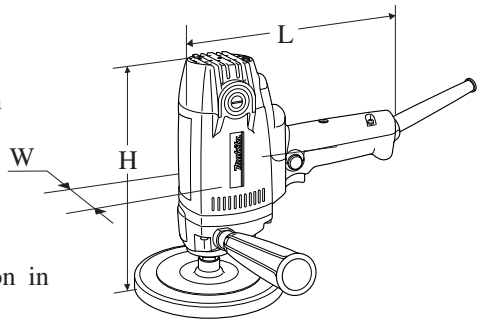
TECHNICAL INFORMATION

Models No. ► PV7000C, PV7001C, PV7001
GV7000C, GV7000

Description ► PV7000C, PV7001C, PV7001 : Polisher 180mm
GV7000C, GV7000 : Disc Sander 180mm



Dimensions : mm (")	
Length (L)	210 (8-1/4)
Height (H)	220 (8-5/8)
Width (W)	82 (3-1/4)

CONCEPTION AND MAIN APPLICATIONS

PV7000C, PV7001C

These polishers have been developed for the most controlled operation in various polishing works, featuring ;

- Compact and light-weighted body
- Electronic control for the least speed reduction
- Variable speed change dial and speed selecting button (low/high) for a wide range of polishing works

*Protection from electric shock
PV7000C : double insulation, PV7001C : by grounding

PV7001

The economy version of PV7001C ;
Features single speed without electronic control.

GV7000C

Easy-to-control Disc Sander has been developed on the same concepts as the PV line-up.
Features variable speed from 2,500 to 4,700 rpm. (without speed selecting button)

GV7000

The economy version of GV7000C ;
Features single speed without electronic control.

► Specifications

Model	Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
				Input	Output	
PV7000C PV7001C GV7000C	100	9.5	50/60	900	400	1,000
	110	8.6	50/60	900	400	1,000
	120	7.9	50/60	900	400	1,000
	220	4.3	50/60	900	400	1,000
	230	4.1	50/60	900	400	1,000
	240	3.9	50/60	900	400	1,000

Model	Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
				Input	Output	
PV7001 GV7000	100	5.8	50/60	550	300	450
	110	5.3	50/60	550	300	450
	120	4.8	50/60	550	300	450
	220	2.6	50/60	550	300	450
	230	2.5	50/60	550	300	450
	240	2.4	50/60	550	300	450

	PV7000C	PV7001C	PV7001	GV7000C	GV7000
No load speed : min-1=rpm	600 / 600 - 2,000 (Changeable)		1,700	2,500 - 4,700	4,700
Polishing/sanding capacity : mm (")	Wool bonnet 180 (7)			Abrasive disc 180 (7)	
Speed electing button for Low (single) or High (variable)	Yes		No	No	
Variable speed control dial	Yes		No	Yes	No
Electronic speed control	Yes		No	Yes	No
Electronic soft start	Yes		No	Yes	No
Protection from electric shock	Double insulation	By grounding		Double insulation	
Overall length : mm (")	210 (8-1/4)			210 (8-1/4)	
Net weight : kg (lbs)	2.0 (4.4)			2.0 (4.4)	
Cord length : m (ft)	2.5 (8.2)		4.0 (13.1) for Europe		

Standard equipment

PV7000C, PV7001C, PV7001 :
Wrench 17, Side Grip, Pad 165 (Hook and Loop type)

GV7000C, GV7000 :
Wrench 17, Side Grip, Lock Nut Wrench 28, Sanding Lock Nut,
Abrasive Disc 180 (#80), Rubber Pad 170 (Conventional type)

Note : The standard equipment for the machine may differ from country to country.

Optional accessories

PV7000C, PV7001C, PV7001 :
Sanding Lock Nut, Lock Nut Wrench 28, Sponge Pad 190, Wool Pad 180 (Hook & Loop type),
Abrasive Disc 180 (for sanding metal surface ; #16, #20, #24, #30, #50,#80, #100, #120) Wool Bonnet 180,
Rubber Pad 170 (Conventional type),

GV7000C, GV7000 :
Abrasive Disc 180 (for sanding metal surface) ; #16, #20, #24, #30, #50, #80, #100, #120

<1> Disassembling gear and ball bearing

(1) Disassembling gear housing by unscrewing 4 pcs. of tapping screws 5x40. See Fig.1.

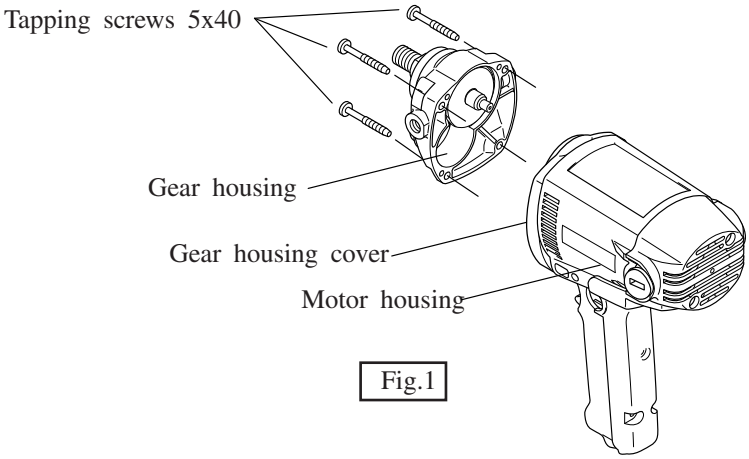


Fig.1

(2) Unscrew bearing retainer clockwise with No.1R043 "wrench for bearing retainer". See Fig.2.

<Note> The bearing retainer can not be separated from gear housing completely in this process, because spindle blocks bearing retainer.

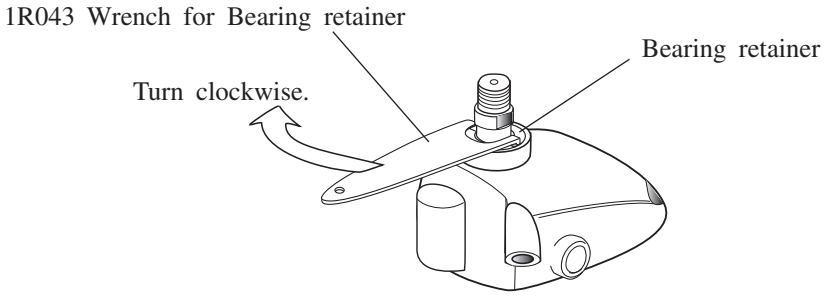


Fig.2

(3) Place gear housing onto No.1R165 "ring spring setting tool B", and press 1R284 "round bar for arbor" which has been placed onto spindle, with arbor press. So spindle can be disassembled from gear housing together with bearing retainer and ball bearing 6201DDW. See Fig.3.

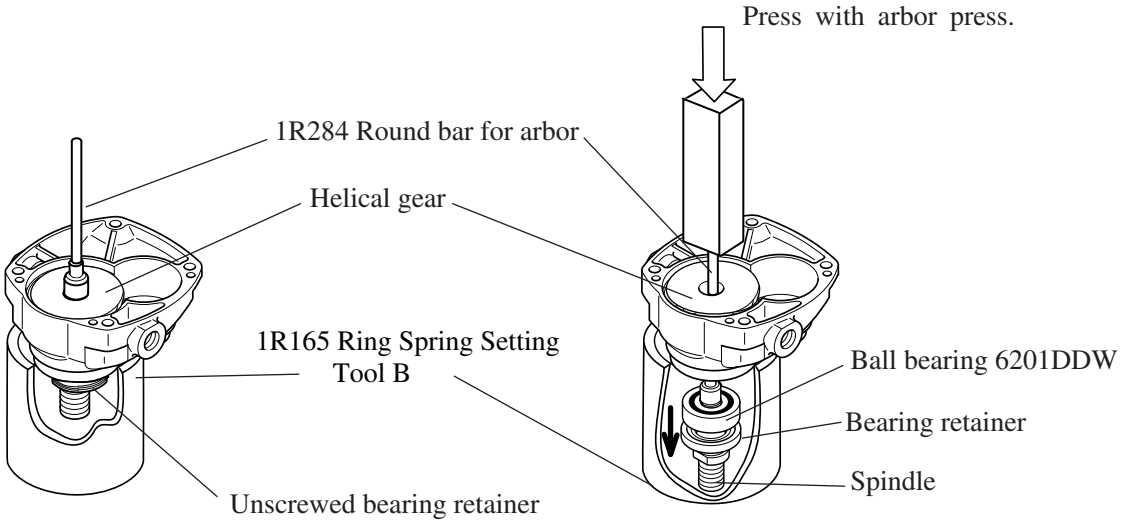


Fig.3

<2> Assembling gear and ball bearing

(1) Assemble oil seal to bearing retainer. And then, assemble spindle to the bearing retainer as illustrated in Fig.4.

(2) Assemble spindle to ball bearing 6201DDW by pressing it as illustrated in Fig.5.

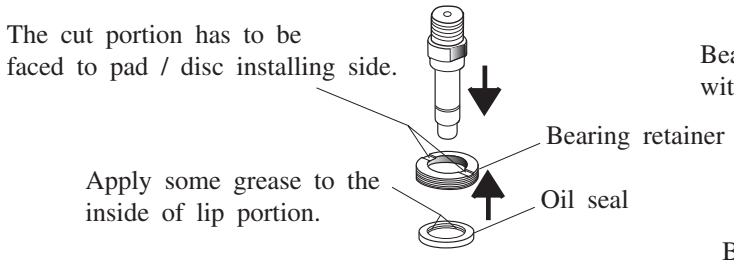


Fig.4

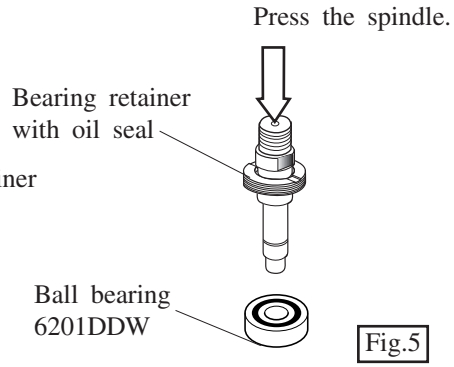


Fig.5

(3) Insert the spindle into gear housing as illustrated in Fig.6. And then, screw bearing retainer anti-clockwise into gear housing as illustrated in fig. 7.

