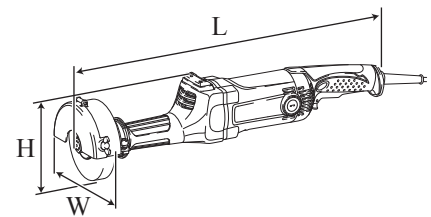


Model No. ▶ GS5000, GS6000

Description ▶ Straight Grinders 125mm (5"), 150mm (6")



The above drawing is GS5000 that is in compliance with the regulations.

CONCEPT AND MAIN APPLICATIONS

Models GS5000 and GS6000 are double insulated versions of model 9105 125mm (5") straight grinder.

The high performance and handling is the same as model 9105.

Featuring are;

- Improved gear durability by change of grease and modification on the inside of gear housing.
- Ergonomically design handle and barrel for added extra maneuverability.

Wheel size is:

125mm (5") for Model GS5000

150mm (6") for Model GS6000

Dimensions: mm (")		
Model No.	GS5000	GS6000
Length (L)	590 (23-1/4)*1, 588 (23-1/8)*2	
Width (W)	189 (7-7/16)*1, 143 (5-5/8)*2	216 (8-1/2)*1, 171 (6-3/4)*2
Height (H)	116 (4-9/16)*1, 118 (4-5/8)*2	130 (5-1/8)*1, 120 (4-3/4)*2

*1: the model that is in compliance with the regulations.

*2: the model that is not in compliance with the regulations.

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
110	7.2	50/ 60	750	400	700
120	7.0	50/ 60	---	450	700
220	3.6	50/ 60	750	400	850
230	3.5	50/ 60	750	400	850
240	3.3	50/ 60	750	400	850

Specification		Model No.	GS5000	GS6000
Wheel size*3: mm (")	Diameter		125 (5)	150 (6)
	Hole diameter		20 (3/4), 12.7 (1/2)	
	Max. thickness		20 (3/4)	
No load speed: min. ⁻¹ =rpm			5,600	
Soft start feature			No	
Rubberized soft grip			Yes	
Protection against electric shock			Double insulation	
Power supply cord: m (ft)			Australia, Brazil: 2.0 (6.6), Other countries: 2.5 (8.2)	
Weight according to EPTA-Procedure 01/2003*4 : kg (lbs)			5.0 (11.1)*1, 4.9 (10.7)*2	5.2 (11.5)*1, 5.0 (11.1)*2

*1 the model with the wheel that is in compliance with the regulations.

*2 the model with the wheel that is not in compliance with the regulations.

*3 Grinding wheels of Model 9105 cannot be used because of the wheel rotation speed limit.

*4 with Wheel cover, Inner flange, Outer flange, Lock nut

► Standard equipment

- Hex wrench 6 1
- Wrench holder 5.6 1
- Wrench 24 1 (for some country only)
- Lock nut wrench 35 1 (for some country only)
- Grinding wheel 1 (for some country only)

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

► Optional accessories

- Hanger set
- Grinding wheels
- Dust cover attachment set

▶ Repair

CAUTION: Repair the machine in accordance with “Instruction manual” or “Safety instructions”.

[1] NECESSARY REPAIRING TOOLS

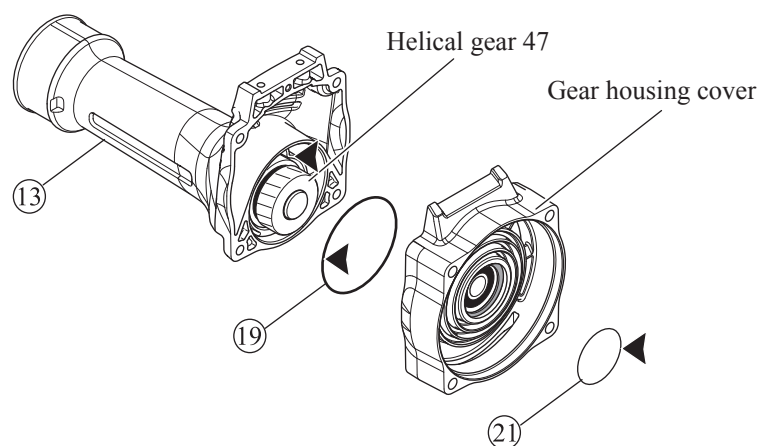
Code No.	Description	Use for
1R026	Bearing setting pipe 16-8.2	removing Spindle from Helical gear 47
1R031	Bearing setting pipe 28-20.2	assembling Helical gear 47 to Spindle
1R037	Bearing setting plate 20.2	supporting Spindle when assembling Helical gear 47
1R045	Gear extractor (large)	disassembling Ball bearing 6203LLB from Spindle disassembling Armature from Gear housing cover
1R243	Round bar for Arbor 14-100	removing Ball bearing 6201DDW from Gear housing cover
1R258	V block	supporting Helical gear 47 when removing Spindle
1R291	Retaining ring S and R pliers	removing/ assembling Retaining ring S-10 from/ to Spindle removing/ assembling Retaining ring R-32 from/ to Gear housing cover
1R316	Wrench for Bearing retainer	removing/ assembling Bearing retainer 31-48 from/ to Gear housing

