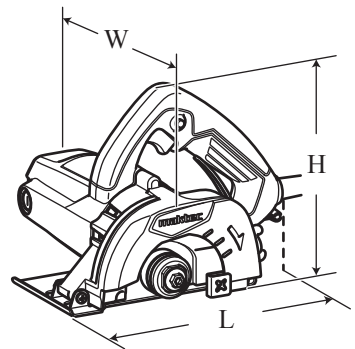


# T ECHNICAL INFORMATION

**Models No.** ▶ MT412

**Description** ▶ Cutter 125mm (5")



Dimensions: mm (")	
Length (L)	233 (9-1/8)
Width (W)	216 (8-1/2)
Height (H)	166 (6-1/2)

## CONCEPT AND MAIN APPLICATIONS

Model MT412 has been developed mainly for the Indian market as the aesthetic change model of maktec brand cutter MT410. In addition to the same good durability as MT410, this model features the following advantages to the existing model:

- More powerful cutting performance with 1250W motor
- Larger diamond wheel capacity of 125mm (5")
- Simpler water supply attachment

## ► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
110	12.0	50/60	1,250	650	1,800
120	9.5	50/60	---	650	1,800
127	10.0	50/60	1,250	650	1,800
220	6.0	50/60	1,250	650	1,800
230	5.7	50/60	1,250	650	1,800
240	5.5	50/60	1,250	650	1,800

No load speed: rpm= min.-1		12,000
Diamond wheel: mm (")	Diameter	125 (5)
	Hole diameter	20 (13/16)
Max cutting capacity: mm (")	with 110mm diamond wheel	32.5 (1-1/4)
	with 125mm diamond wheel	40 (1-9/16)
Protection against electric shock		Double insulation
Power supply cord: m (ft)		2.0 (6.6)
Weight according to EPTA-Procedure 01/2003*: kg (lbs)		3.0 (6.7)

\* including diamond wheel

## ► Standard equipment

Wrench 22 ..... 1  
 Hex wrench 5 ..... 1  
 Vinyl tube 5 ..... 1  
 Tube holder ..... 1

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

► **Repair**

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

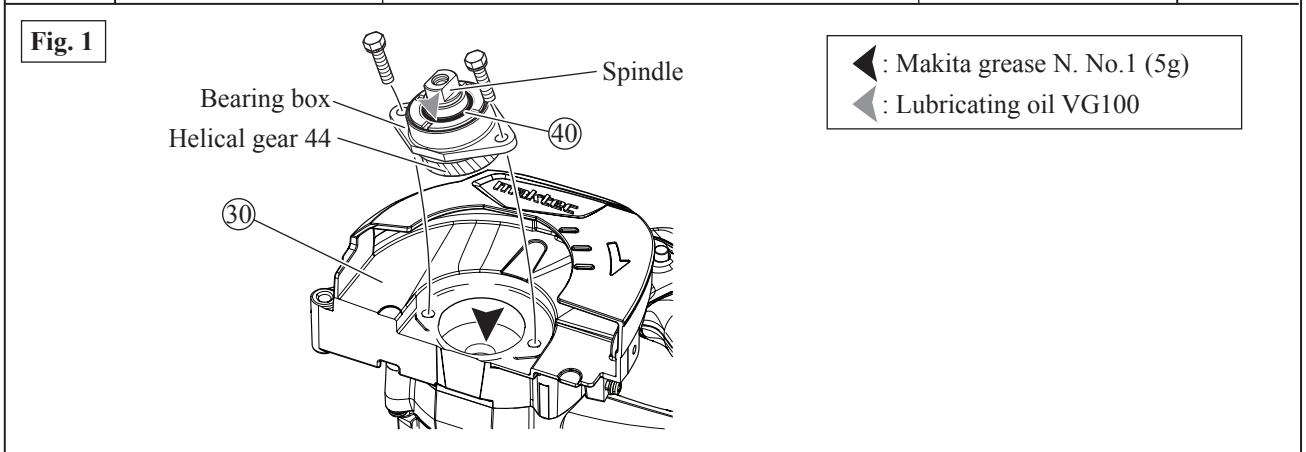
**[1] NECESSARY REPAIR TOOLS**

Code No.	Description	Use for
1R004	Retaining Ring S Pliers ST-2	removing/ mounting Retaining rings
1R032	Bearing Setting Plate 8.2	removing Helical gear 44
1R217	Ring 22	supporting Bearing box when removing Helical gear 44
1R269	Bearing Extractor	removing Ball bearings
1R340	Bearing Retainer Wrench	removing/ mounting Bearing retainer 19-33

**[2] LUBRICANT AND ADHESIVE APPLICATION**

Apply the following lubricants to protect parts and product from unusual abrasion. (Fig. 1)

LUBRICANT				
Item No.	Description	Portion to lubricate	Lubricant	Amount
③①	Blade Case Complete	Gear room where Helical gear 44 rotates	Makita grease N No.1	5g
④①	O Ring 18	Whole surface	Lubricating oil VG100 (041006-9A)	a little



