

TECHNICAL INFORMATION



NEW TOOL

P 1 / 8

- Models No.** ▶ DP4000, DP4002
DP4001, DP4003
- Description** ▶ 13mm (1/2") Drill
13mm (1/2") Drill with Keyless drill chuck

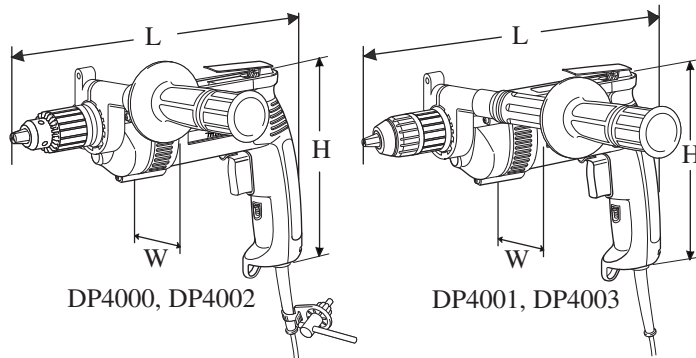
CONCEPTION AND MAIN APPLICATIONS

The above models have been developed for heavy duty work of professional users.

Their brief features and benefits are

- * Durable and robust aluminum gear housing
- * High power and high torque

Dimensions : mm (")		
	DP4000, DP4002	DP4001, DP4003
Width (W)	72 (2-13/16)	
Height (H)	196 (7-3/4)	
Length (L)	304 (12)	308 (12-1/8)



Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output(W)
			Input	Output	
100	7.5	50 / 60	710	350	650
110	7.2	50 / 60	750	350	650
120 (UL)	7.0	50 / 60	(800)	350	650
220	3.6	50 / 60	750	350	650
230	3.4	50 / 60	750	350	650
240	3.3	50 / 60	750	350	650

Model No.	DP4000	DP4000K	DP4002	DP4002K	DP4001	DP4001K	DP4003	DP4003K
No load speed : (min -1= rpm)	0 - 900		0 - 600		0 - 900		0 - 600	
Keyless chuck	No				Yes			
Chuck ability : mm (")	2 - 13 (1/16 - 1/2)				1.5 - 13 (1/16 - 1/2)			
Drilling capacity : mm (")	in Steel		13 (1/2)					
	in Wood		38 (1-1/2)					
Reverse switch	Yes							
Protection from electric shock	by double insulation							
Plastic carrying case	No	Yes	No	Yes	No	Yes	No	Yes
Cord length : m (ft)	2.5 (8.2)							
Net weight :Kg (lbs)	2.2 (4.9)							

Standard equipment

- * Grip assembly 1 set
- * Chuck key 10 1 pc.
- * Key holder 1pc.

< Note > The standard equipment for the tool shown may differ from country to country.

Optional accessories

- Drill bit 1.5, 2, 3, 4, 5, 6
- Drill bit for wood 9, 12, 15
- Depth gauge (Stopper pole)
- Drill stand type 43
- Plastic carrying case (only for DP4000K, DP4001K, DP4002K and DP4003K)

< 1 > Lubrication

Apply MAKITA Grease N No.1 to the portion illustrated in Fig. 1. Turn the gears in order to spread the grease into gear housing and on the gears., when applying.

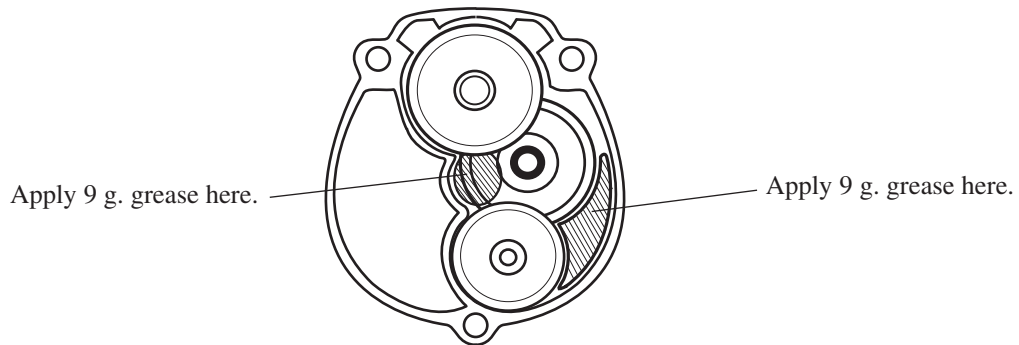


Fig. 1

< 2 > Disassembling spindle section

(1) Disassembling helical gear 26

Remove retaining ring S-11 from spindle. Then, helical gear 26 can be removed from spindle. See Fig. 2.

