

# TECHNICAL INFORMATION



PRODUCT

P 1 / 7

Models No. ▶ 6827

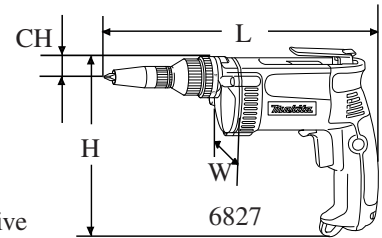
Description ▶ Screwdriver

## CONCEPTION AND MAIN APPLICATIONS

These new models have been developed from Model 6823 for matured line-up of Makita Screwdrivers.

While they have the same powerful motor and the ergonomic designed body as Model 6823 ;

**6827** features the same 6 stage torque control system as Model 6805BV for effective screwdriving of various screws.



Dimensions : mm ( " )	
Length (L)	304 (12)
Height (H)	218 (8-5/8)
Width (W)	70 (2-3/4")
Center height (CH)	23.3 (15/16")

## ► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output(W)
			Input	Output	
120	6.5	50/60	(710)	340	590
220	2.7	50/60	570	260	570
230	2.6	50/60	570	260	570
240	2.5	50/60	570	260	570

No load speed (min-1=rpm)	0 - 2,500
Driving shank : mm ( " )	6.35 (1/4)
Max. driving capacity	Self drilling screw 6mm (#14) Hex screw 6mm (#14) Machine screw M8 (5/16")
Fastening torque adjustment	Yes (6 stages)
Fastening depth adjustment	Yes
Reverse switch	Yes
Retractable belt clip	Yes
Soft-grip handle	Yes
Protection from electric shock	by double insulation
Cord length : m (ft)	2.5 (8.2) / 4.0m (13.1) for Europe
Weight : Kg (lbs)	1.8 (4.0)

## ► Standard equipment

\* Plastic case ..... 1 pc.

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

## ► Optional accessories

\* Various philips bits and socket bits  
\* Various magnetic socket bits

\* Front cap 12  
\* Front cap 15.5  
\* Front cap 1/4  
\* Front cap 5/16  
\* Front cap 3/8  
\* Front cap 5/16

## < 1 > Lubrication

Apply MAKITA Grease N No.1 to the parts illustrated in Fig. 1.

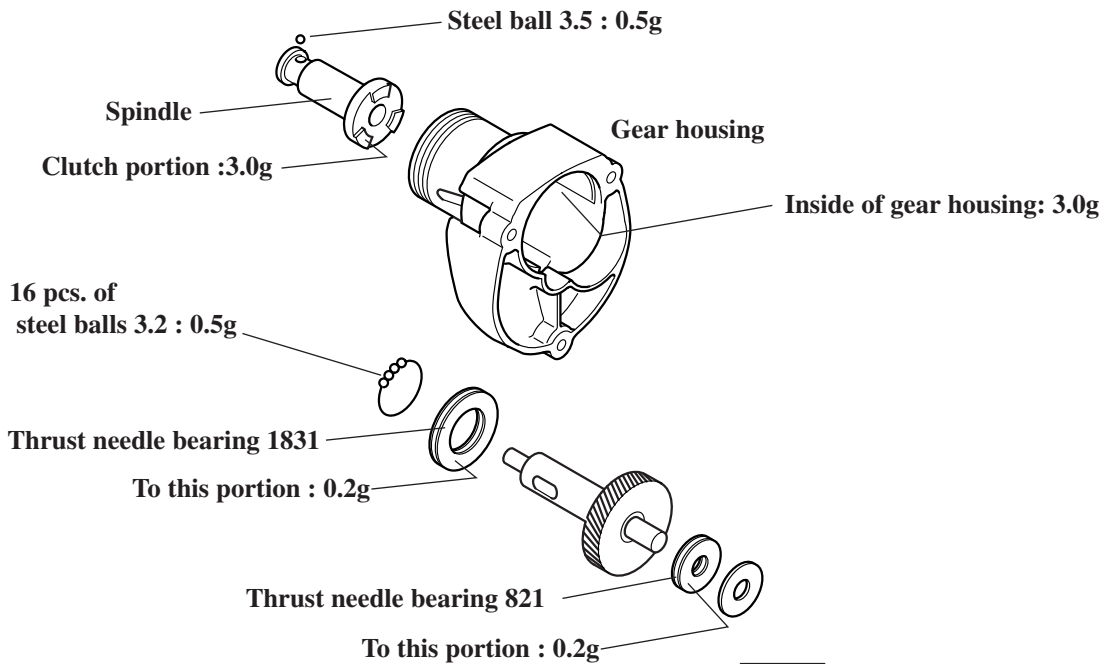


Fig. 1

## < 2 > Disassembling

### (1) Disassembling clutch cover

Disassemble clutch cover by turning it clockwise as illustrated in Fig. 2.