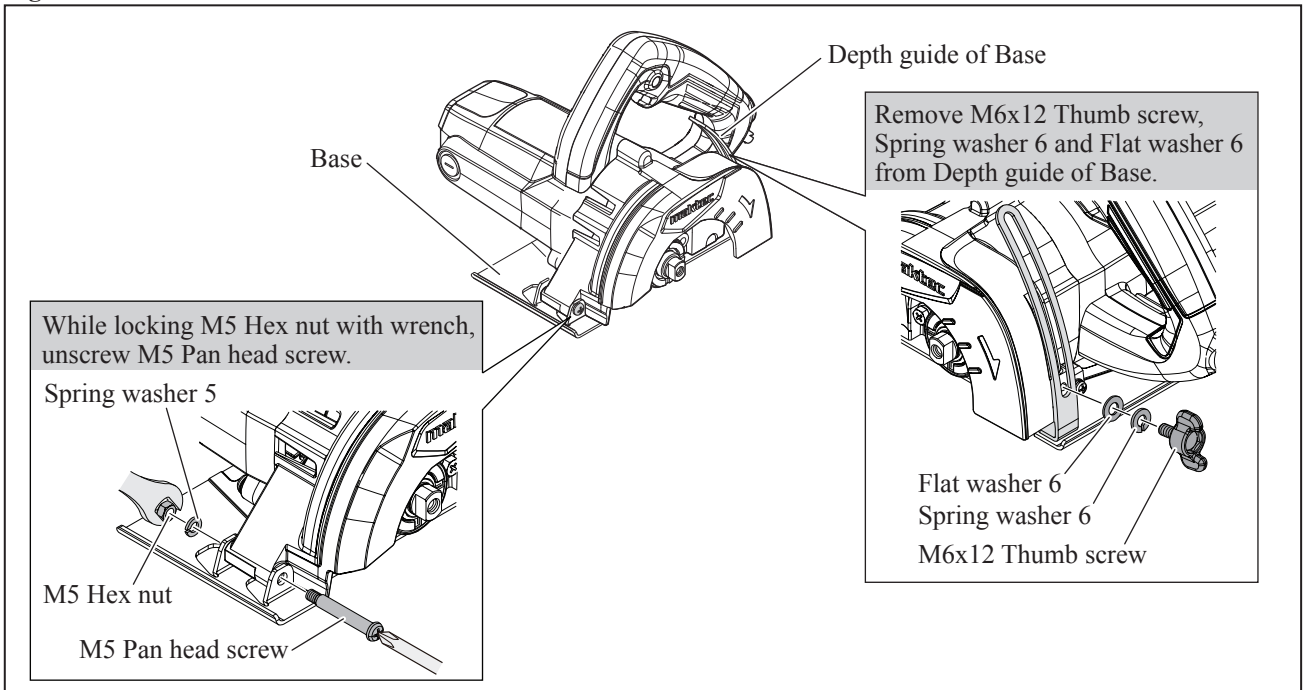
**[3] DISASSEMBLY/ASSEMBLY**

**[3]-1. Base**

**DISASSEMBLING**

Base can be replaced by removing M6x12 Thumb screw and M5 Pan head screw. (Fig. 2)

