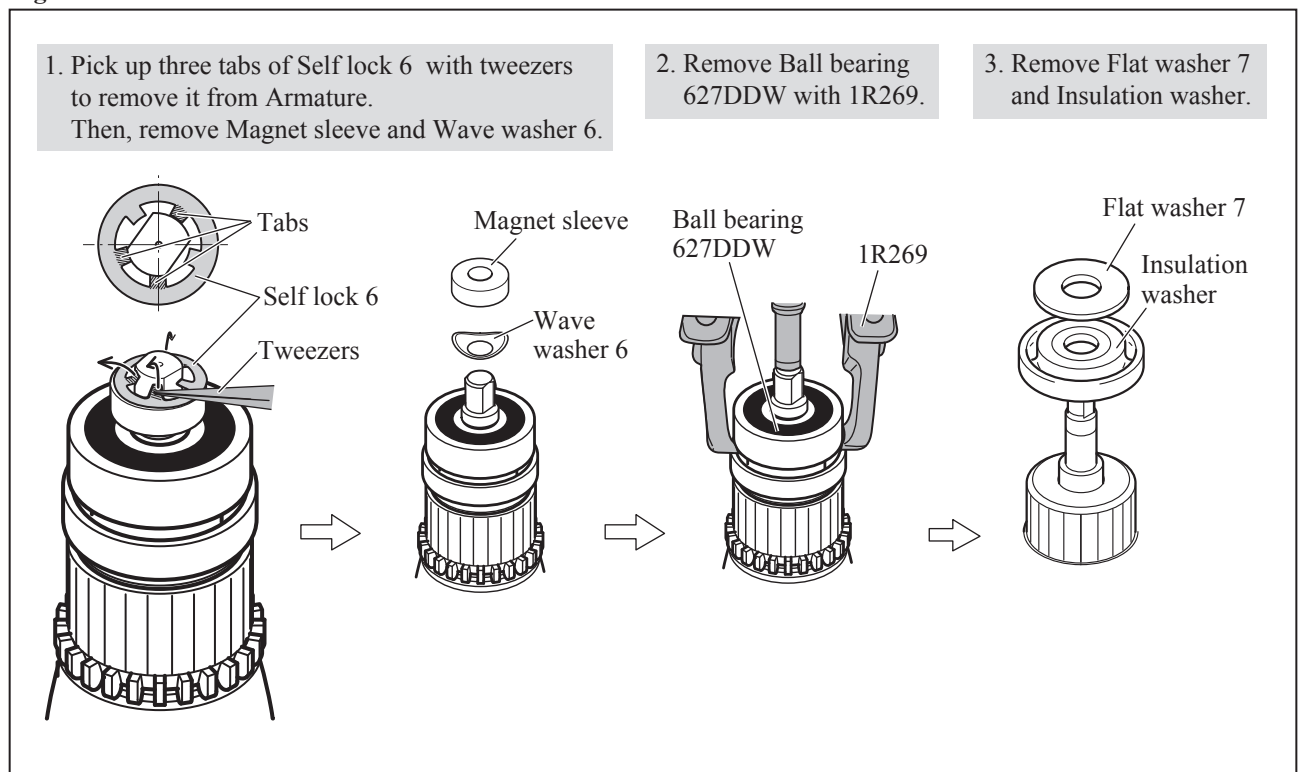
(3) Disassemble the drive end of Armature as drawn in **Fig. 4**.

Fig. 4



(4) Remove the commutator end of Armature as drawn in **Fig. 5**.

Fig. 5



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -1. Armature (cont.)