(2) Disassembling spindle

Remove retaining ring S-15 from spindle. Then, spindle can be removed from gear housing. See Fig. 2.

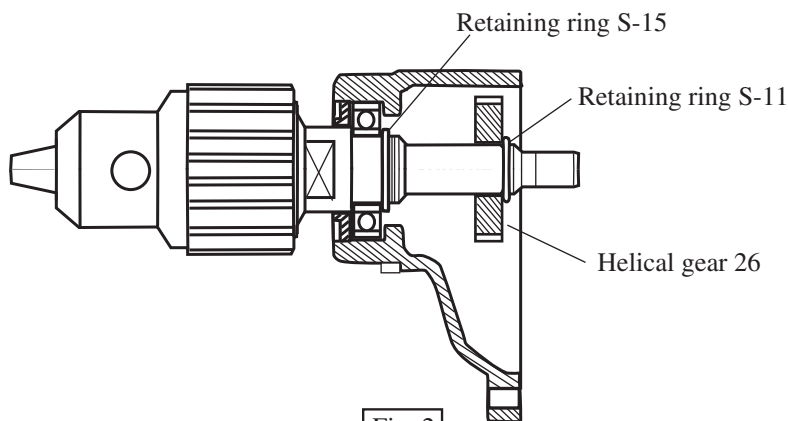


Fig. 2

< 3 > Disassembling bearing retainer 22-36

(1) Remodeling 1R043 "Wrench for bearing retainer"

The following repairing tool is not available for DP4000 series models without remodeling. It has to be remodeled by changing the size A from 20 mm to 24 mm as illustrated in Fig. 3.

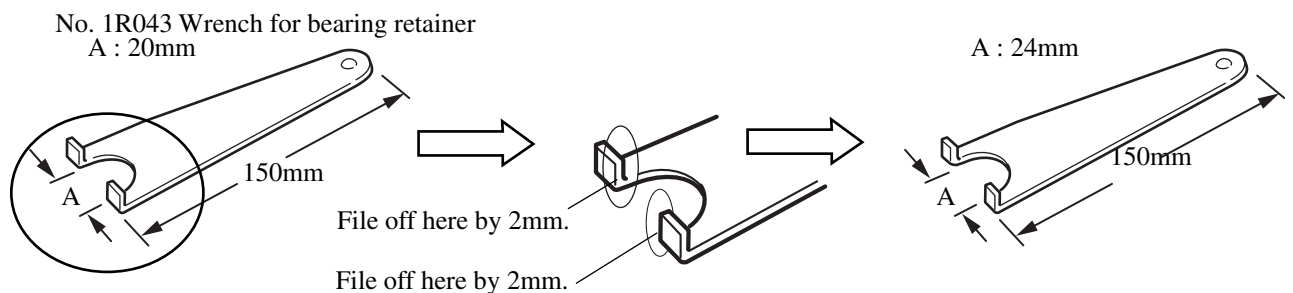


Fig. 3

(2) Disassembling bearing retainer 22-36

Set the hook of remodeled "wrench for bearing retainer" in the groove of bearing retainer 22-36 and turn it with the remodeled wrench clockwise as illustrated in Fig. 4.