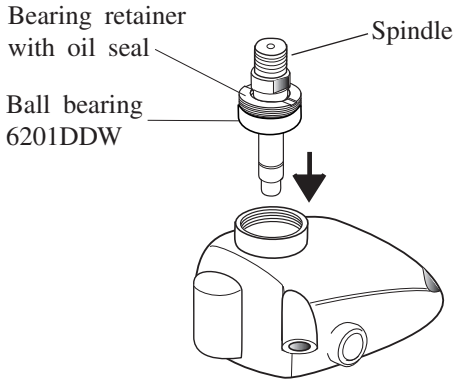


Fig.6

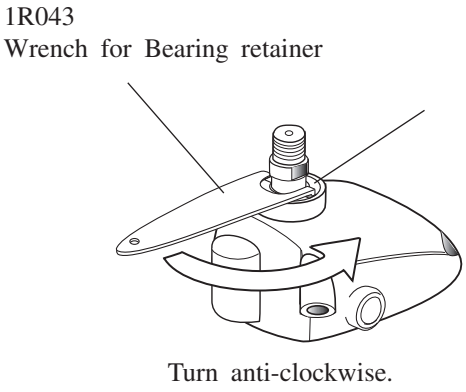


Fig.7

(4) Place the gear housing on No.1R036 "bearing setting plate" And then, assemble sleeve 12 and helical gear to spindle as illustrated in Fig. 8.

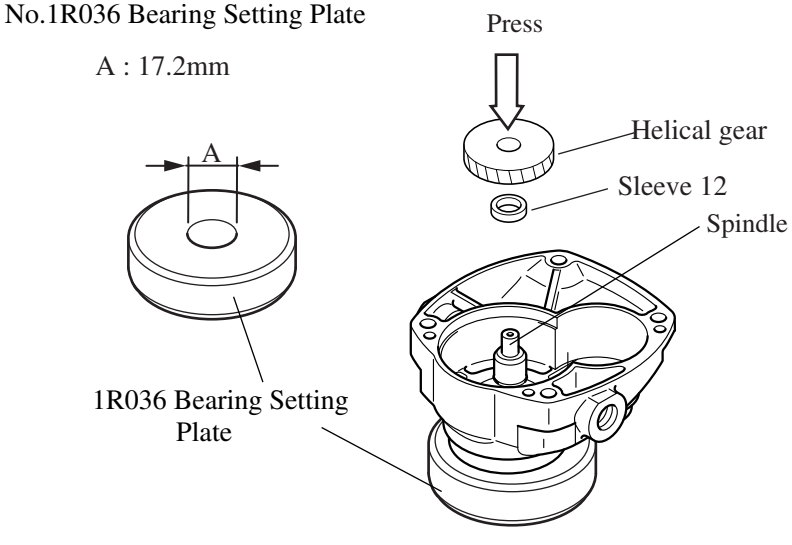


Fig.8

Repair

<3> Disassembling armature

(1) Take off accessories (rubber pad, abrasive disc. etc.) from the machine, and remove carbon brush.

(2) Disassemble gear housing from motor housing by unscrewing 4 pcs. of tapping screws 5x40. See Fig.9. In case of Mod.PV7001 and PV7001C, disconnect the grounding lead wire from gear housing cover by unscrewing pan head screw. See Fig. 9A.

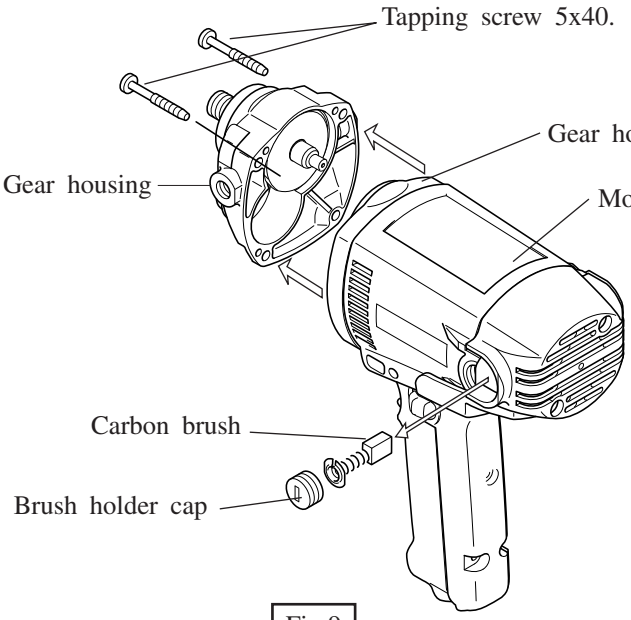


Fig.9

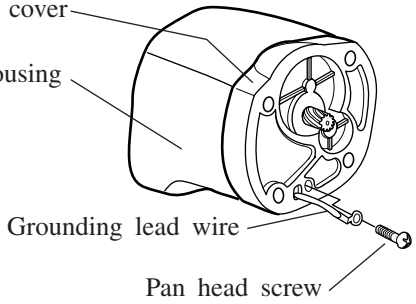


Fig. 9A

(3) Disassemble gear housing cover from motor housing and take out armature from motor housing. See Fig.10.

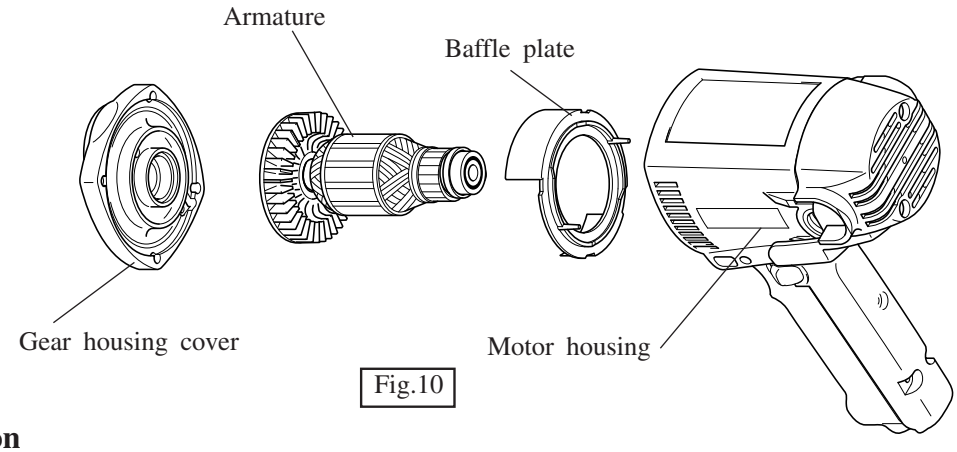


Fig.10

Caution

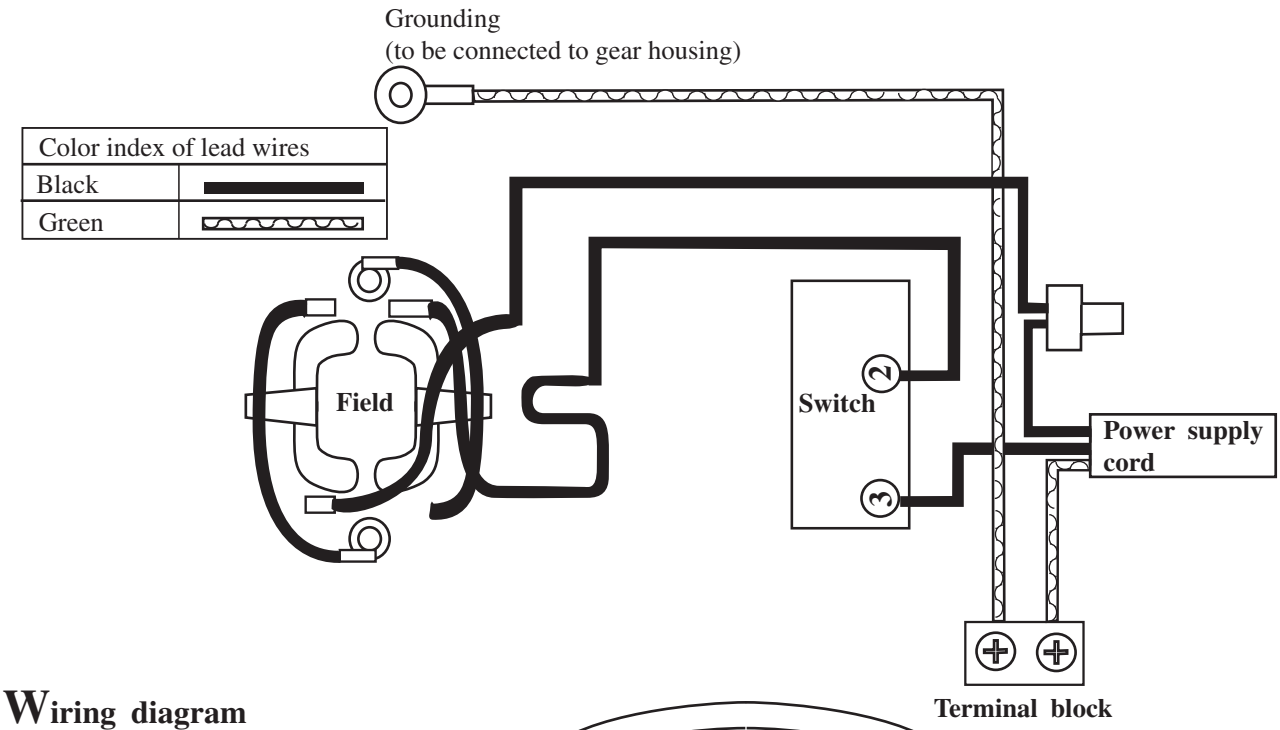
The caution is carved on the side grip for Model PV7000C as illustrated in Fig. 11.
For efficiently prevention of static electricity accumulation, the above side grip is conductive in comparing with other side grips. Therefore, you would not be protected from electric shock, when you would hit the live wire with the other machine equipped with this side grip, for example, drill, hammer drill or angle grinder, etc.

