TECHNICAL INFORMATION
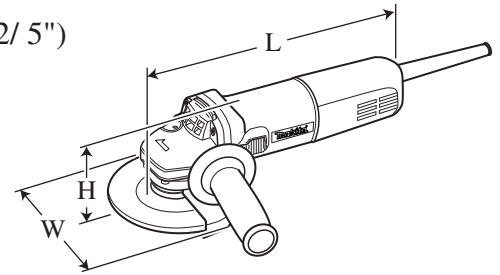
Models No. ► 9556NB, 9557NB, 9558NB

Description ► Angle Grinders 100/115/125mm (4/ 4-1/2/ 5")

CONCEPT AND MAIN APPLICATIONS

The 9556NB series models have been developed as upgraded sister tools of the current 9526NB series models.
In masonry cutting, perform better than the current series models thanks to the following benefits:
*Powerful 840W motor with excellent heat resistance
*Labyrinth structures around bearings and dust-proof motor

AC/DC switch is used for the tools for USA and other North American countries.

Dimensions: mm (")			
Model No.	**9556NB**	**9557NB**	**9558NB**
Length (L)	271 (10-5/8)		
Width (W)	118 (4-5/8)	129 (5-1/8)	139 (5-1/2)
Height (H)	97 (3-13/16)	106 (4-3/16)	

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output(W)
			Input	Output	
110	8.0	50 / 60	840	500	1000
120	7.5	50 / 60	840	500	1000
220	4.0	50 / 60	840	500	1000
230	3.8	50 / 60	840	500	1000
240	3.7	50 / 60	840	500	1000

Model No.		**9556NB**	**9557NB**	**9558NB**
Capacity: mm (")	Depressed center wheel	100 (4)	115 (4-1/2)	125 (5)
	Wire cup brush	75 (3)	90 (3-1/2)	
	Abrasive disc	100 (4)	115 (4-1/2)	125 (5)
	Diamond wheel	100 (4)	115 (4-1/2)	125 (5)
No load speed: min.-1 = rpm		11,000*		
Spindle thread		M10x1.5/ M10x1.25	DIN/ 5/8"-UNC	
Cord length: m (ft)		2.5 (8.2)		
Net weight: kg (lbs)		1.6 (3.5)		

*North America =10,000

► Standard equipment

9556NB
Depressed center wheel 100-36 1
Lock nut wrench 20 1
Grip 36 complete 1

9557NB
Depressed center wheel 115-36 1
Lock nut wrench 28 1
Grip 36 complete 1

9558NB
Depressed center wheel 125-36 1
Lock nut wrench 35 1
Grip 36 complete 1

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

► Optional accessories

9556NB
Depressed center wheel 100-24
Depressed center wheel 100-36
Rubber pad 76
Sanding lock nut 10-30
Assorted 100mm abrasive discs
Wire cup brush 75
Wire bevel brush 85
Base assembly
Wheel cover
Dust extraction attachment

9557NB
Depressed center wheel 115-24
Depressed center wheel 115-36
Rubber pad 100
Sanding lock nut 14-48
Assorted 115mm abrasive discs
Super flange 47
Dust extracting wheel guards
Dust extracting wheel cover

9558NB
Depressed center wheel 125-24
Depressed center wheel 125-36
Rubber pad 115
Sanding lock nut 14-48
Assorted 125mm abrasive discs
Super flange 47
Dust extracting wheel guards
Dust extracting wheel cover

► **R**epair

CAUTION: Disconnect the machine and remove the wheel for safety before repair/maintenance!

[1] NECESSARY REPAIRING TOOLS

Code No.	Descriptions	Purpose
1R028	Bearing Setting Pipe 20-12.2	Installing/removing Retaining ring S-12
1R045	Gear Extractor, large	Disassembling Bearing box
1R269	Bearing Extractor, small	Removing Ball bearing
1R291	Retaining Ring S and R Pliers	For Retaining rings S-12 and R-32
1R343	Retaining Ring Setting Jig	Installing Retaining ring S-12

[2] LUBRICATION AND SEALING

Put 7g of Makita Grease N. No.1 into the gear room of gear housing.

[3] DISASSEMBLY/ASSEMBLY

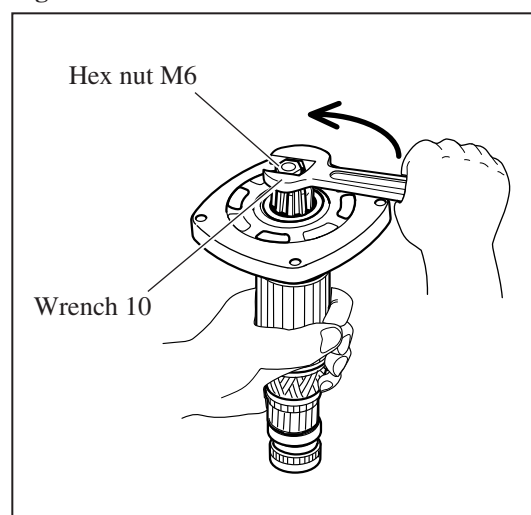### [3] -1. Replacing Armature and Spiral Bevel Gear 10

DISASSEMBLY

1) Remove tapping screw 4x18 and separate rear cover from motor housing.   Then remove carbon brushes. (**Fig. 1**)
2) Unscrew four 4x30 tapping screws and remove the assembled unit of gear housing and armature. (**Fig. 1**)

Fig. 1

Tapping screw 4x30 (4 pcs)   Gear housing cover   Carbon brush (2 pcs)   Rear cover