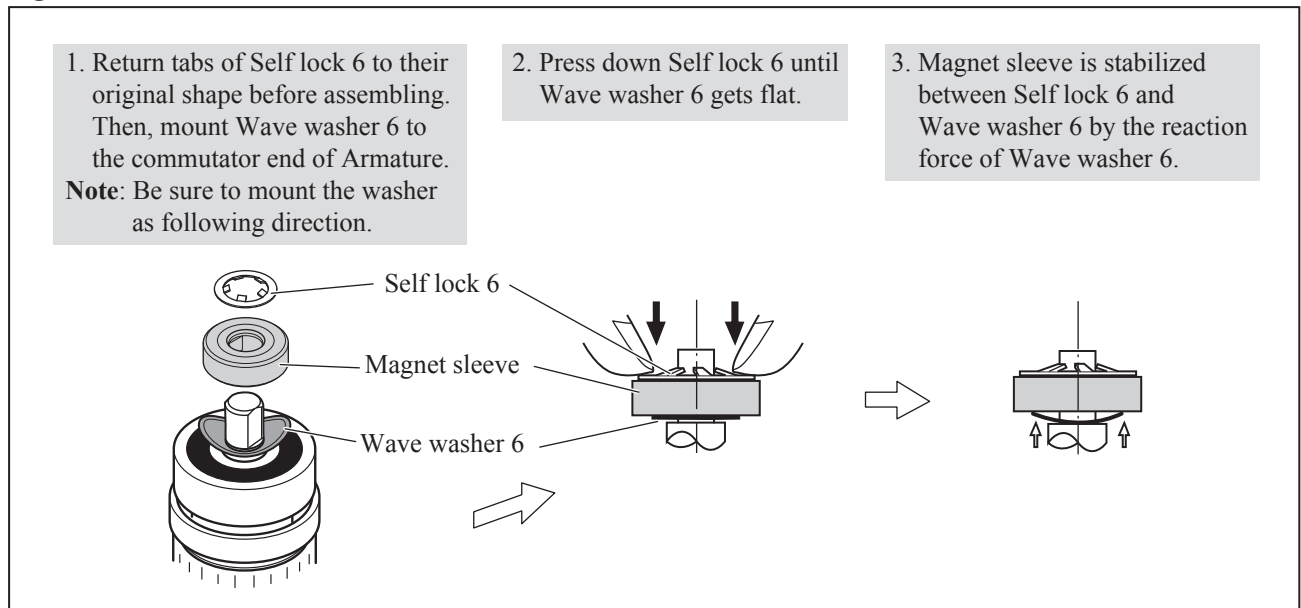
ASSEMBLING

(1) Assemble Insulation washer, Flat washer 7 and Ball bearing 627DDW to Armature end by reversing the disassembly procedure. (Refer to **Fig. 5**)

Then, assemble Wave washer 6 and Magnet sleeve, and then secure them with Self lock 6. (**Fig. 6**)

Note: Wave washer 6 is directional when assembling to Armature end. Be sure to mount the washer with the concave side facing Magnet as following direction.

Fig. 6



(2) Assemble the component parts to the drive end of Armature by reversing the disassembly procedure. (Refer to **Fig. 4**)

(3) Assemble Armature section to Crank housing complete as drawn in **Fig. 8**.

Note: For easy assembling of Armature section, heat Crank housing complete with a heat gun after setting Connector as drawn in **Fig. 7**.

Fig. 7

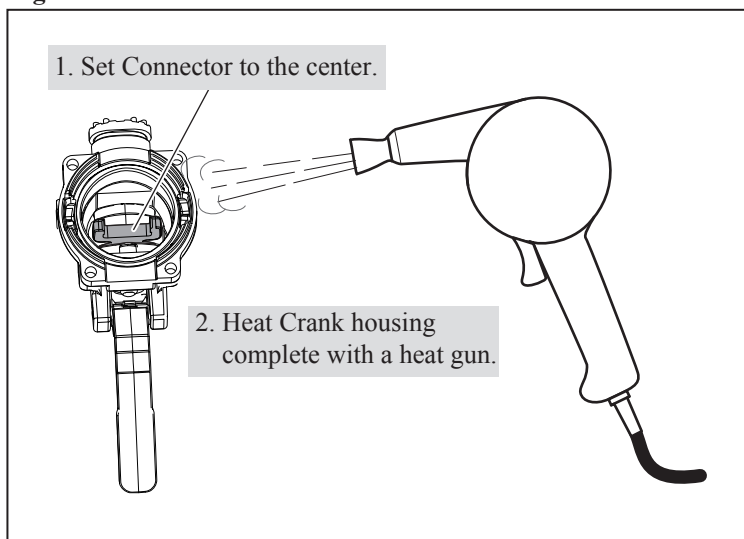
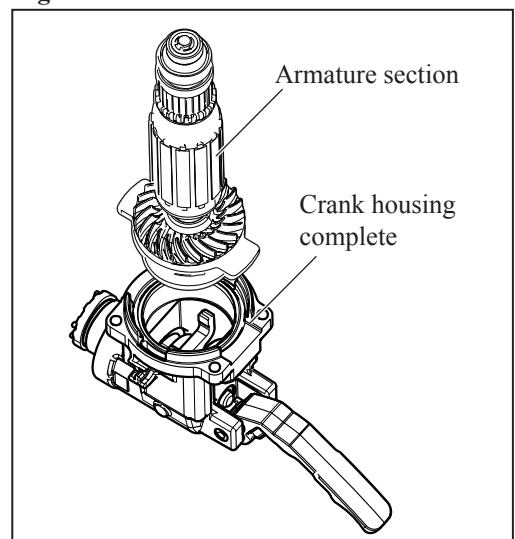


