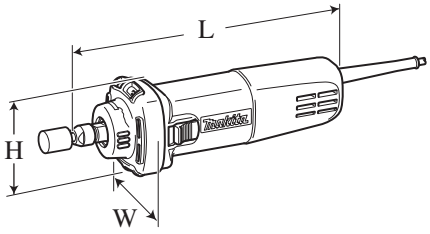
TECHNICAL INFORMATION

Model No. ► GD0602

Description ► Die Grinder



Dimensions: mm (")	
Length (L)	264 (10-3/8)
Width (W)	82 (3-1/4)
Height (H)	82 (3-1/4)

CONCEPT AND MAIN APPLICATIONS

Model GD0602 is a sister tool of GD0601, featuring compact design with short nose ideal for precision grinding.
Also features the same benefits as Model GD0601:

- Anti-dust motor section
- Small circumference housing, easy-to-grip
- Slide switch, conveniently located
- Round collet nut

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
110	3.8	50/60	400	250	300
120	3.5	50/60	---	250	300
220	1.9	50/60	400	250	300
230	1.8	50/60	400	250	300
240	1.8	50/60	400	250	300

Collet size	3mm 6mm 8mm 1/8" 1/4"
No load speed: min-1=rpm	25,000
Max wheel diameter: mm (")	38 (1-1/2)
Double insulation	Yes
Power supply cord: m (ft)	Australia, Brazil: 2.0 (6.6) Other countries: 2.5 (8.2)
Net weight: kg (lbs)	1.4 (3.1)
Weight according to EPTA-Procedure 01/2003*: kg	1.4

* with Collet cone, Collet nut; without Power supply cord

► Standard equipment

Wrench 13 2
Collet cone 6mm or 1/4" 1
Collet cone 3mm or 1/8" ..... 1 (if required)

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

► Optional accessories

Collet cones (3mm, 6mm, 8mm, 1/4", 1/8")
Side handle
Wheel points

► Repair

CAUTION: Remove the wheel point from the machine and disconnect the plug from the outlet for safety before repair/ maintenance in accordance with the instruction manual!

[1] NECESSARY REPAIRING TOOLS

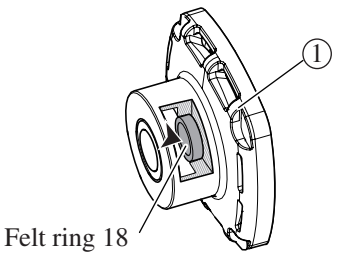
Code No.	Description	Use for
1R029	Bearing Setting pipe 23-15.2	Installing Bush 15 to Bearing box complete
1R217	Ring 24	Supporting Bearing box when assembling Armature
1R269	Bearing Extractor (small)	Removing Ball bearing from Commutator end of Armature
1R281	Round Bar for Arbor 7-50	Locking Switch knob when Removing Switch lever B
1R291	Retaining Ring S and R Pliers	Removing / Installing of Retaining ring R-32

[2] LUBRICATIONS

Apply Lubricant oil "VG100" to the following portions designated with the black triangle to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Lubricant	Amount
①	Bearing box complete	Felt ring 18 (a component of Bearing box complete) for smooth rotation of Spindle (Armature shaft)	VG100	suitable amount to soak up Felt ring 18

Fig. 1



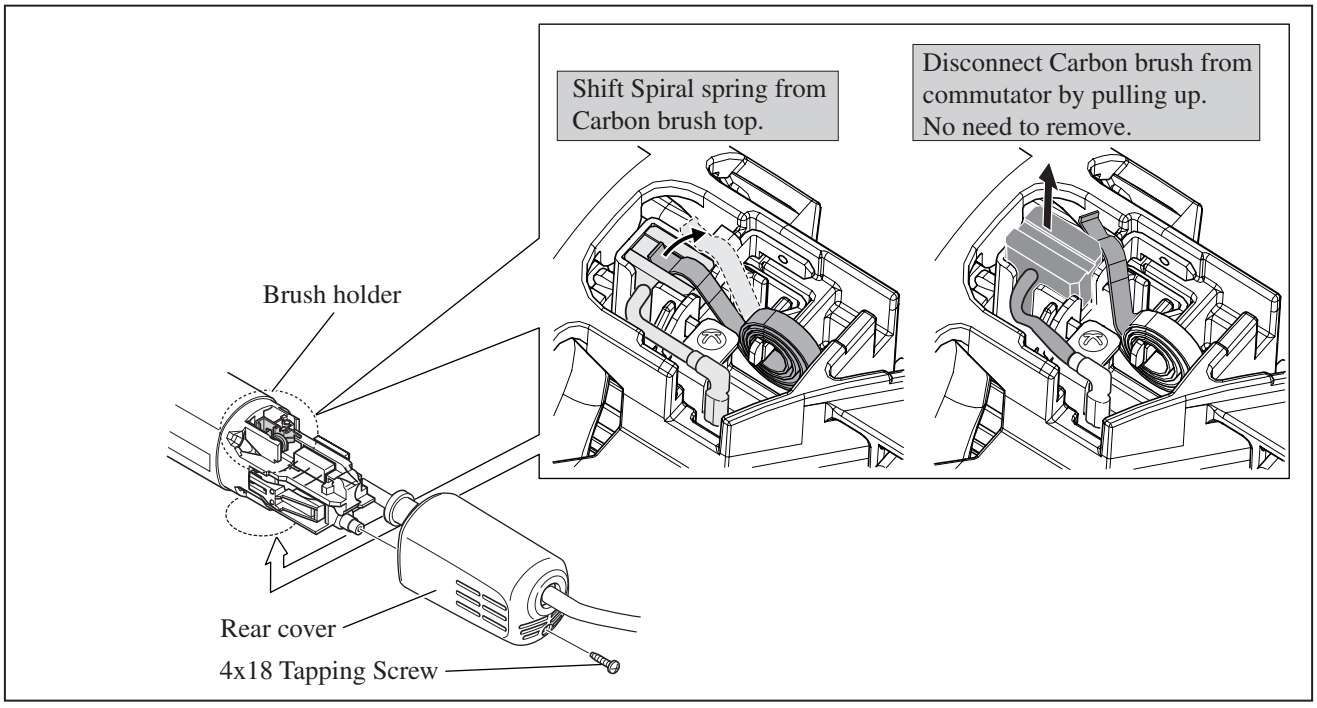
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Armature

DISASSEMBLING

(1) Remove Rear cover by unscrewing 4x18 Tapping screw.
(2) To avoid scratching on commutator of armature, disconnect Carbon brushes from commutator.
Refer to **Fig. 2**.