Fig.11

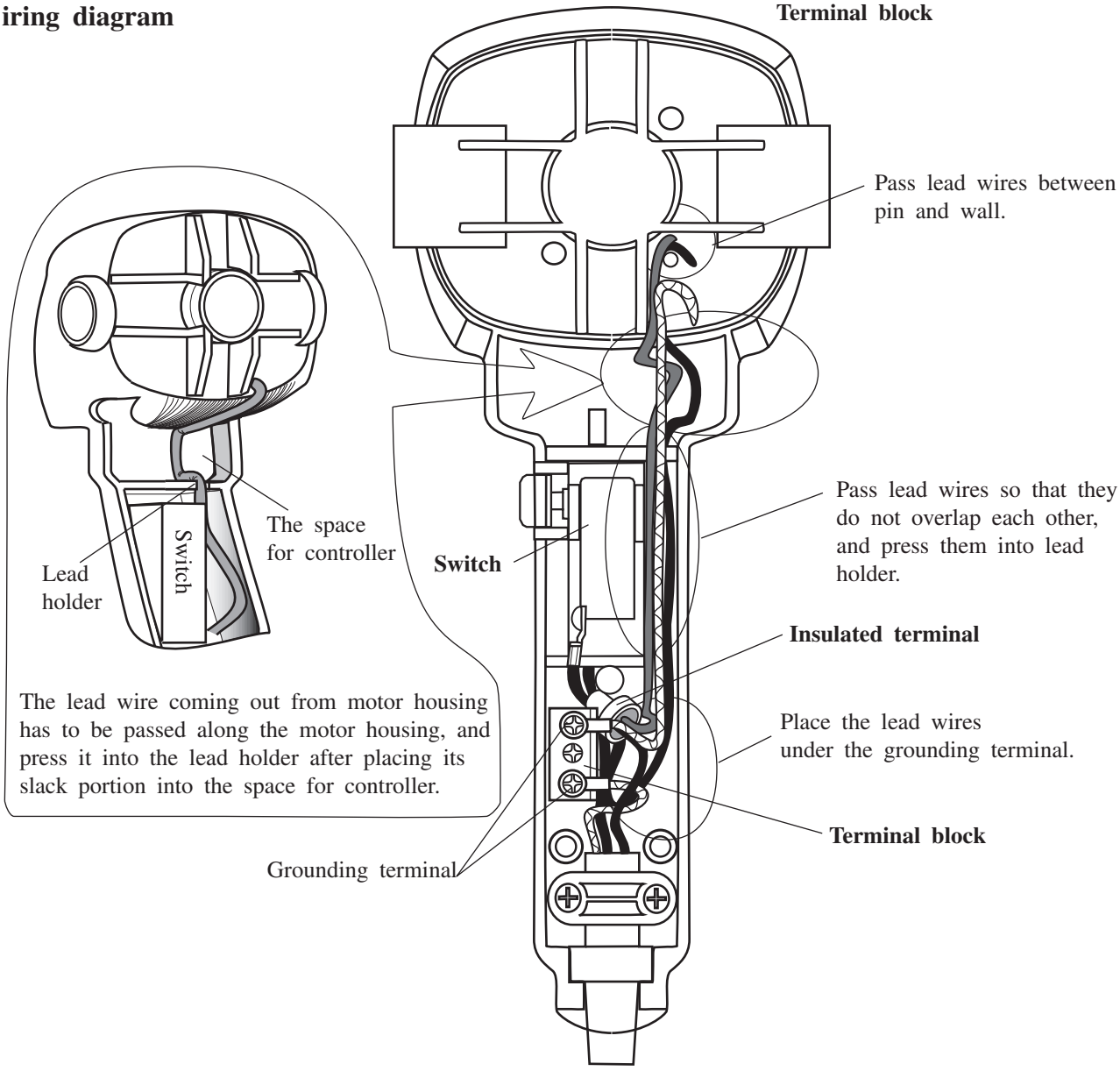
Do not install this side grip on other than PV7000C.