Fig. 8



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -2. Crank housing complete

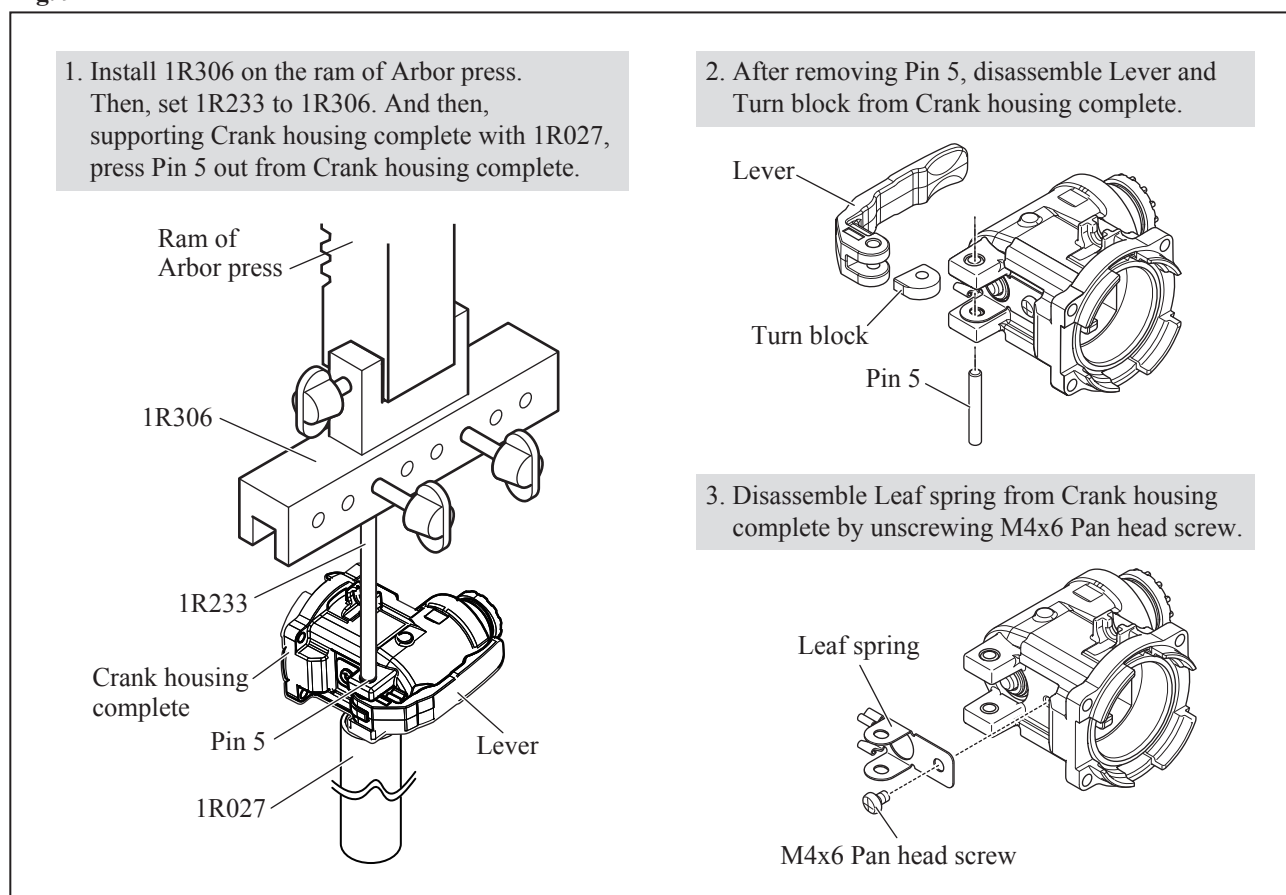
DISASSEMBLING

(1) Disassemble Crank housing complete as drawn in **Figs. 2 and 3**.

Note: Holder bolt has to be removed before disassembling Lever. (See the **top** illustration in **Fig. 3**.)

(2) Disassemble Lever from Crank housing complete as drawn in **Fig. 9**.

Fig. 9



ASSEMBLING

(1) Fasten Lever to Crank housing complete with M4x16 Tapping screw. (Refer to **lower right** illustration in **Fig. 9**.)

(2) Set Turn block to Lever as drawn in **Fig.10**.

(3) Assemble Lever portion to Crank housing complete with Pin 5 as drawn in **Fig. 11**.

Fig.10

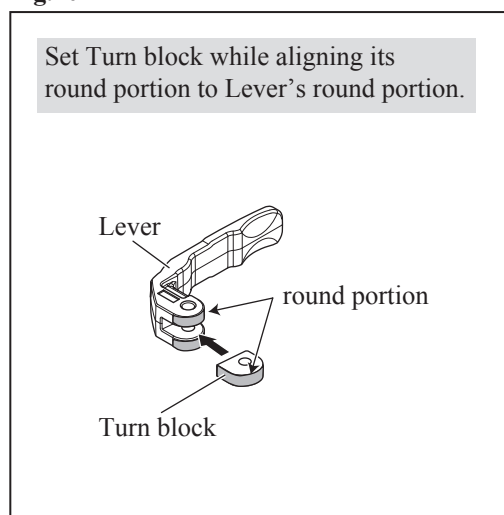
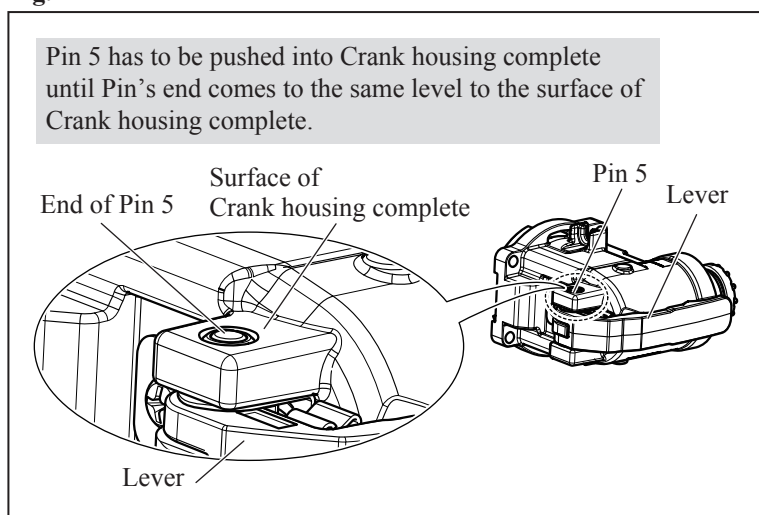


