

TECHNICAL INFORMATION

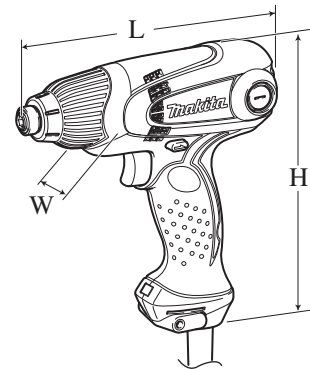


PRODUCT

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Models No. ▶ TD0101, TD0101F

Description ▶ Impact Driver



CONCEPT AND MAIN APPLICATIONS

Models TD0101 and TD0101F are cost-competitive 100N.m-class impact driver developed as the entry model of Makita impact driver series.

Its main features are:

- Compact design with an overall length of 184mm (7-1/4")
- Lightweight at only 0.99kg (2.2lbs)

The only difference between TD0101 and TD0101F is:

TD0101: Without LED job light

TD0101F: With LED job light

Dimensions: mm (")	
	TD0101, TD0101F
Length (L)	184 (7-1/4)
Width (W)	67 (2-5/8)
Height (H)	192 (7-9/16)

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
110	2.2	50/60	230	90	140
120	1.7	50/60	---	90	140
220	1.1	50/60	230	90	140
230	1.0	50/60	230	90	140
240	1.0	50/60	230	90	140

Specifications	Model	TD0101/ TD0101F
No load speed: min-1 = rpm		0 - 3,600
Impacts per min.: min-1 = ipm		0 - 3,200
Driving shank: mm (")		6.35 (1/4) Hex
Capacities	Machine screw	M4 - M8 (5/32 - 5/16")
	Standard bolt	M5 - M14 (3/16 - 9/16")
	High tensile bolt	M5 - M10 (3/16 - 3/8")
	Coarse thread screw	22 - 90mm (7/8 - 3-1/2")
Max. fastening torque*: N.m [kgf.cm] (in.lbs)		100 [1,020] (885)
Electric brake		No
Variable speed control by trigger		Yes
Reverse switch		Yes
LED job light		No/ Yes
Protection against electric shock		Double insulation
Power supply cord: m (ft)		Australia, New Zealand, Brazil, Chile: 2.0 (6.6) Other countries: 2.5 (8.2)
Net weight: kg (lbs)		0.99 (2.2)
Weight according EPTA-Procedure 01/2003: kg		0.99

*torque at 3 seconds after seating when fastening M12 high tensile bolt

► Standard equipment

Phillips bit 1 pc

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

► Optional accessories

Phillips bits, Square bits, Socket bits, Drill chucks, Hex shank auger bits, Bit piece, Adjustable locator

► Repair

CAUTION: Unplug the tool and remove the bit from the machine for safety before repair/ maintenance in accordance with the instruction manual!

[1] NECESSARY REPAIRING TOOLS

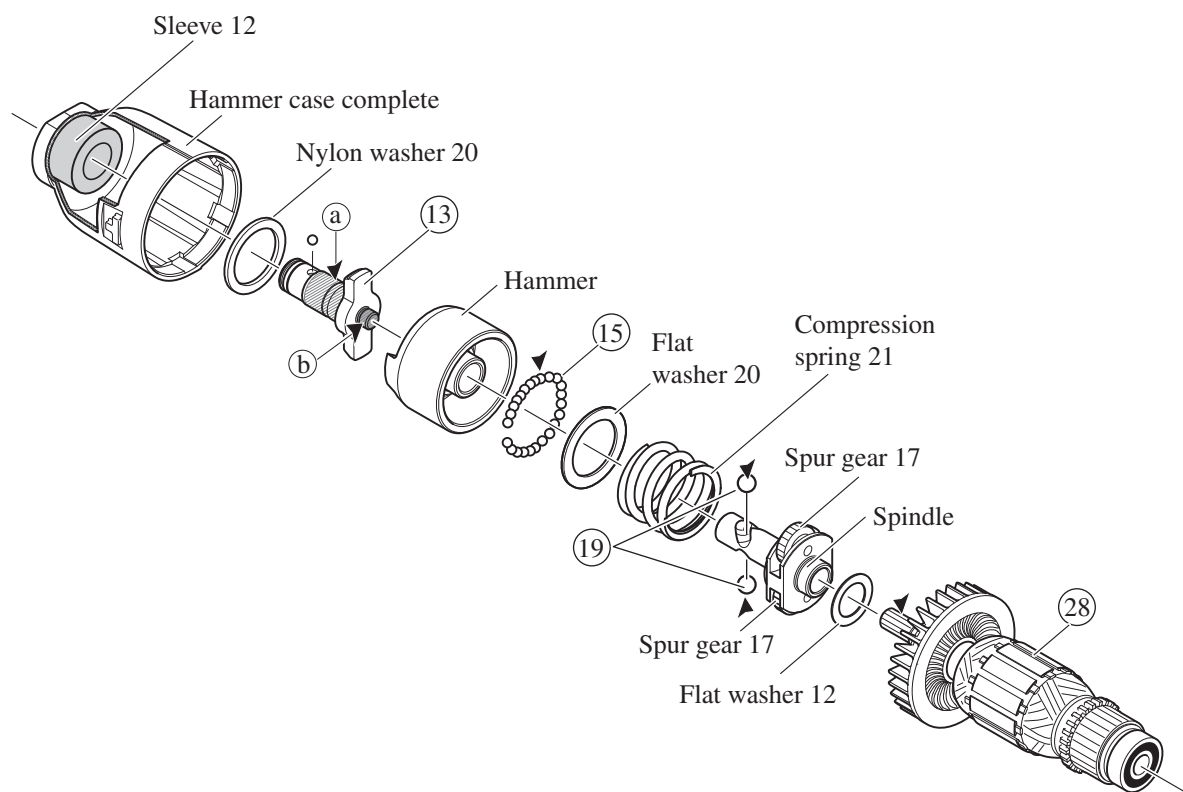
Code No.	Description	Use for
1R041	Vise plate	Disassembling Hammer case complete
1R045	Gear Extractor (large)	Disassembling Hammer
1R346	Center attachment for 1R045	
1R223	Torque wrench shaft 20-90N.m	Disassembling Hammer case complete
1R224	Ratchet head 12.7 for 1R223	
1R232	Pipe 30	Supporting jig when disassembling Bit sleeve
1R288	Screwdriver magnetizer	Magnetizing Screwdriver for removing Steel balls
1R291	Retaining ring S and R pliers	Disassembling / Assembling Ring spring 10
134844-7	Socket 27-50	Disassembling Hammer case complete

[2] LUBRICATIONS

Apply Makita grease FA.No.2 to the following portions designated with the black triangle to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Amount
⑬	Anvil	Ⓐ Drum portion where Sleeve 12 contacts	a little
		Ⓑ Small drum portion which is inserted into Spindle	
⑮	Steel ball 3 (24 pcs.)	whole portion	
⑲	Steel ball 4.8 (2 pcs.)	whole portion	
⑳	Armature	Gear teeth for smooth engaging with Spur gear 17	approx. 1g

Fig. 1



► **Repair**

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Hammer Case Section

DISASSEMBLING

(1) Remove Hammer case section from the machine as illustrated in Figs. 2, 3.