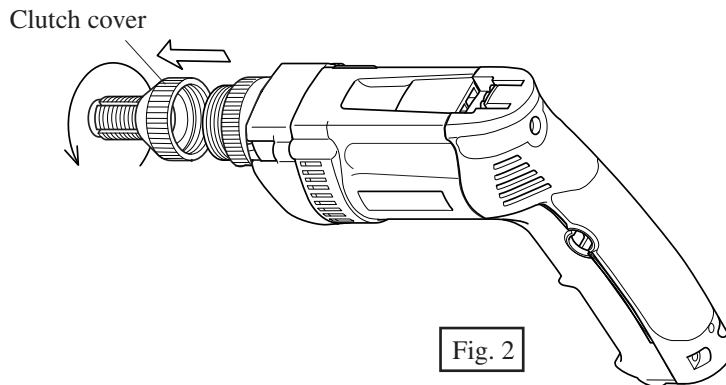


Fig. 2

### (2) Disassembling ring 36

Disassemble ring 36 by turning it anti-clock wise as illustrated in Fig. 3.

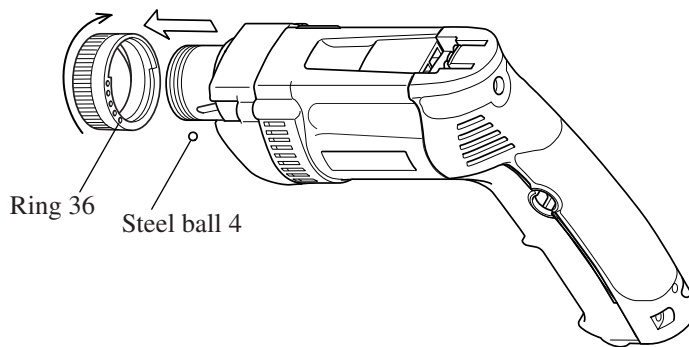


Fig. 3

< Note > Pay attention, not to lose steel ball 4 in this process.

(3) Disassembling ball bearing 606

Disassemble ball bearing 606 by striking gear housing with plastic hammer as illustrated in Fig. 4.

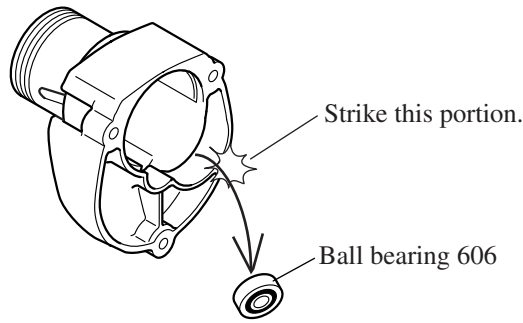


Fig. 4

(4) Disassembling torque adjusting section

Take off torque adjusting section after removing 2 pcs. of pins 4 and gear complete 17-35 as illustrated in Fig. 5 and Fig. 5A..

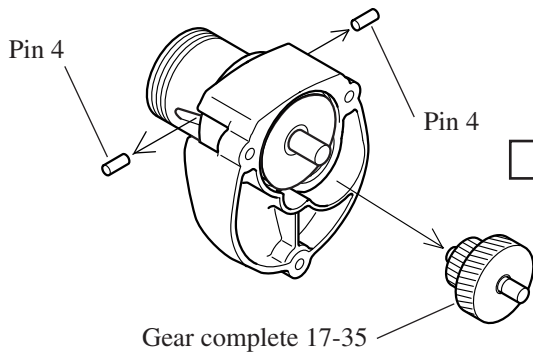


Fig. 5

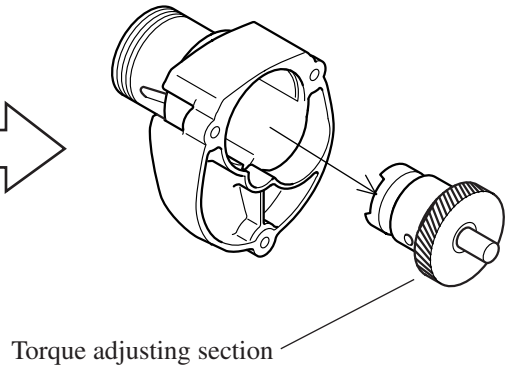


Fig. 5A

Turn the handle of large gear extractor clockwise, so clutch cam is pressed to gear portion, and then 3 pcs. of steel balls 5.6 which is fixing clutch cam on gear complete, can be taken off from gear complete.