Fig. 2



Repair

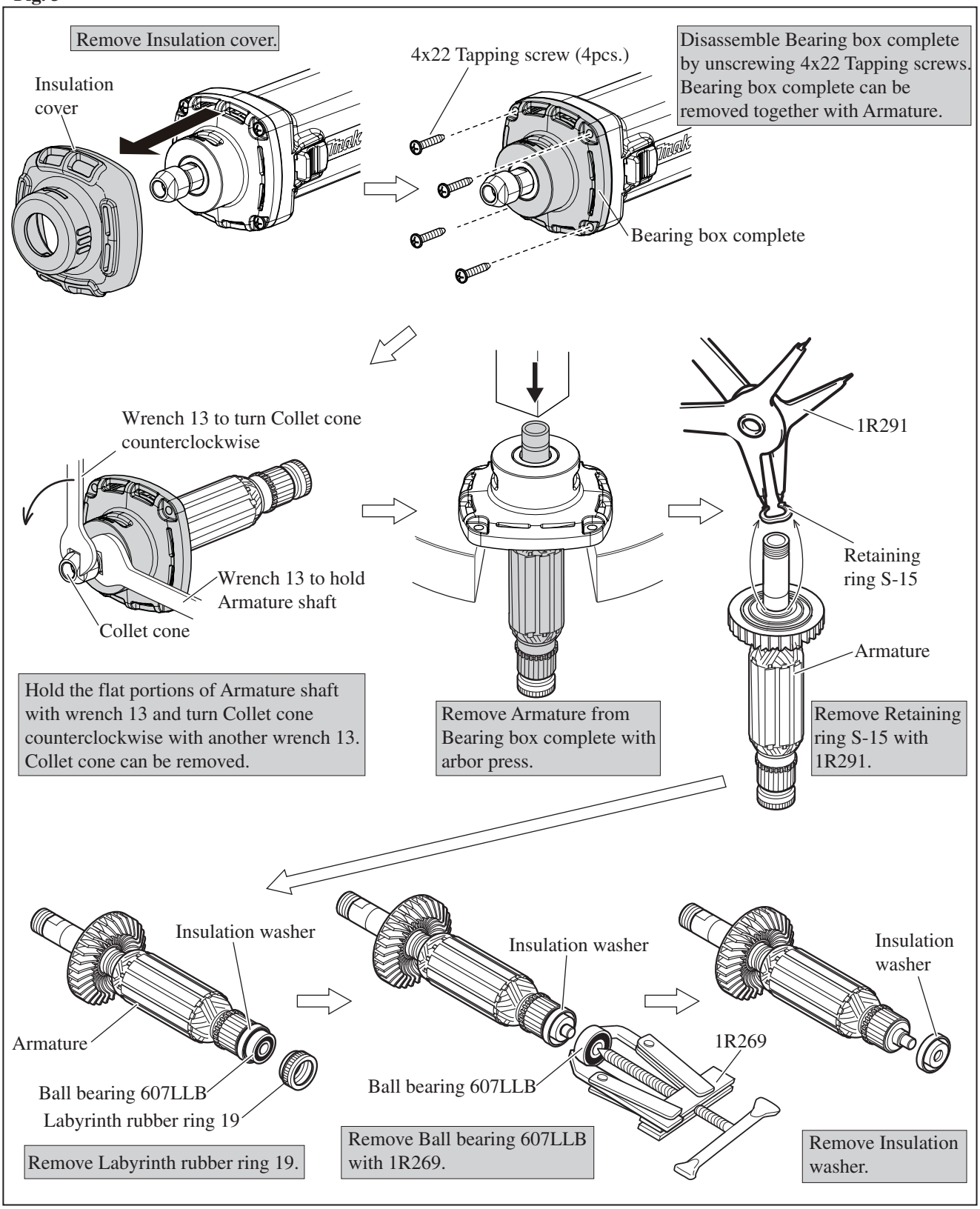
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Armature (cont.)

DISASSEMBLING

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

Fig. 3



ASSEMBLING

Do the reverse step of Disassembling. Refer to **Fig. 3**, **Fig. 2**.