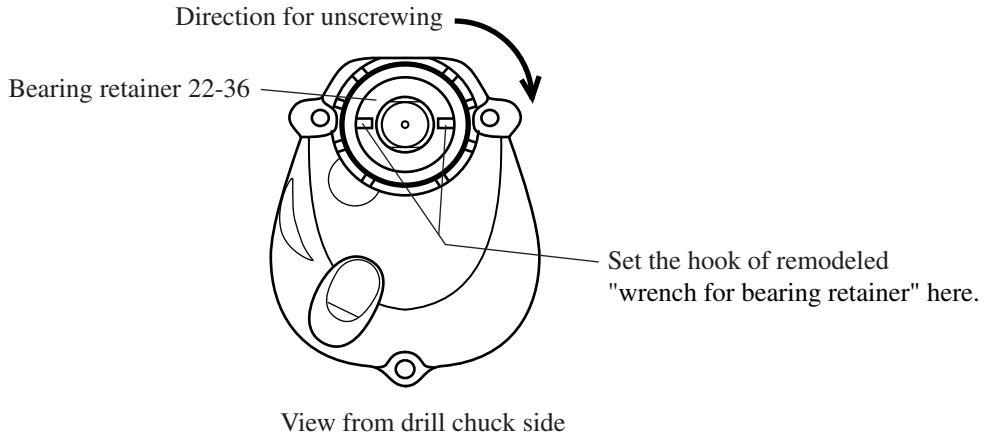


Fig. 4

< 4 > Disassembling ball bearing 607LLB and 606ZZ

Hit the portion illustrated in Fig. 4 with small plastic hammer. Then ball bearing 607LLB and 607ZZ come out from gear housing.

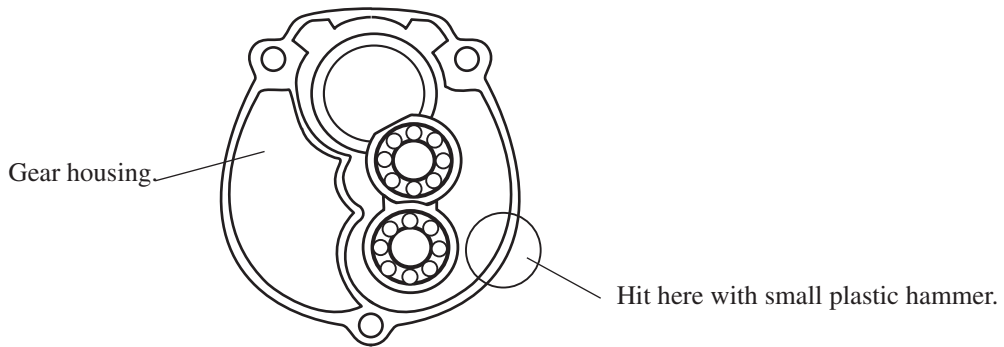


Fig. 5

< 5 > Assembling bearing retainer 22-36

Set the hook of remodeled "wrench for bearing retainer" in the groove of bearing retainer 22-36 and turn it with the remodeled wrench anti-clockwise as illustrated in Fig. 6.

The fastening torque for bearing retainer 22-36 is approx. 11.8 - 15.7 N.m (120 - 160 Kgf.cm).

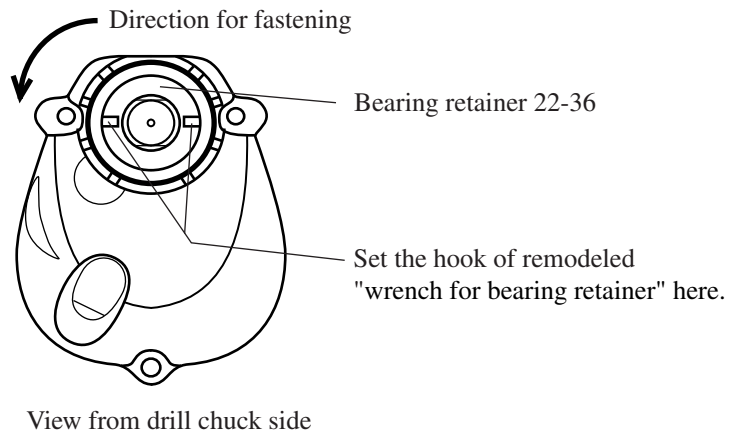
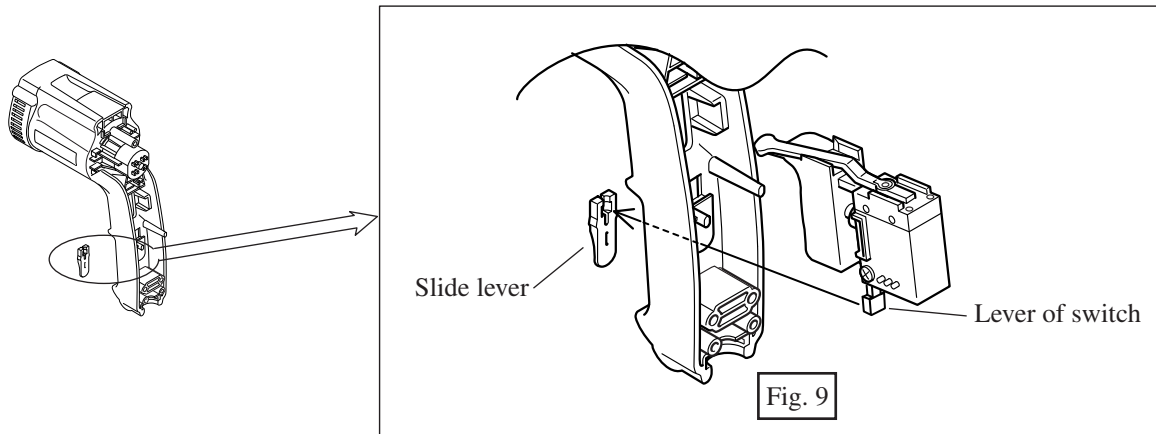