Fig. 2

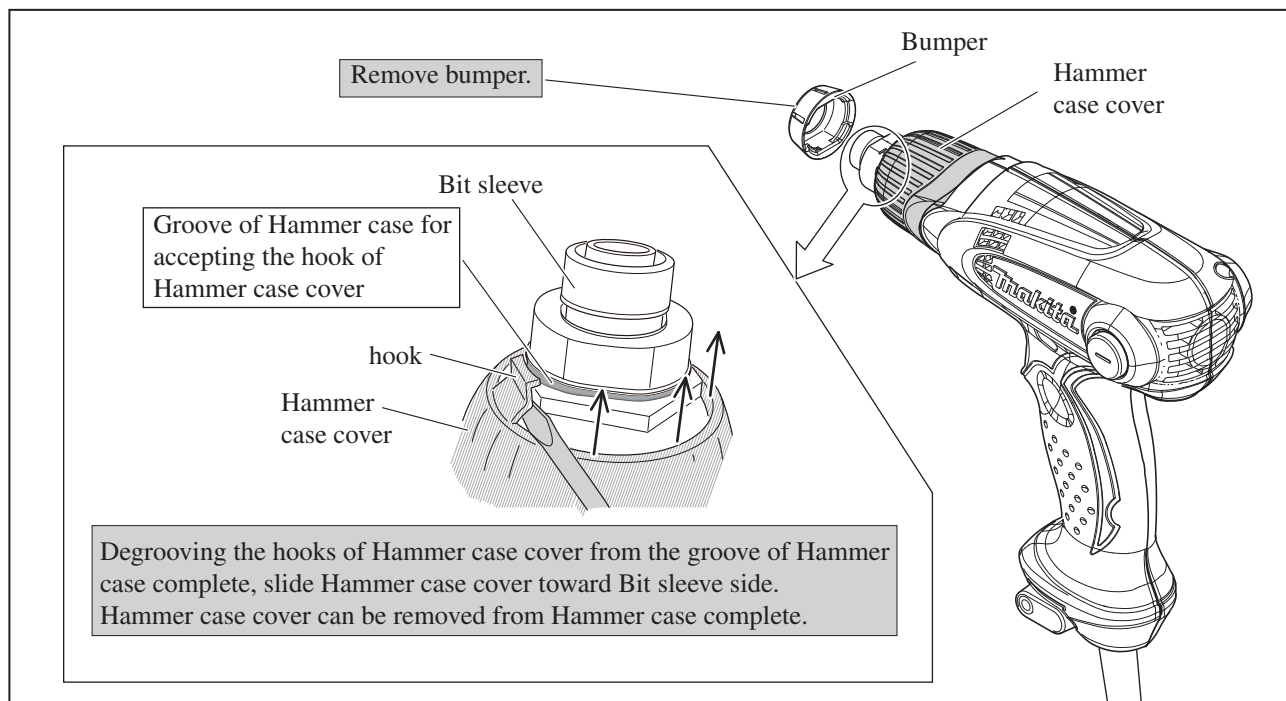
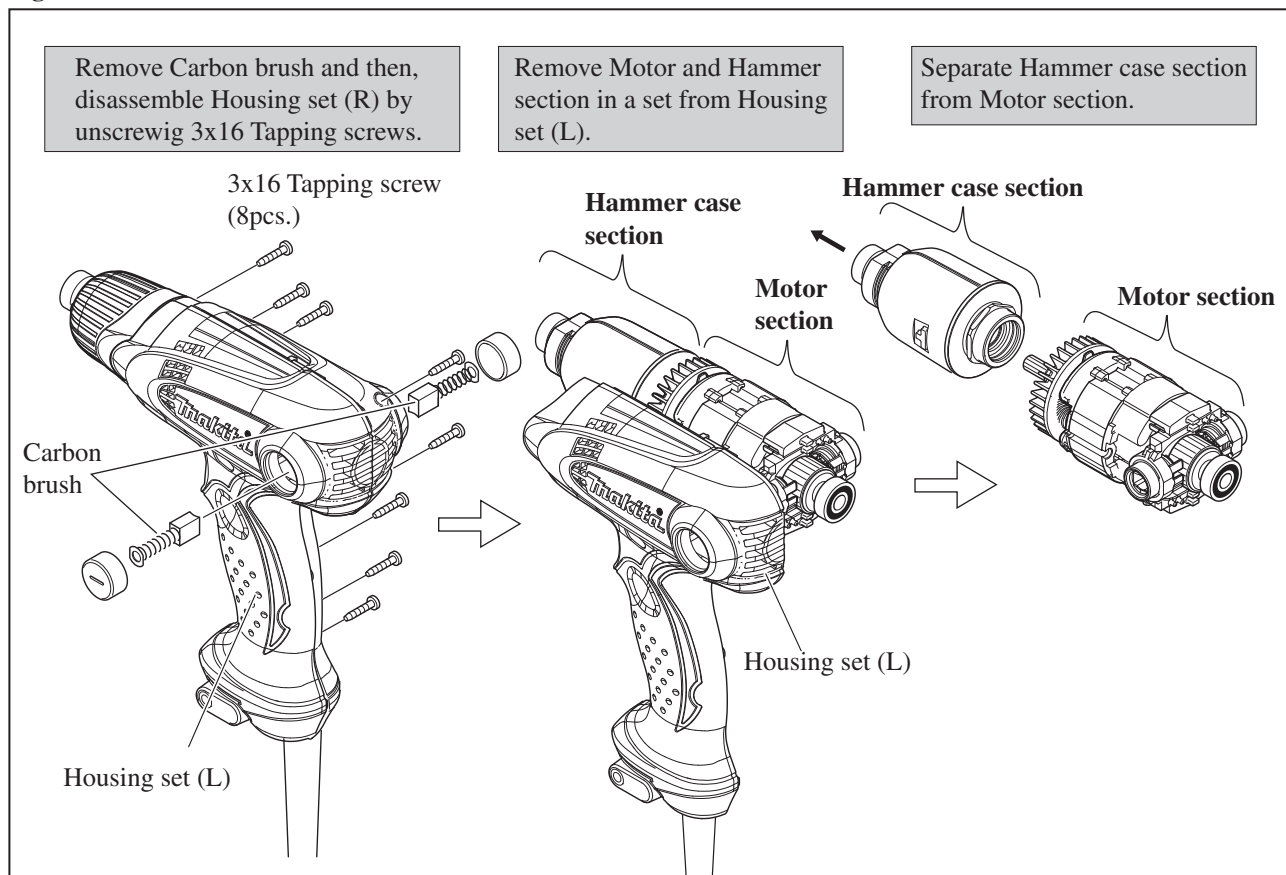


Fig. 3



► **Repair**

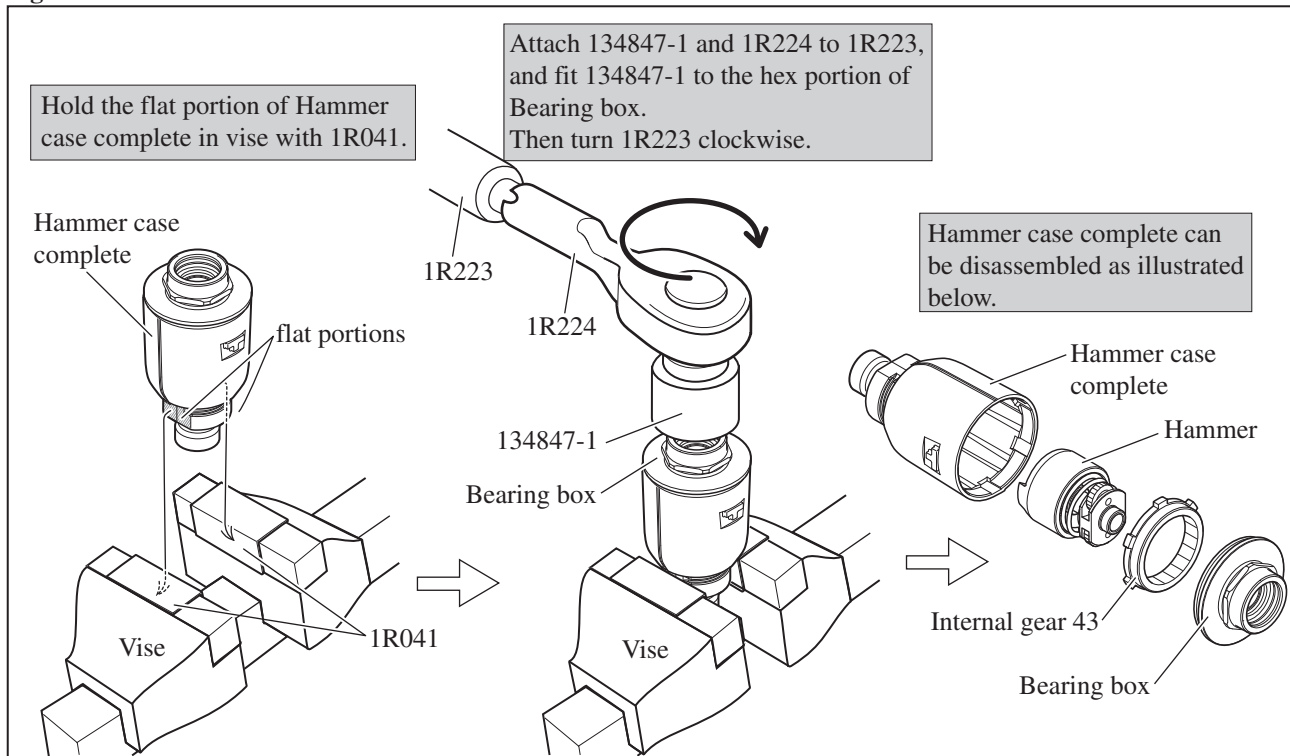
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Hammer Case Complete