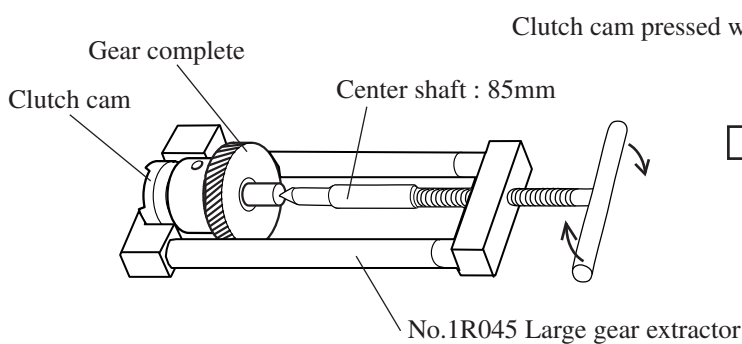


Fig. 6

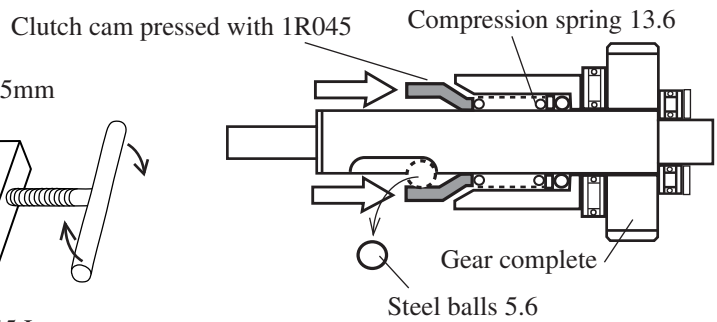


Fig. 6A

After removing 3 pcs. of steel ball 5.6, the torque adjusting section can be disassembled as illustrated in Fig. 6B.

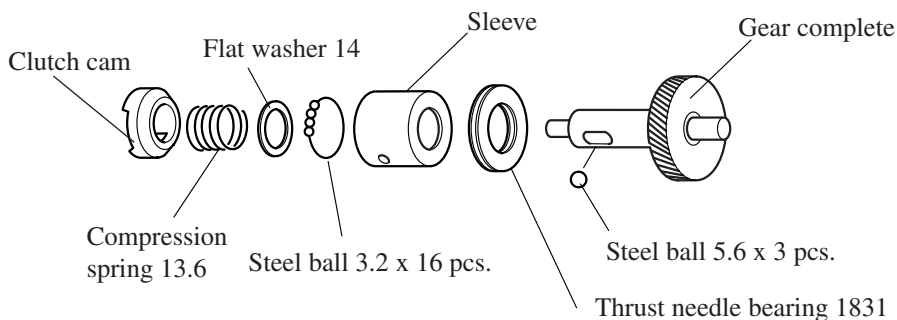


Fig. 6B

< 3 > Assembling

(1) Assembling torque adjusting section See Fig. 7.

Assemble the following parts to gear complete.

- \* Thrust needle bearing 1831
- \* Sleeve

Place flat washer 14 on the 16 pcs. of steel balls 3.2 which have been put on the bottom of sleeve. And then, place compression spring 13.6 and clutch cam on the flat washer 14.

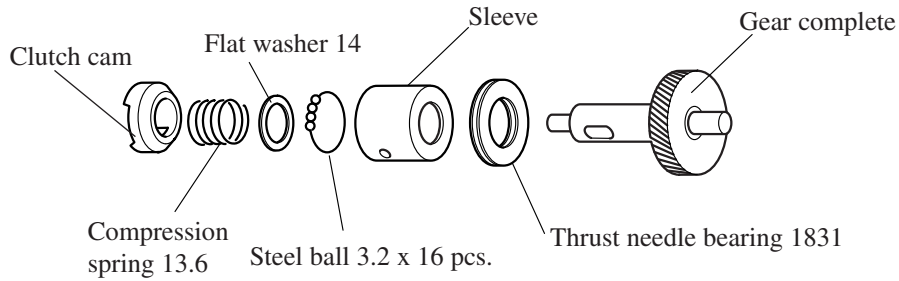


Fig. 7

Place 3 pcs. of steel ball 5.6 into the groove of gear complete by pressing clutch cam with No.1R045 to the gear side as illustrated in Fig. 7A.