► Circuit diagram

PV7001 (grounding type) equipped with 2 terminal switch, without controller



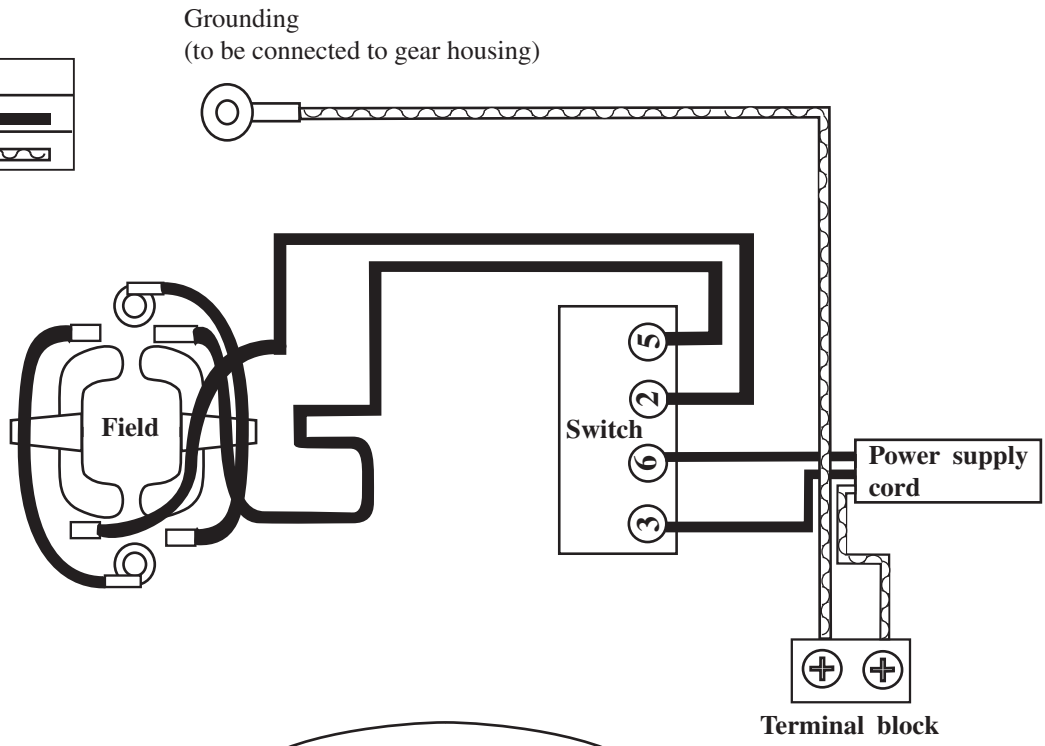
► Wiring diagram



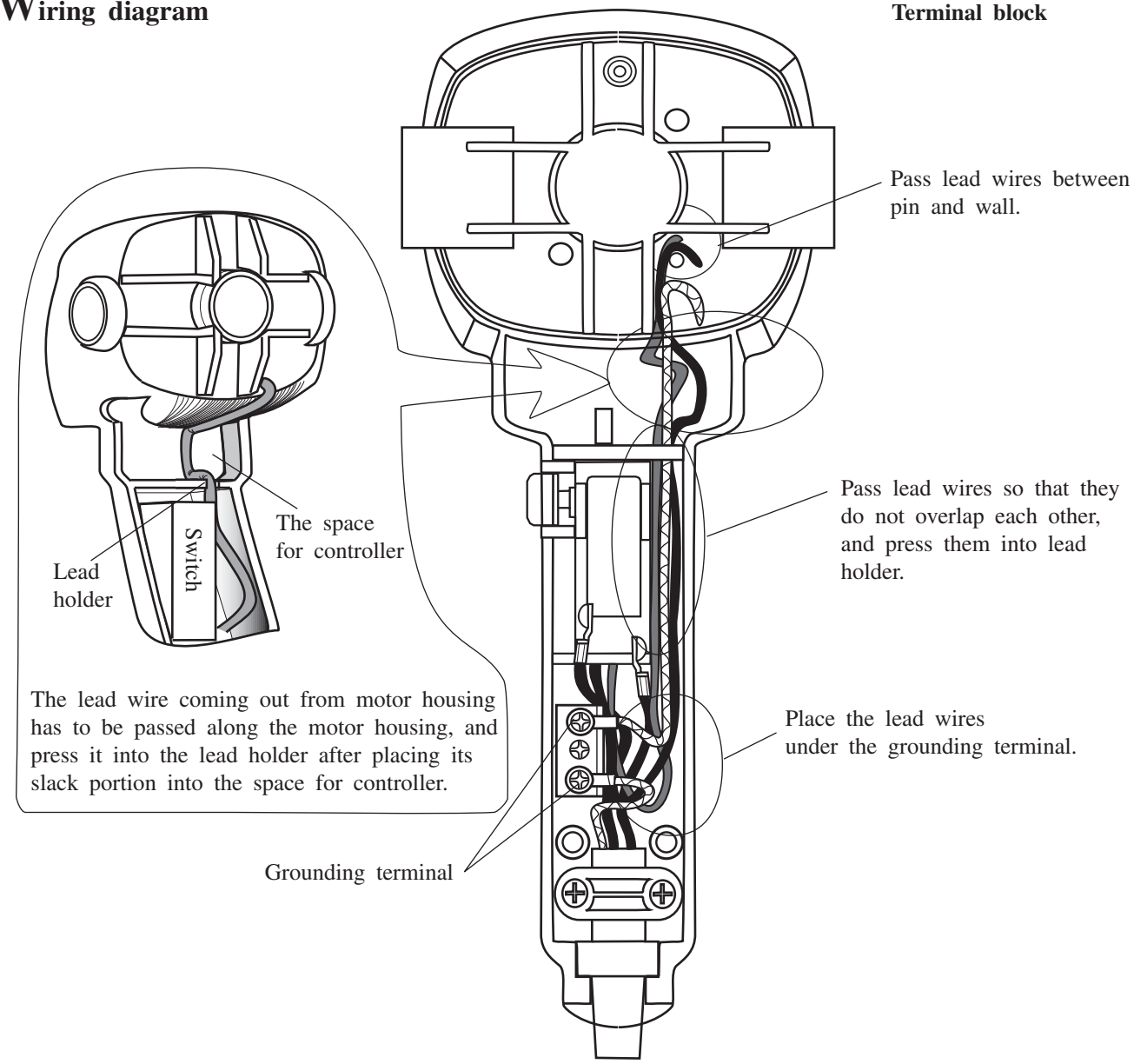
► Circuit diagram

PV7001 (grounding type) equipped with 4 terminal switch, without controller

Color index of lead wires	
Black	
Green	



► Wiring diagram

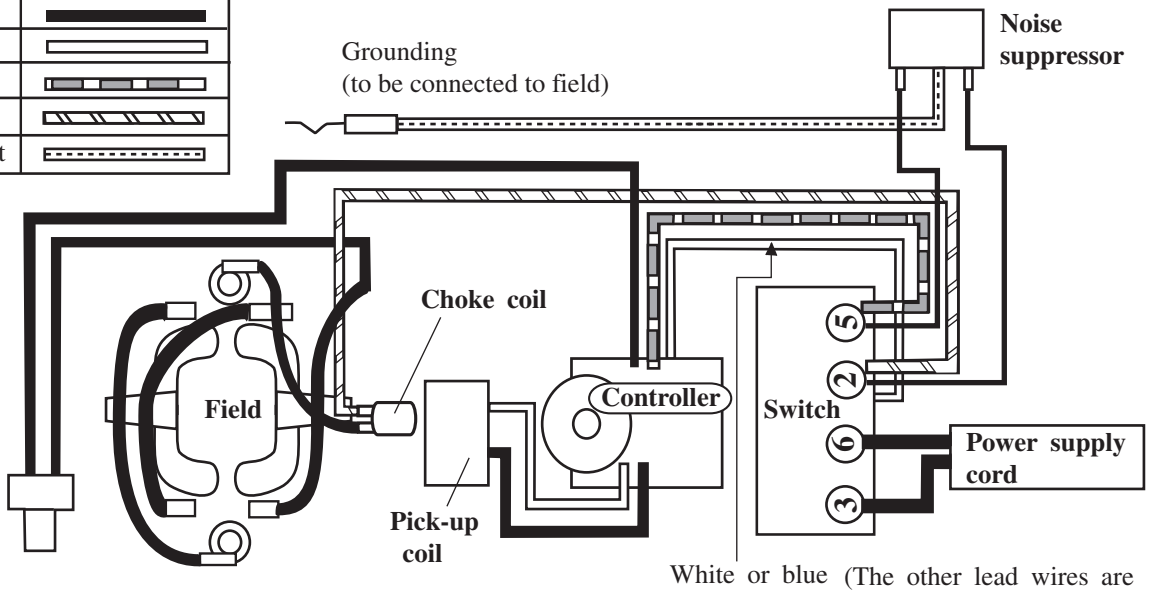


► Circuit diagram

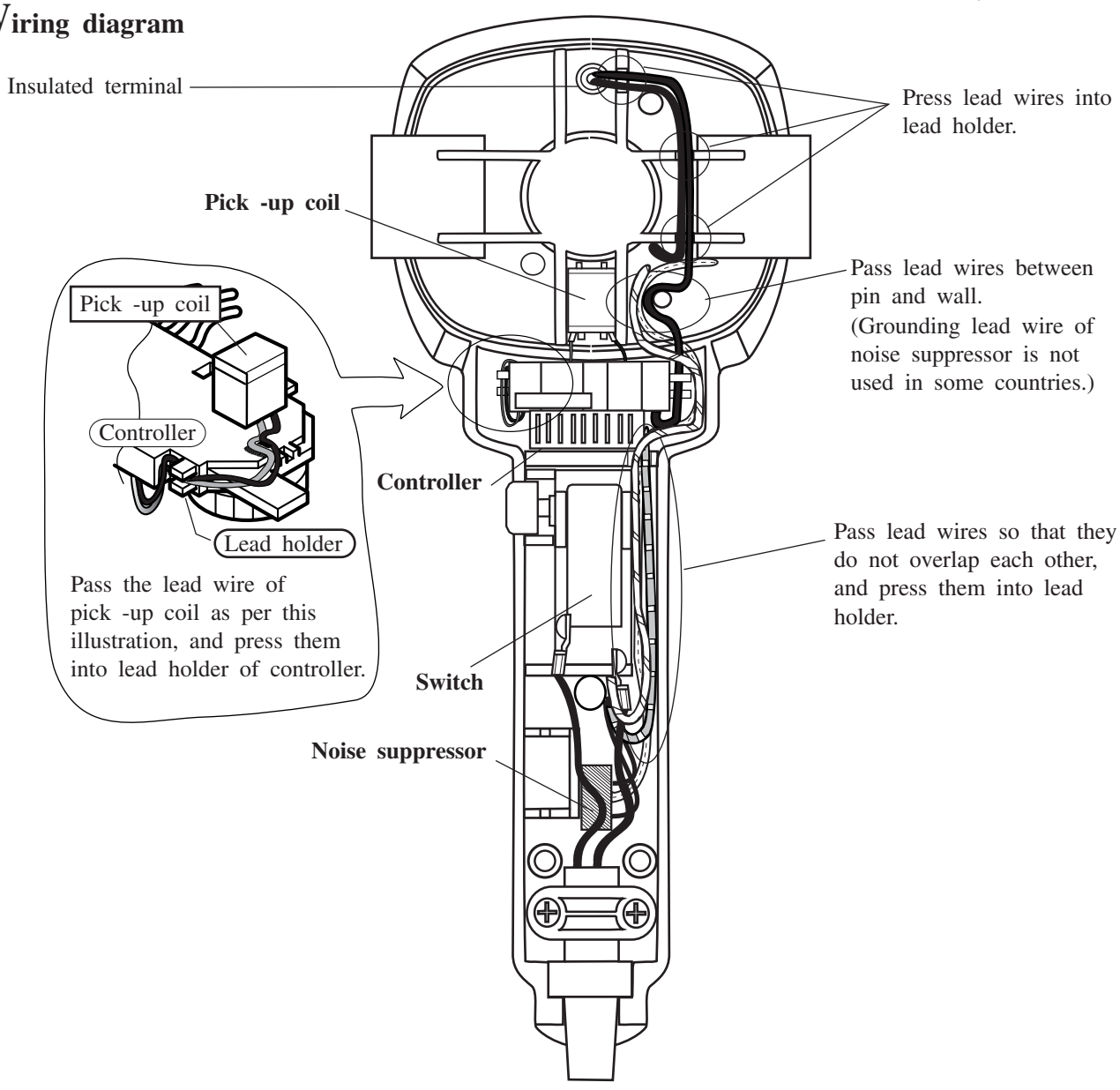
PV7000C equipped with controller, 4 terminal switch, noise suppressor

(for the market where the noise suppressor is required)