DISASSEMBLING

(2) The removed Hammer case section is disassembled as illustrated in **Fig. 4**.

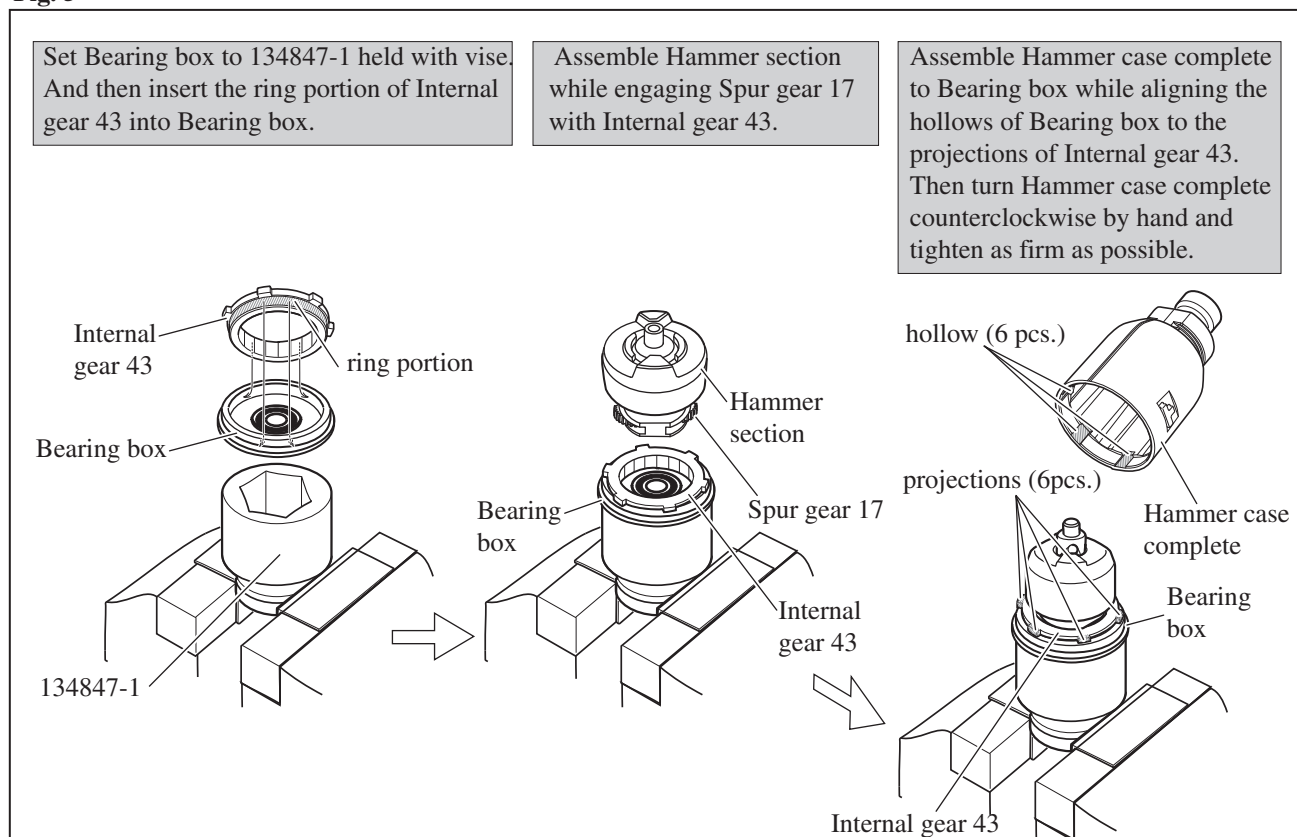
Fig. 4



ASSEMBLING

(1) Use 134847-1 as a supporting jig for Bearing box and assemble Hammer case complete as illustrated in **Fig. 5**.

Fig. 5



Repair

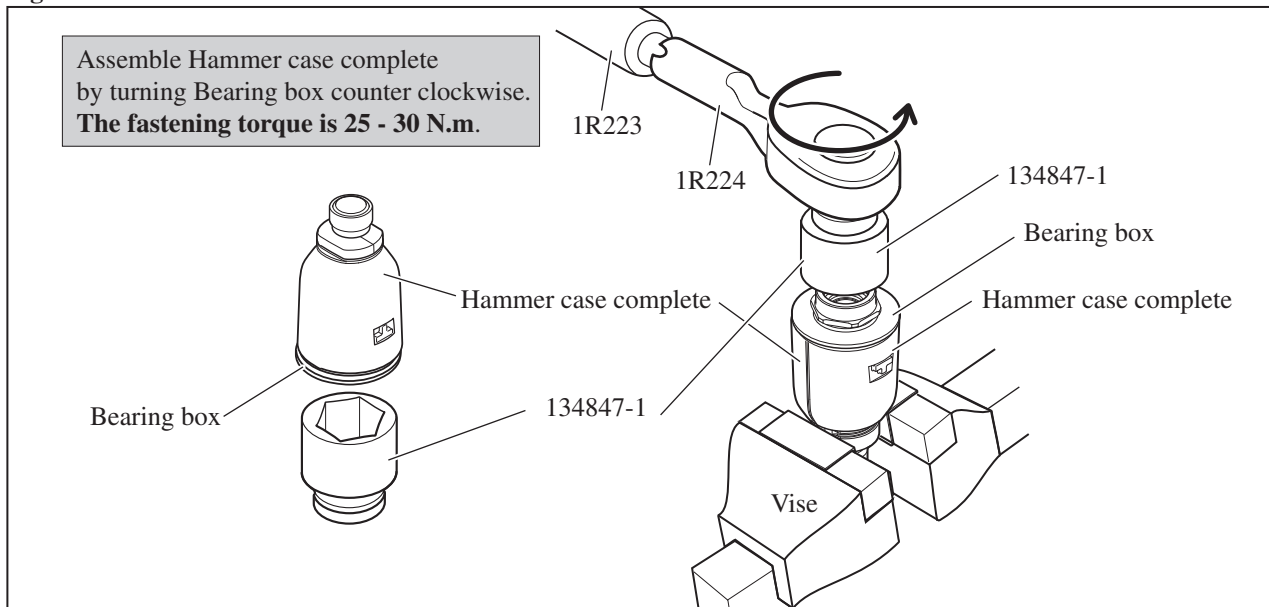
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Hammer Case Complete

ASSEMBLING

(2) Set the assembled Hammer case complete in the same position as disassembling. And assemble as illustrated in Fig 6.