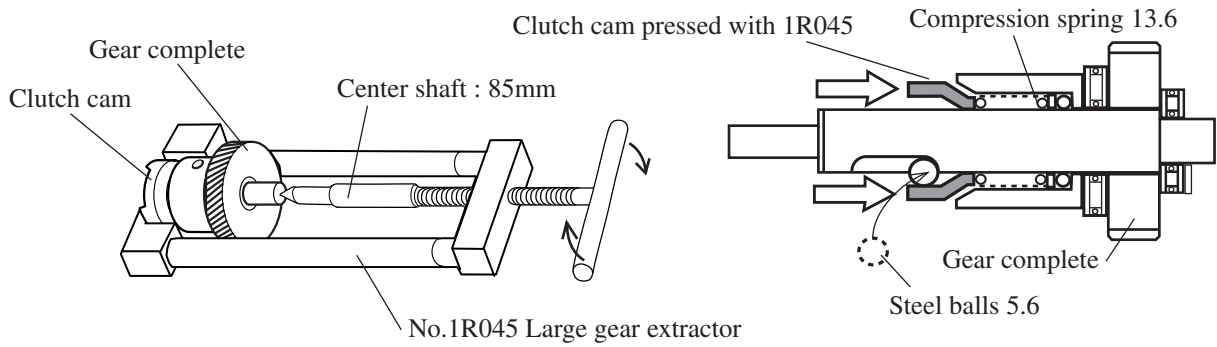


Fig. 7A

(2) Assembling torque adjusting section to gear housing

Assemble torque adjusting section to gear housing with aligning sleeve's hole with elliptic hole of gear housing. And then, assemble 2 pcs. of pins 4 to the elliptic hole of gear housing which has been aligned with sleeve's hole.

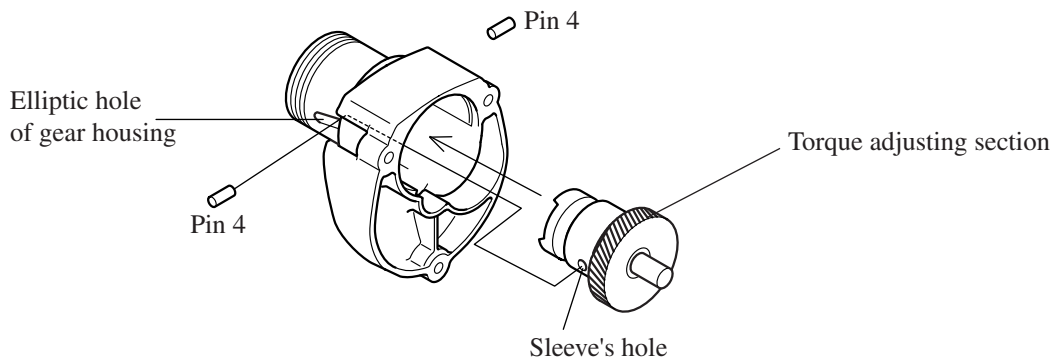
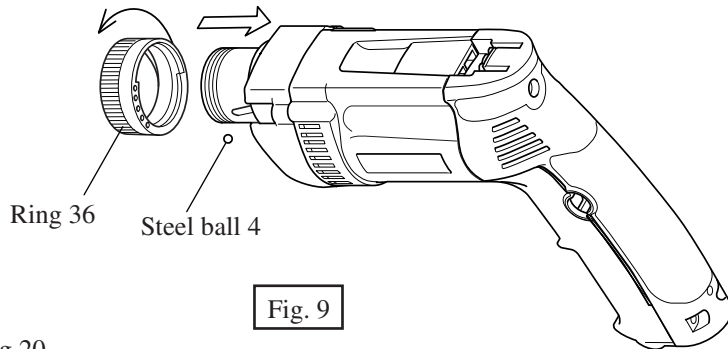