Repair

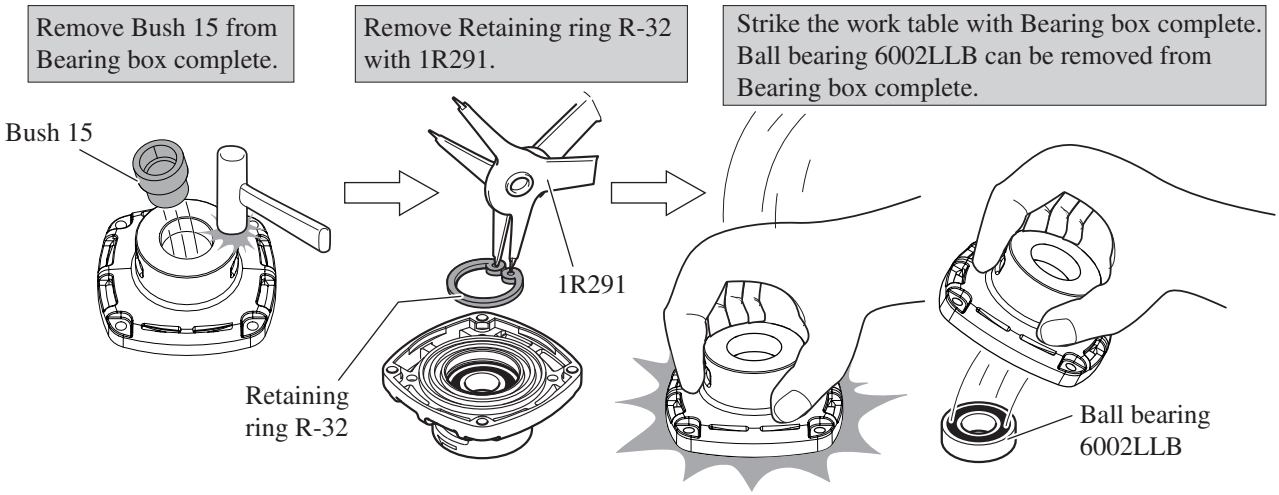
[3] DISASSEMBLY/ASSEMBLY

[3]-2. Bearing Box Complete

DISASSEMBLING

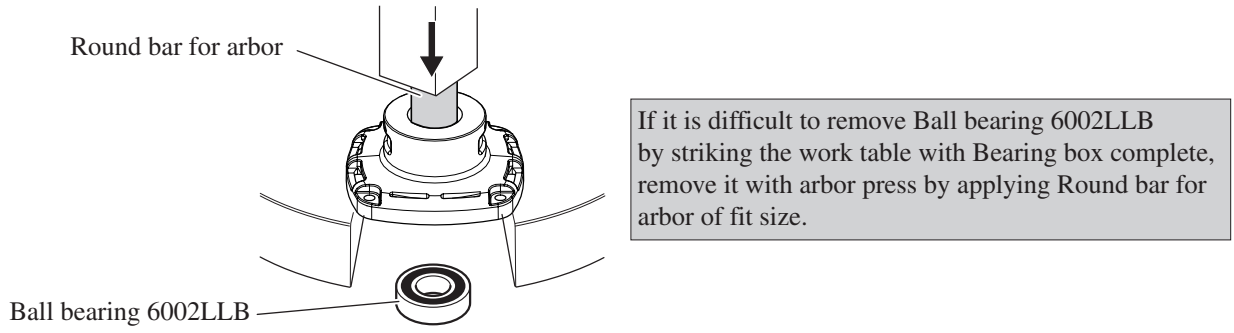
(1) Remove Armature as illustrated in **Fig. 2, Fig. 3**.
(2) Remove Bush 15, retaining ring R-32 and Ball bearing 6002LLB from Bearing box complete as illustrated in **Fig. 4** or **Fig. 4A**.

Fig. 4



Note: Cover the work table with something soft to avoid the damage on Bearing box complete before disassembling.

Fig. 4A



Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-2. Bearing Box Complete

ASSEMBLING

(1) Fit Ball bearing 6002LLB into Bearing box complete. and then secure Ball bearing 6002LLB with Retaining ring R-37. **Refer to Fig. 4**.
(2) Assemble Armature and Bush 15 to Bearing box complete as illustrated in **Figs. 5 and 6**.
(3) Assemble Bearing box complete to Motor housing as illustrated in **Fig. 7**.