Fig. 6

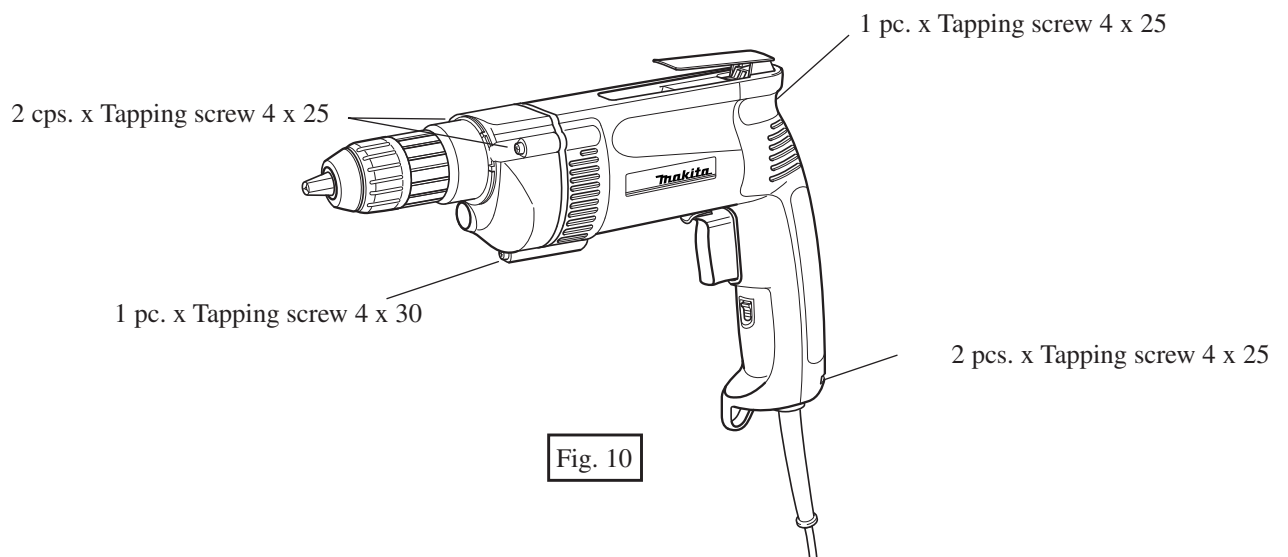
< 8 > Assembling slide lever

- 1) Assemble switch, meeting its lever to the groove of slide lever as illustrated in Fig. 9.
- 2) Make sure that slide lever can slide smoothly after the following process.
 - * Mounting switch, or putting lead wires in the grip
 - * Mounting handle cover