Color index of lead wires	
Black	
White	
Red	
Orange	
Transparent	



► Wiring diagram

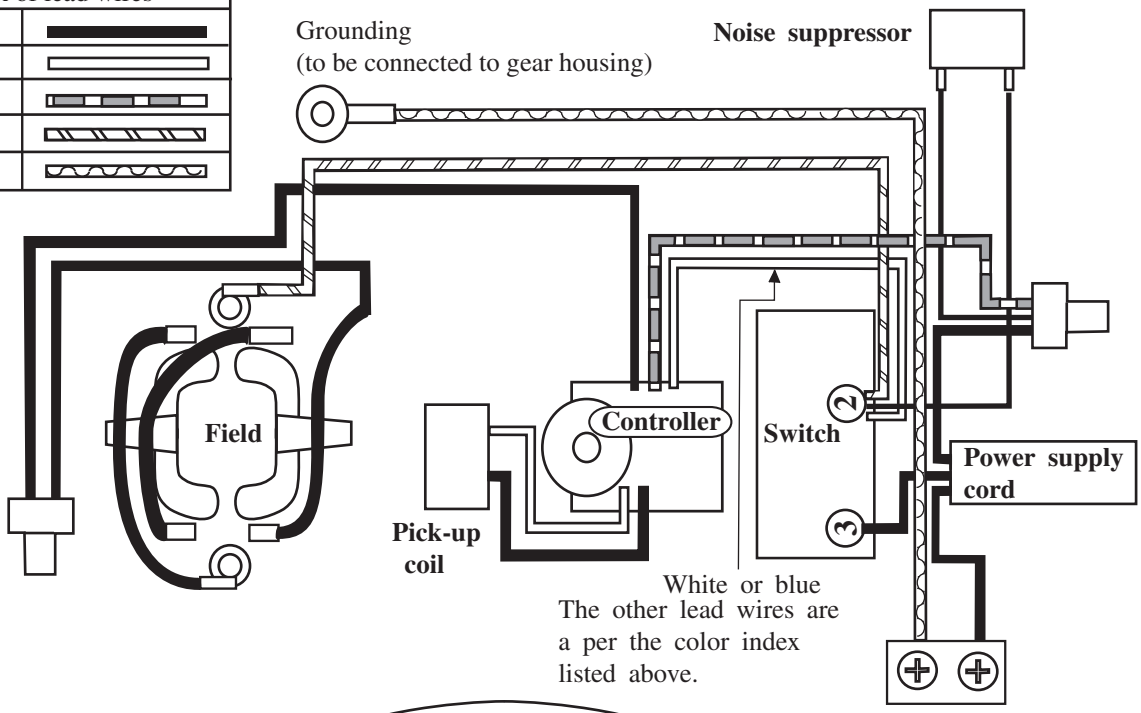


► Circuit diagram

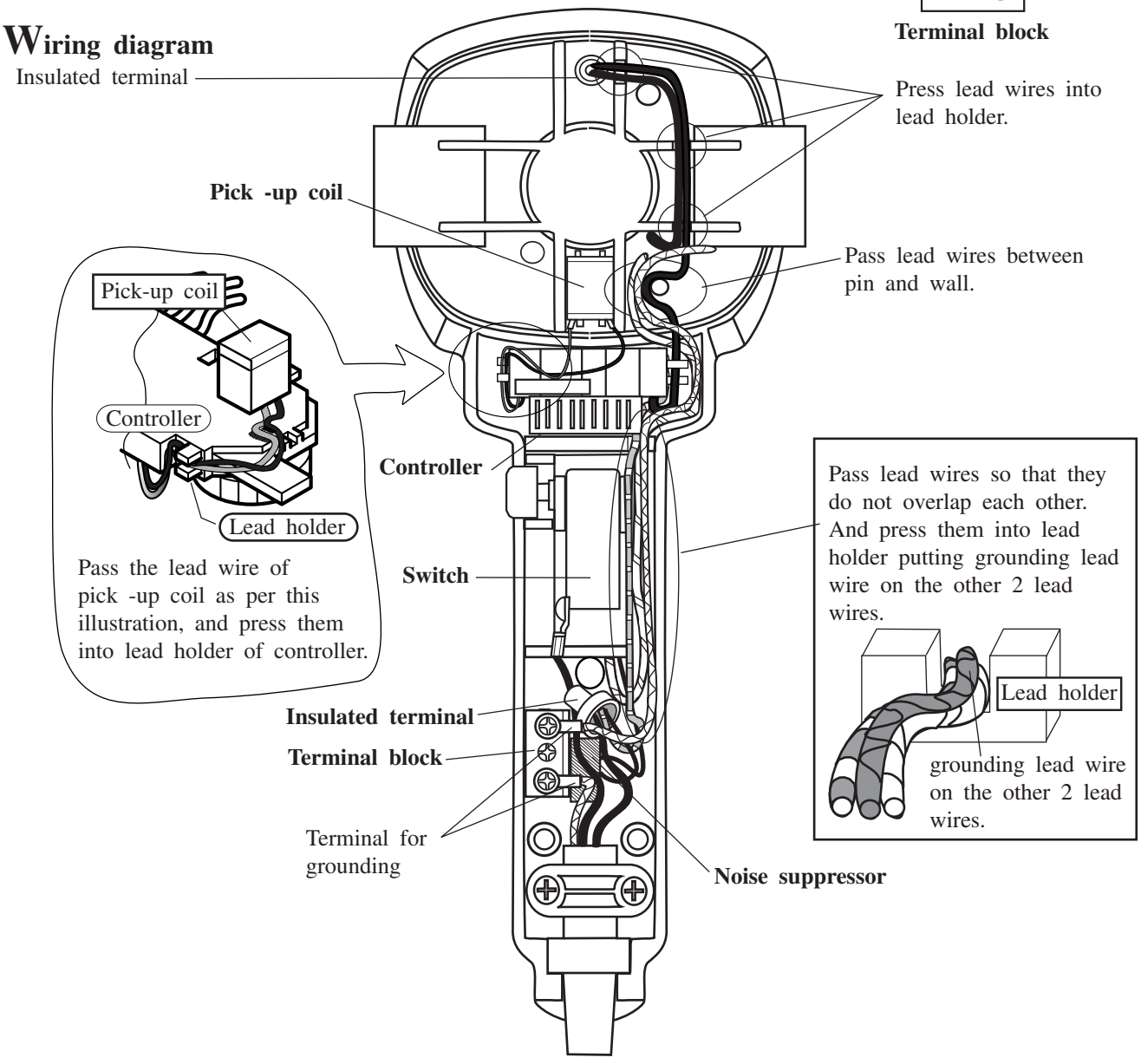
PV7001C (grounding type) equipped with controller and 2 terminal switch

(The noise suppressor is not used in some countries.)

Color index of lead wires	
Black	
White	
Red	
Orange	
Green	



► Wiring diagram

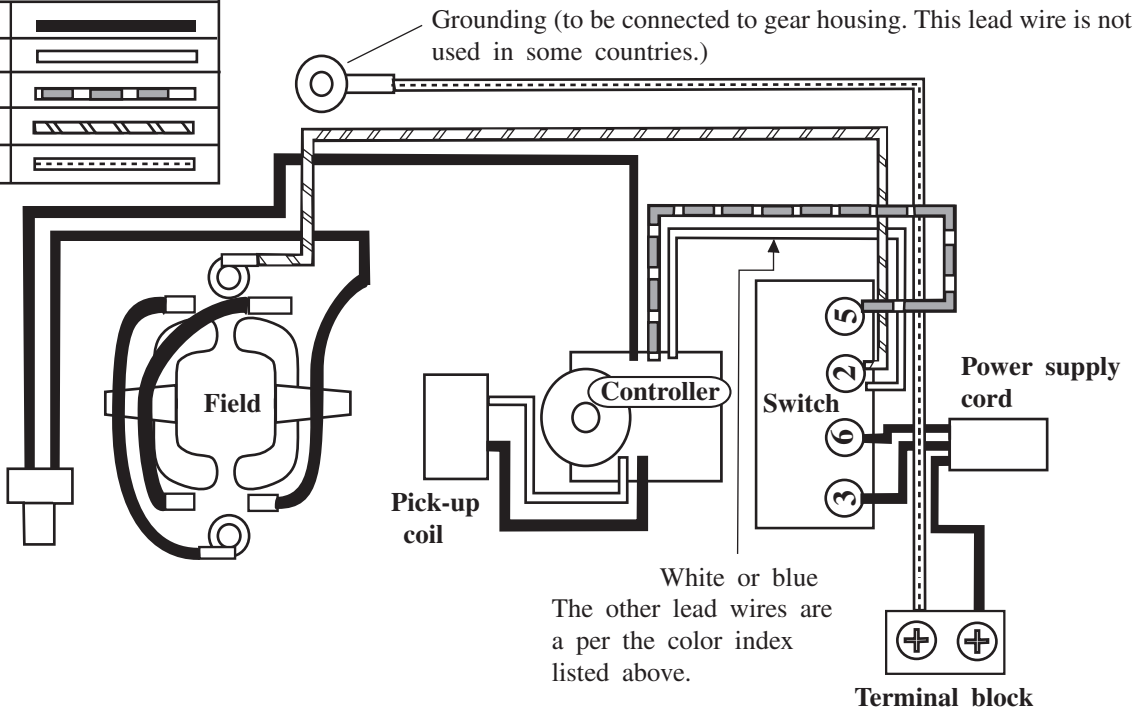


► Circuit diagram

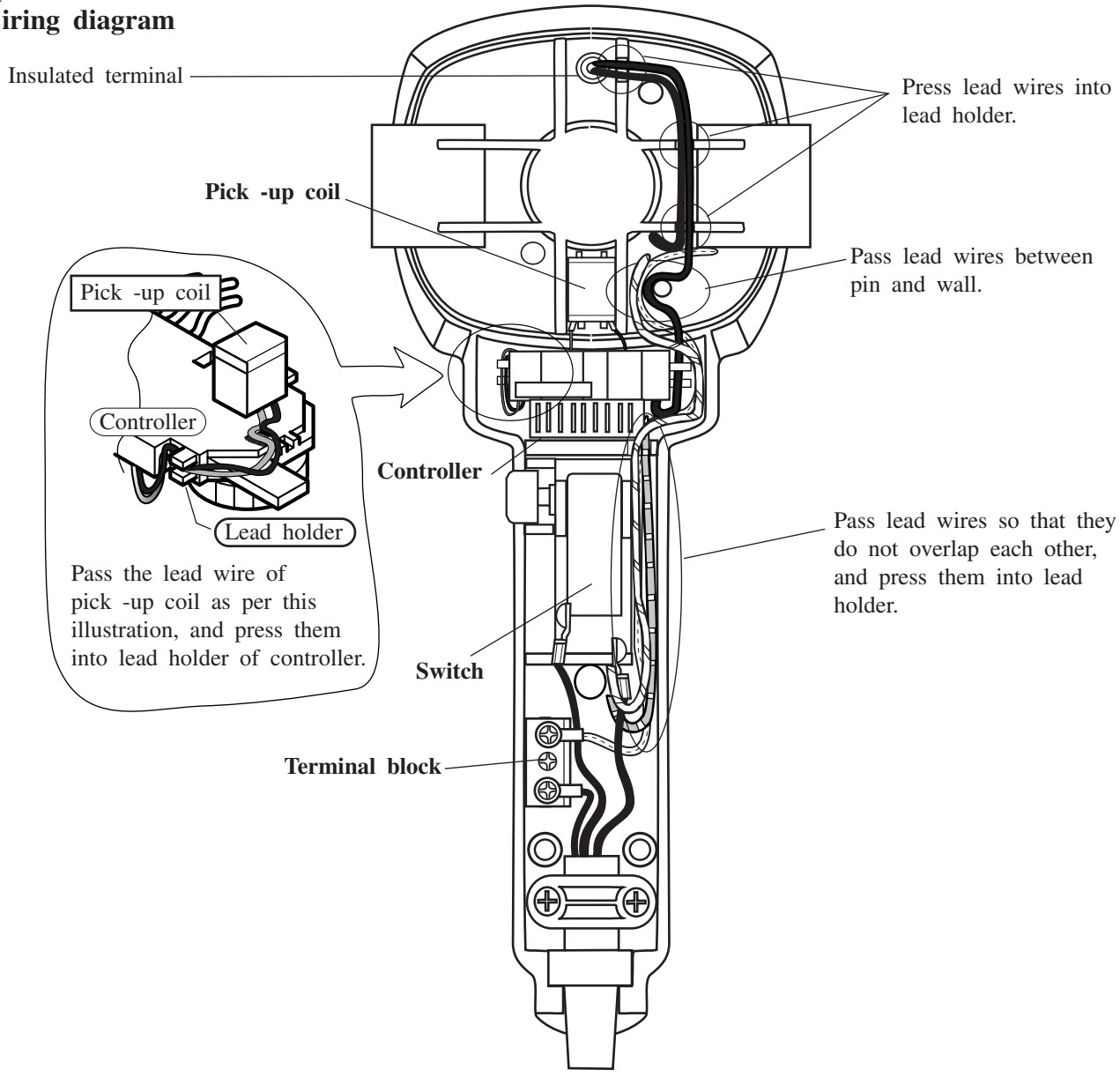
PV7001C (grounding type) equipped with controller and 4 terminal switch