Fig. 11



► Repair

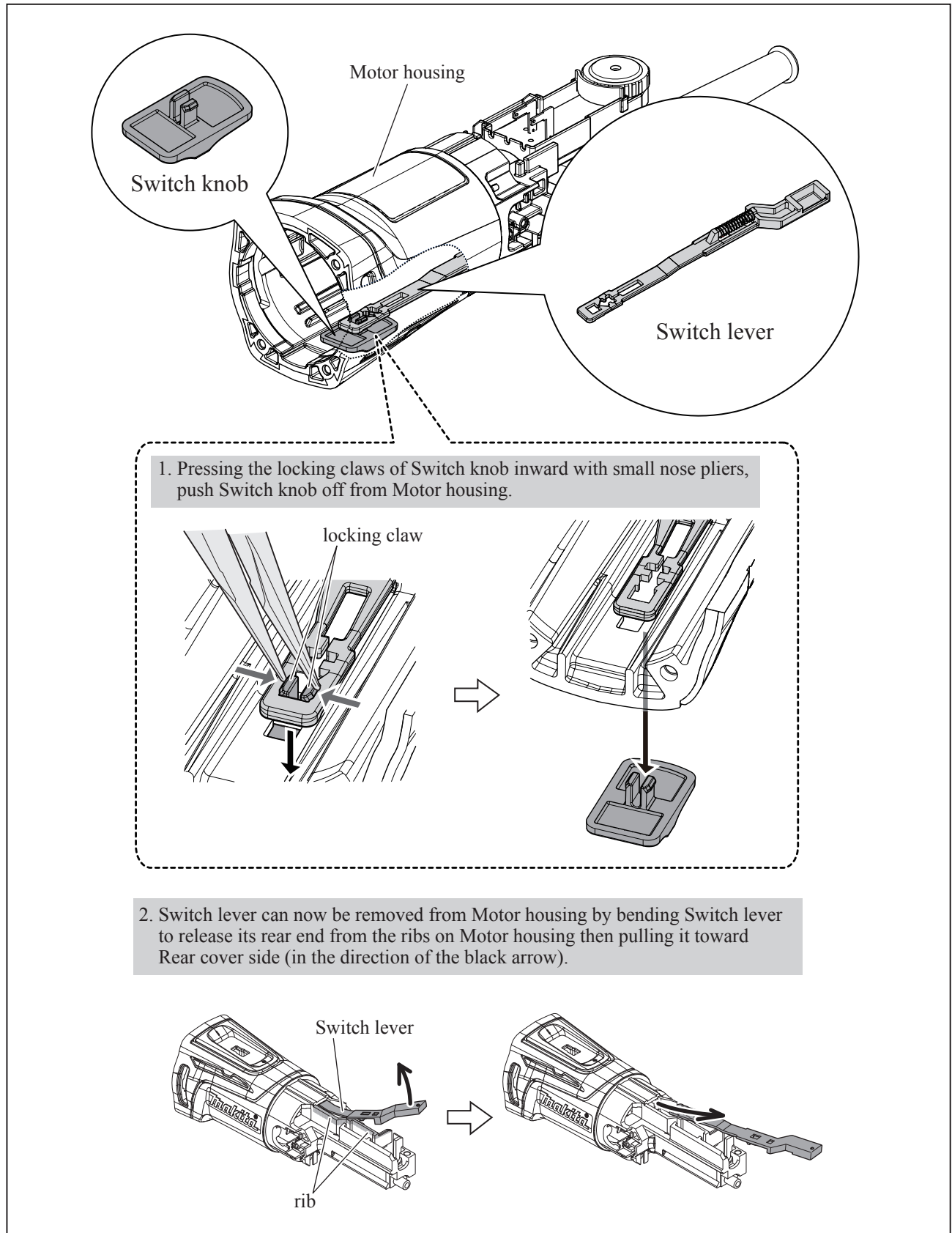
[3] DISASSEMBLY/ASSEMBLY

[3] -3. Switch lever

DISASSEMBLING

(1) Remove Switch knob and Switch lever. (Fig. 12)