Fig 6

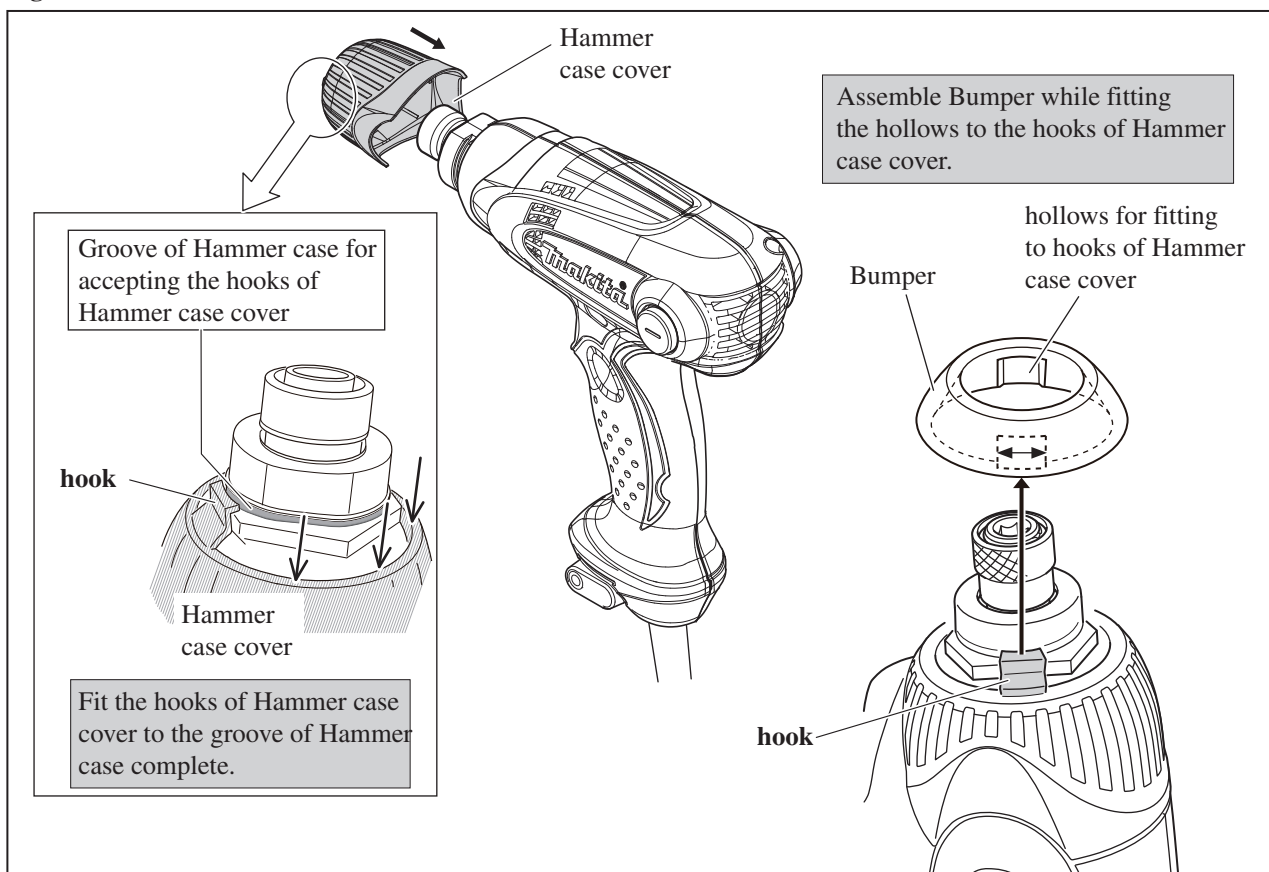


(3) Join Motor section with Hammer case complete. And assemble them to Housing set (L). Refer to Fig. 3.

(4) Assemble Brush holder and Carbon brush. And then, assemble Housing set (R). Refer to Fig. 3.

(5) Assemble Hammer case cover and Bumper as illustrated in Fig. 7.

Fig. 7



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-2. Anvil and Bit holding Mechanism

DISASSEMBLING

- (1) Remove Hammer case section as illustrated in **Figs. 2 and 3**.
- (2) Remove Bearing box, Internal gear 43 and Hammer section from Hammer case complete as illustrated in **Fig. 4**.

Fig. 8

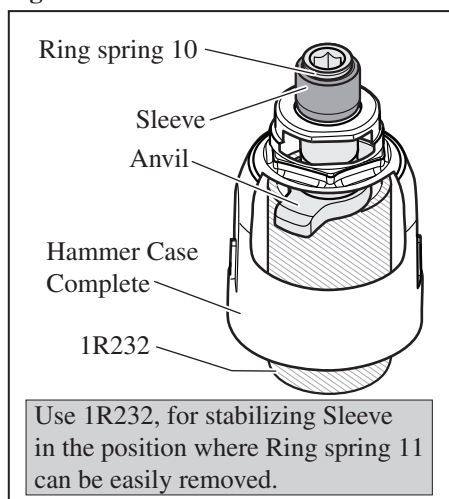


Fig. 9

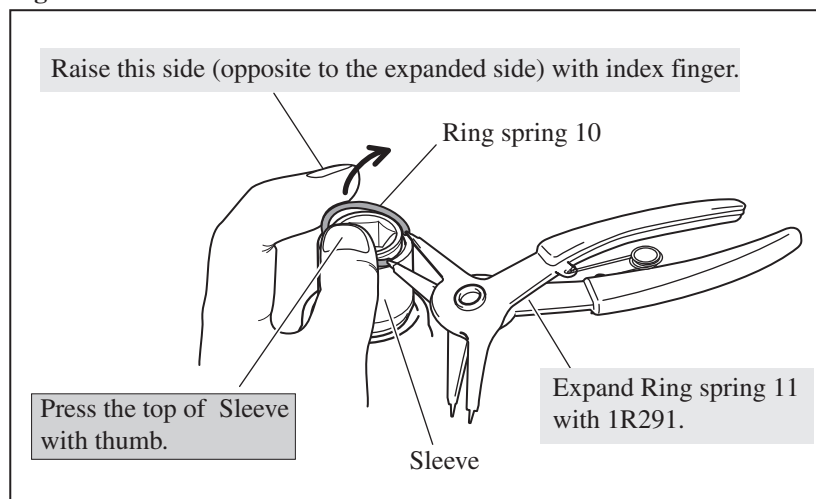
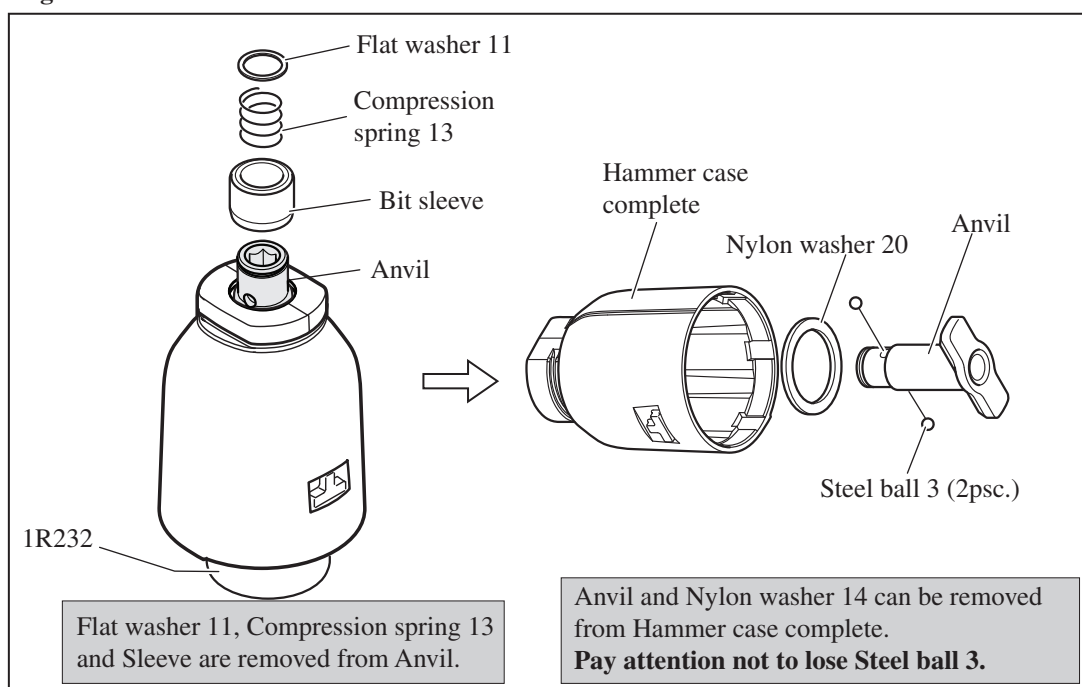


Fig. 10



Note: In case of repairing exclusively for Bit holding mechanism (Bit sleeve, Compression spring 13, Flat washer 11), it is not necessary to disassemble Hammer case complete from the machine.