[2] LUBRICATION

Apply **Makita grease N No.1** 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	Gear housing	Gear room where Helical gear 47 engages with Armature's gear	Approx. 6 g
⑰	O ring 53	Whole portion	a little
⑳	O ring 31	Whole portion	a little

Fig. 1



► Repair

[3] DISASSEMBLY/ASSEMBLY

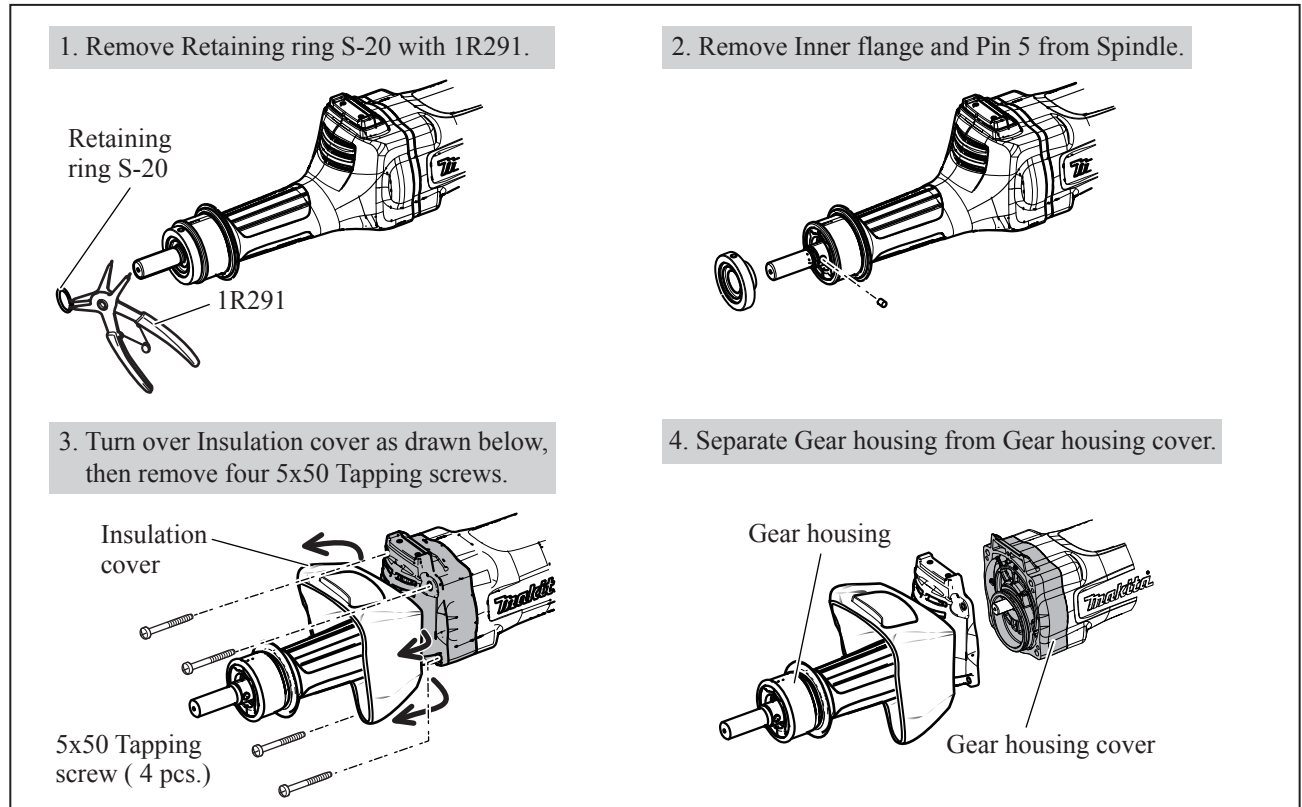
[3] -1. Helical gear 47, Ball bearings 6203LLB and 6204LLB

DISASSEMBLING

Note: Disassembling can be done without removing Insulation cover completely.