Fig. 12



► **Repair**

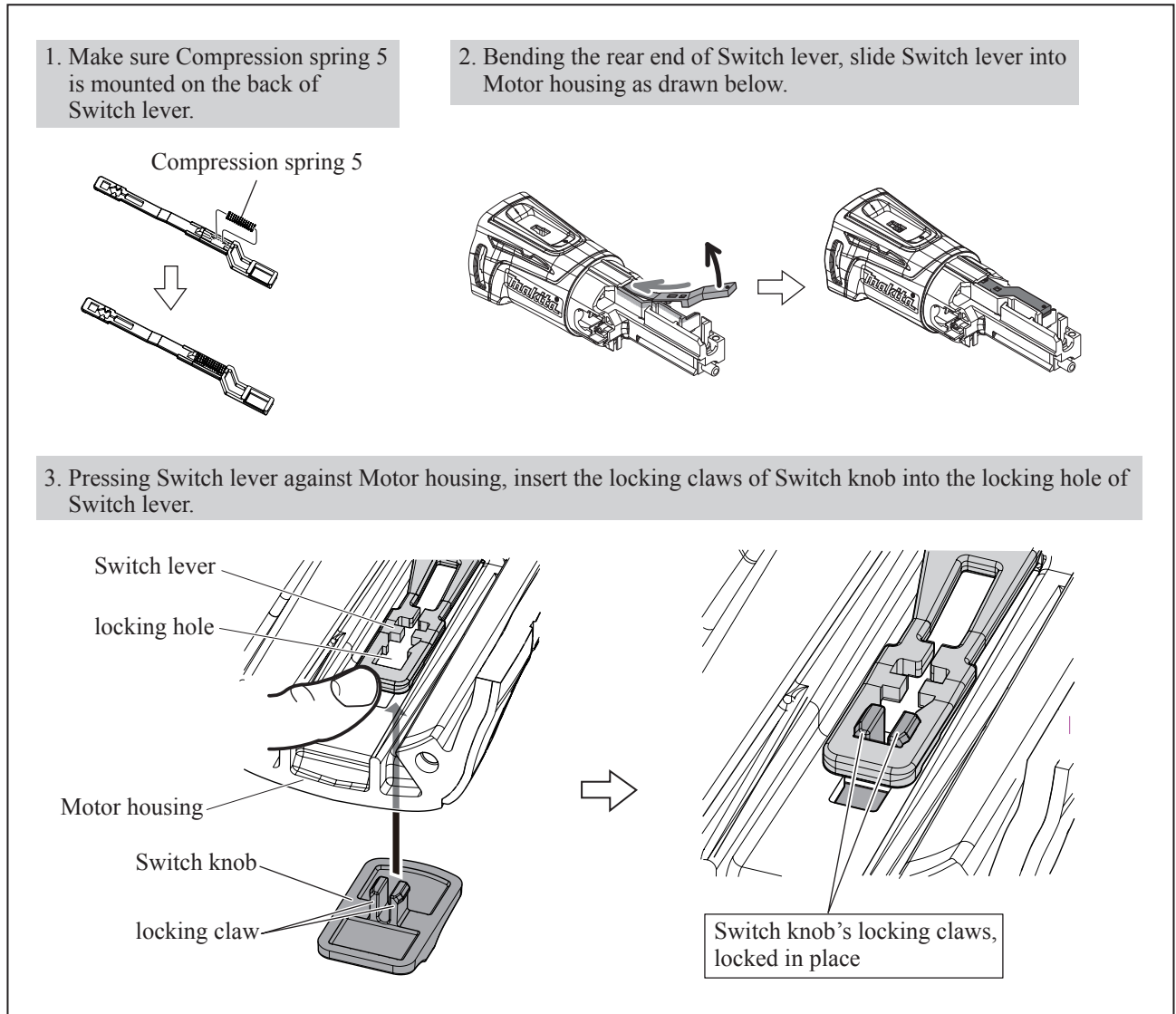
[3] DISASSEMBLY/ASSEMBLY

[3] -3. Switch lever (cont.)

ASSEMBLING

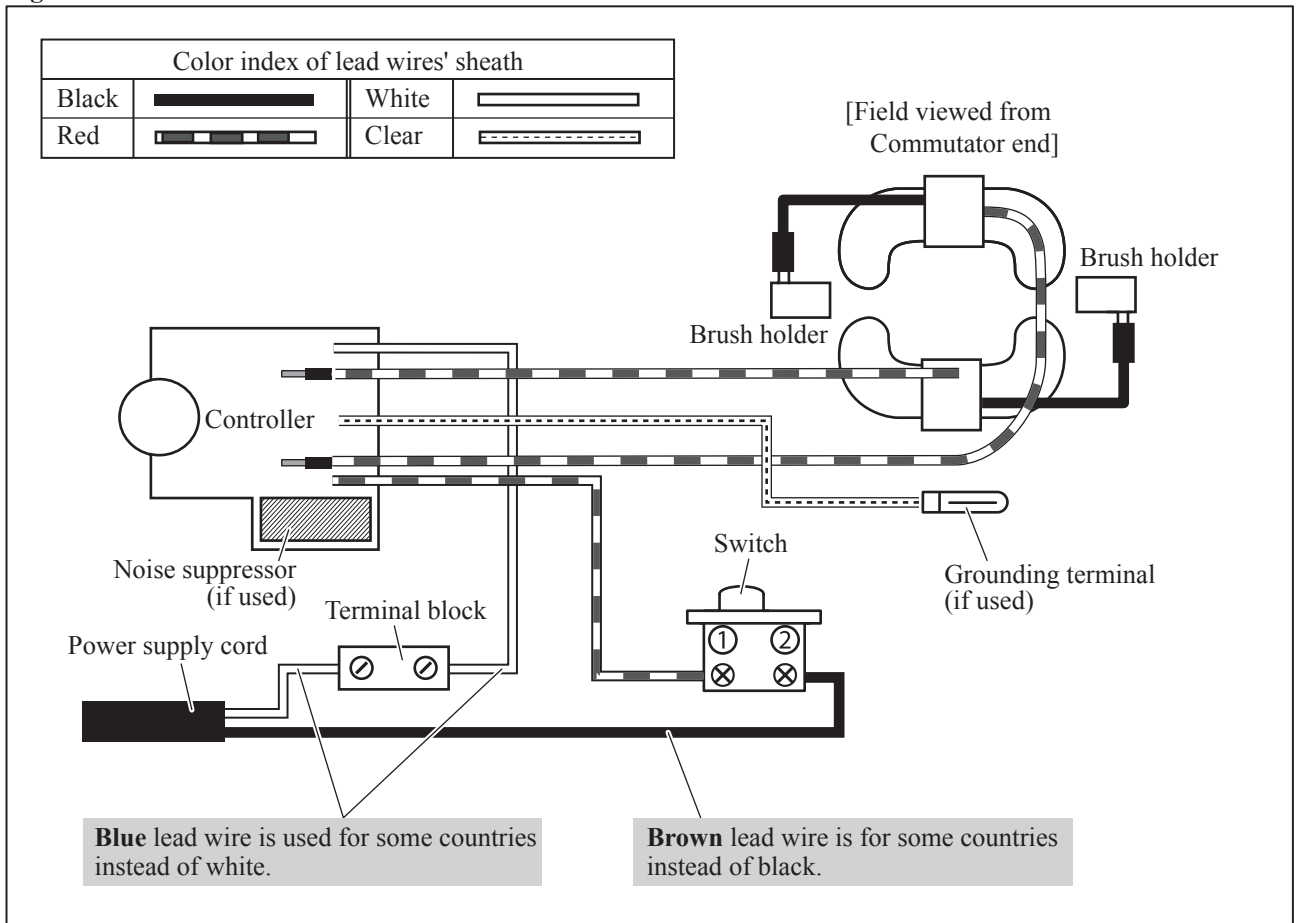
(1) Mount Switch lever and Switch knob on Motor housing. (**Fig. 13**)