ASSEMBLING

Take the disassembling step in reverse.

► **Repair**

[3] DISASSEMBLY/ASSEMBLY

[3]-3. Hammer Section

DISASSEMBLING

- (1) Disassemble Hammer case section from the machine. (Figs. 2 and 3)
- (2) Remove Hammer from Hammer case complete. (Fig. 4)
- (3) Disassemble Hammer section as illustrated in Figs. 11 to 14.

Fig. 11

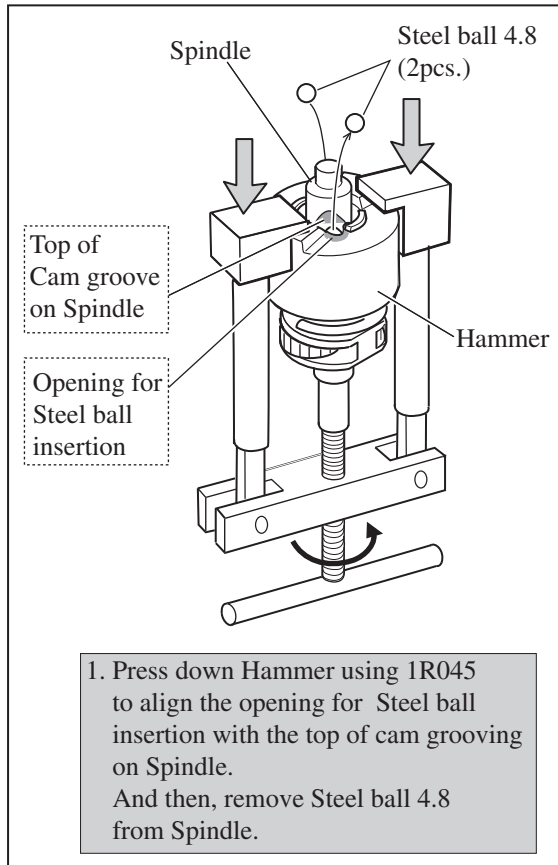


Fig. 12

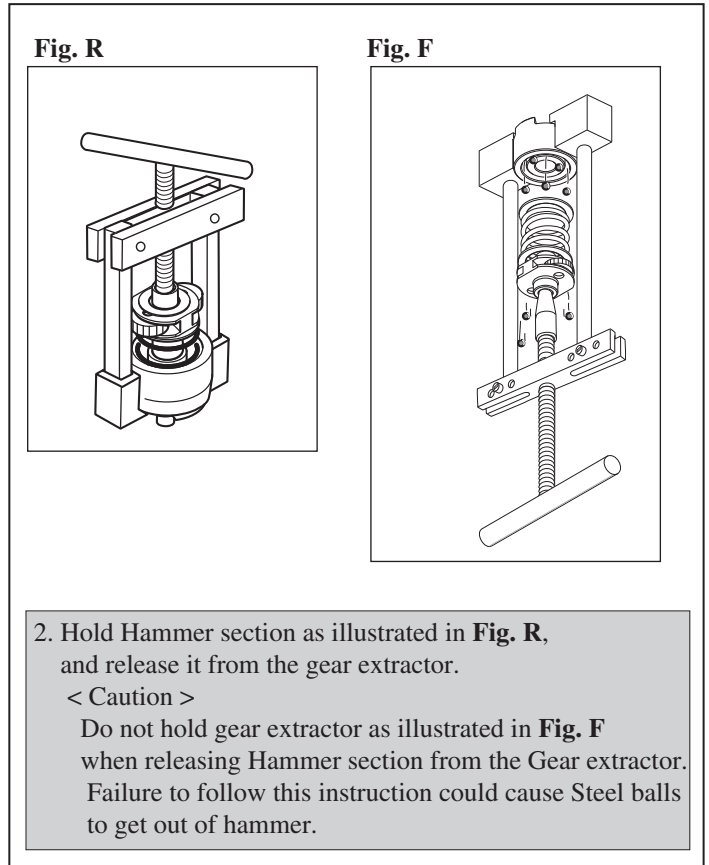


Fig. 13

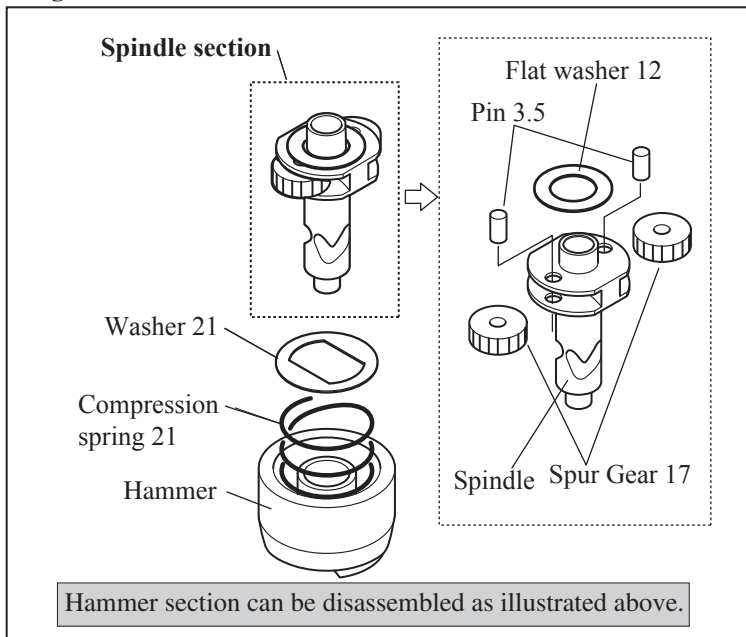
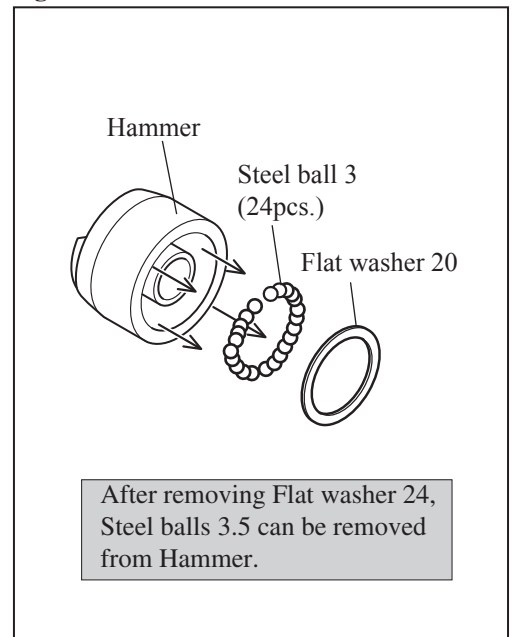


Fig. 14



► Repair

[3] DISASSEMBLY/ASSEMBLY

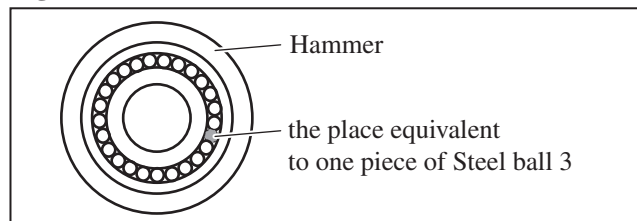
[3]-3. Hammer Section (cont.)