(for the market where the noise suppressor is not required)

Color index of lead wires	
Black	
White	
Red	
Orange	
Transparent	

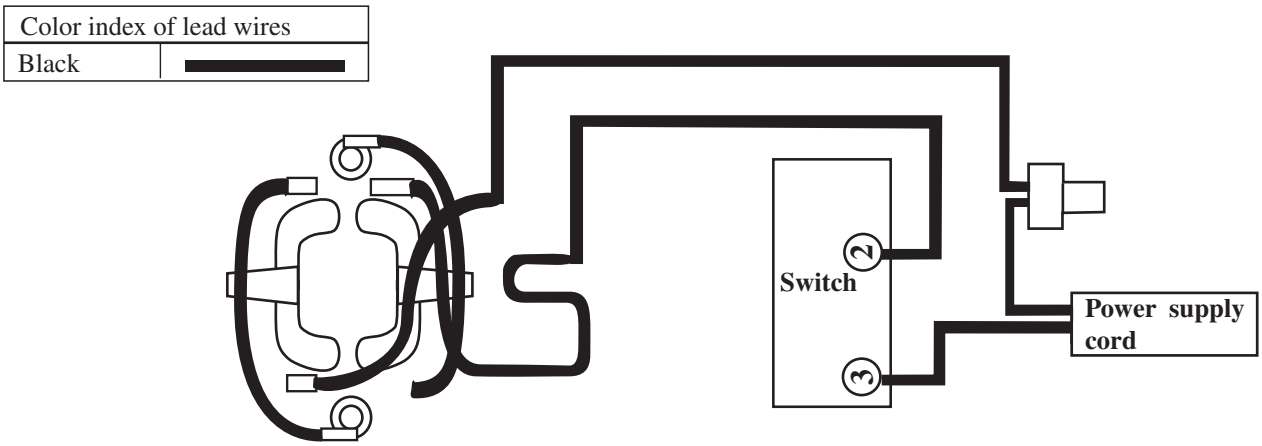


► Wiring diagram

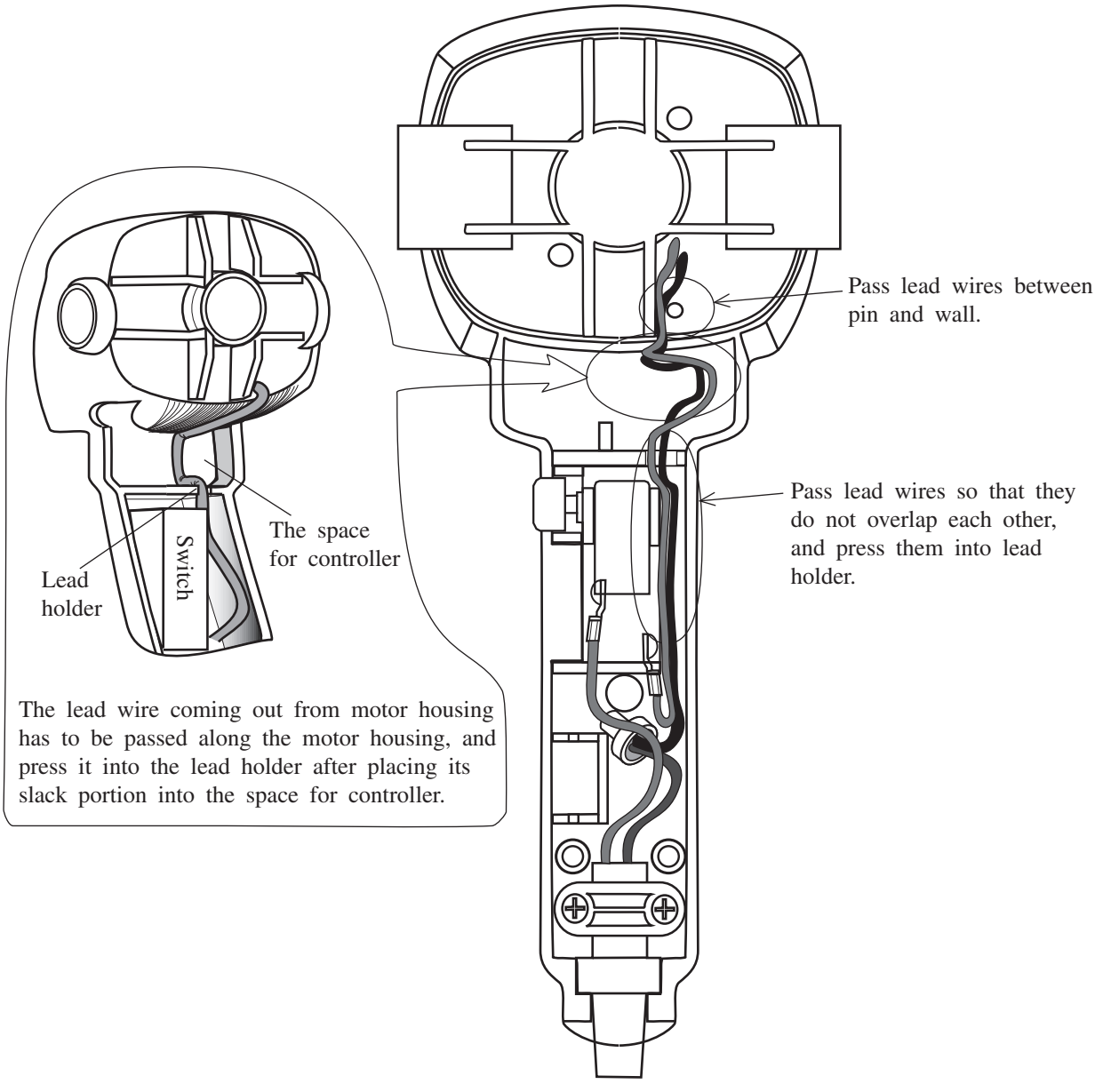


► Circuit diagram

GV7000 equipped with 2 terminal switch, without controller



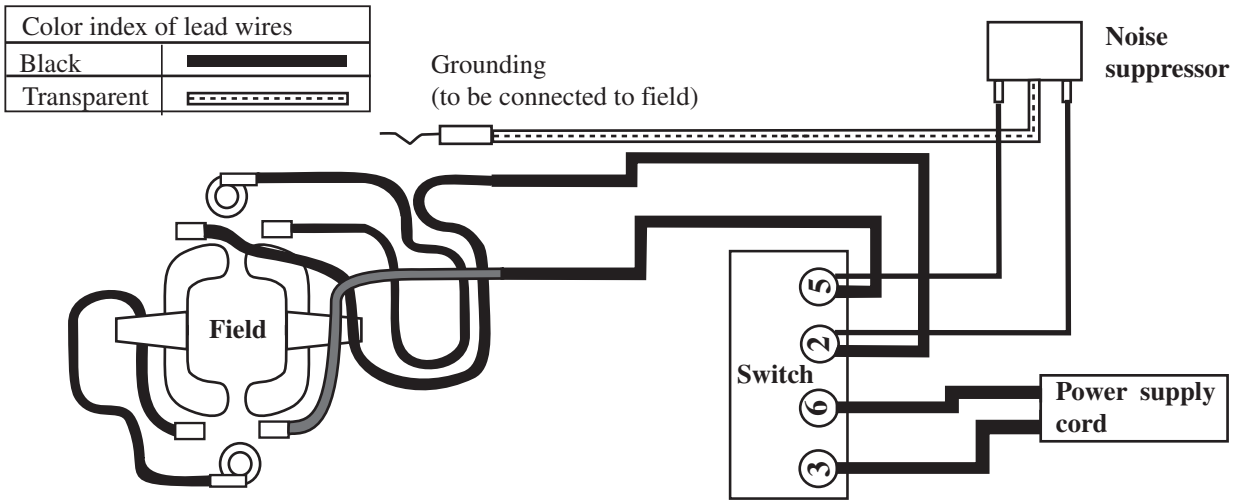
► Wiring diagram



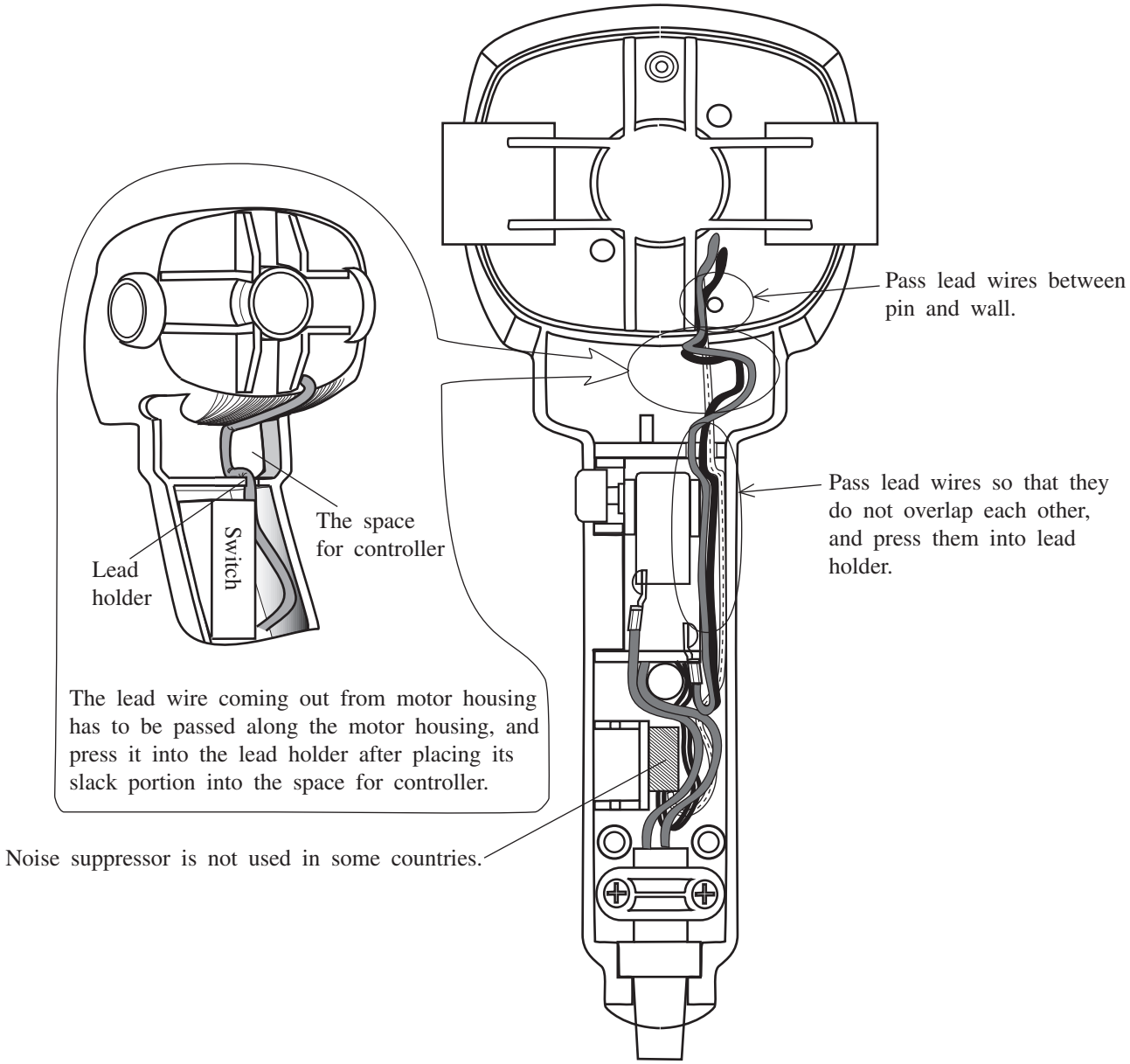