**Fig. 2**



► **Repair**

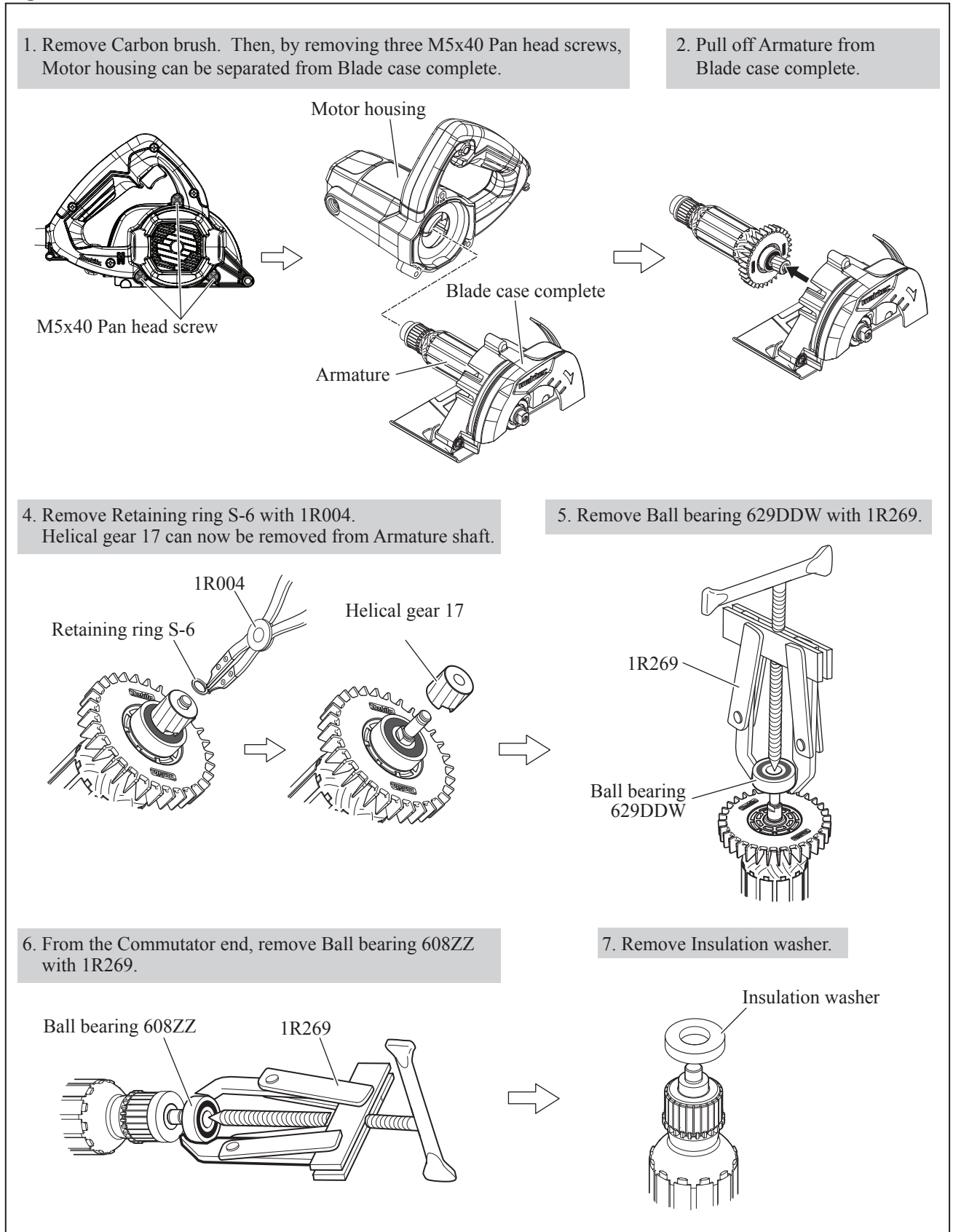
**[3] DISASSEMBLY/ASSEMBLY**

**[3]-2. Armature, Ball bearings 629DDW/ 608ZZ, Helical gear 17**

**DISASSEMBLING**

Disassemble Armature from Blade case complete, and remove Ball bearings and Insulation washer. (Fig. 3)

**Fig. 3**



## ► Repair

### [3] DISASSEMBLY/ASSEMBLY

#### [3]-2. Armature, Ball bearings 629DDW/ 608ZZ, Helical gear 17

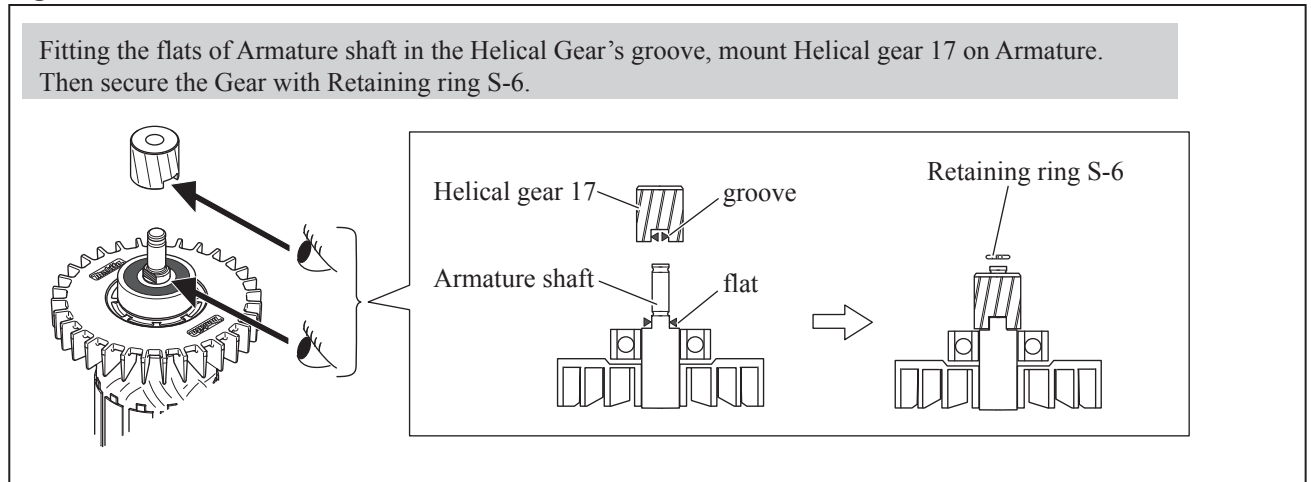
##### ASSEMBLING

Do the reverse of the disassembling steps. (Fig. 3)

##### Note in Assembling:

Helical gear 17 must be mounted to Armature shaft as described in Fig. 4.