ASSEMBLING

Take the disassembling step in reverse.

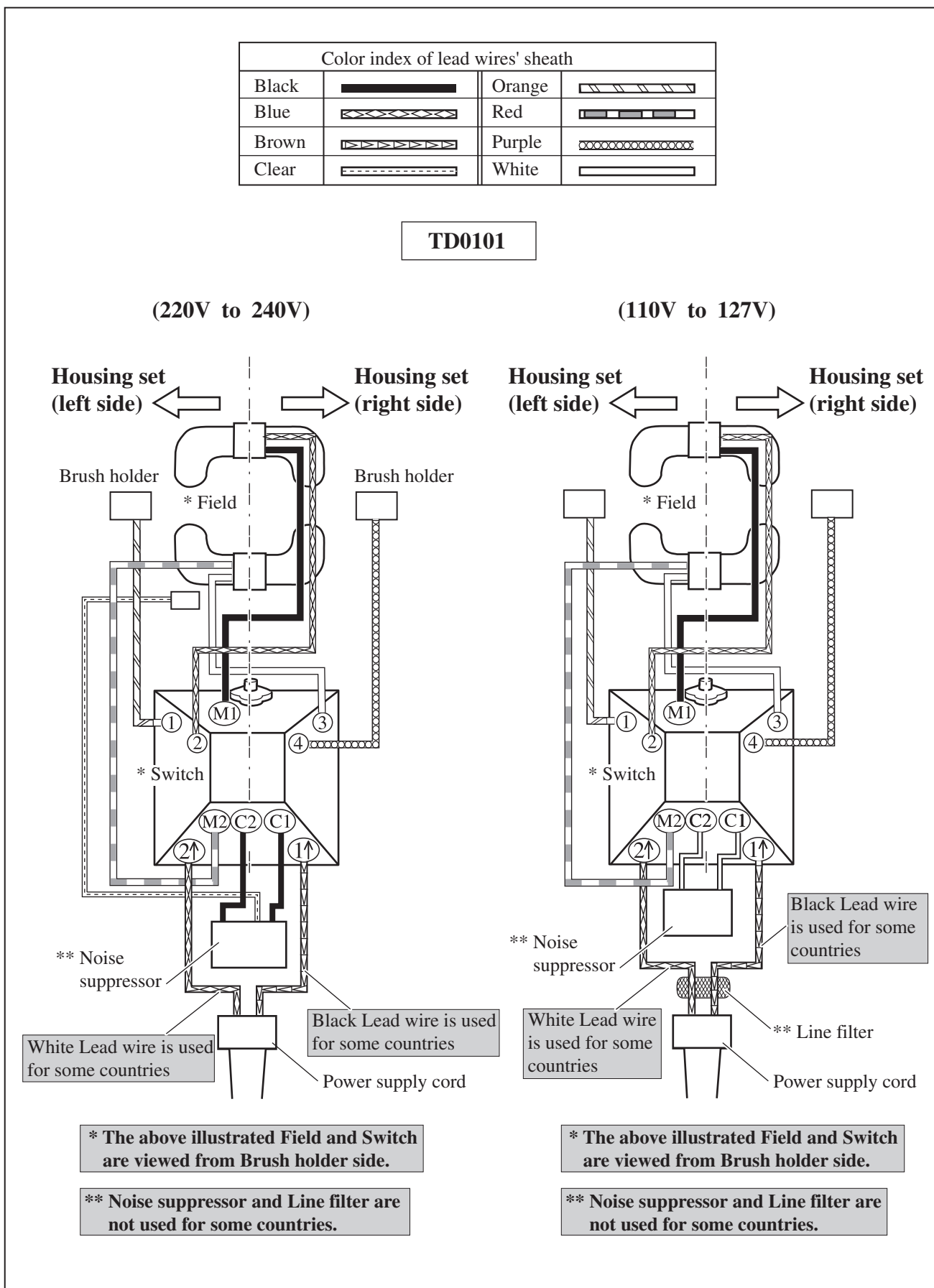
Note: Make sure that the place equivalent to one piece of Steel ball 3 has to be in Hammer when all 24 pieces of Steel ball 3 are set in place. Refer to **Fig. 15**.