Fig. 8

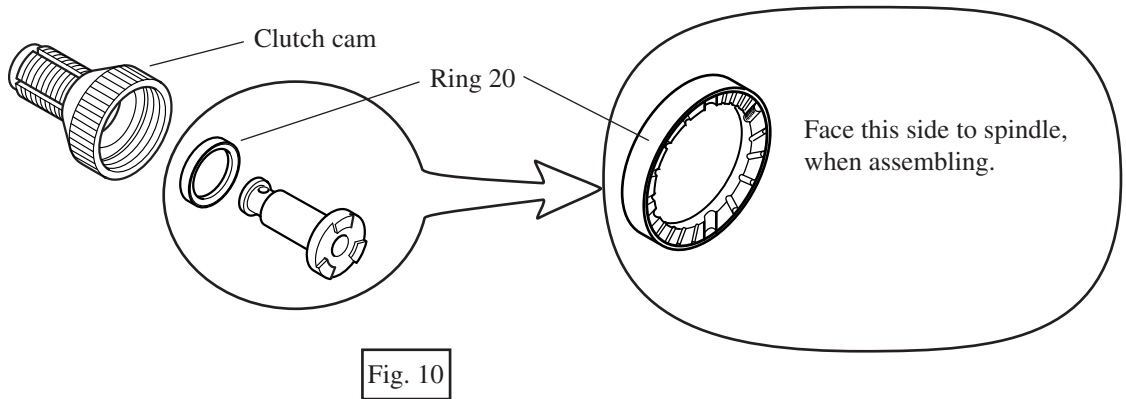
(3) Assembling ring 36

Assemble ring 36 to gear housing by turning it clockwise as illustrated in Fig. 9. Pay attention, not to lose steel ball 4 in this process.



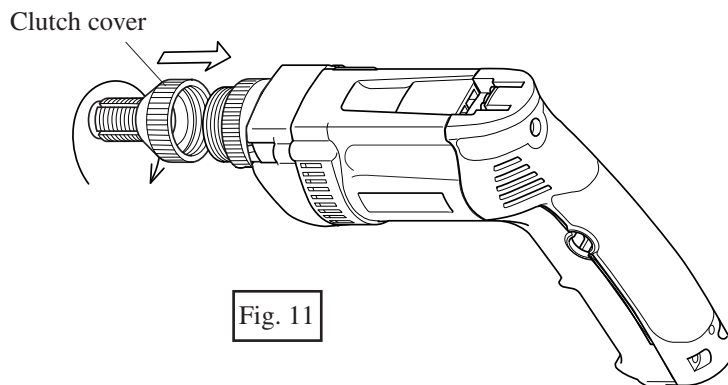
(4) Assembling ring 20

Assemble ring 20 into clutch cover as illustrated in Fig. 10.



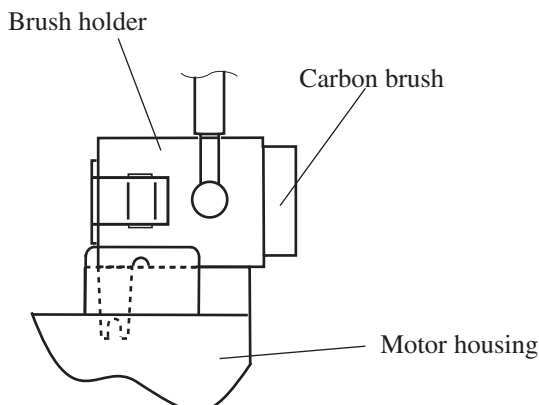
(5) Assembling clutch cover

Assemble clutch cover to gear housing by turning it anti-clockwise as illustrated in Fig. 11.



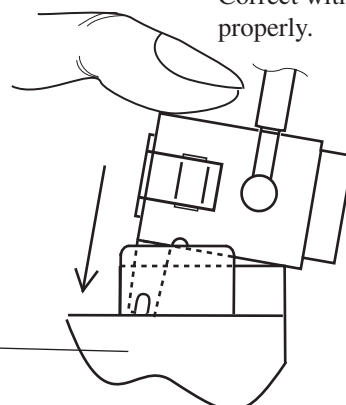
(6) When replacing carbon brush, be sure if brush holder is installed on motor housing properly. And then install handle cover onto motor housing. (see Fig. .12.)