##### Fig. 4



► **Repair**

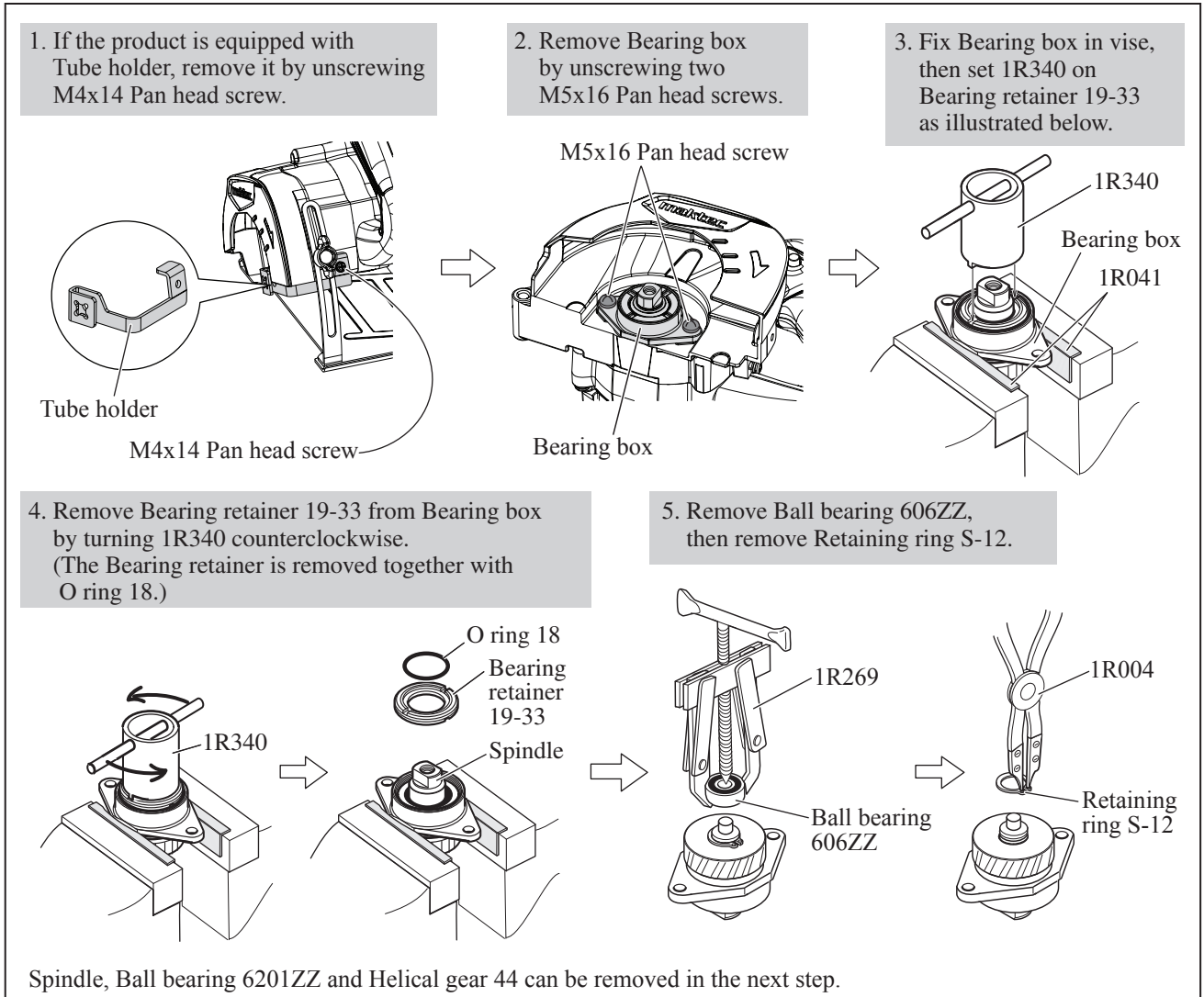
**[3] DISASSEMBLY/ASSEMBLY**

**[3]-3. Gear Section (Helical Gear 44, Ball Bearings 6201ZZ, 606ZZ)**

**DISASSEMBLING**

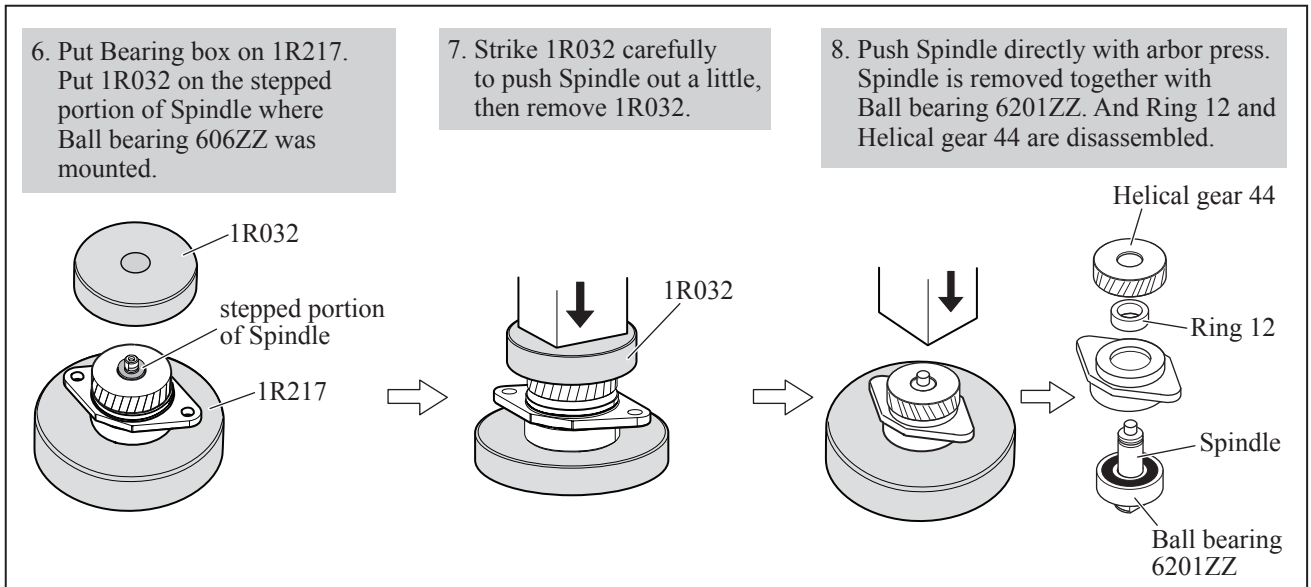
(1) Separate Bearing box from Blade case complete, then disassemble Bearing retainer 19-33, O ring 18, Ball bearing 606ZZ and Retaining ring S-12. (Fig. 5)

**Fig. 5**



(2) Disassemble Spindle from Helical gear 44 as illustrated in Fig. 6.