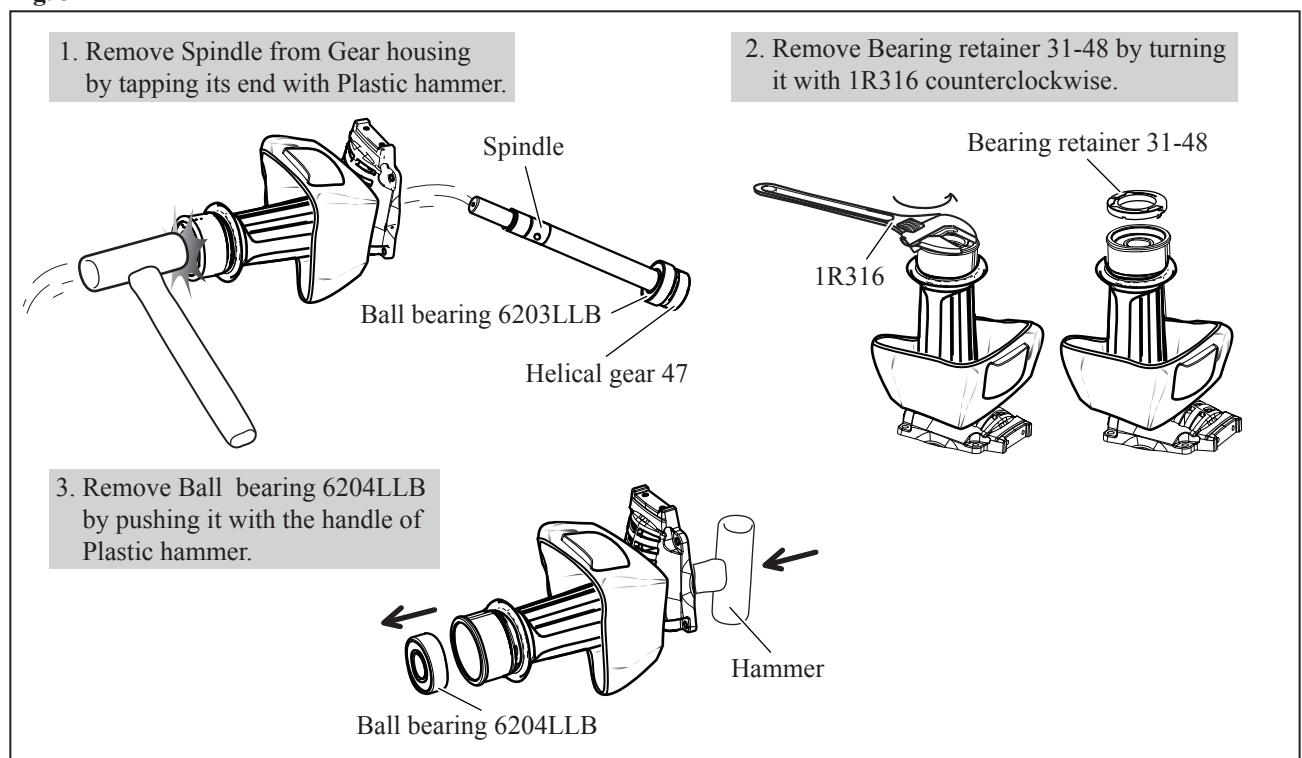
- (1) Remove Wheel cover and Grinding wheel.
- (2) Separate Gear housing from Motor housing as drawn in Fig. 2.

Fig. 2



- (3) Remove Spindle section and Ball bearing 6204LLB from Gear housing as drawn in Fig. 3.