Fig. 15



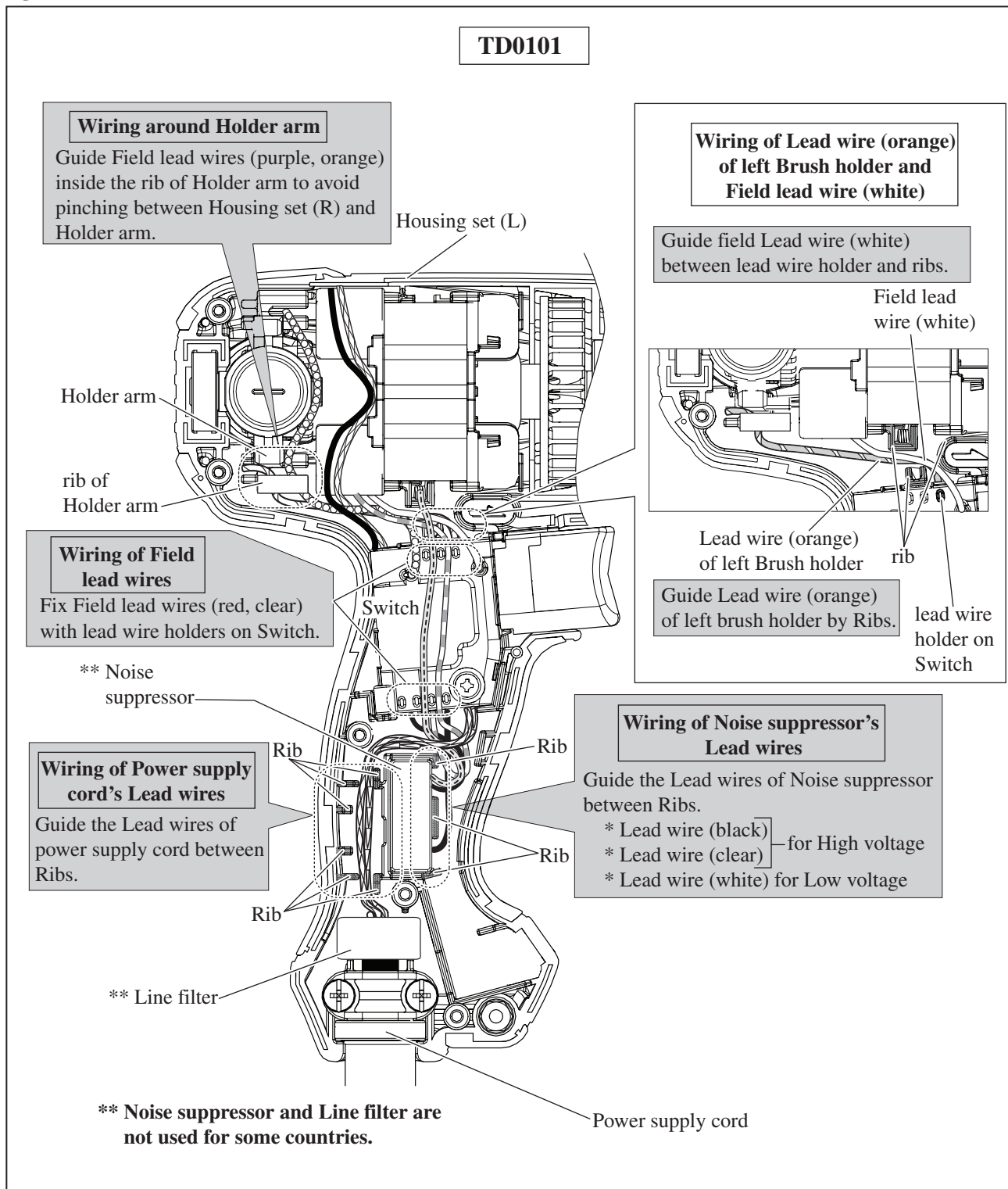
► **Circuit diagram**

Fig. D-1



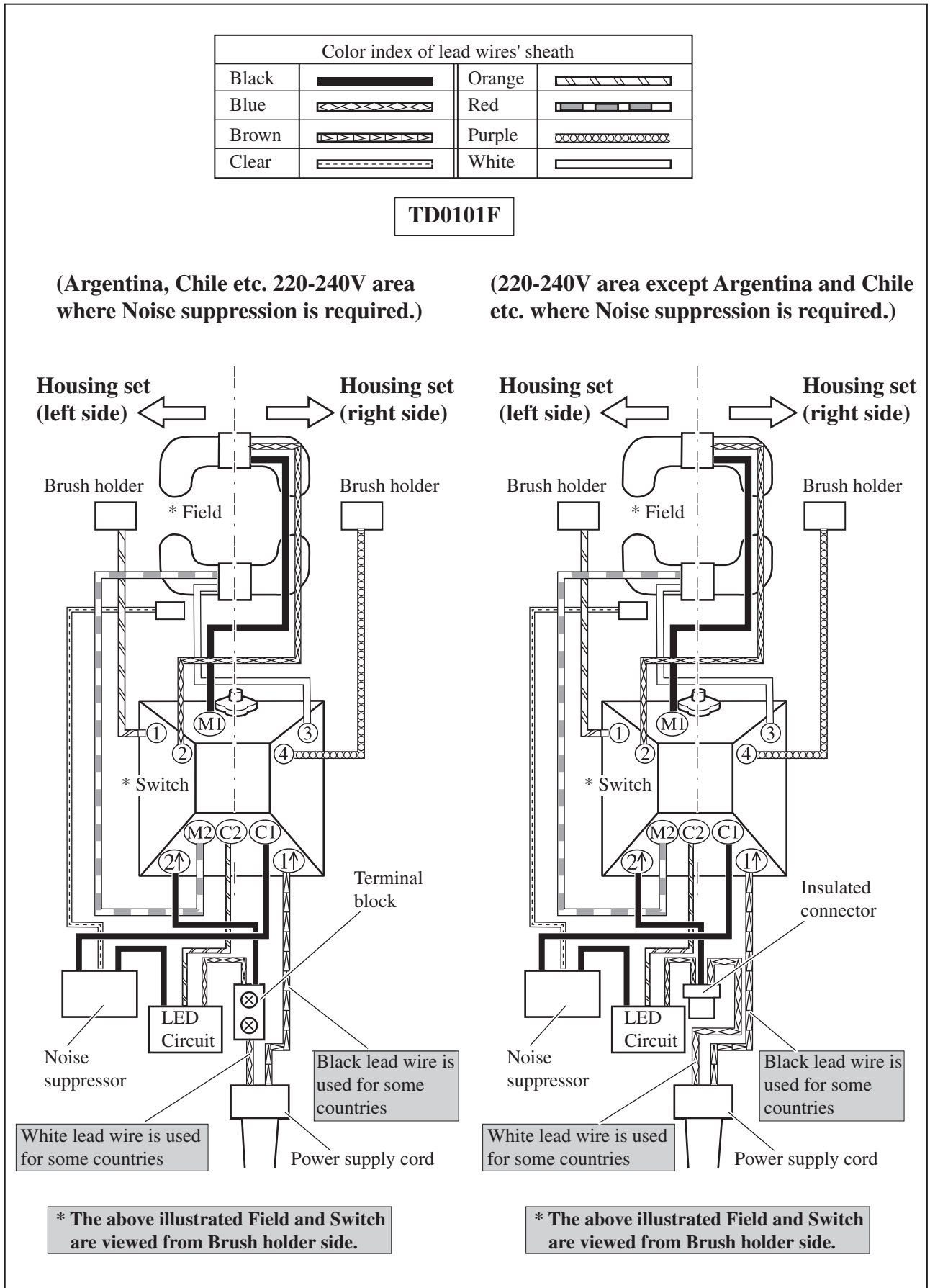
► **Wiring diagram**

Fig. D-2



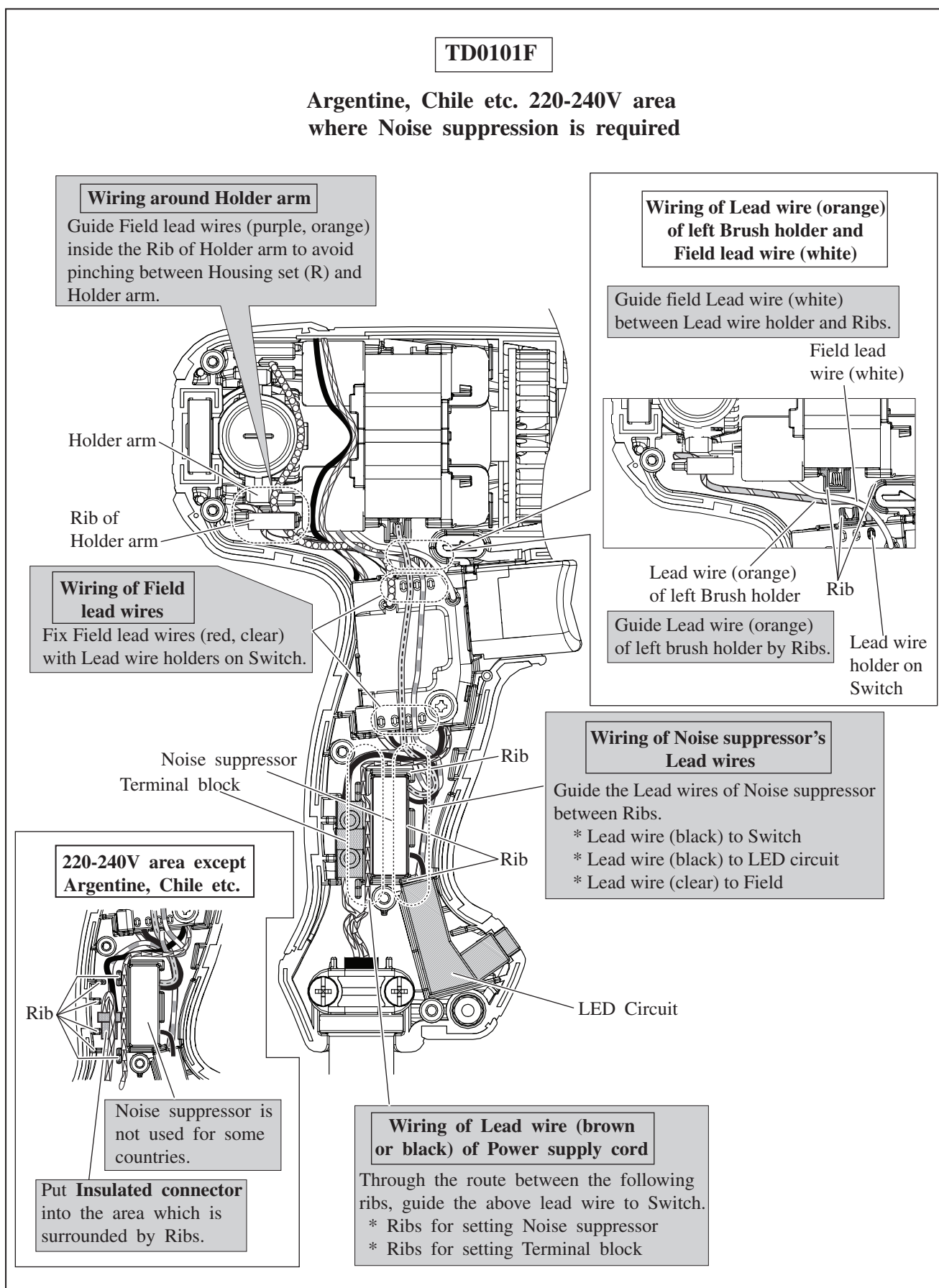
► **Circuit diagram**

Fig. D-3