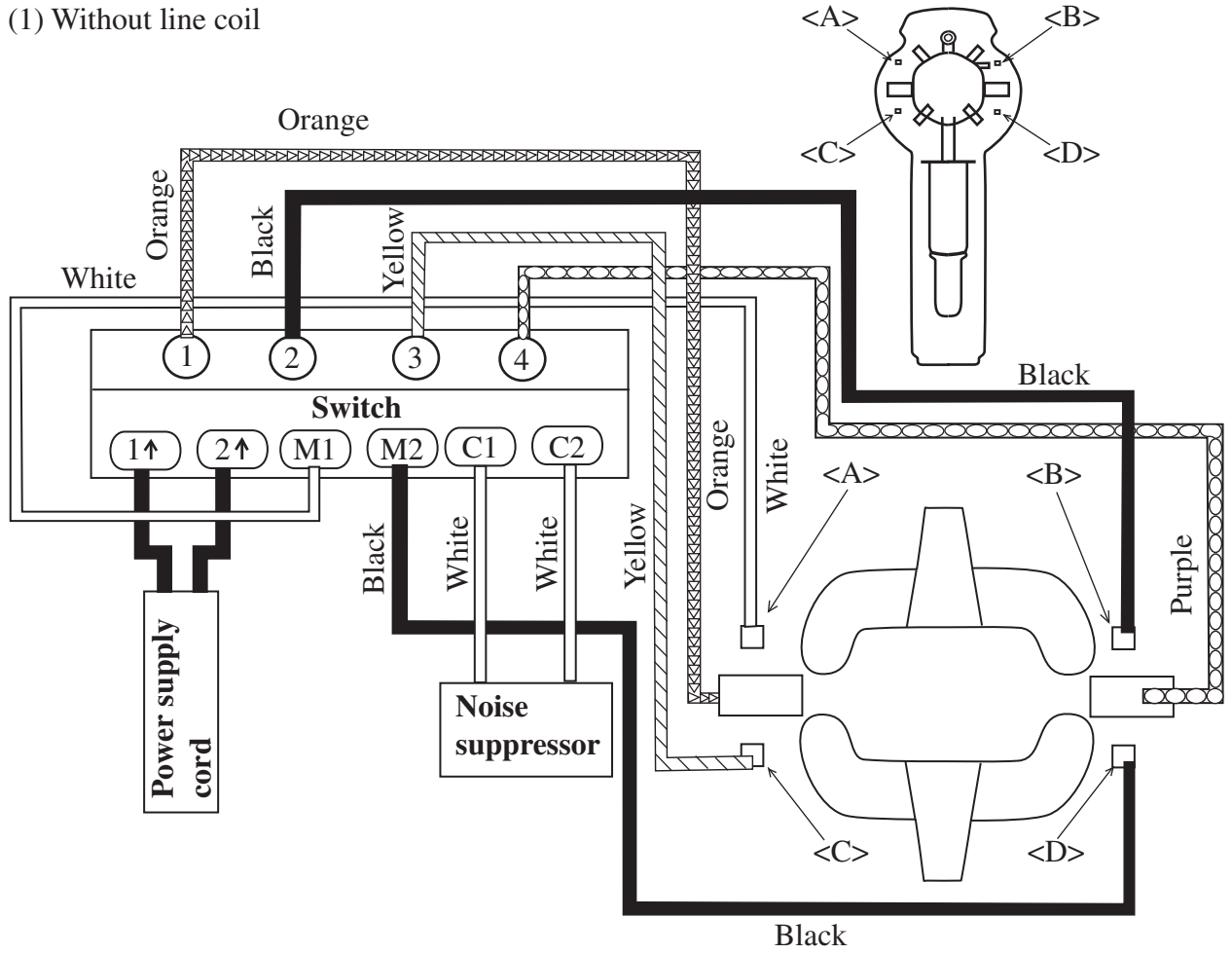
< 8 > Screwing tapping screws

Fasten the tapping screws as illustrated in Fig. 10.