Fig. 3



► Repair

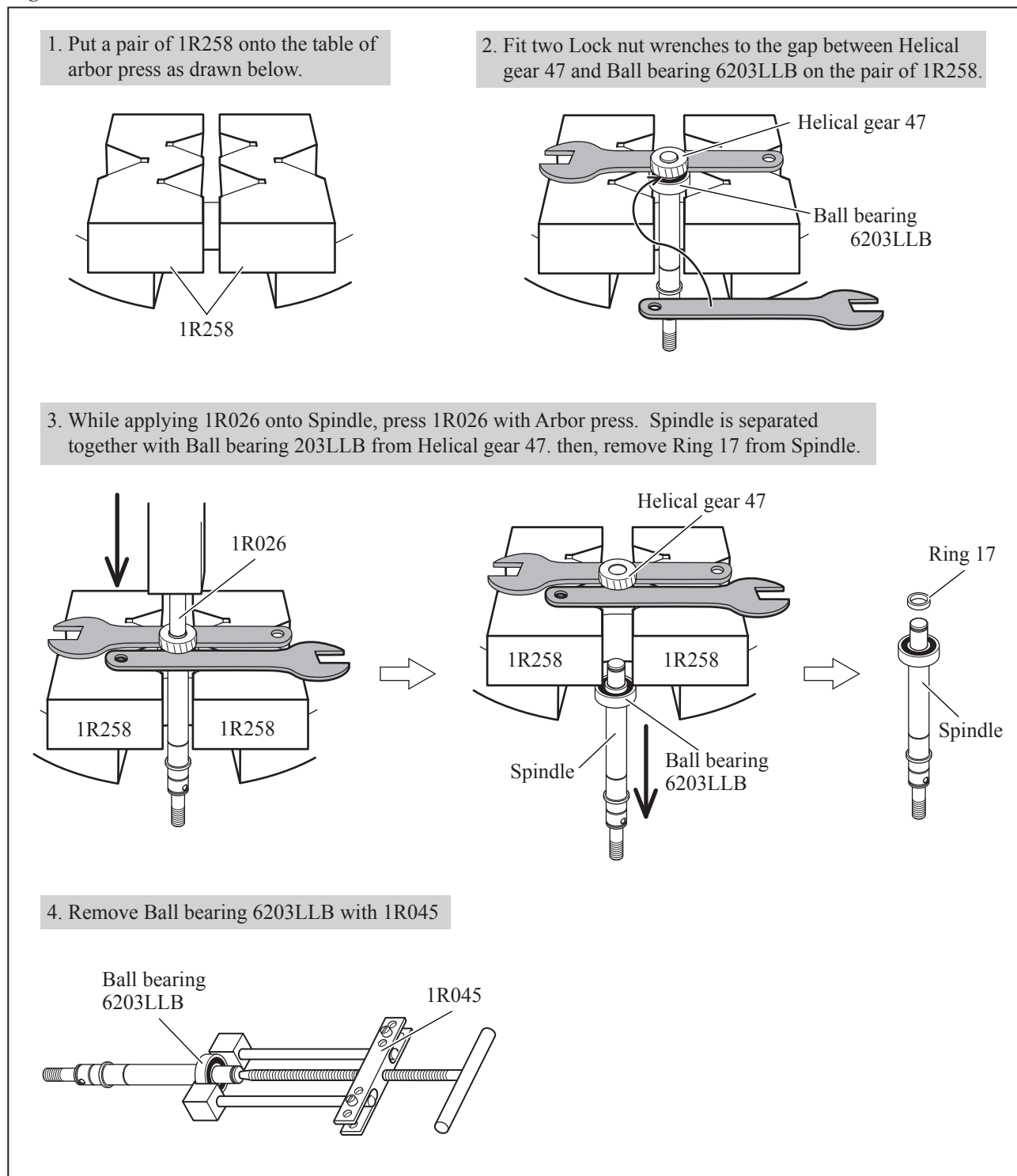
[3] DISASSEMBLY/ASSEMBLY

[3] -1. Helical gear 47, Ball bearings 6203LLB and 6204LLB (cont.)

DISASSEMBLING

- (4) Ring 17 makes approx. 5 mm gap between Ball bearing 6203LLB and Helical gear 47. The gear can be disassembled by using this gap. (Fig. 4)

Fig. 4



► Repair

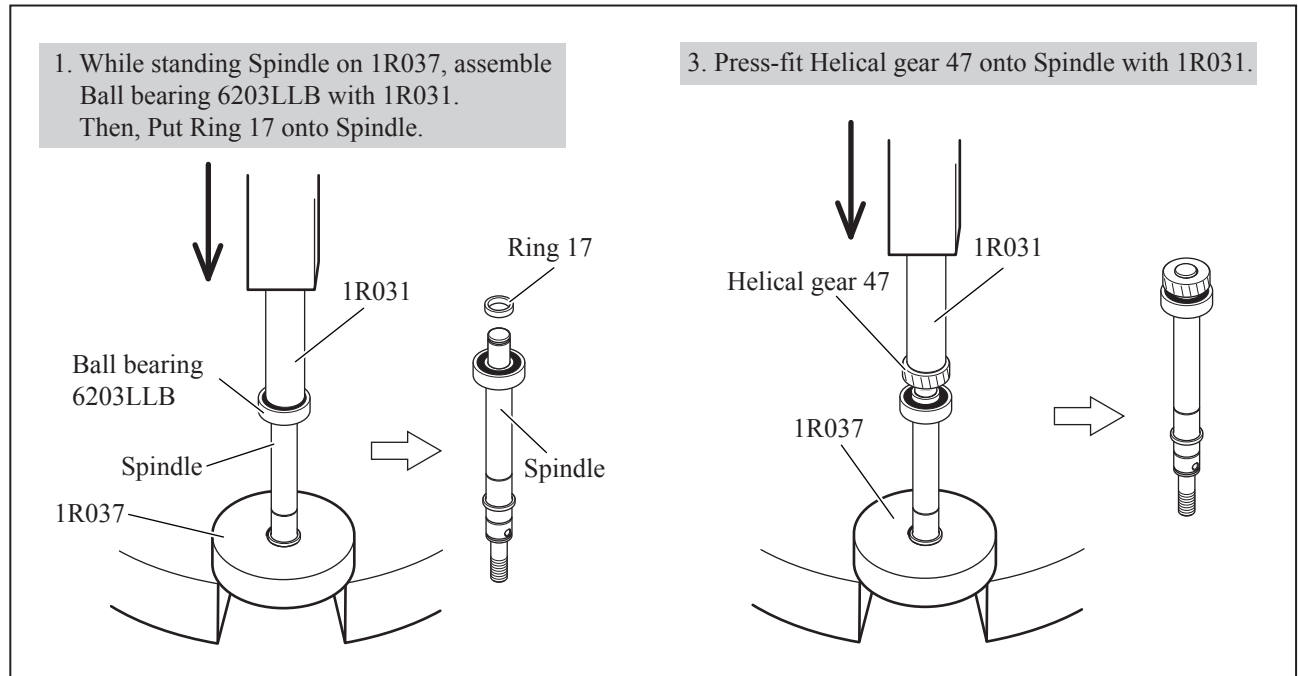
[3] DISASSEMBLY/ASSEMBLY

[3] -1. Helical gear 47, Ball bearings 6203LLB and 6204LLB (cont.)

ASSEMBLING

(1) Assemble Spindle section as drawn in **Fig. 5**.