Fig. 13



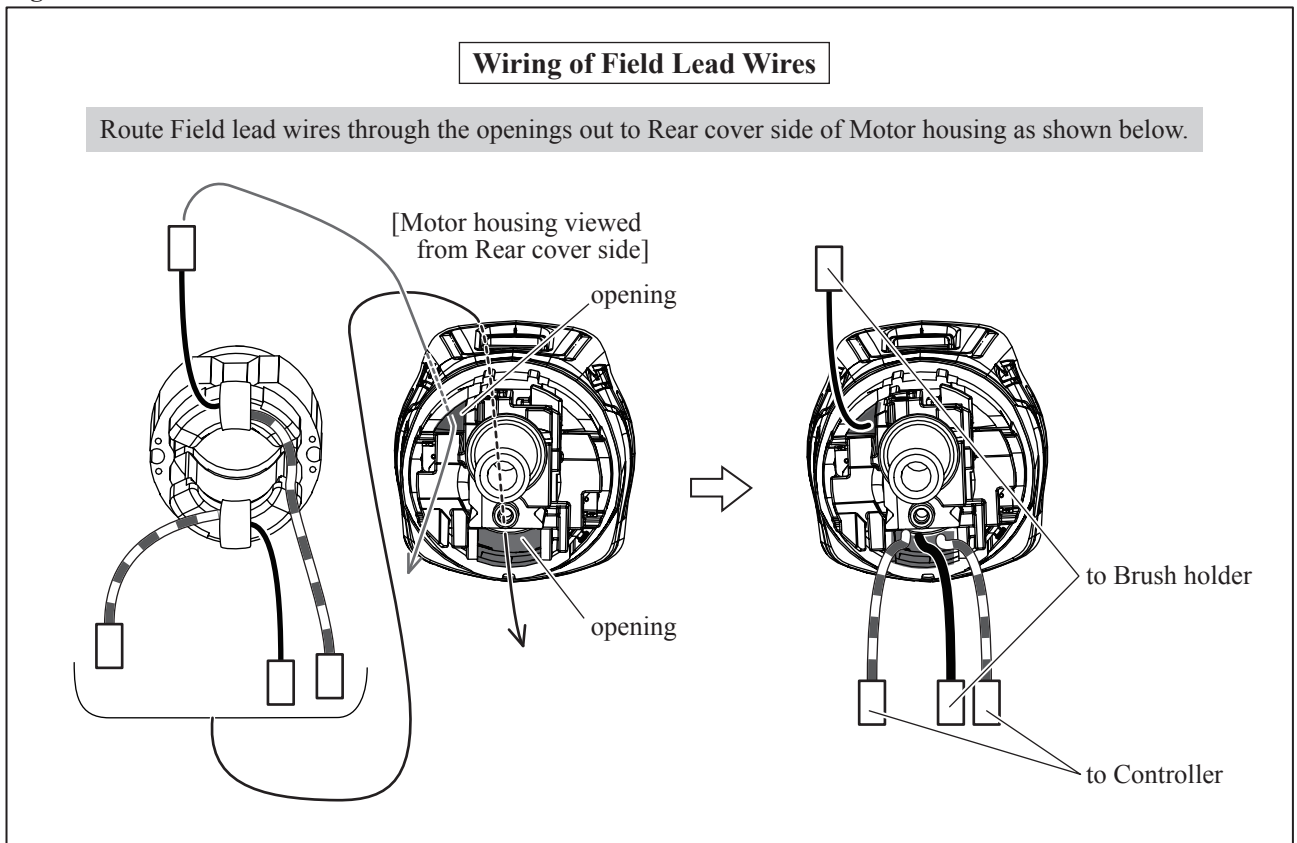
► **Circuit diagram**

Fig. D-1



► **Wiring diagram**

Fig. D-2