Gear housing   Motor housing   Tapping screw 4x18
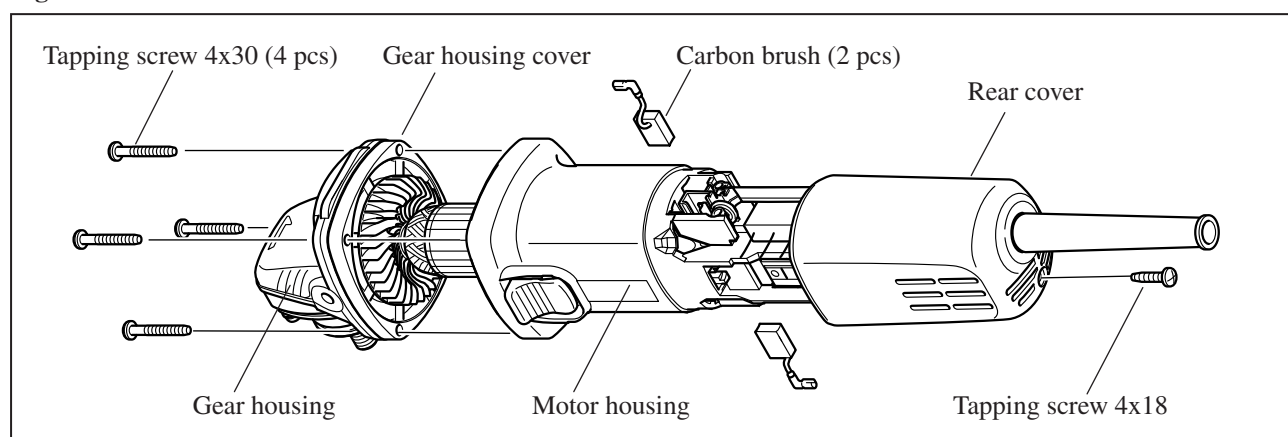
3) Pull off the assembled unit of armature and gear housing cover from gear housing.
4) Grip armature securely by hand, then remove hex nut M6 by turning counterclockwise with wrench 10. (**Fig. 2**)
5) Remove spiral bevel gear 10 by hand. (**Fig. 3**)   If it is difficult to remove by hand, remove as described below:
    1. First, lubricate the gear with spray lubricant.
    2. Cover the gear with cloth.
    3. Then grip the gear covered with cloth using water pump pliers, and turn it.
6) Remove armature from gear housing cover with Gear Extractor, large (No.1R045).

Fig. 2   **Fig. 3**

Hex nut M6

Wrench 10

Spiral bevel gear 10
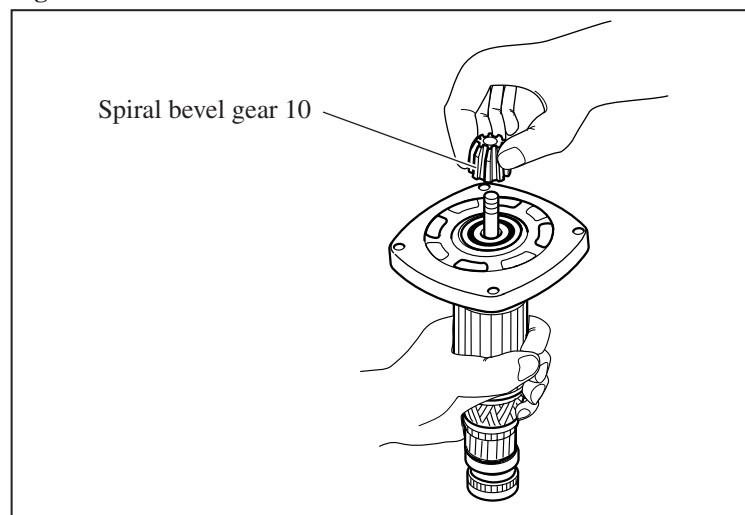
► **R**epair

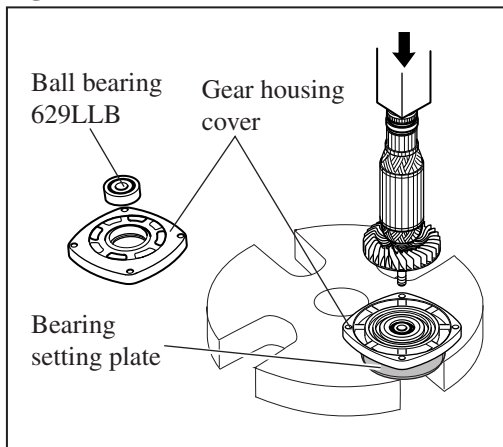### [3] -1. Replacing Armature and Spiral Bevel Gear 10 (cont.)

ASSEMBLY
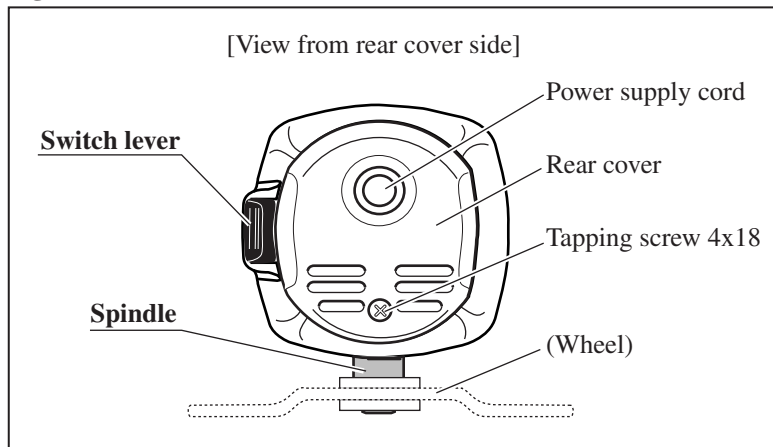
Do the reverse of the disassembling steps.
Note: Use arbor press and Bearing Setting Plate when fitting ball bearing 629LLB in gear housing cover. (**Fig. 4**)
Important: Assemble gear housing to motor housing so that switch lever can be operated with right thumb
as illustrated in **Fig. 5**.