Fig. 5

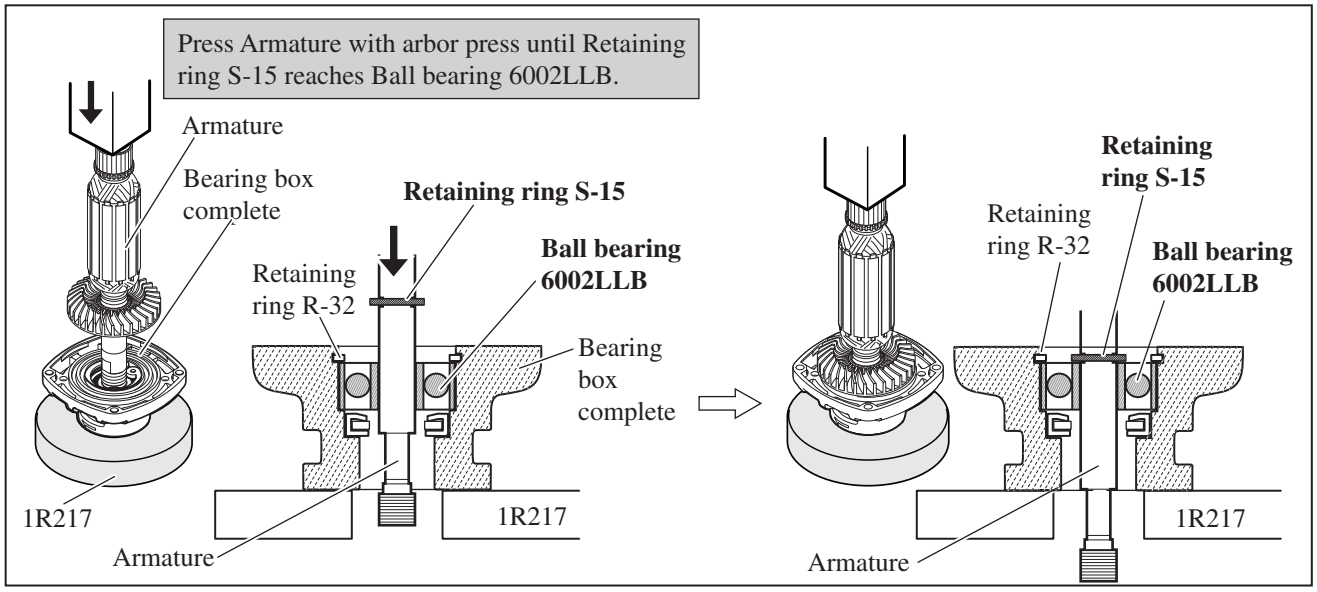


Fig. 6

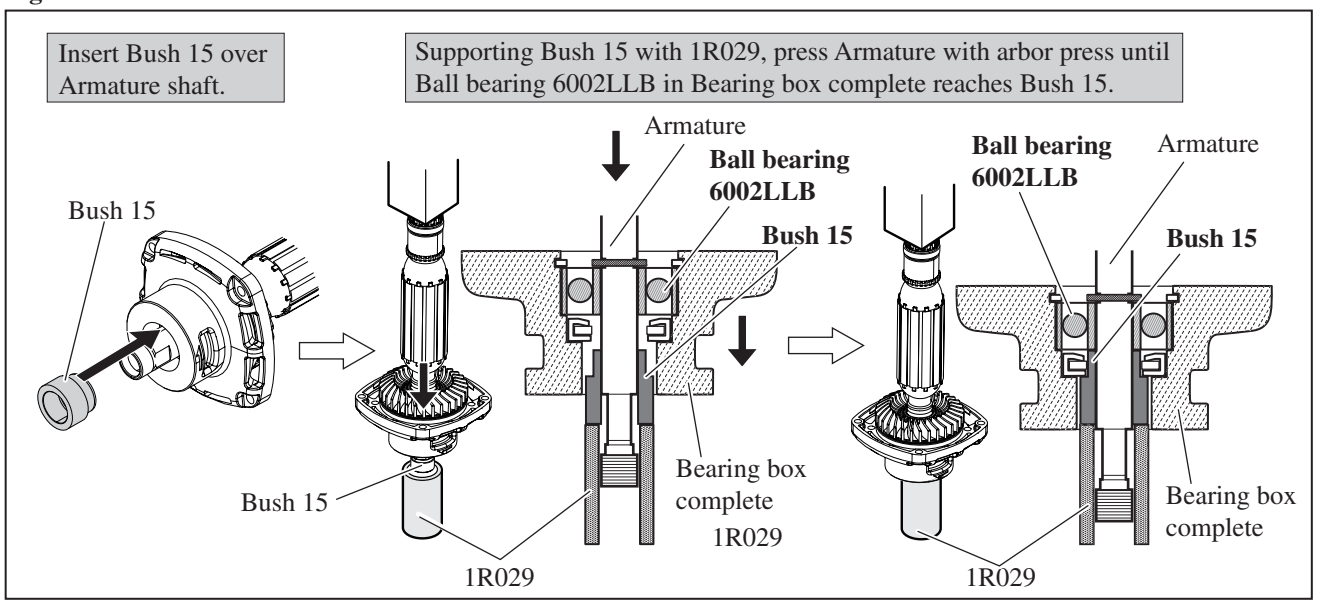
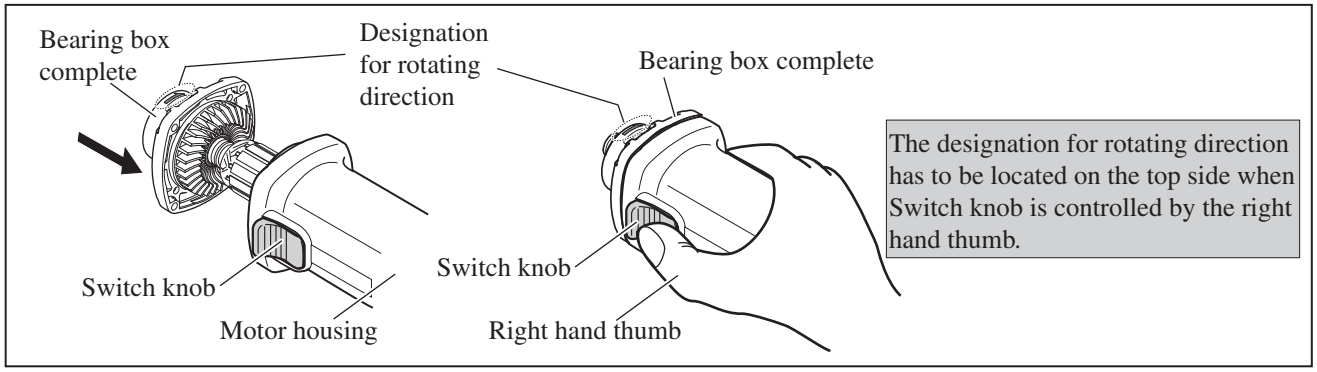


Fig. 7



► Repair

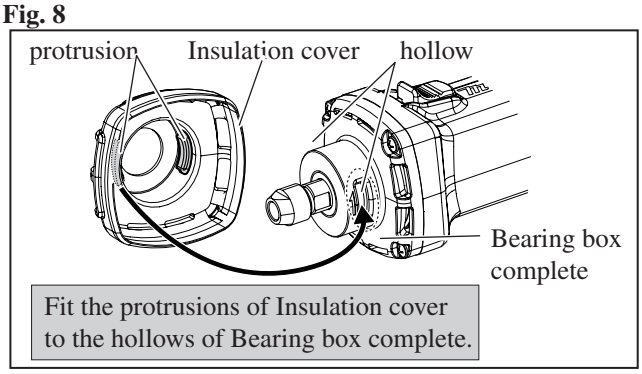
[3] DISASSEMBLY/ASSEMBLY

[3]-2. Bearing Box Complete

ASSEMBLING

(4) Install Insulation cover to Bearing box complete as illustrated in **Fig. 8**.
(5) Reverse the disassembling step. Refer to **Fig. 3** and **2**.