► **Wiring diagram**

Fig. D-3

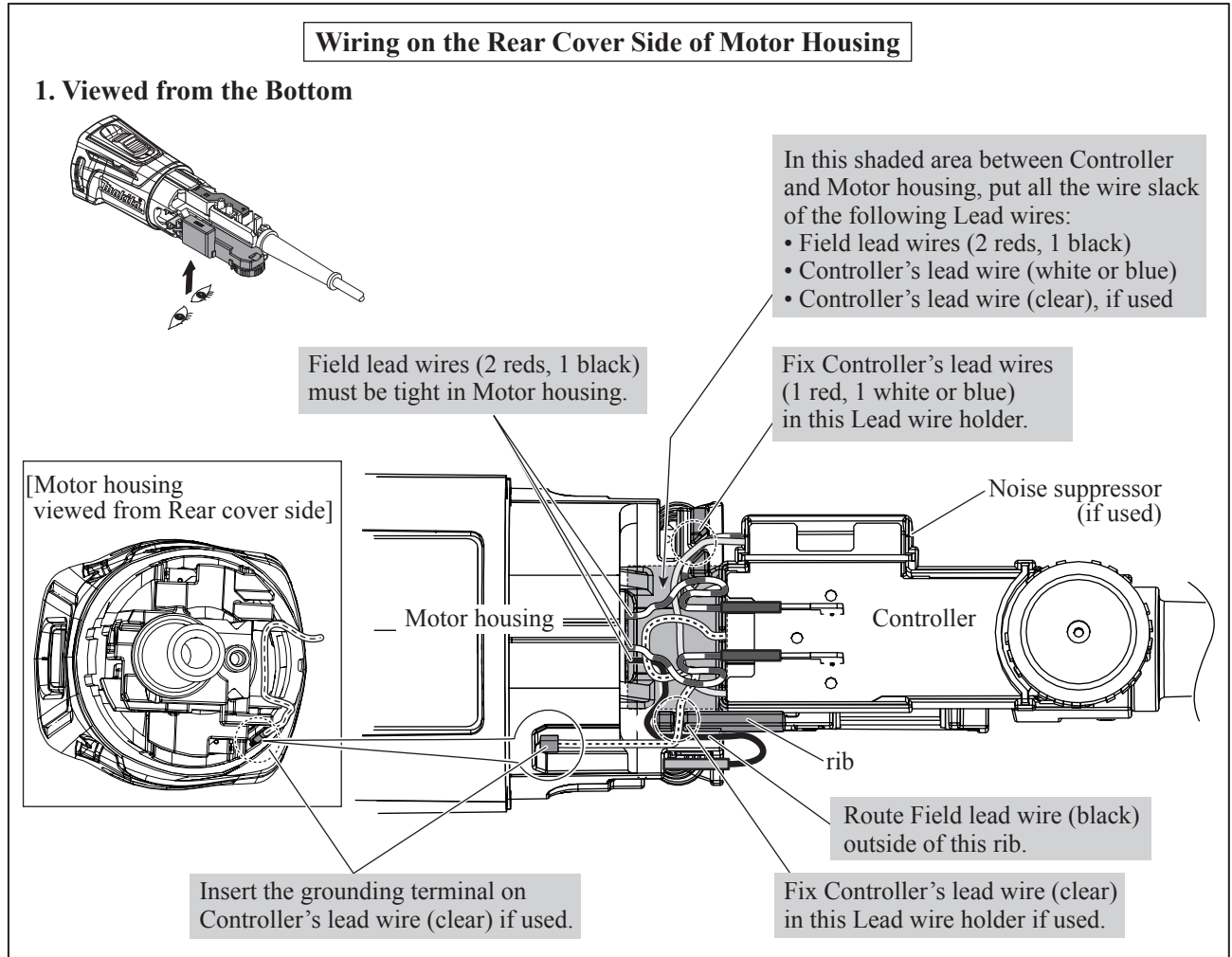
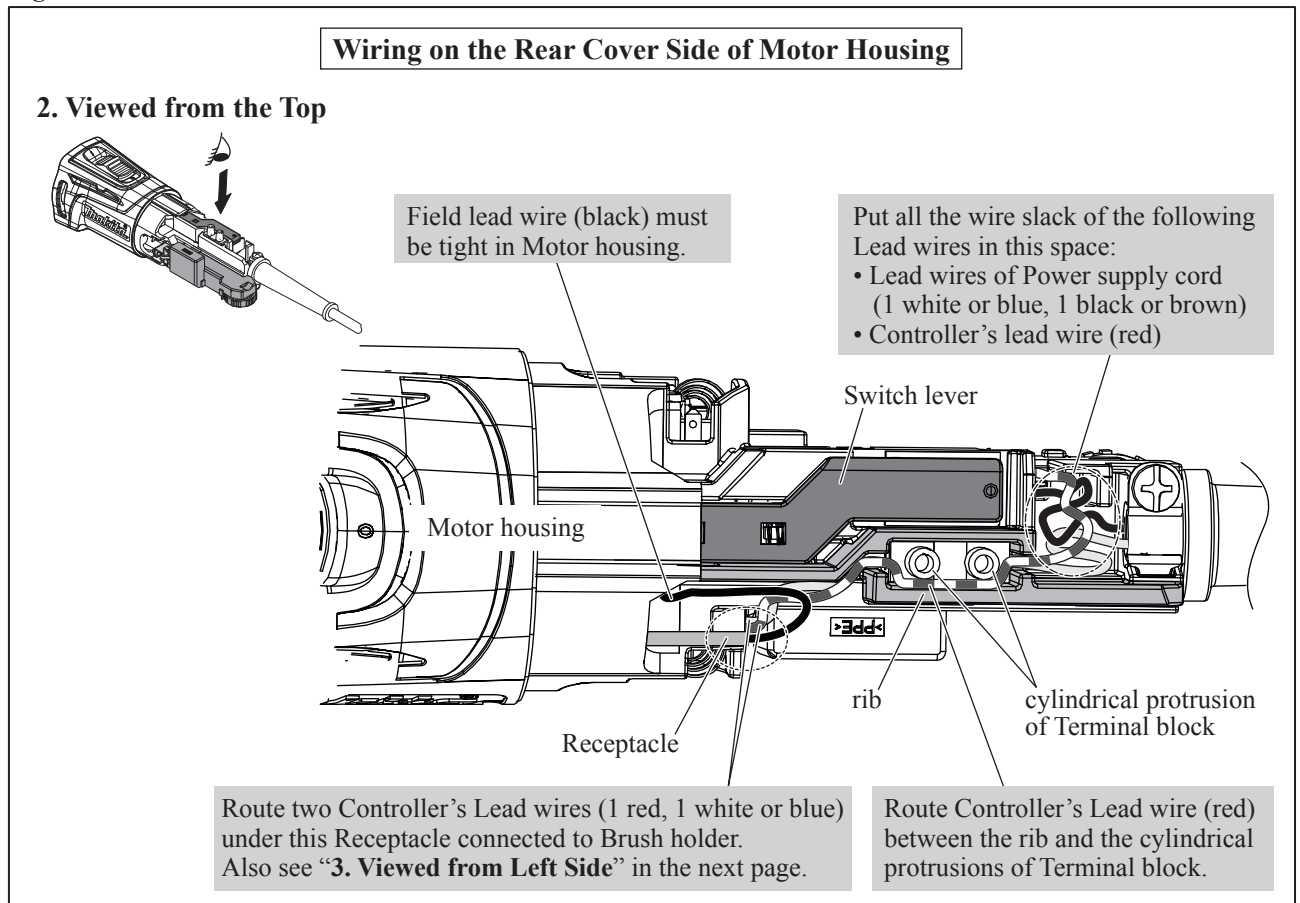