**Fig. 6**



► **Repair**

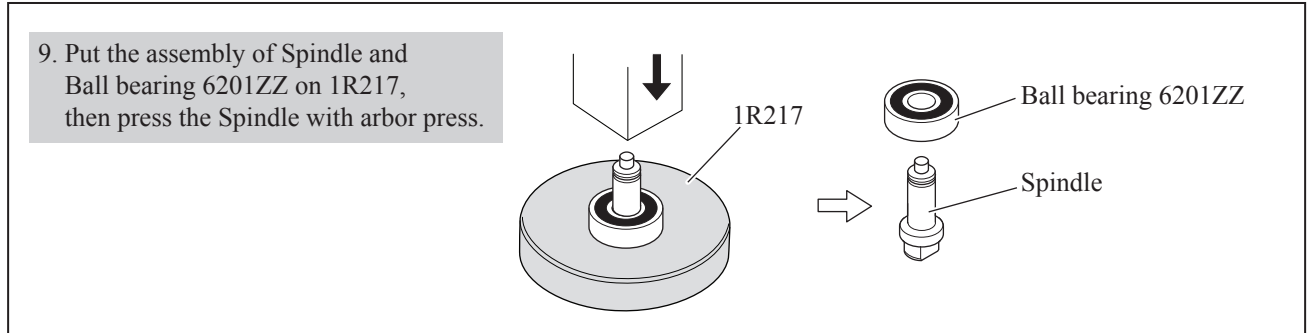
**[3] DISASSEMBLY/ASSEMBLY**

**[3]-3. Gear Section (Helical Gear 44, Ball Bearings 6201ZZ, 606ZZ)**

**DISASSEMBLING**

(3) Disassemble Spindle from Ball bearing 6201ZZ as illustrated in **Fig. 7**.

**Fig. 7**



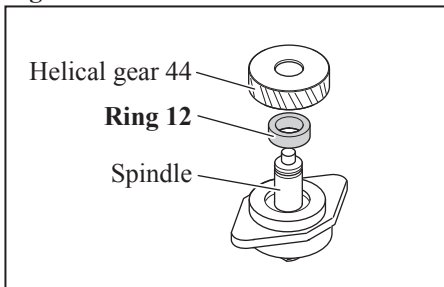
**ASSEMBLING**

(1) Do the reverse of the disassembling steps. (**Figs. 7, 6, 5**)

**Note in Assembling 1:**

Do not forget to assemble Ring 12 before assembling Helical gear 44. (**Fig. 8**)

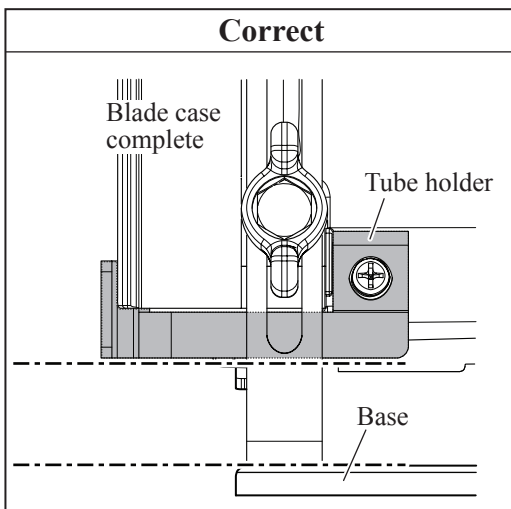
**Fig. 8**



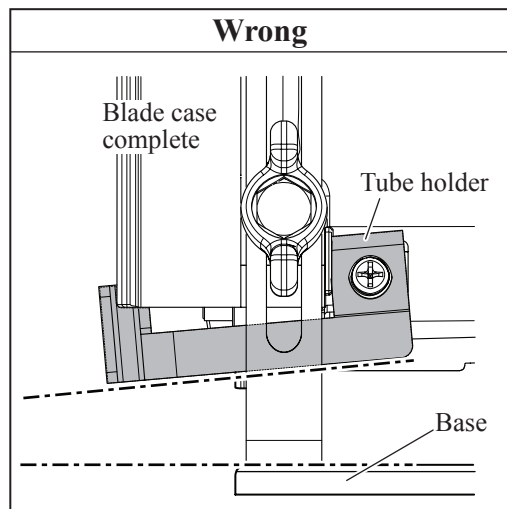
**Note in Assembling 2:**

Tube holder must be mounted to Blade case complete in parallel to Base as illustrated in **Fig. 9R**.