Fig. 8



[3]-3. Removing Switch Lever B

(1) Disassemble Rear Cover from Motor housing by unscrewing 4x18 Tapping screw as illustrated in **Fig. 2**.
(2) Remove Switch knob from Switch lever B and pull out Switch lever B from Motor housing as illustrated in **Fig. 9**. Switch knob can be assembled as illustrated in **Fig. 10**.

Fig. 9

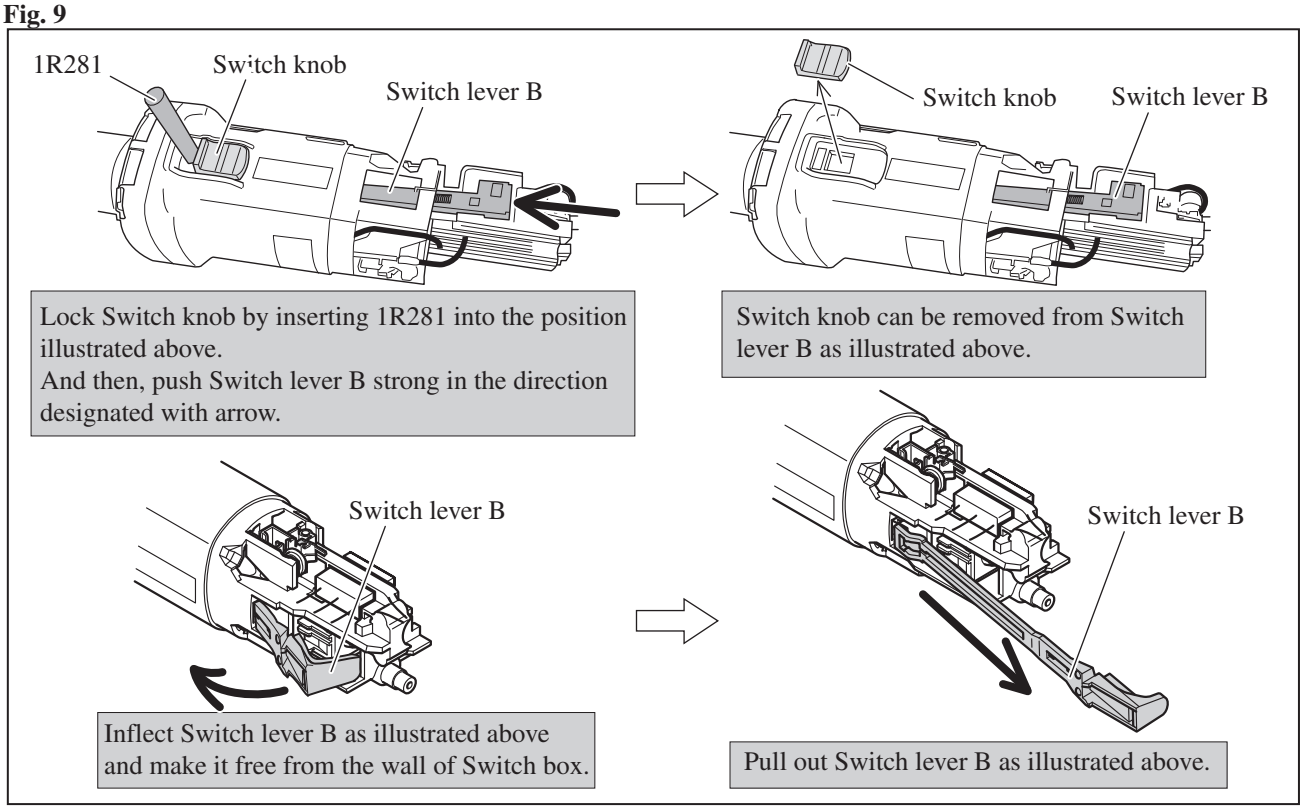
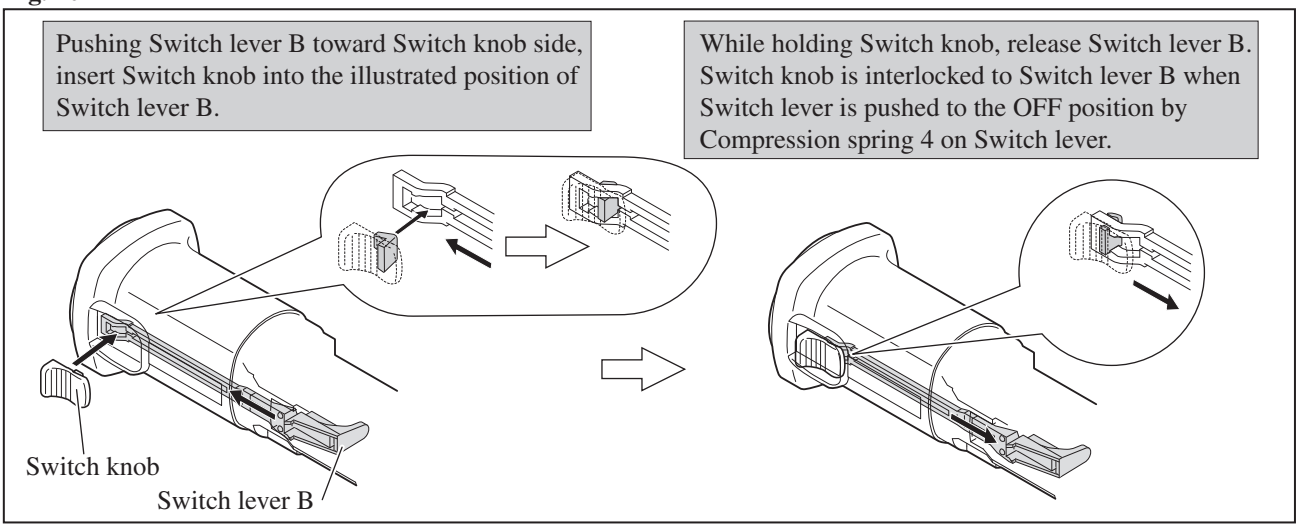