► Circuit diagram

GV7000 equipped with 4 terminal switch and noise suppressor, without controller

(The noise suppressor is not used in some countries.)



► Wiring diagram

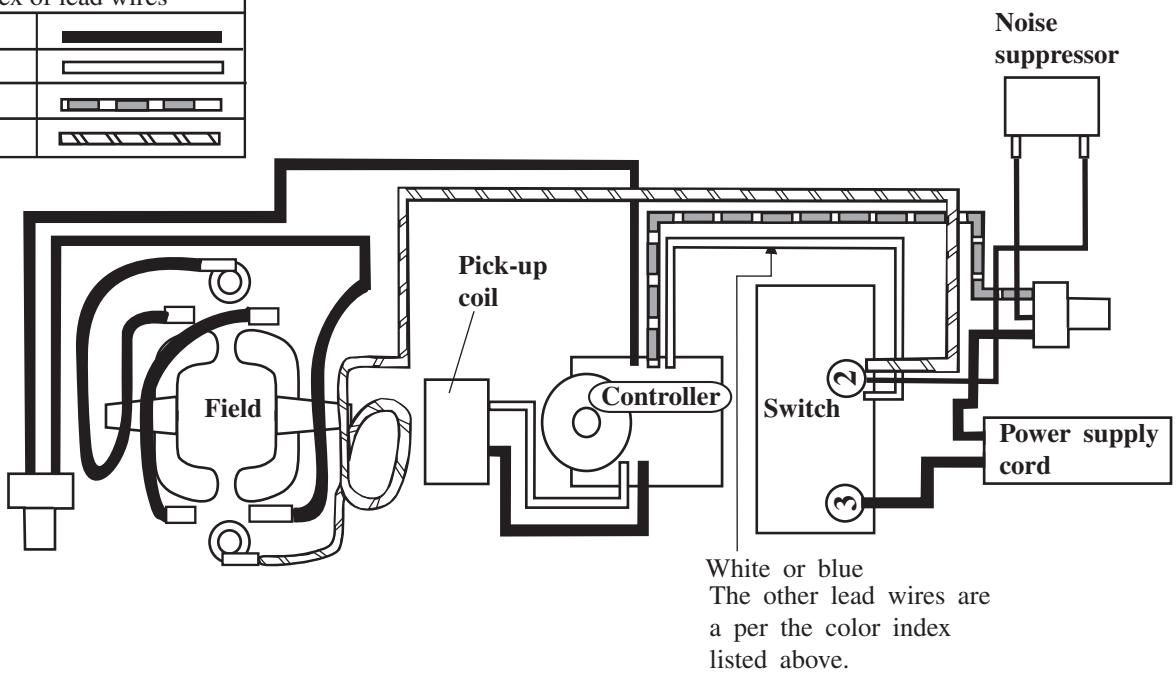


► Circuit diagram

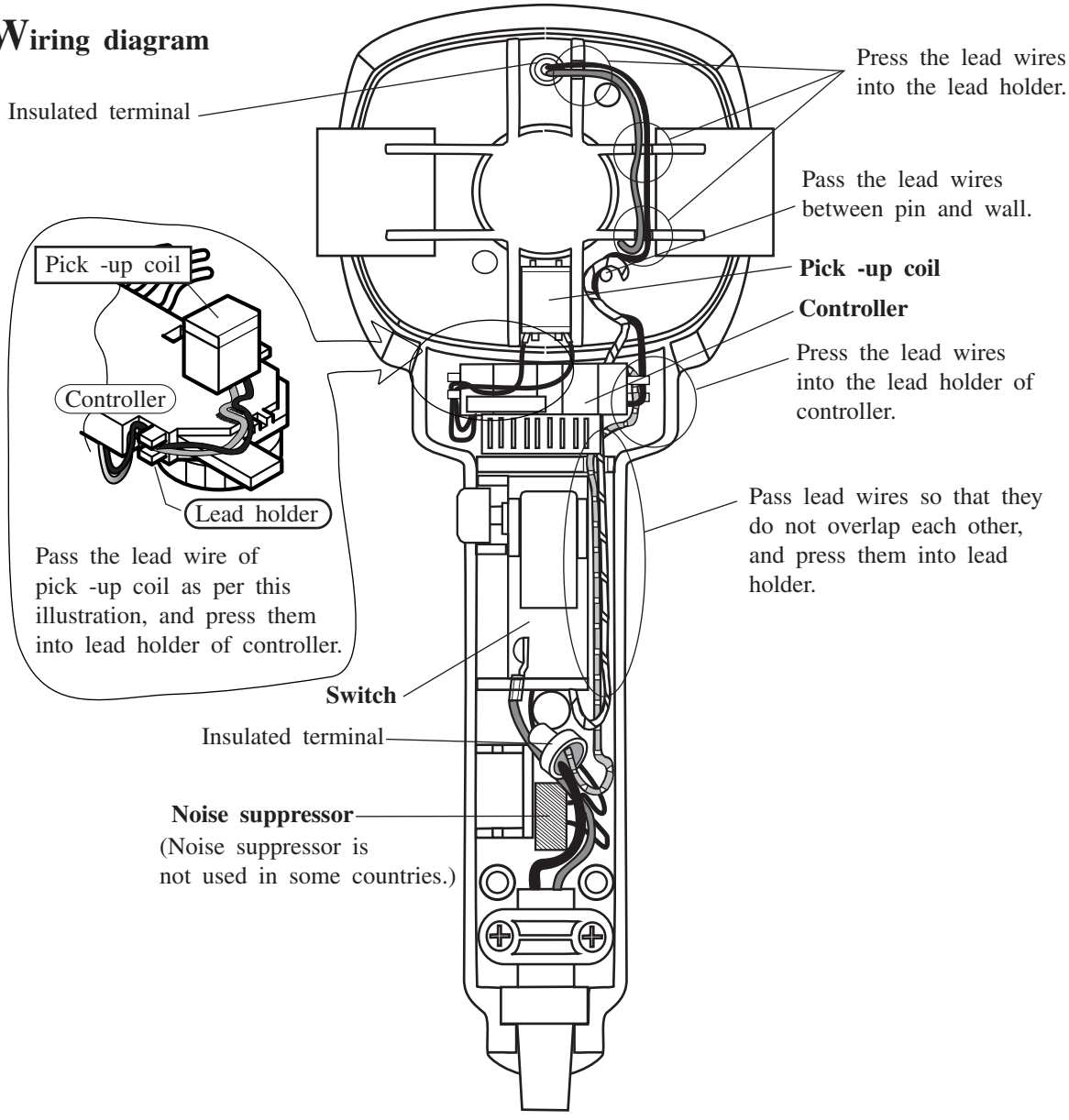
GV7000C equipped with controller and 2 terminal switch,

(Noise suppressor is not used in some countries.)