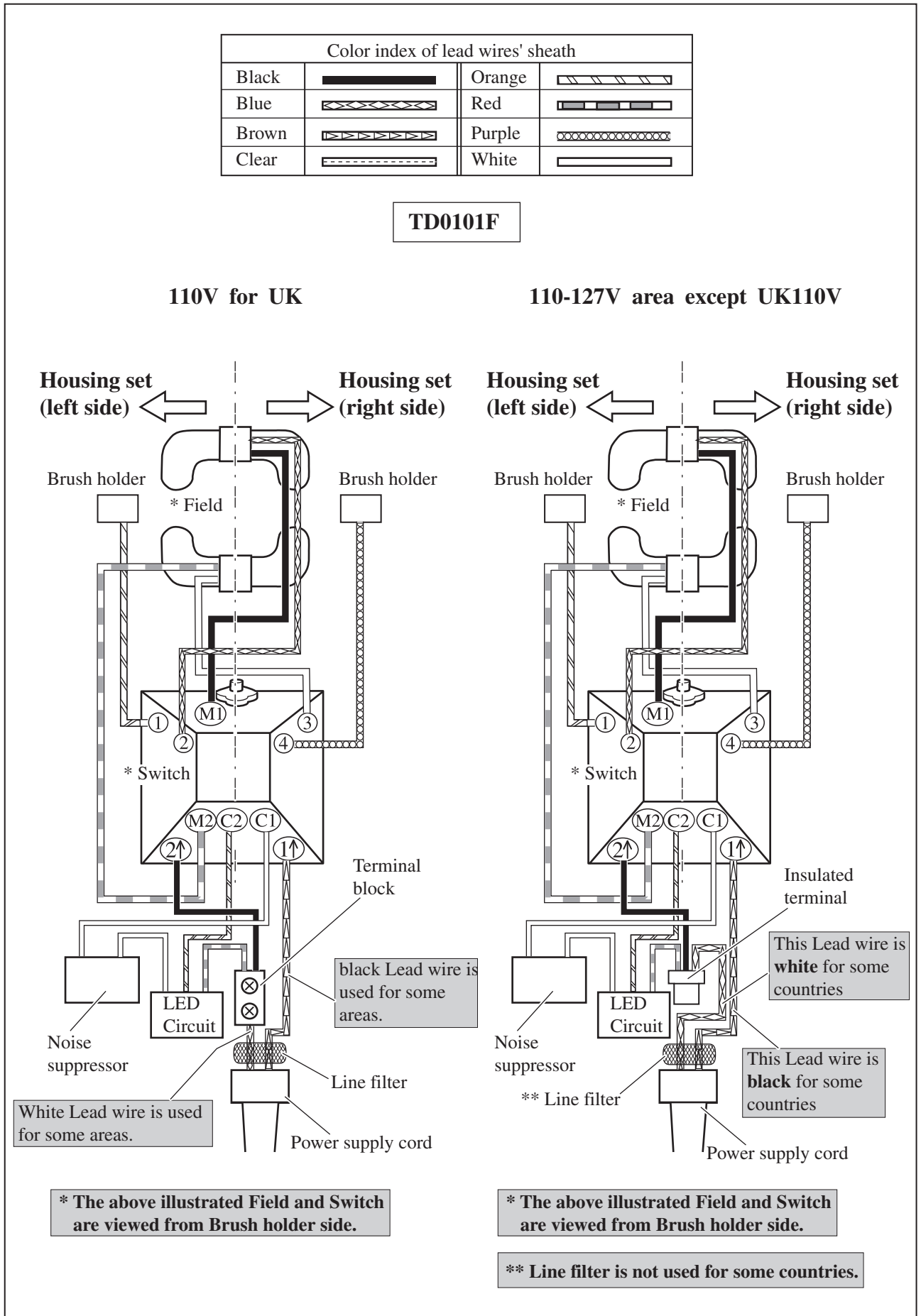
► **Wiring diagram**

Fig. D-4



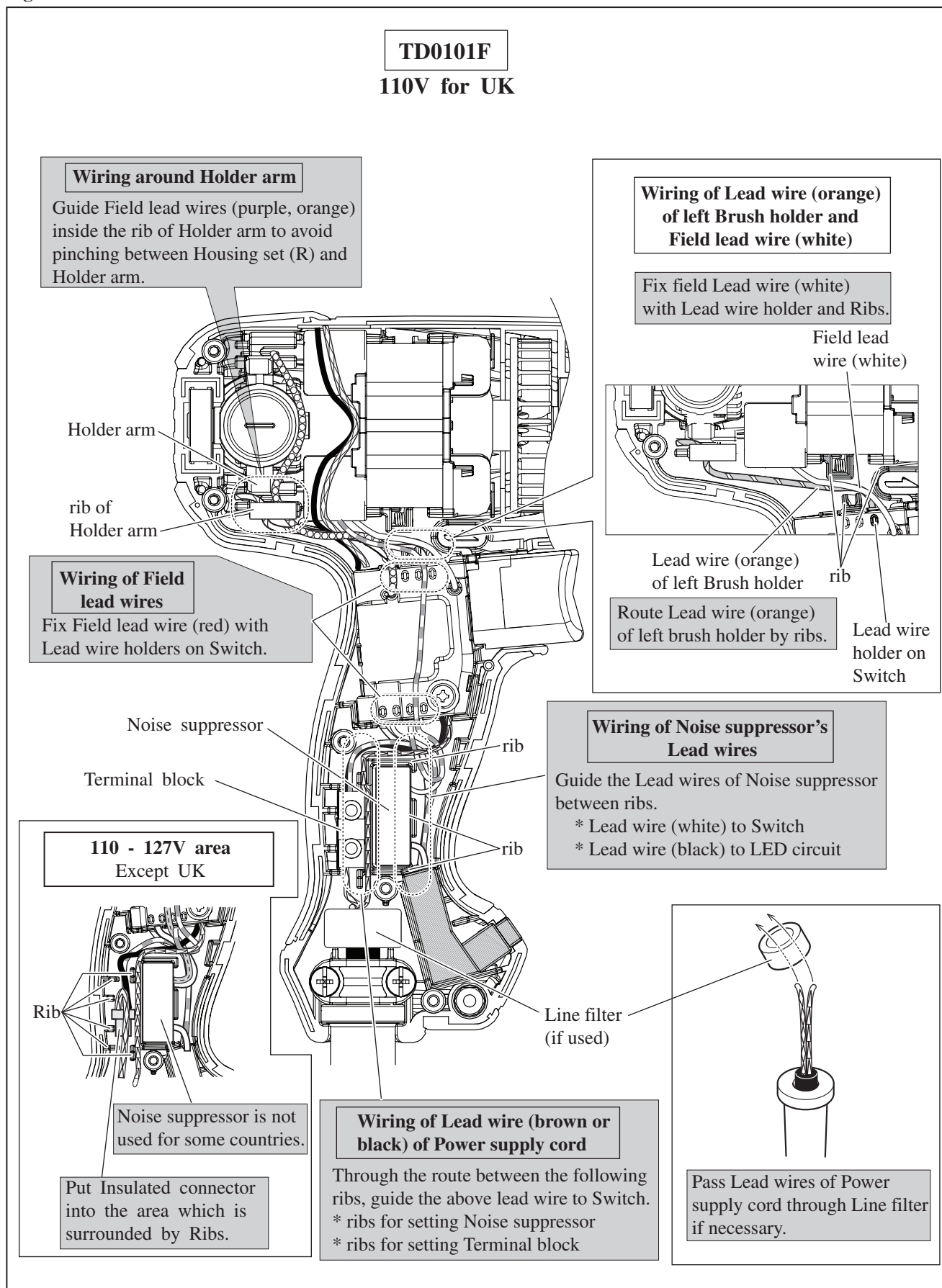
► **Circuit diagram**

Fig. D-5



► **Wiring diagram**

Fig. D-6



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