**Fig. 9R**

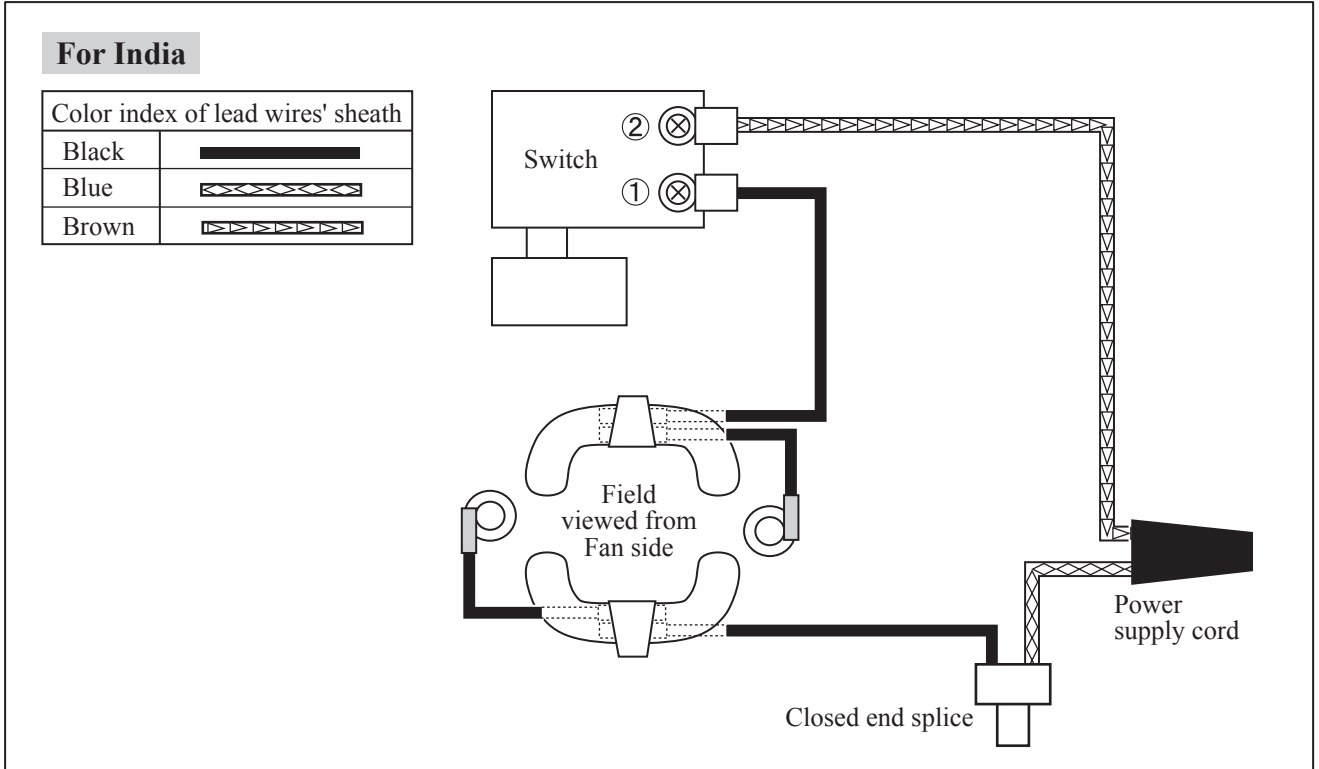


**Fig. 9F**



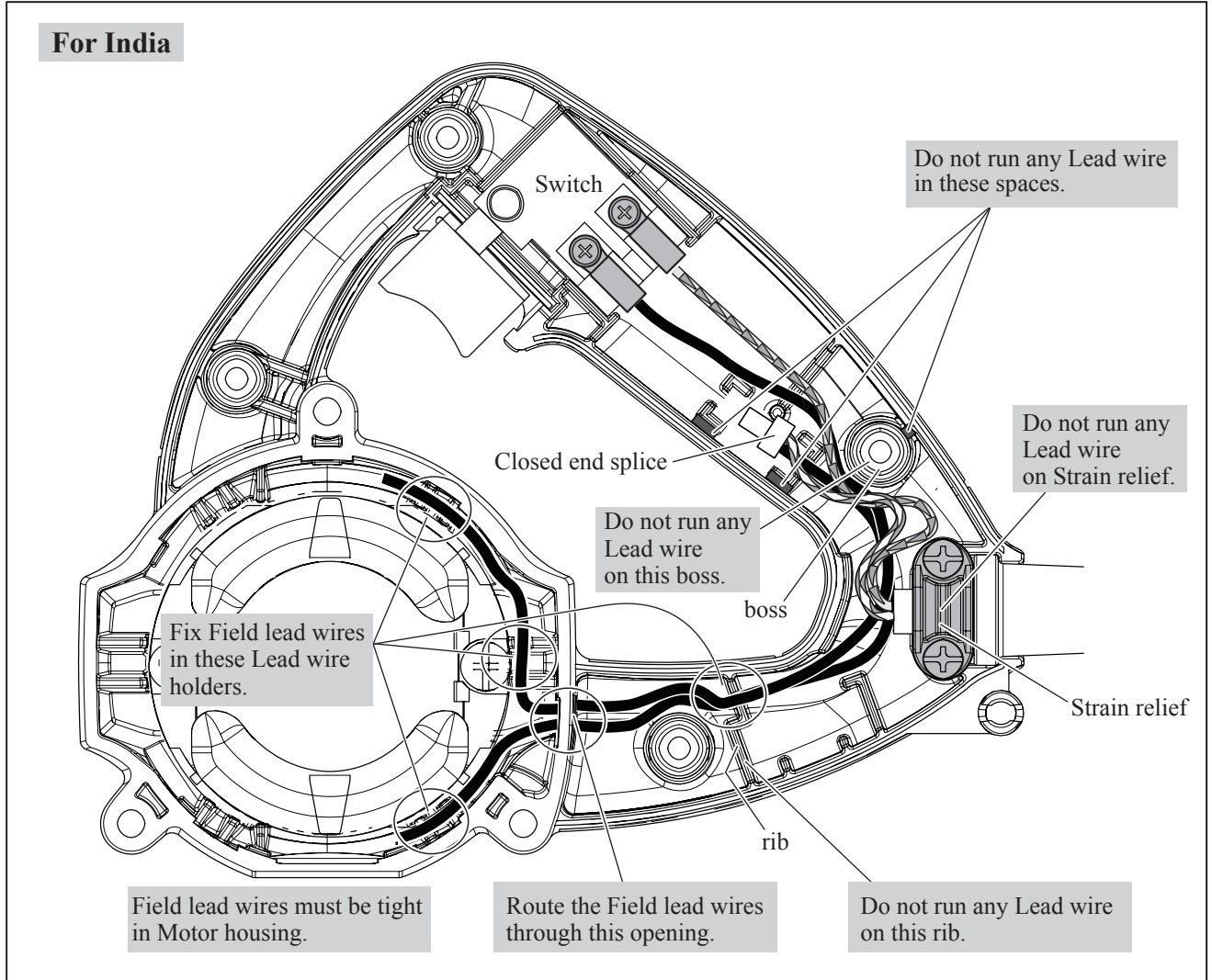
► **Circuit diagram**