Color index of lead wires	
Black	
White	
Red	
Orange	



► Wiring diagram

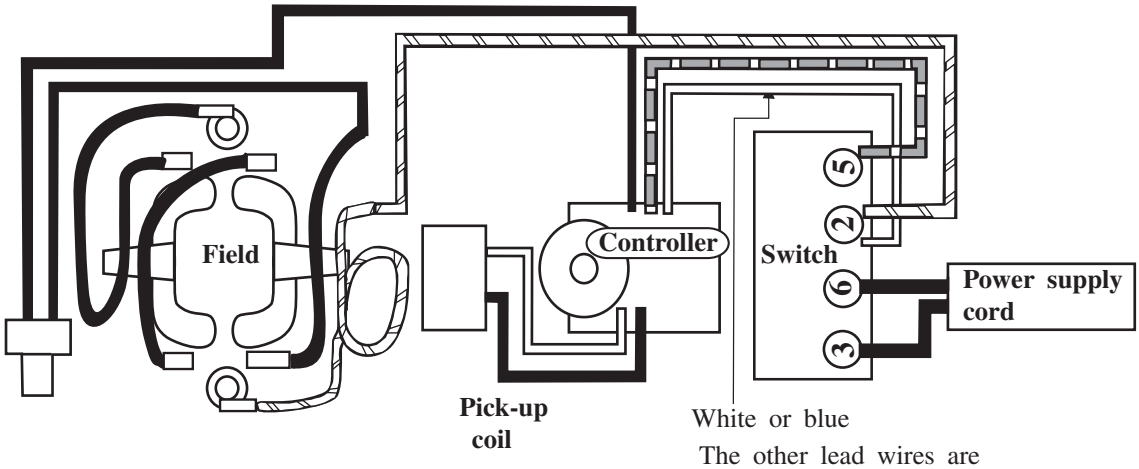


► Circuit diagram

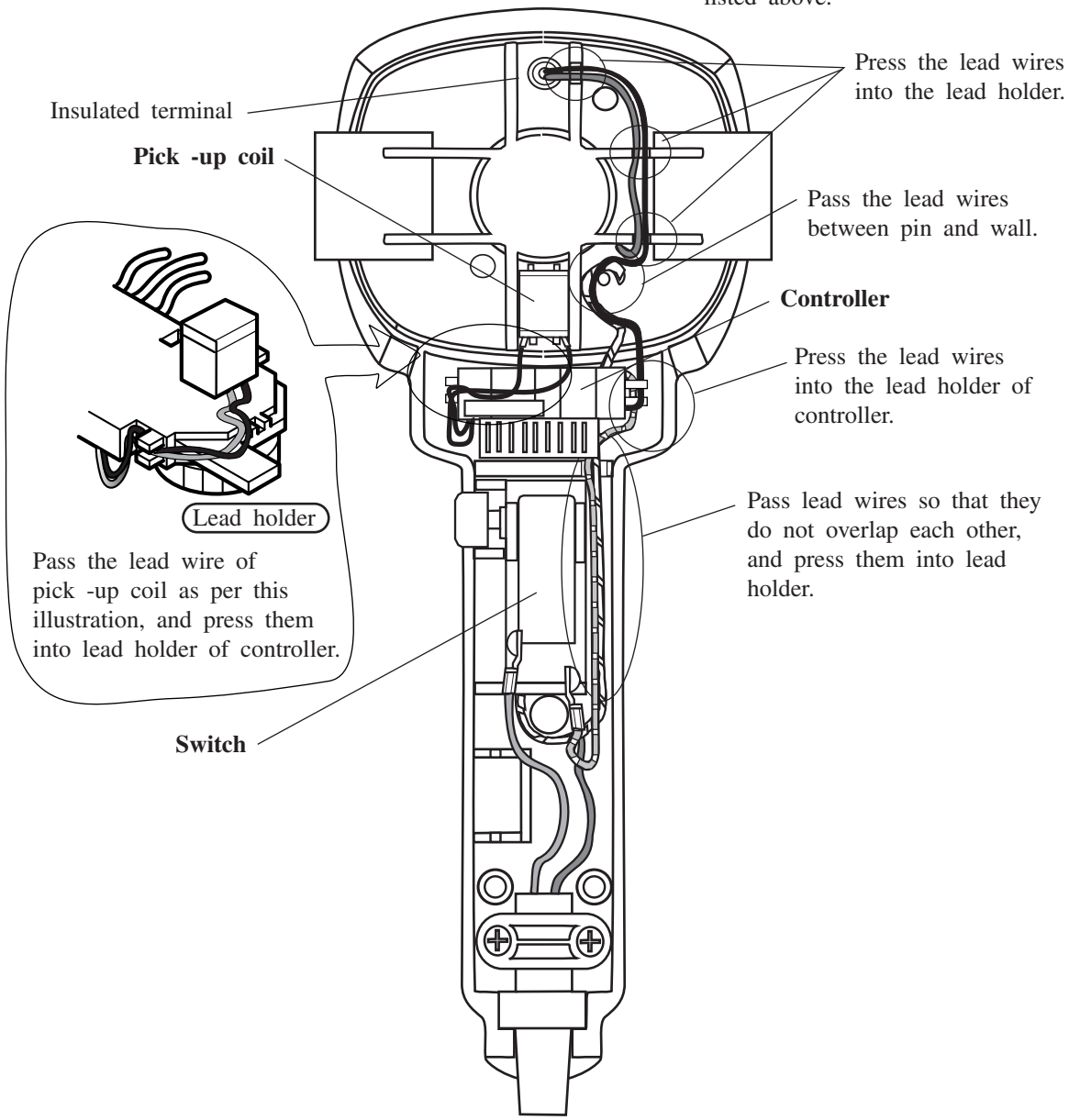
GV7000C equipped with controller, 4 terminal switch

(for the market where the noise suppressor is not required)

Color index of lead wires	
Black	
White	
Red	
Orange	



► Wiring diagram

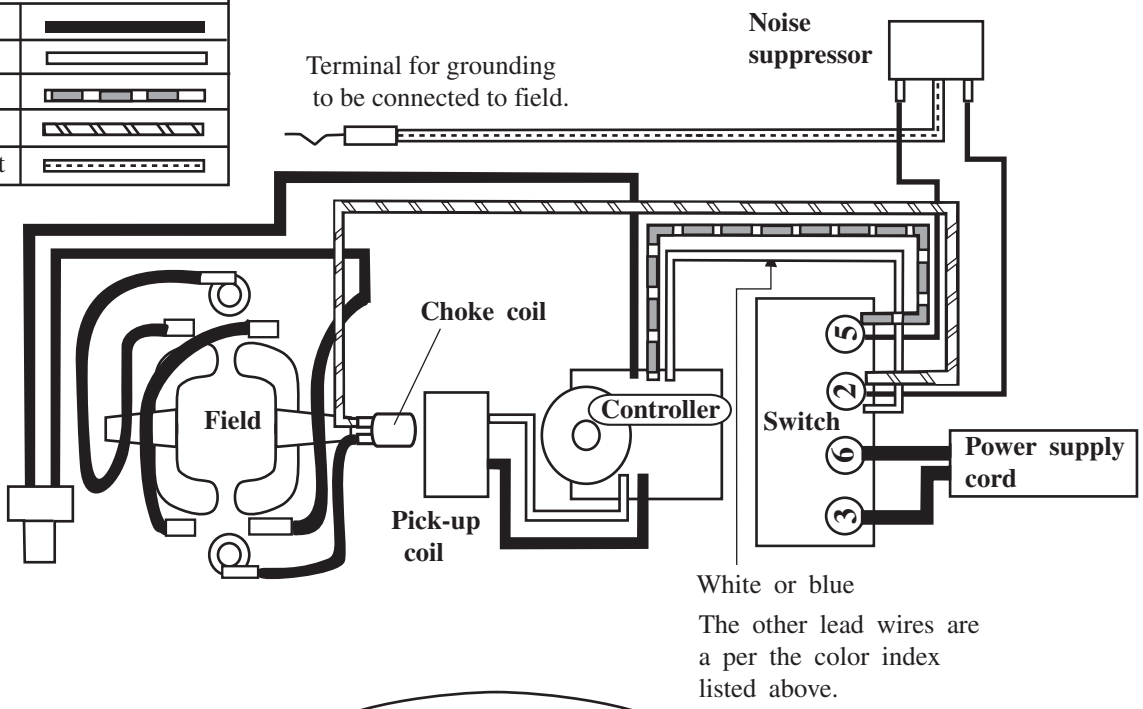


► Circuit diagram

GV7000C equipped with controller, 4 terminal switch, noise suppressor

(for the market where the noise suppressor is required)

Color index of lead wires	
Black	
White	
Red	
Orange	
Transparent	



► Wiring diagram