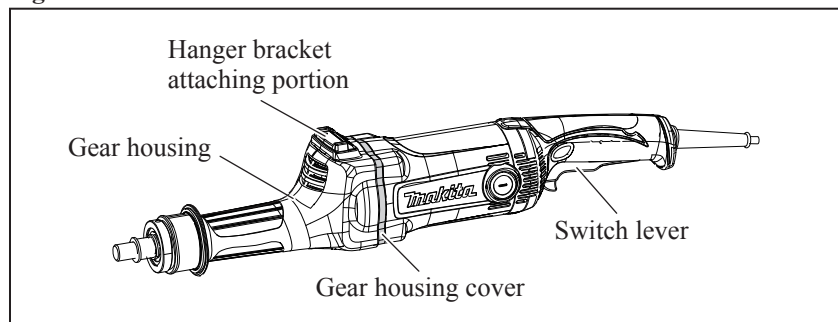
Fig. 5



(2) Assemble by reversing the disassembly procedure. (Refer to **Figs. 3 and 2**)

Note: Assemble Gear housing section together with Gear housing cover while facing its Hanger bracket attaching portion to the opposite side as Switch lever. (**Fig. 6**)

Fig. 6



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -2. Armature, Ball bearing 6201DDW

DISASSEMBLING

- (1) Separate Gear housing from Gear housing cover. (Refer to **Fig. 2**)
- (2) Disassemble Armature as drawn in **Fig. 7**.
- (3) Remove Ball bearing 6201DDW as drawn in **Fig. 8**.

Fig. 7

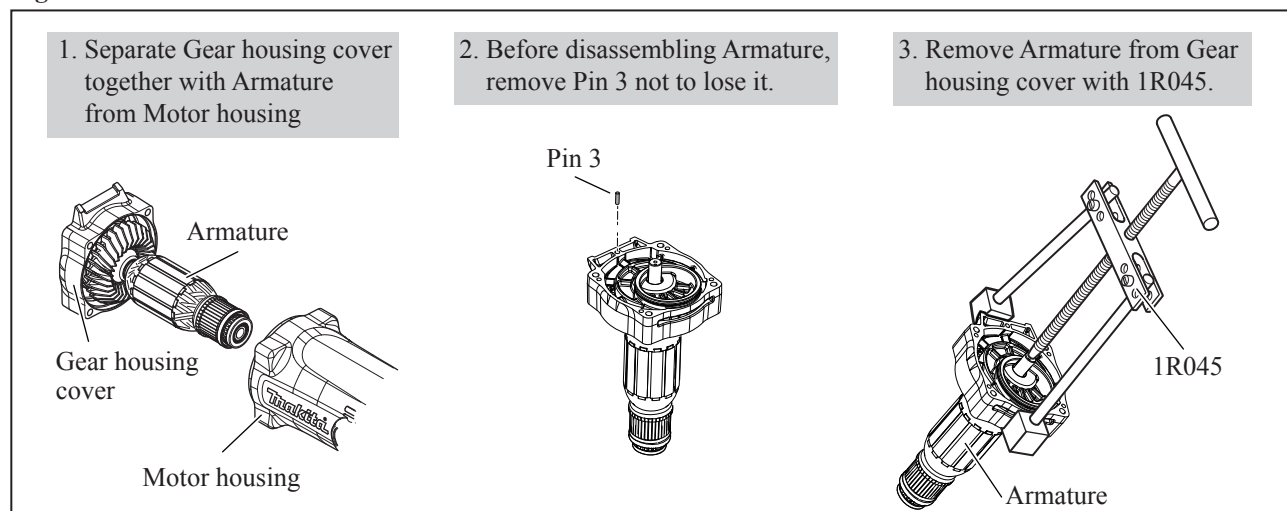
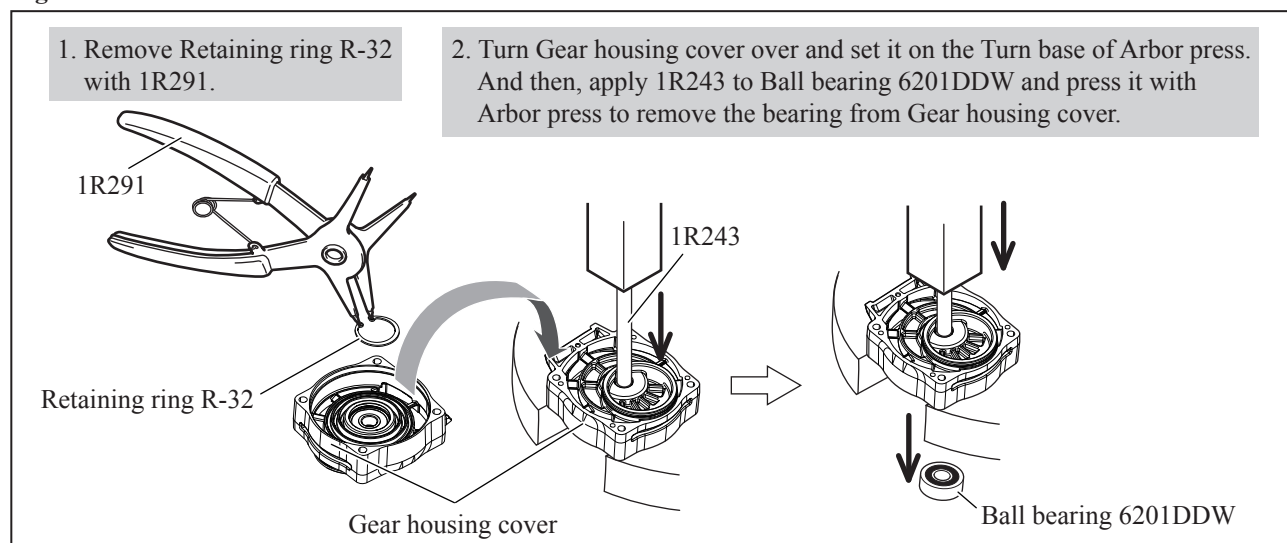