Fig. 4

Fig. 5

### [3] -2. Replacing Spiral Bevel Gear 37 and Ball Bearing 6201DDW

DISASSEMBLY

1) Remove bearing box from gear housing by unscrewing four M4x14 pan head screws.
2) Remove retaining ring S-12 and wave washer 12 from spindle with Retaining Ring S and R Pliers (No.1R291).
3) Spiral bevel gear 37 can now be removed by hand. Then remove woodruff key 4. (**Fig. 6**)
4) Remove spindle using Gear Extractor, large (No.1R045). Now labyrinth ring can be removed. (**Fig. 12**)
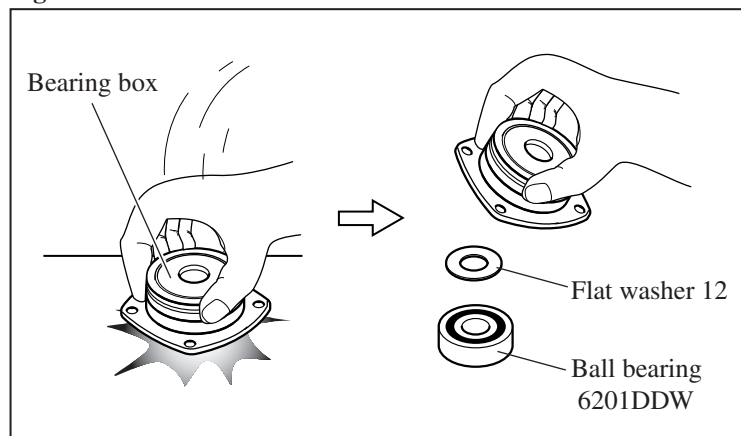
Fig. 6
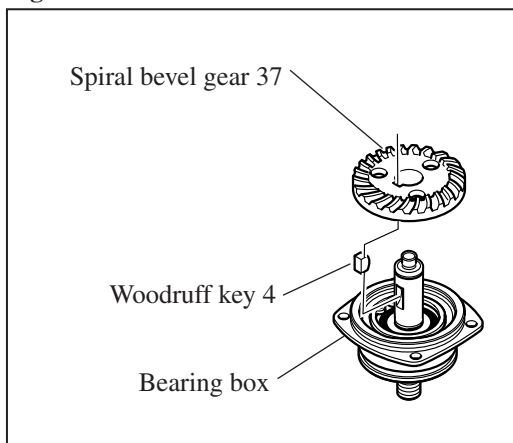
Fig. 7
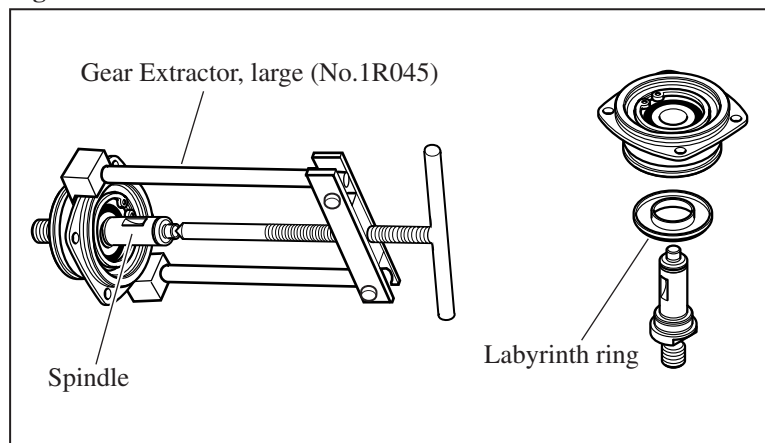
5) Remove retaining ring R-32 from bearing box
with Retaining Ring S and R Pliers (No.1R291).
6) By striking bearing box against the surface of
a work table, ball bearing 6201DDW and flat
washer 12 can be removed from bearing box
as illustrated in **Fig. 8**.
If it is difficult to remove the ball bearing,
remove using arbor press.

Fig. 8

► **R**epair

[3] -2. Replacing Spiral Bevel Gear 37 and Ball Bearing 6201DDW (cont.)