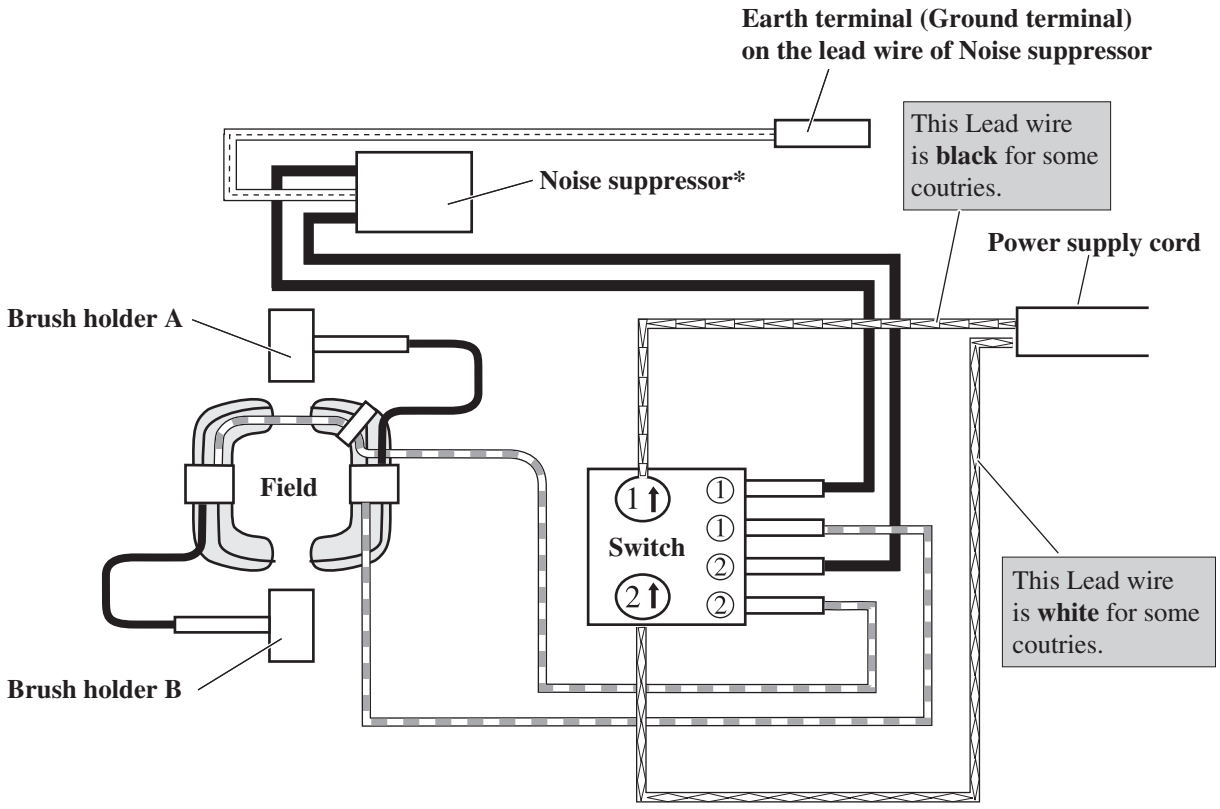
Fig. 10



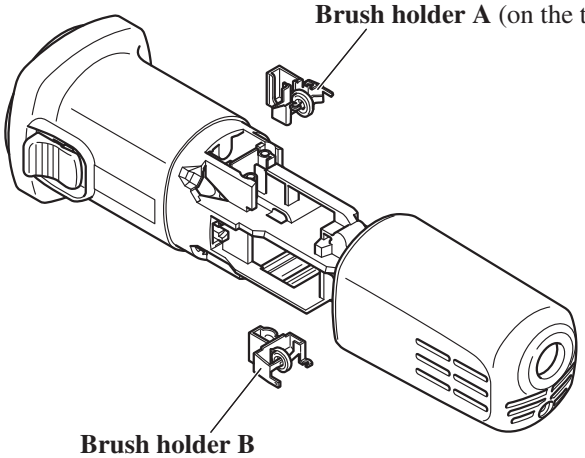
Circuit diagram

Fig. D-1

Color index of lead wires' sheath			
Black		Blue	
White		Brown	
Transparent		Red	



***Some countries do not use Noise suppressor**



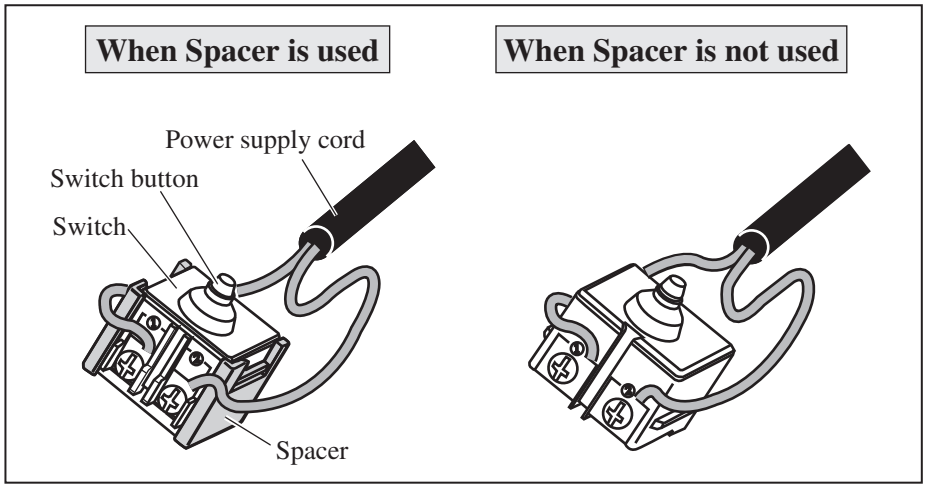
Note: The two Brush holders are identical.
"Brush holder A" and "Brush holder B" are just named to identify the locations.