Fig. 8



ASSEMBLING

Assemble Ball bearing 6201DDW and Armature to Gear housing cover by reversing the disassembly procedure. (Refer to **Figs. 8, 7 and 2**)

Note: Do not forget to mount Pin 3 to Gear housing cover before assembling Armature to Motor housing. Refer to the **center** drawn in **Fig. 7**.

► Repair

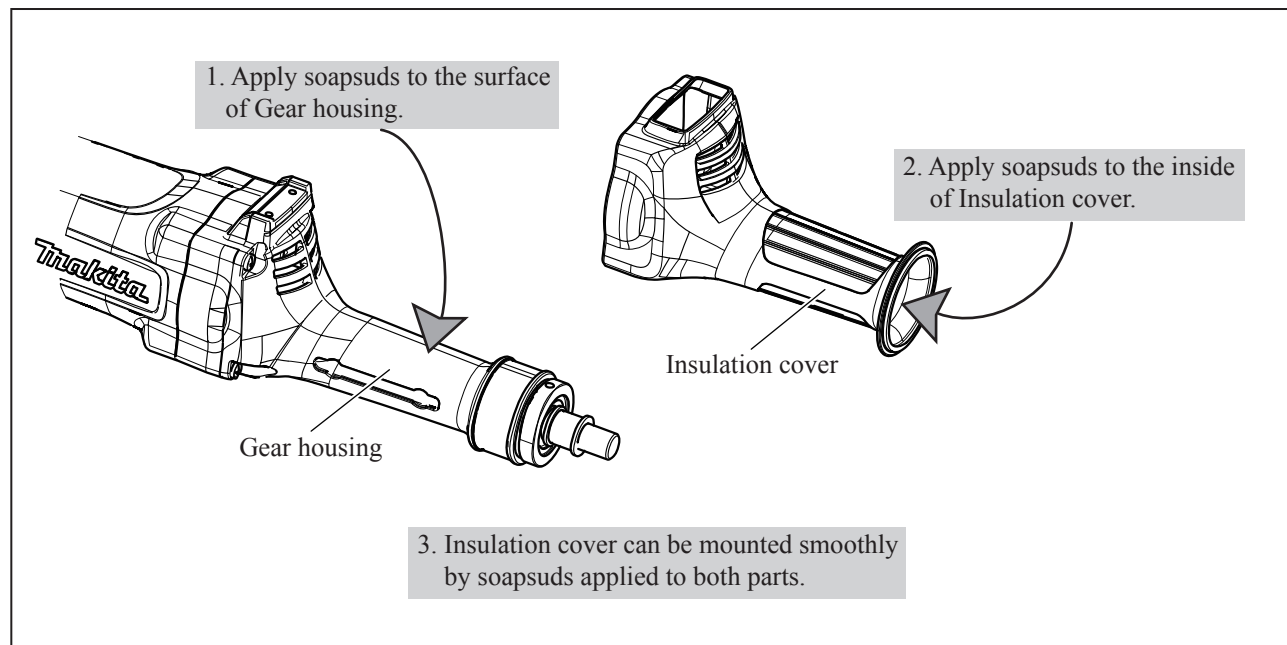
[3] DISASSEMBLY/ASSEMBLY

[3] -3. Insulation cover

ASSEMBLING

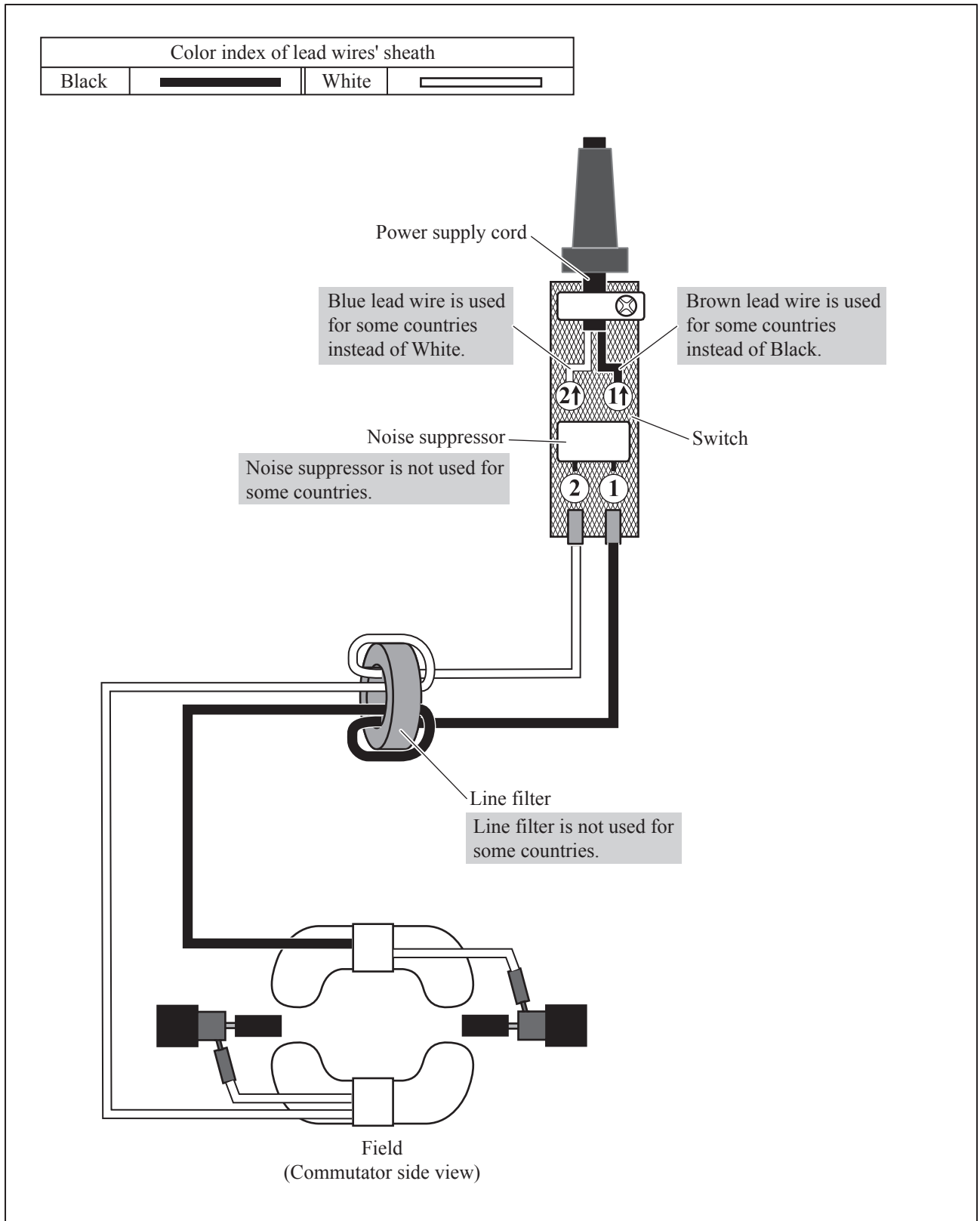
Insulation cover can be assembled as drawn in **Fig. 9**.