ASSEMBLY

Do the reverse of disassembling steps.
Important: Do not to forget to install labyrinth ring because it prevents dust from entering into bearing box. (**Fig. 9**)

How to fit retaining ring S-12 in place
See **Fig. 10**.
After installing spiral bevel gear37 and wave washer 12 on spindle;
1) Put retaining ring S-12 on Retaining Ring Setting Jig (No.1R343) from the tapered end of the jig.
2) Put the jig onto spindle, then put Bearing Setting Pipe 20-12.2 (No.1R028) over the jig.
3) Using arbor press, press down the pipe till the retaining ring is securely fitted in place on the spindle with a snap.
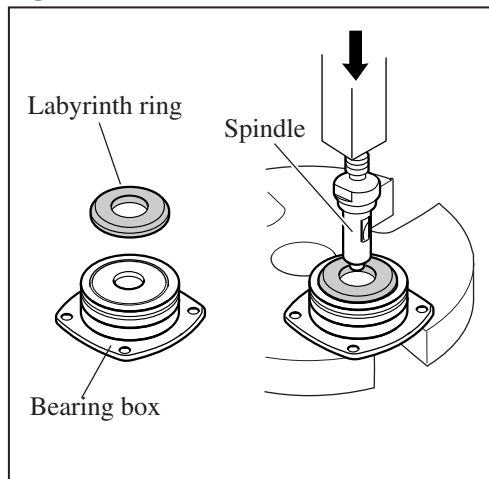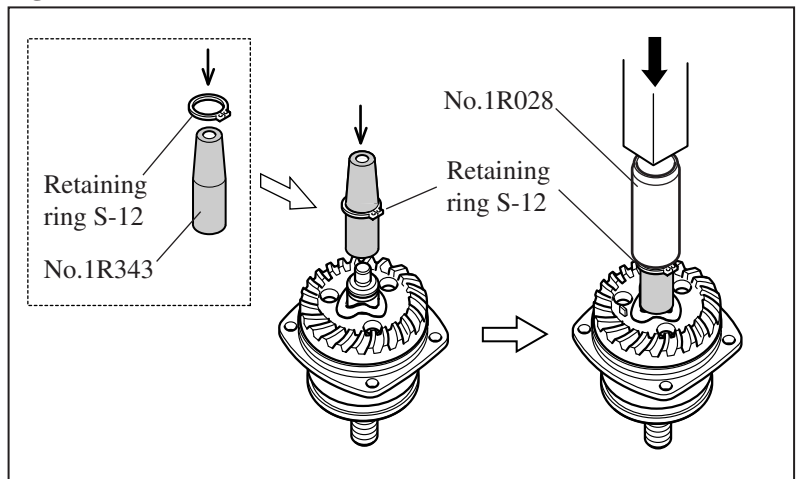
Fig. 9

Labyrinth ring
Spindle
Bearing box

Fig. 10

Retaining ring S-12
No.1R343
No.1R028
Retaining ring S-12

[3] -3. Disassembling/Assembling Shaft Lock Mechanism

DISASSEMBLY

1) Remove bearing box from gear housing.
2) Pull off shoulder pin 4 with pliers while pushing pin cap with finger. (**Fig. 11**)
**Note:** Do not pull off shoulder pin 4 without holding pin cap because compression spring 8 would sling pin cap.

ASSEMBLY

Push shoulder pin 4 through gear housing and compression spring 8 into pin cap.
Note: Do not reuse removed pin cap because removal of shoulder pin 4 damages the inside surface of pin cap, producing plastic dust. Therefore, be sure to use a new pin cap for replacement and to remove all the plastic dust on shoulder pin 4.

Fig. 11

Shoulder pin 4
Gear housing
Compression spring 8
Pin cap
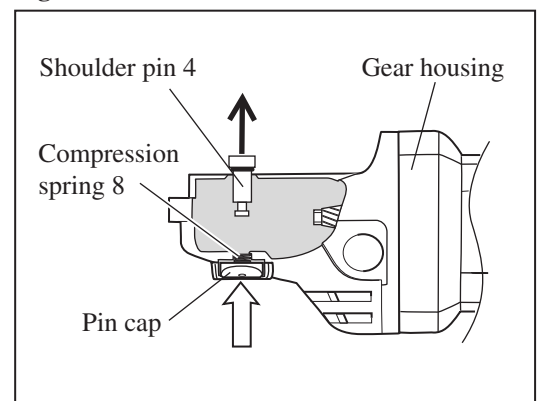
[3] -4. Tightening Tapping Screws That Fasten the Field

Tighten the two tapping screws that fasten baffle plate and field to the recommended torque of 1.1 - 1.3 Nm.