► Wiring diagram

[1] Connecting Lead Wires of Power Supply Cord with Switch

Connect the lead wires with Switch as illustrated in **Fig. D-2**

Fig. D-2

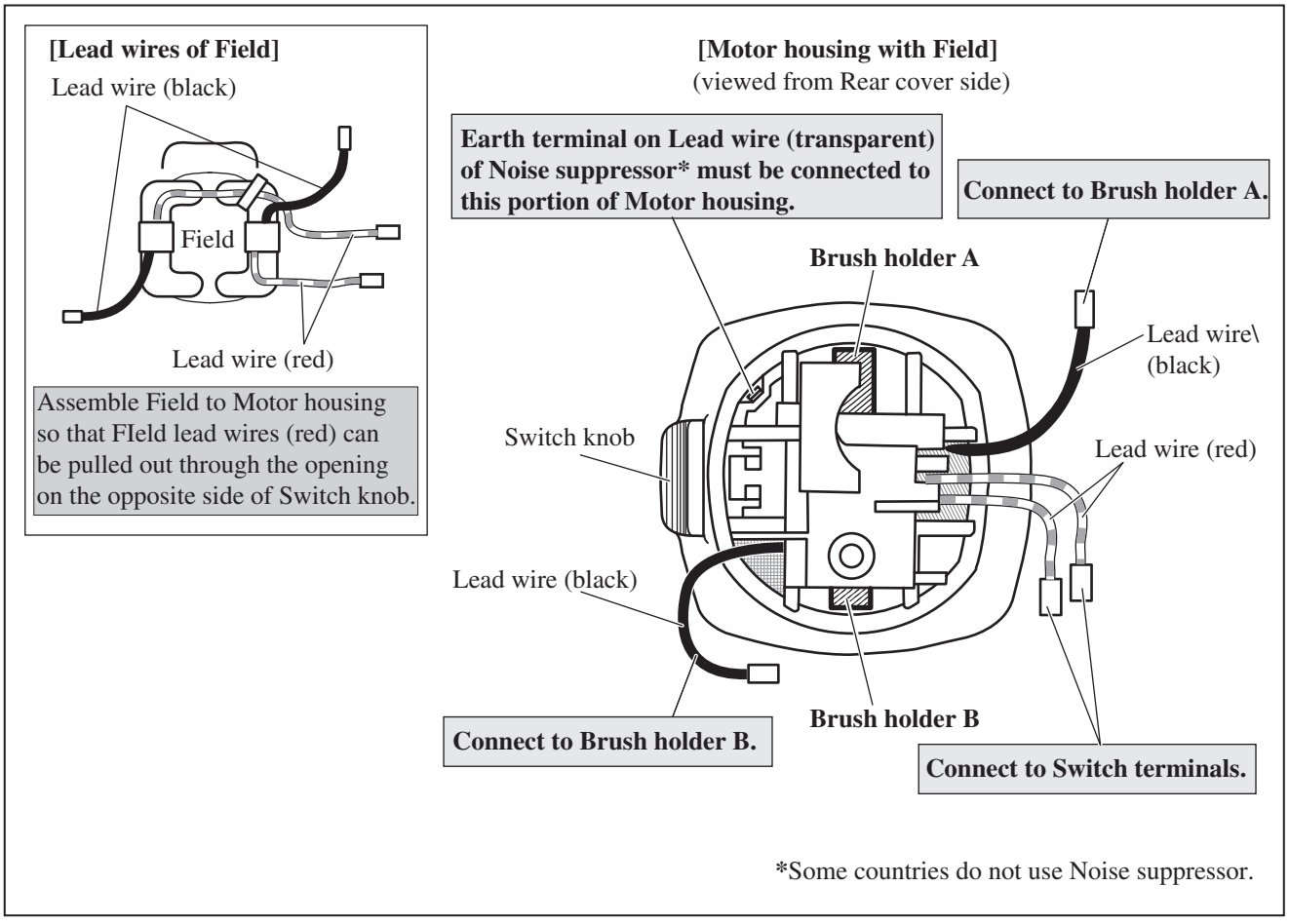


[2] Wiring of Field lead wires

[2] -1. Field top and rear cover side of Motor housing

Pull out Field lead wires through the rear cover side of Motor housing illustrated in **Fig. D-3**.