Fig. D-1A



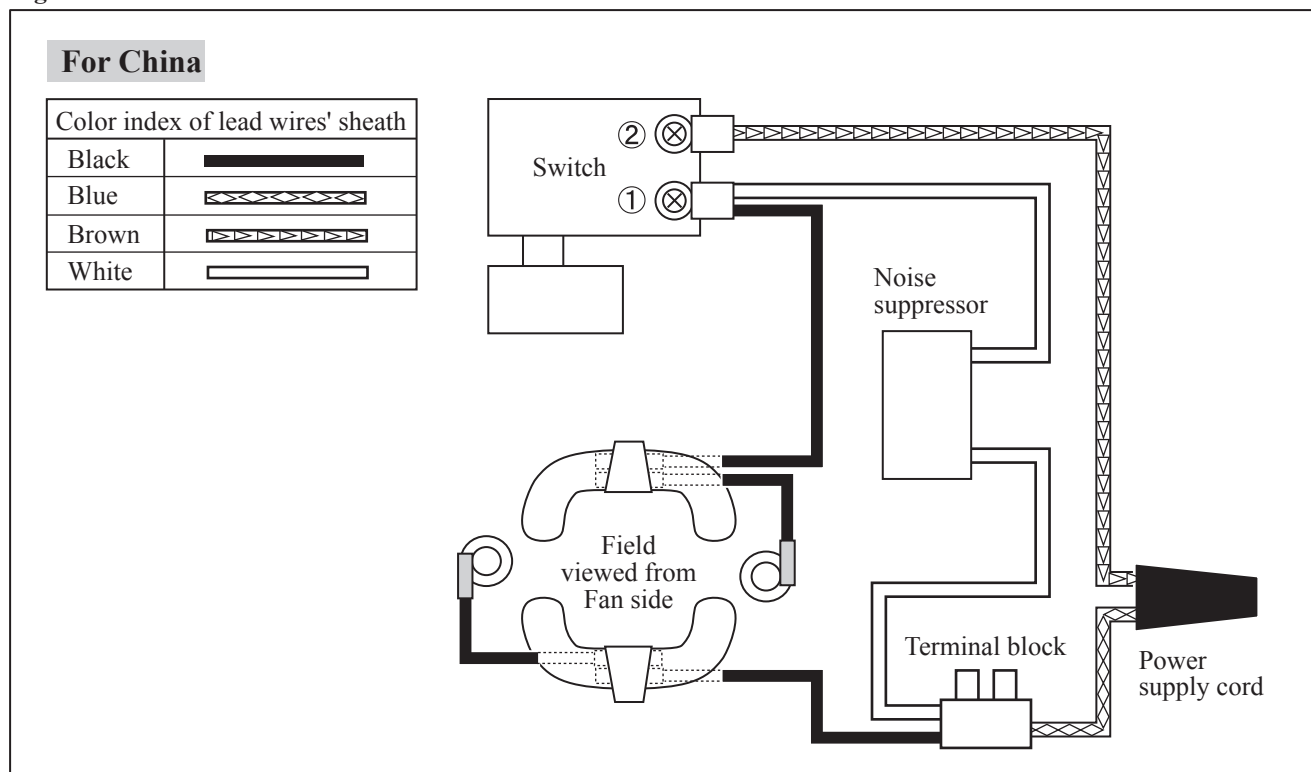
► **Wiring diagram**

Fig. D-2A



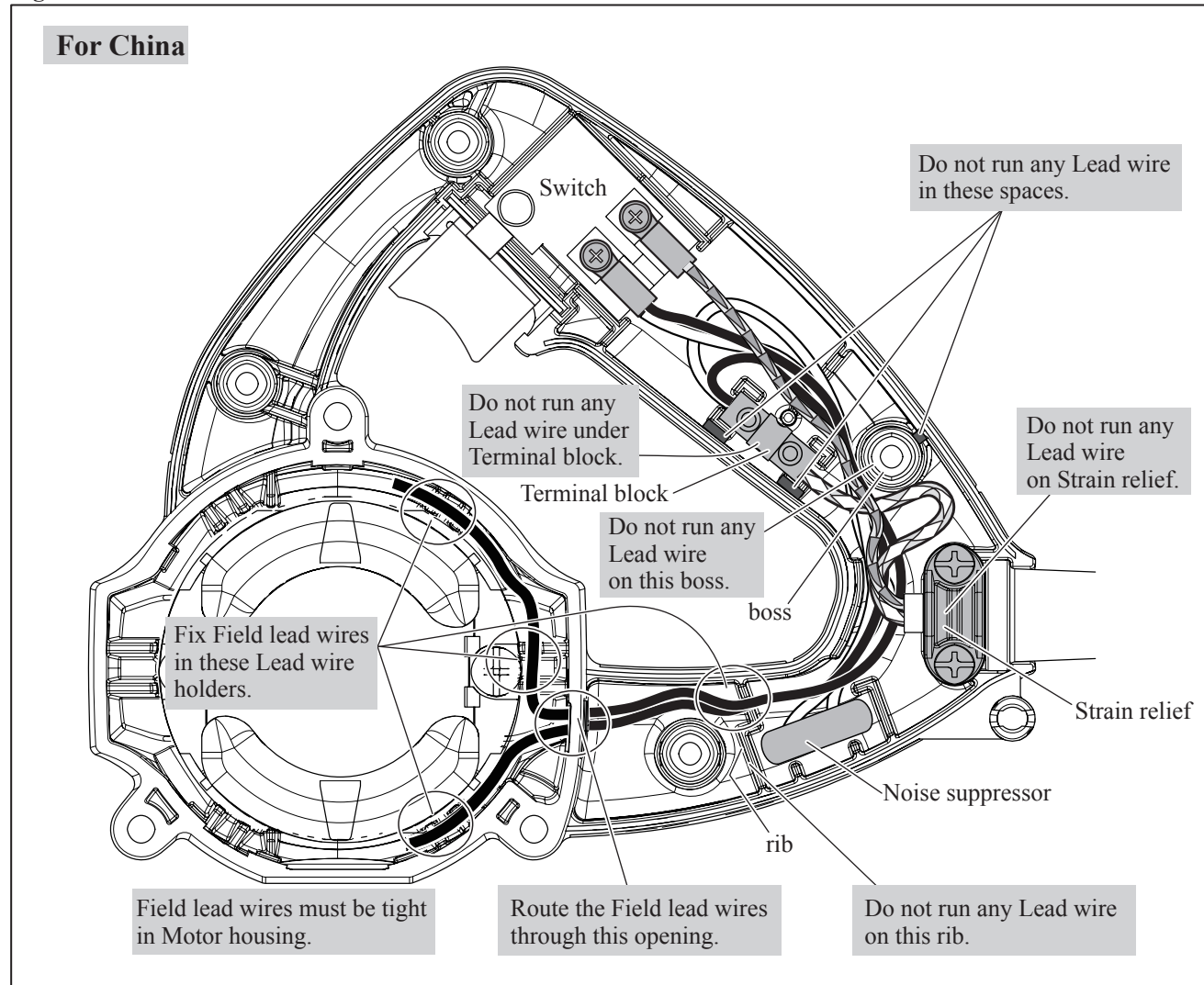