Fig. D-4



▶ **Wiring diagram**

Fig. D-5

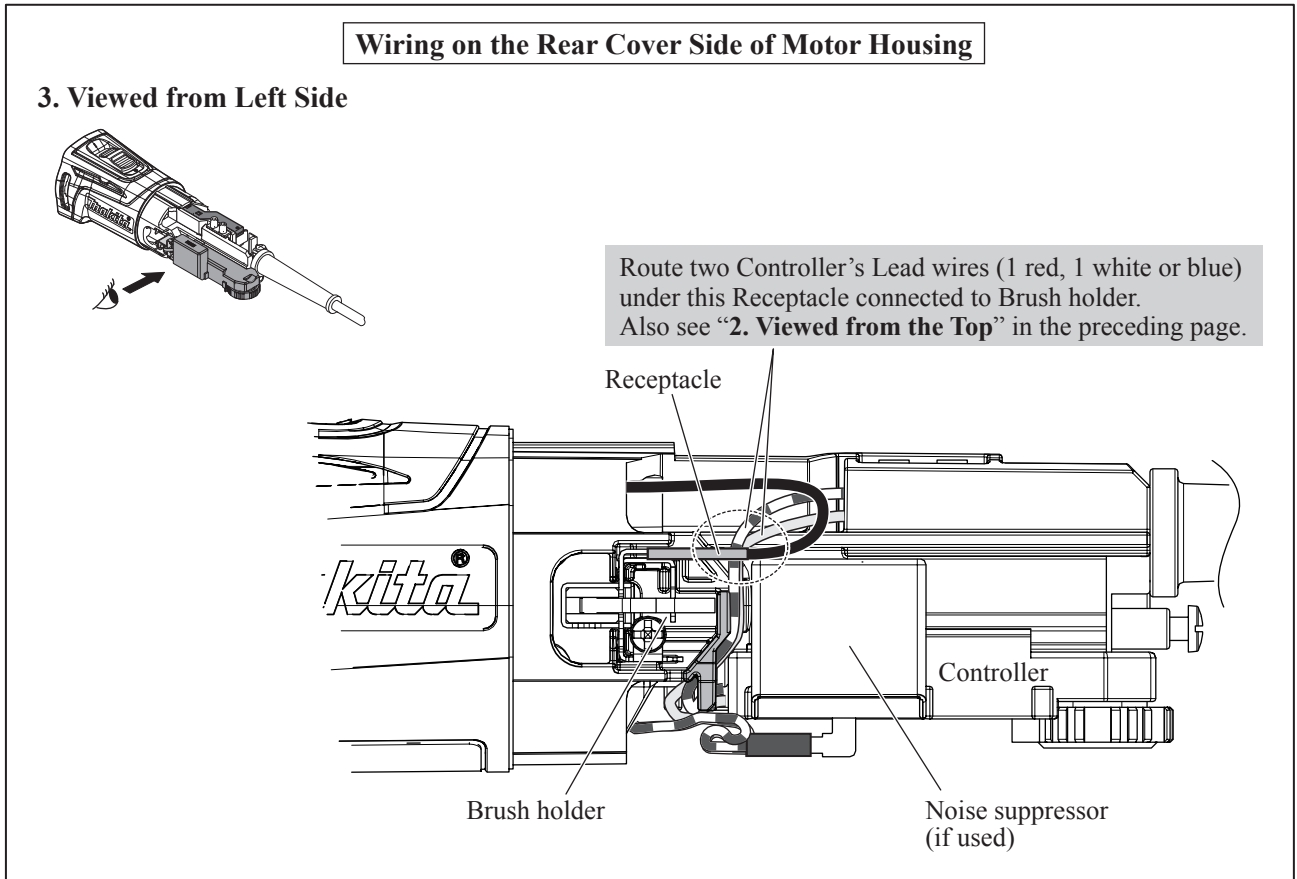


Fig. D-6