Fig. D-3

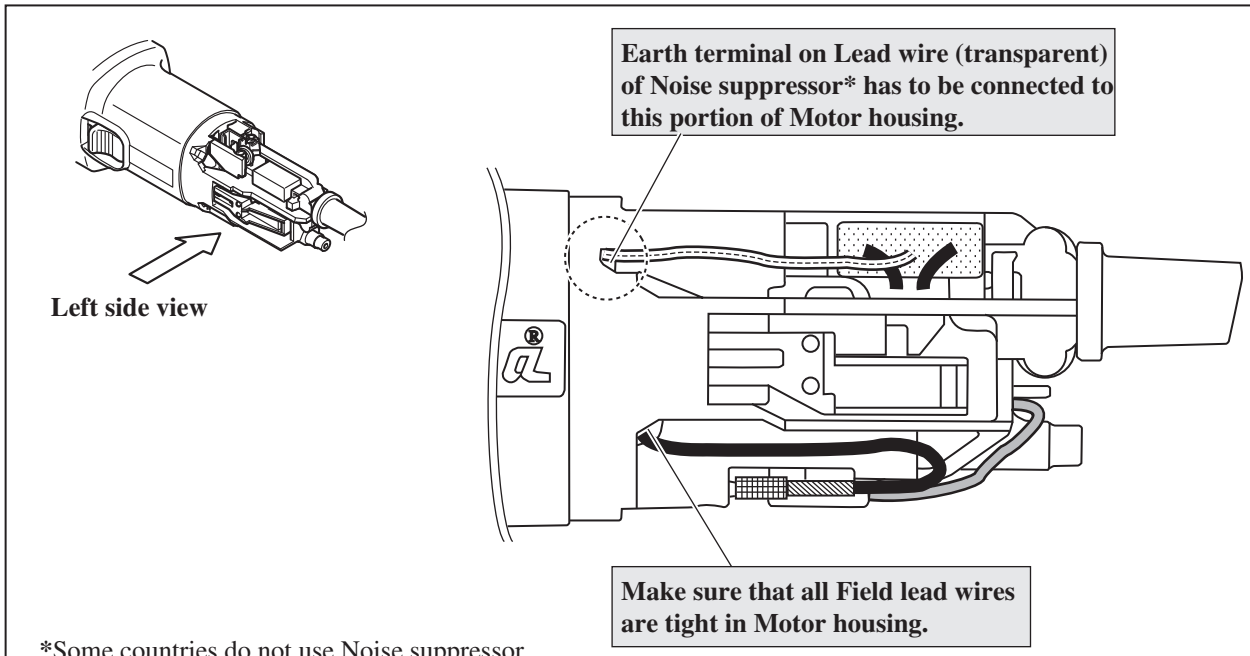


Wiring diagram

[2] Wiring of Field lead wires (cont.)

[2] -2. Left side in the rear portion of Motor housing

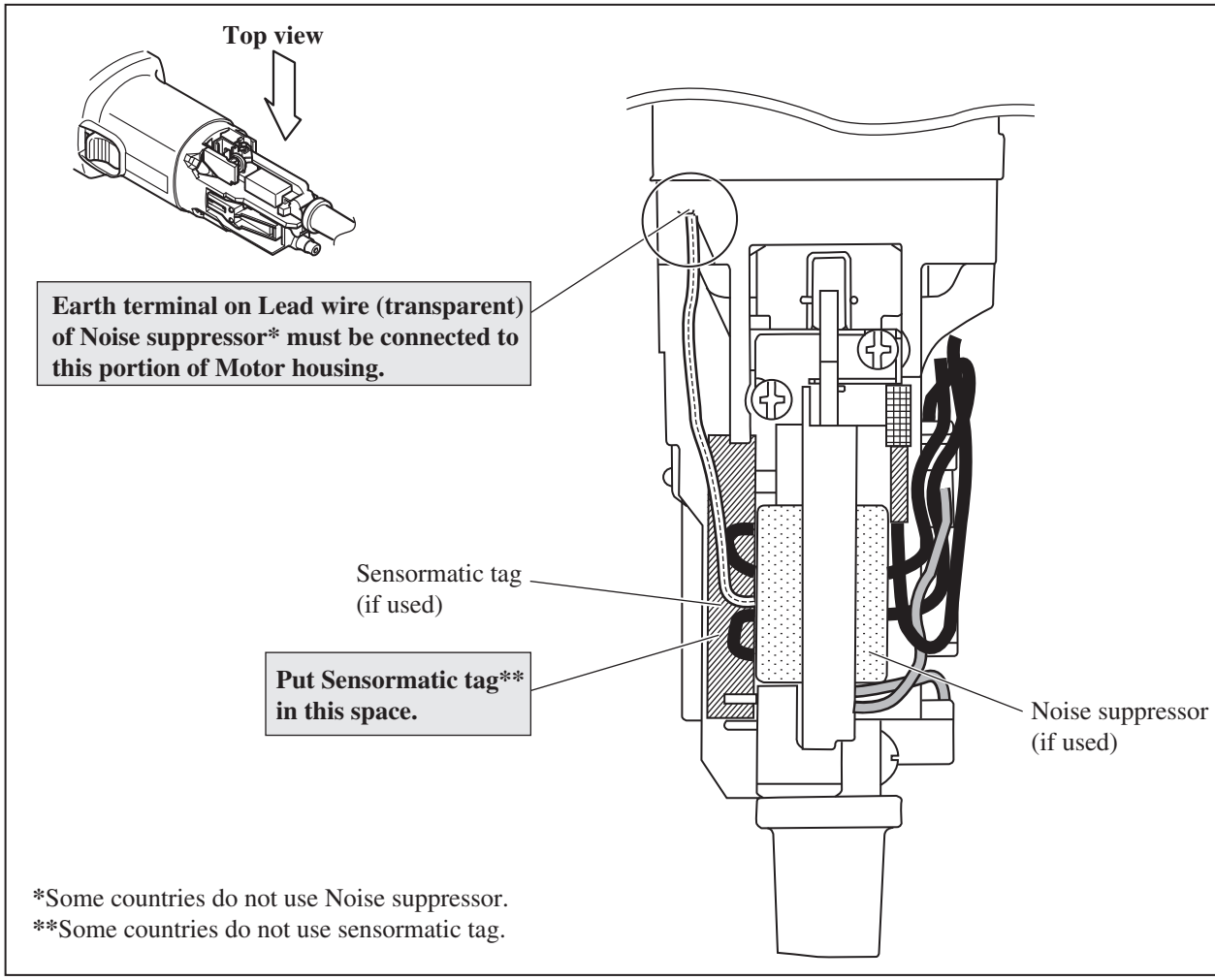
Fig. D-4



*Some countries do not use Noise suppressor.

[2] -3. Top side in the rear portion of Motor housing

Fig. D-5



*Some countries do not use Noise suppressor.
**Some countries do not use sensormatic tag.

► Wiring diagram

[2] Wiring of Field lead wires (cont.)

[2] -4. Right side and Bottom in the rear portion of Motor housing

Fig. D-6