< Properly installed carbon brush >



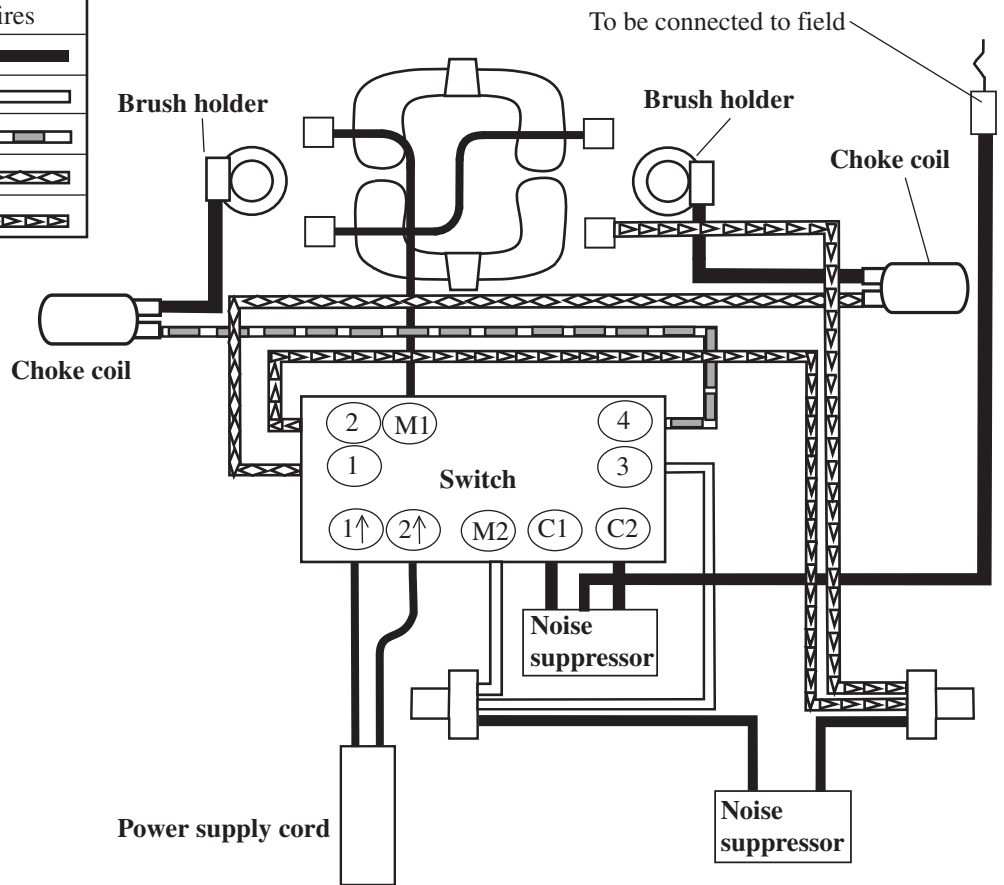
< Incompletely installed carbon brush >

Correct with your finger to install properly.