► Circuit diagram

Color index of lead wires' sheath	
Black	▬▬▬
White	▭▭▭
Clear	▭┄┄┄▭

**Earth terminal (Ground terminal)
of the lead wire from noise suppressor**

Noise suppressor*

Brush holder A

Field

Brush holder B

Switch

1 ↑   ①
     ①
     ②
2 ↑   ②

**Power supply
cord**

*Some countries do not use noise suppressor

Brush holder A

Brush holder B
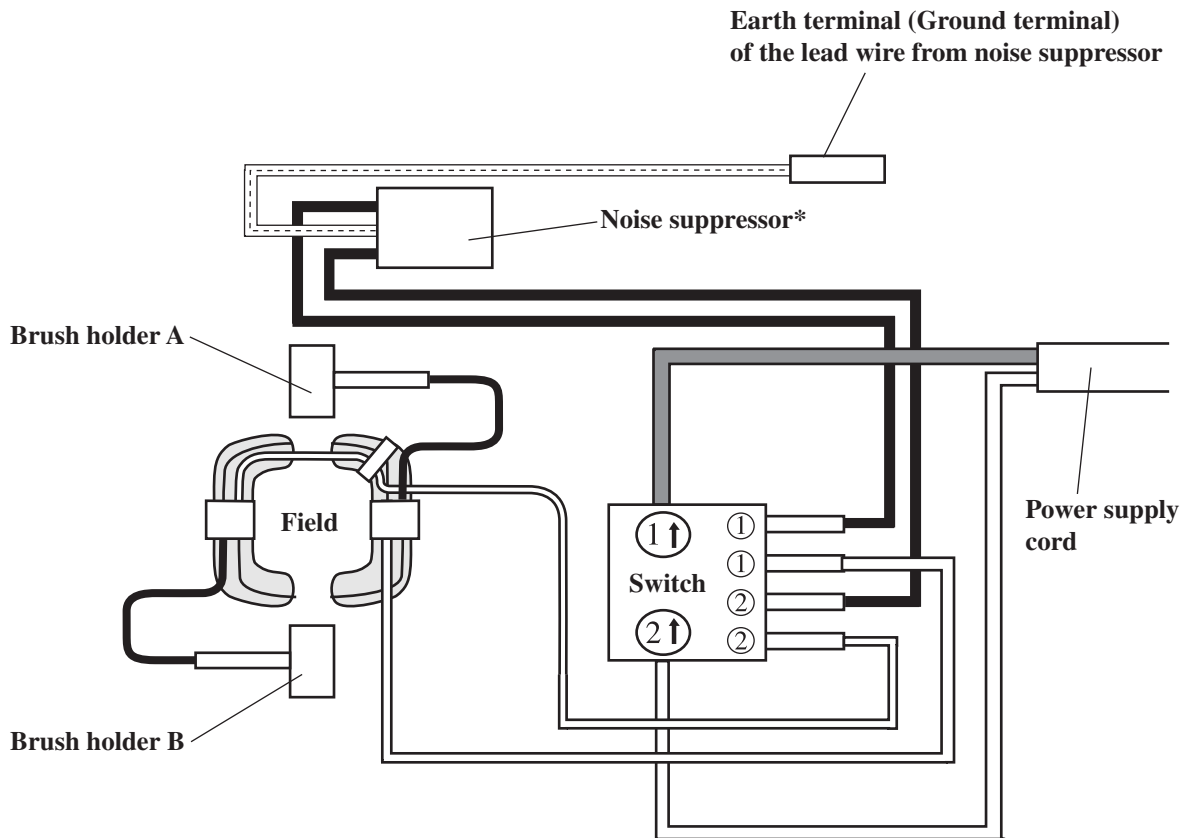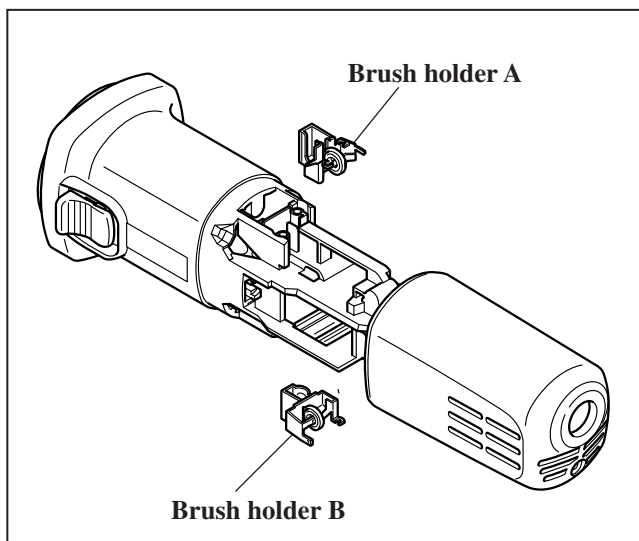
► Wiring diagram

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

Connect the lead wires with switch as illustrated in **Fig. 12**.

Fig. 12

[When Spacer is used]

[When Spacer is not used]