Fig. 9



► **Circuit diagram**

Fig. D-1



▶ Wiring diagram

Fig. D-2

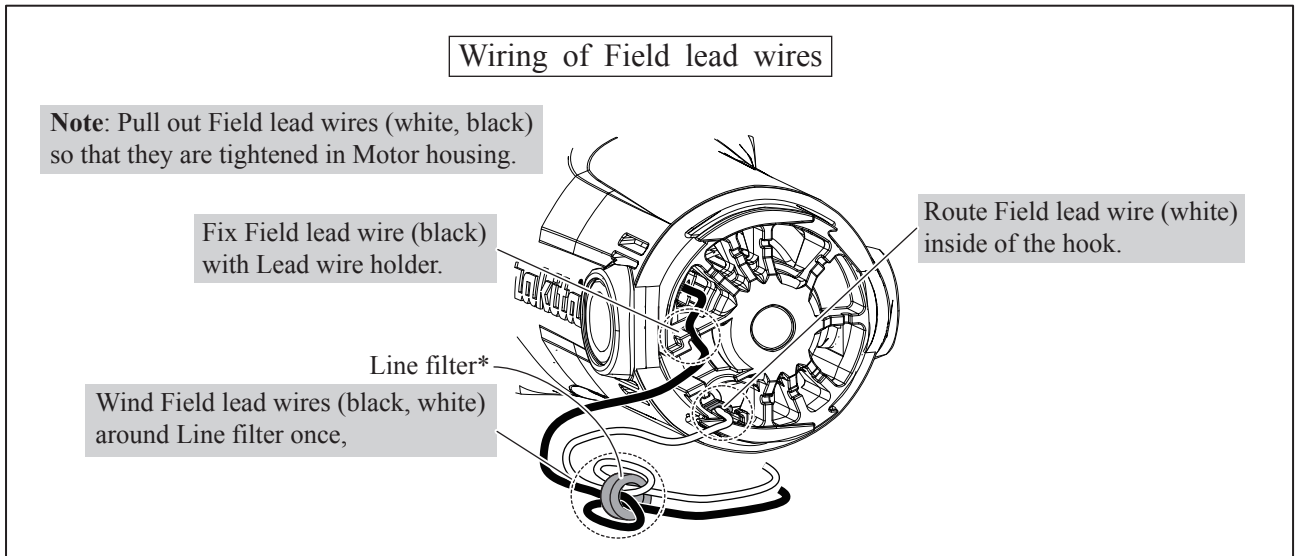


Fig. D-3

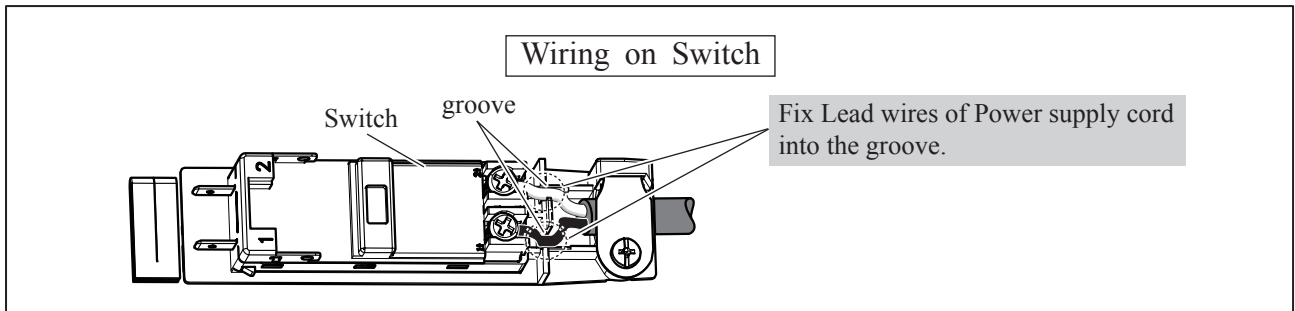