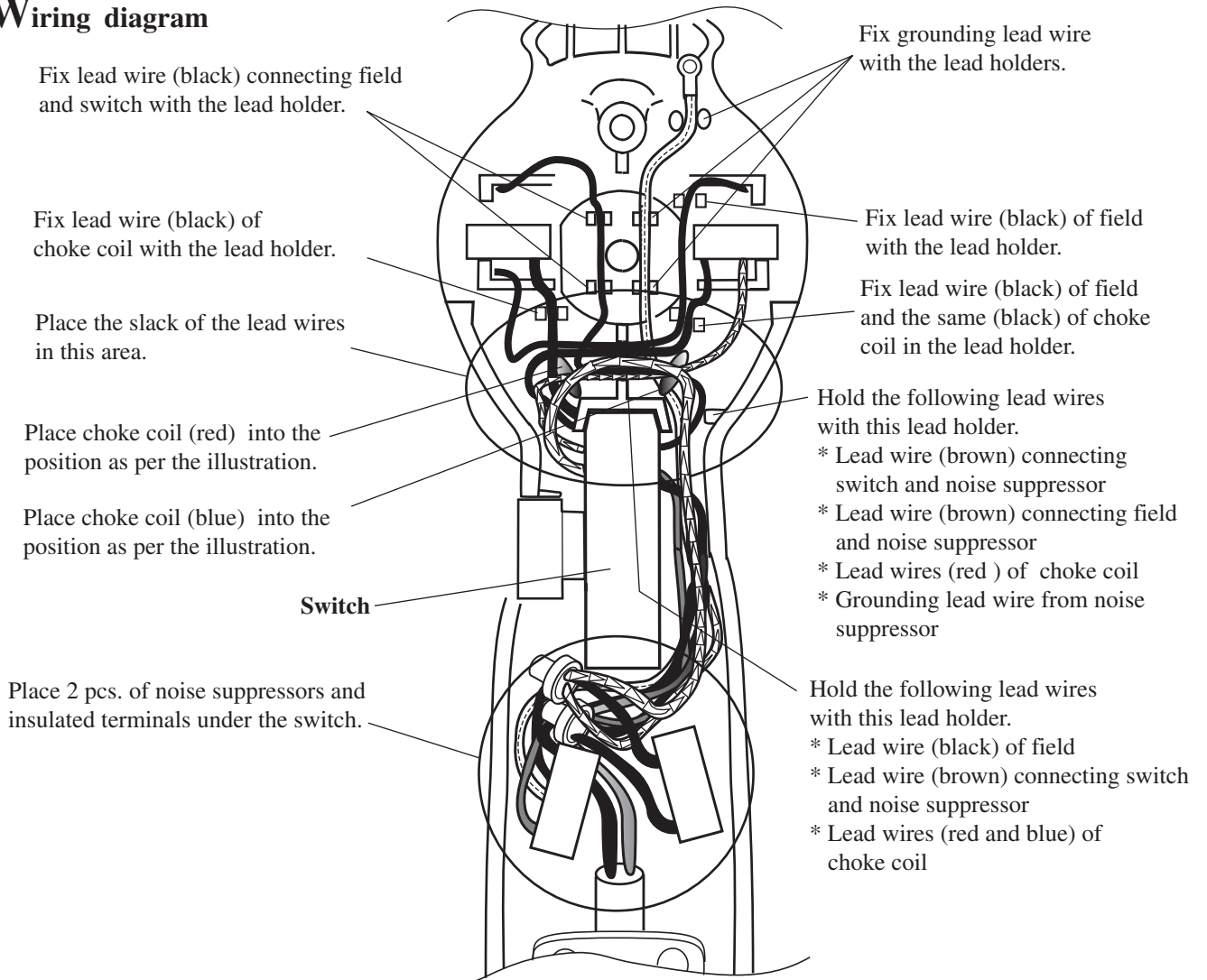


► **Circuit diagram (for the market where noise suppressor is required.)**





Color index of lead wires	
Black	
White	
Red	
Blue	
Brown	

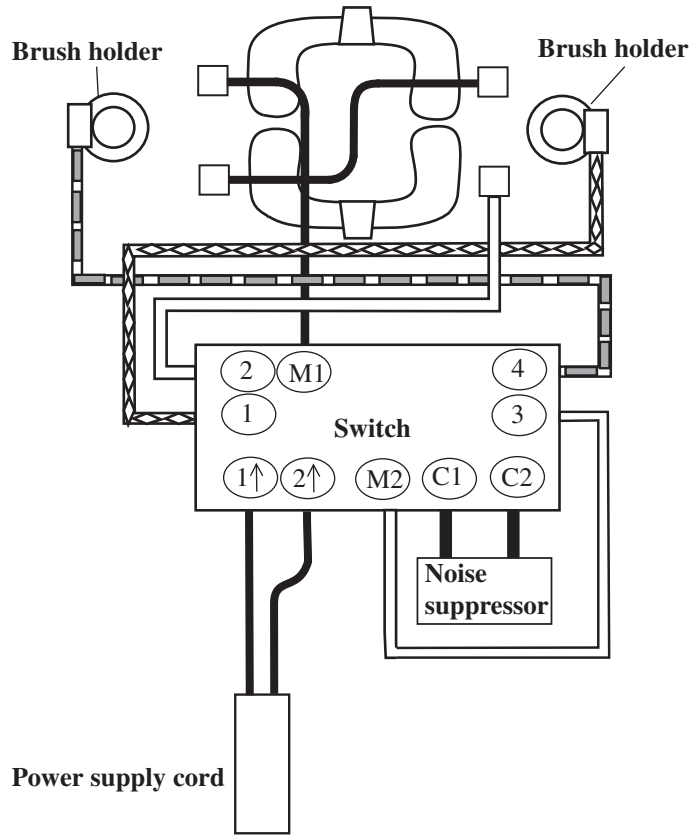


► **Wiring diagram**



▶ **Circuit diagram**

Color index of lead wires	
Black	
White	
Red	
Blue	



▶ **Wiring diagram**