Power supply cord
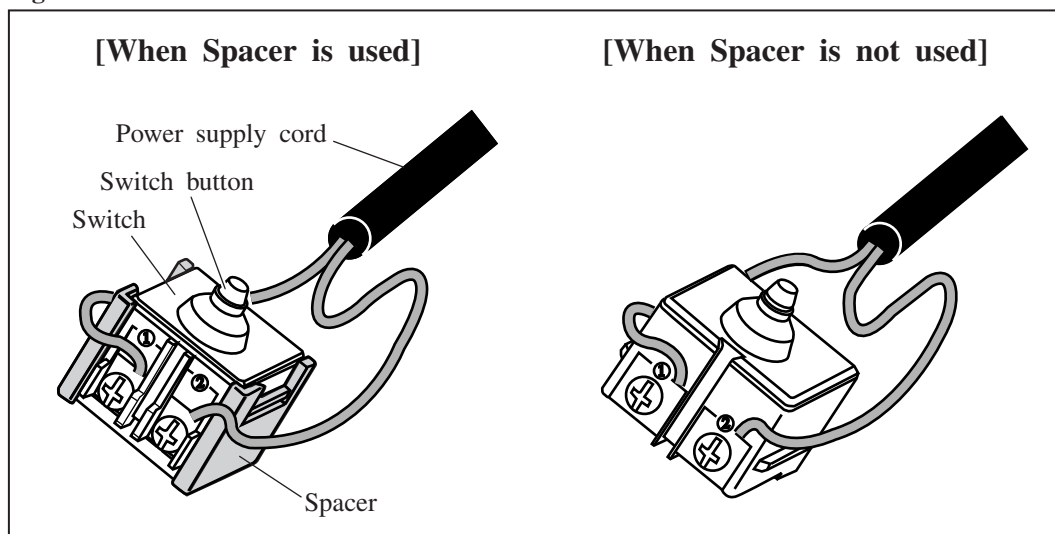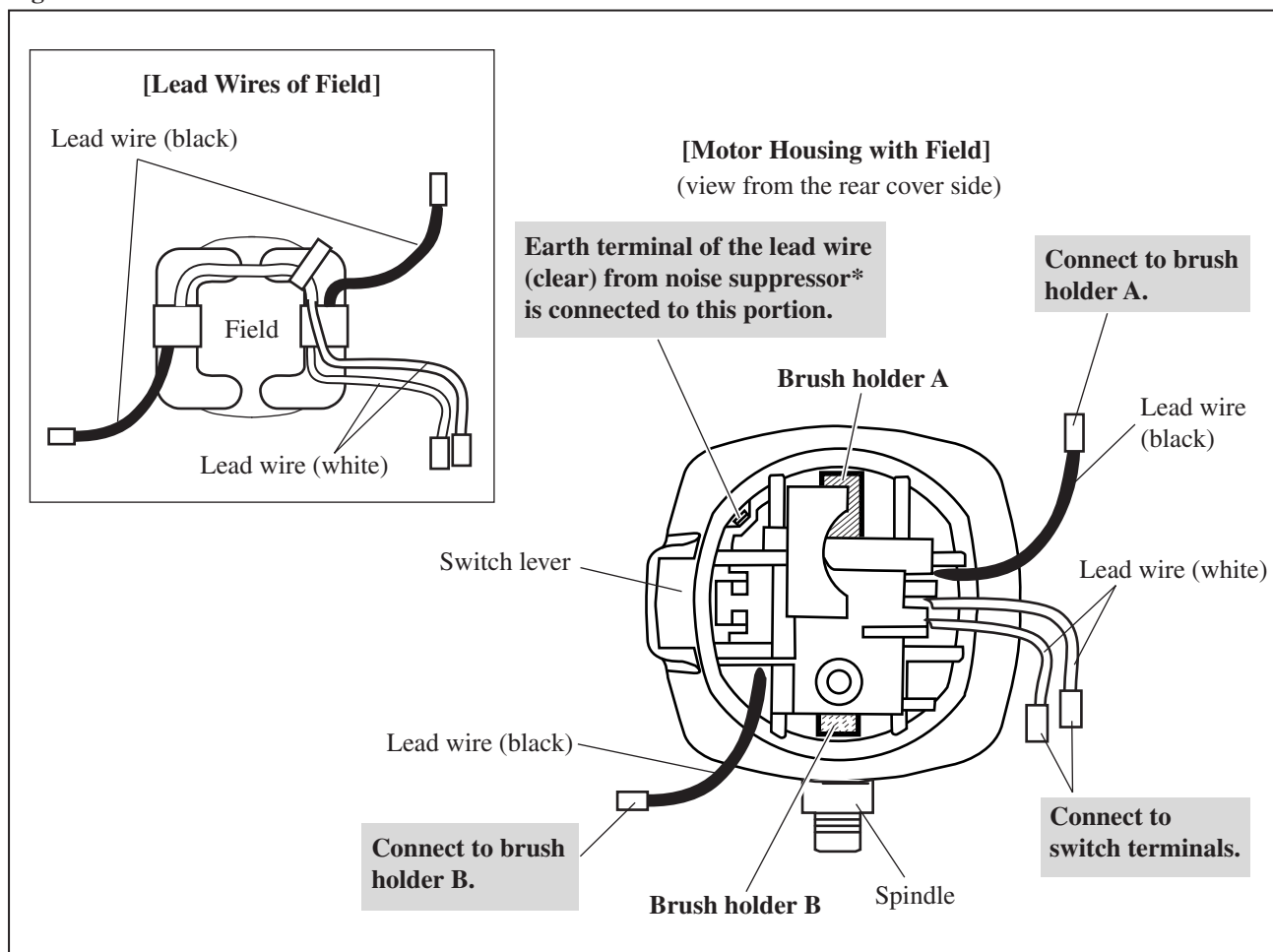
Switch button

Switch

Spacer

[2] Wiring of Field Lead Wires in the Rear of Motor Housing
[2] -1. Rear End

Route the field lead wires as illustrated in **Fig. 13 - 16**.

Fig. 13

[Lead Wires of Field]

Lead wire (black)

Field

Lead wire (white)

[Motor Housing with Field]
(view from the rear cover side)

Earth terminal of the lead wire (clear) from noise suppressor* is connected to this portion.

Connect to brush holder A.

Brush holder A

Lead wire (black)

Switch lever

Lead wire (white)

Lead wire (black)