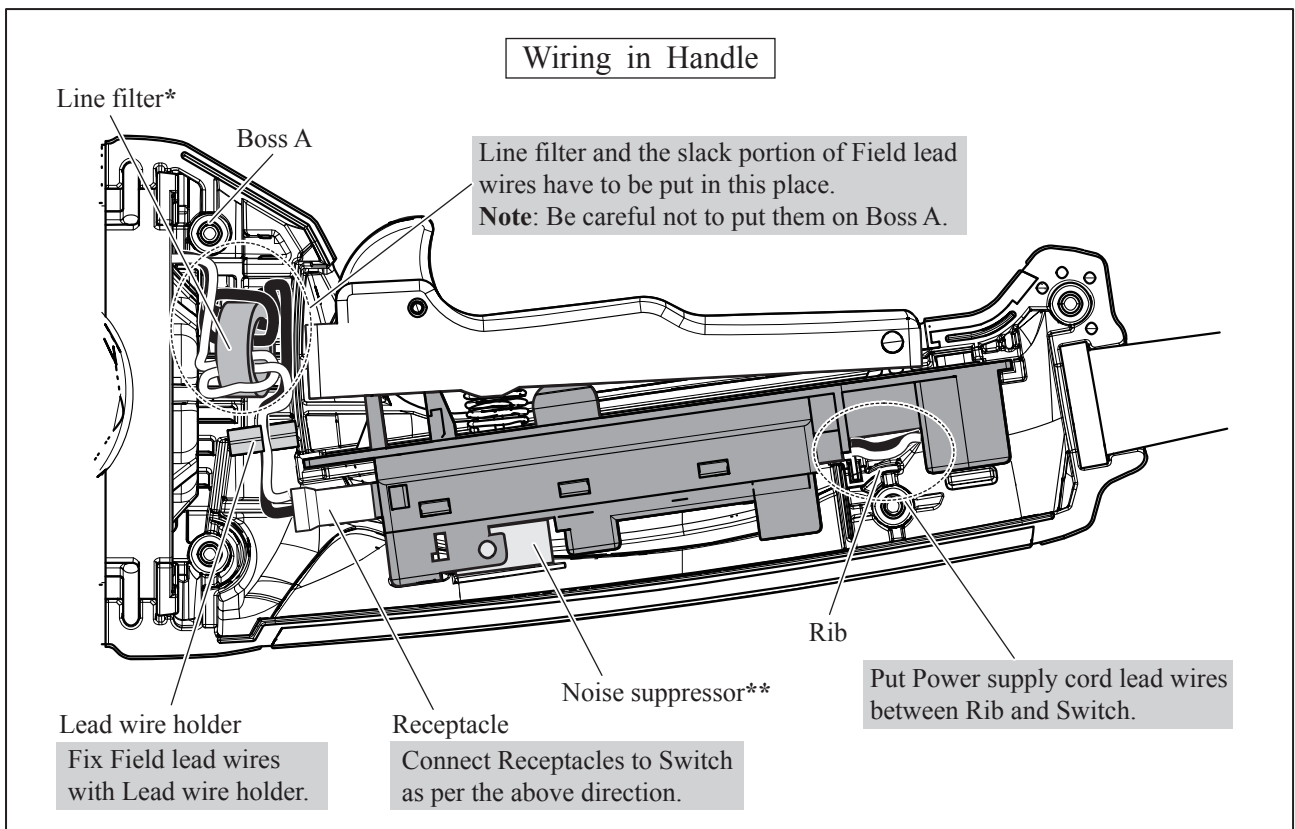


Fig. D-4



*Line filter is not used for some countries.

**Noise suppressor is not used for some countries.