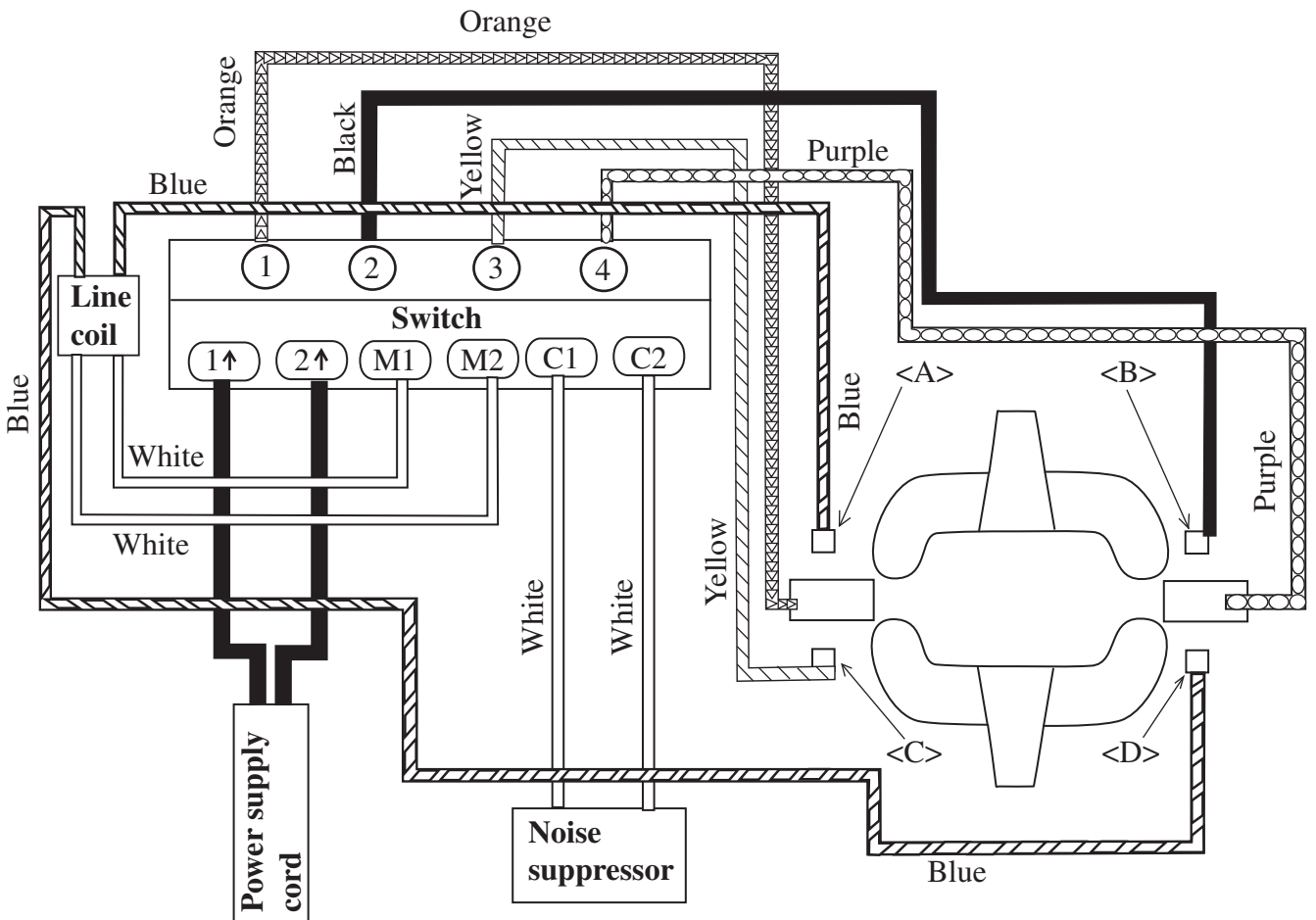
▶ **Circuit diagram**

(1) Without line coil



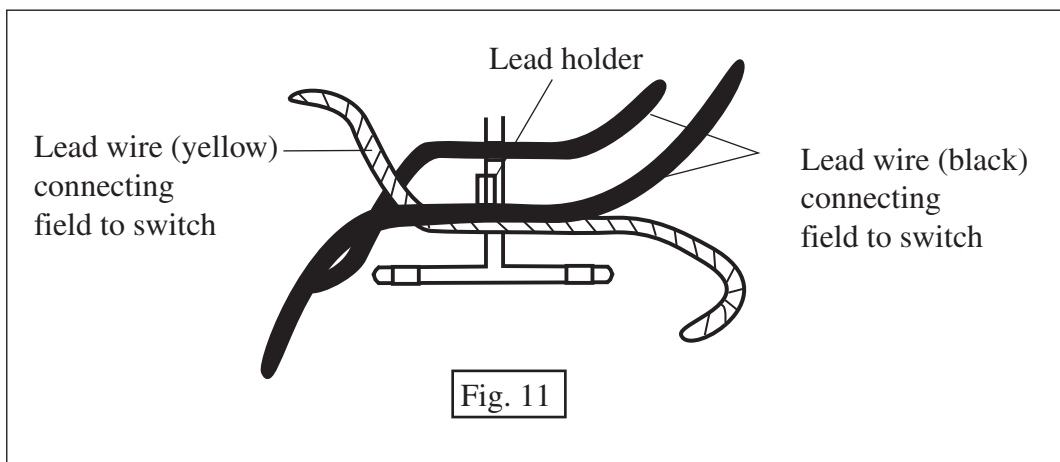
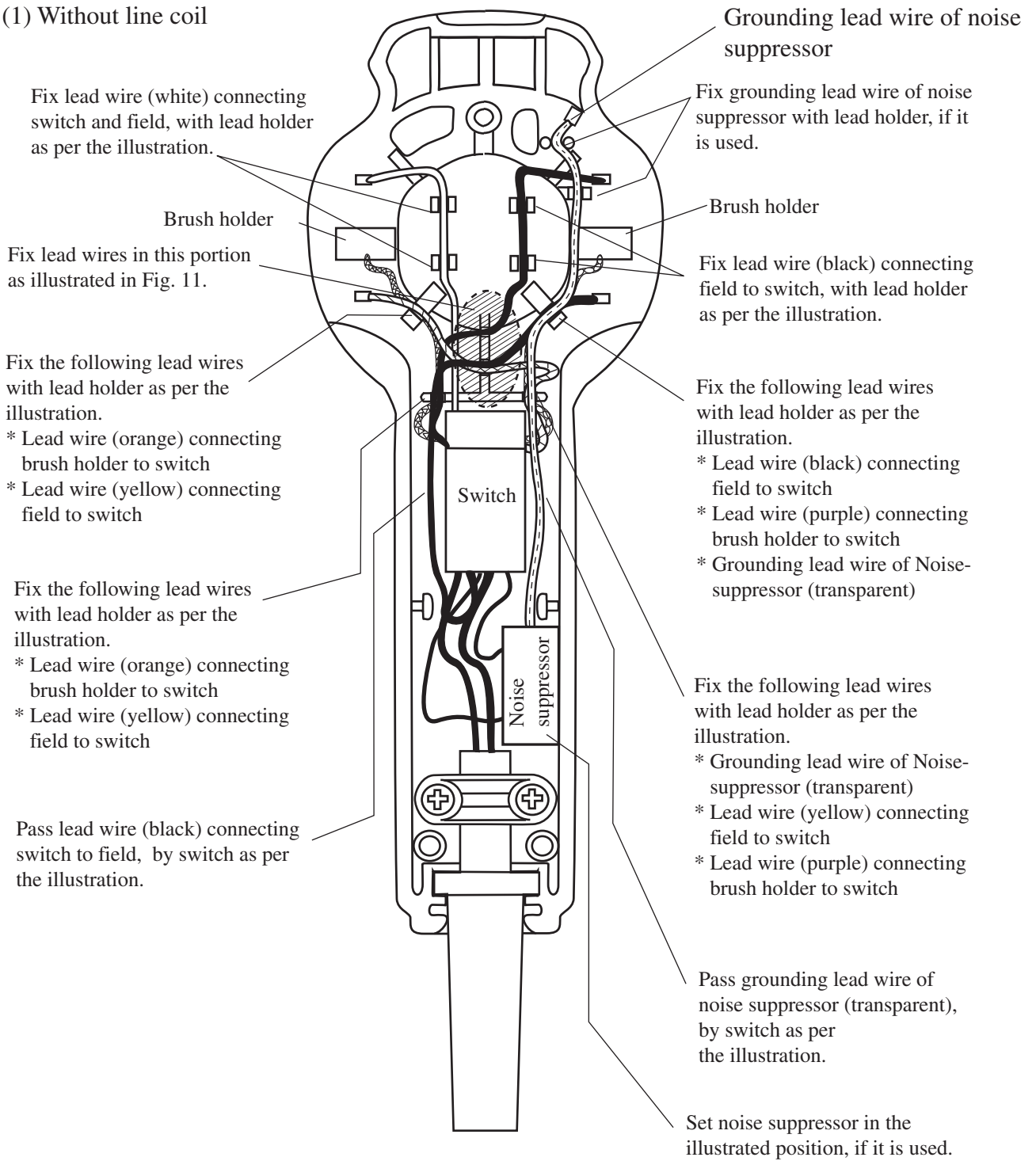
< Note > Noise suppressor is not used in some countries

(2) With line coil



▶ Wiring diagram

(1) Without line coil



(1) With line coil