Connect to brush holder B.
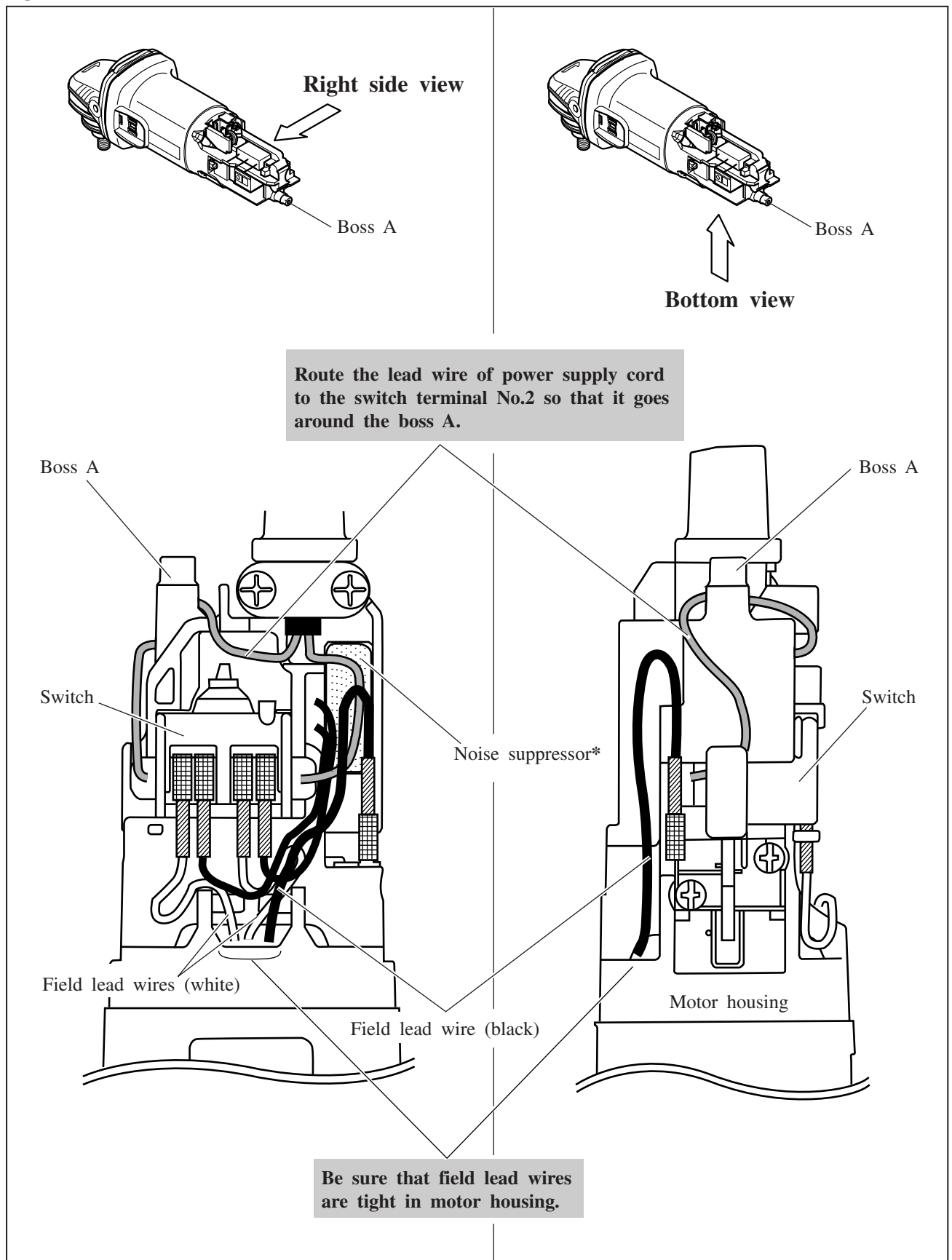
Brush holder B

Spindle

Connect to switch terminals.

*Some countries do not use noise suppressor.

► **W**iring diagram

[2] Wiring of Field Lead Wires in the Rear of Motor Housing (cont.)

[2] -2. Right Side and Bottom

Fig. 14

Right side view

Boss A

Bottom view

Boss A

Route the lead wire of power supply cord to the switch terminal No.2 so that it goes around the boss A.

Boss A

Boss A

Switch

Switch

Noise suppressor*

Field lead wires (white)

Field lead wire (black)

Motor housing

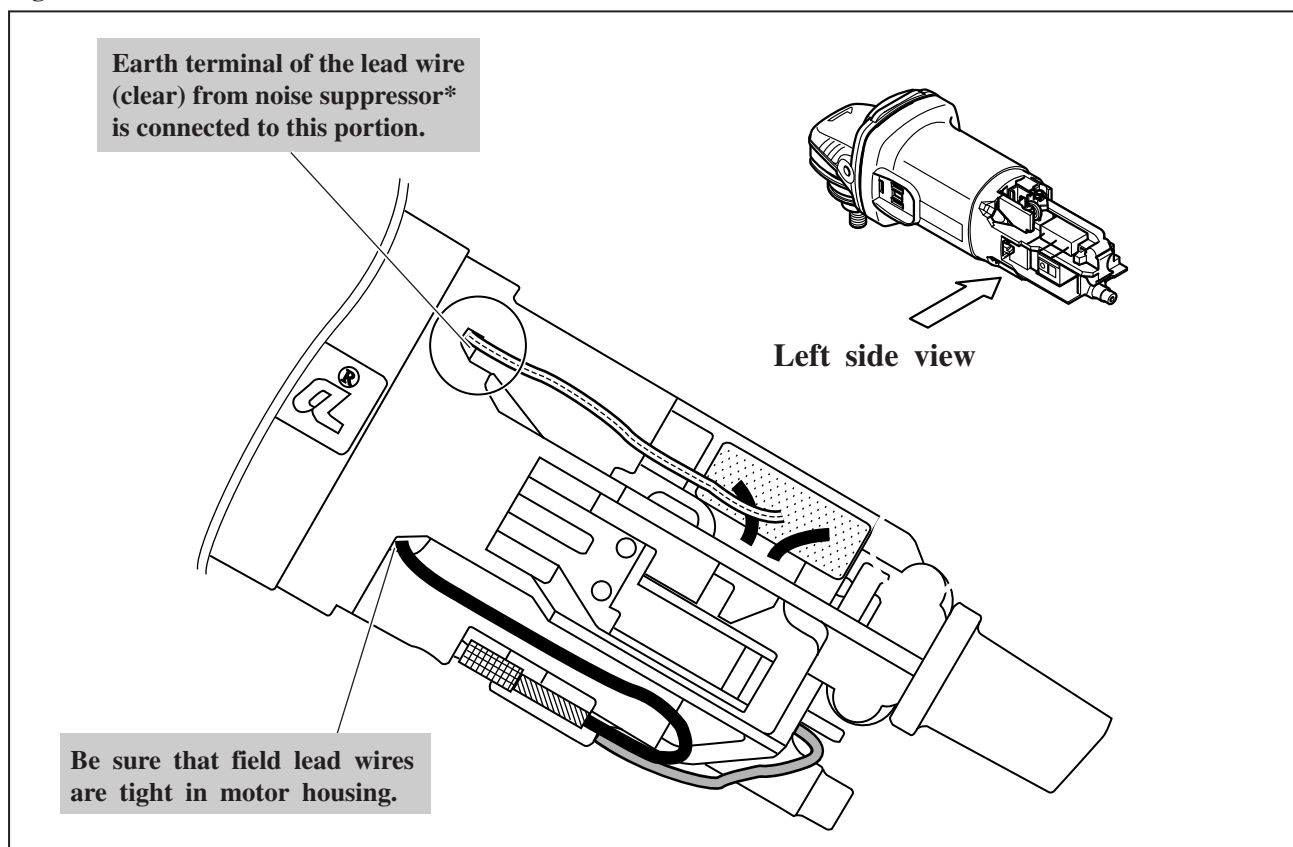Be sure that field lead wires are tight in motor housing.

*Some countries do not use noise suppressor.

► **W**iring diagram

[2] Wiring of Field Lead Wires in the Rear of Motor Housing (cont.)
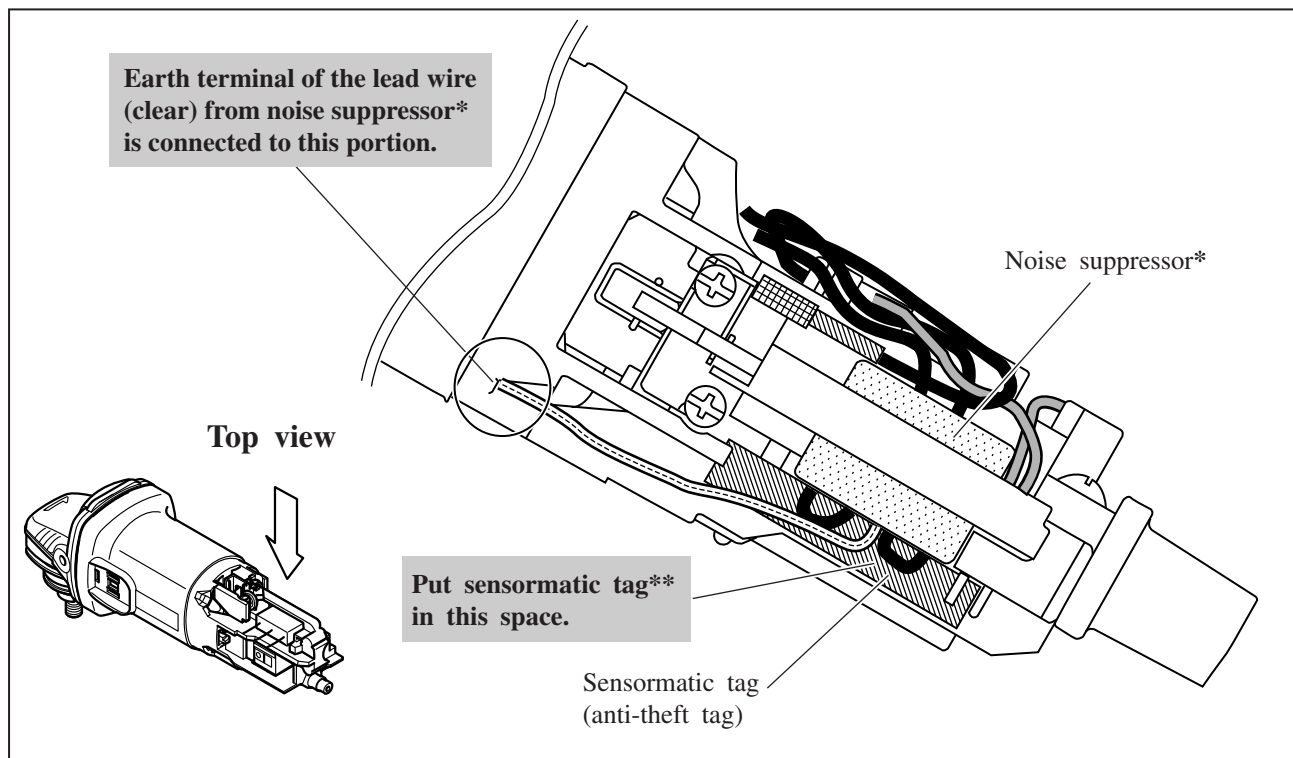
[2] -3. Left Side

Fig. 15

Earth terminal of the lead wire (clear) from noise suppressor* is connected to this portion.

Left side view

Be sure that field lead wires are tight in motor housing.

*Some countries do not use noise suppressor.

[2] -4. Top

Fig. 16

Earth terminal of the lead wire (clear) from noise suppressor* is connected to this portion.

Noise suppressor*

Top view

Put sensormatic tag** in this space.

Sensormatic tag (anti-theft tag)

*Some countries do not use noise suppressor.

**Some countries do not use sensormatic tag.