► **Circuit diagram**

Fig. D-1B



► **Wiring diagram**

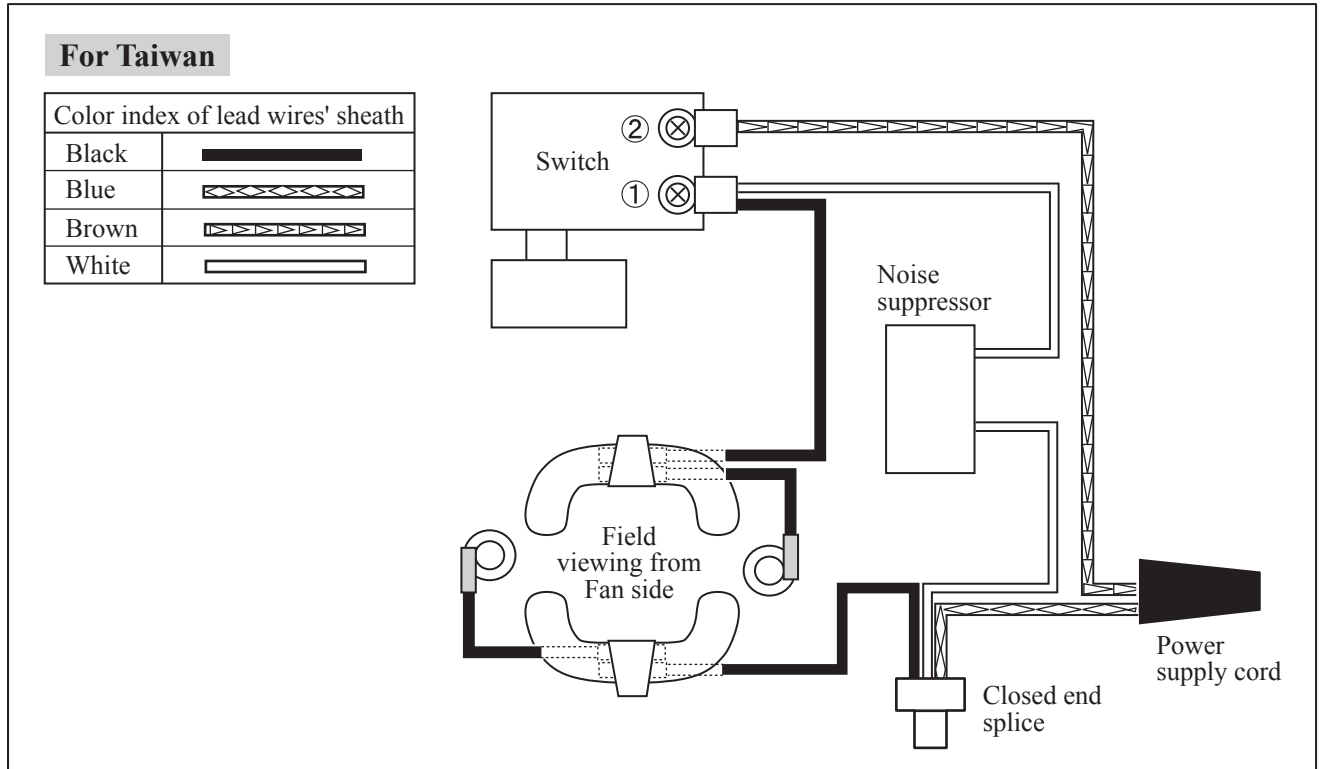
Fig. D-2B





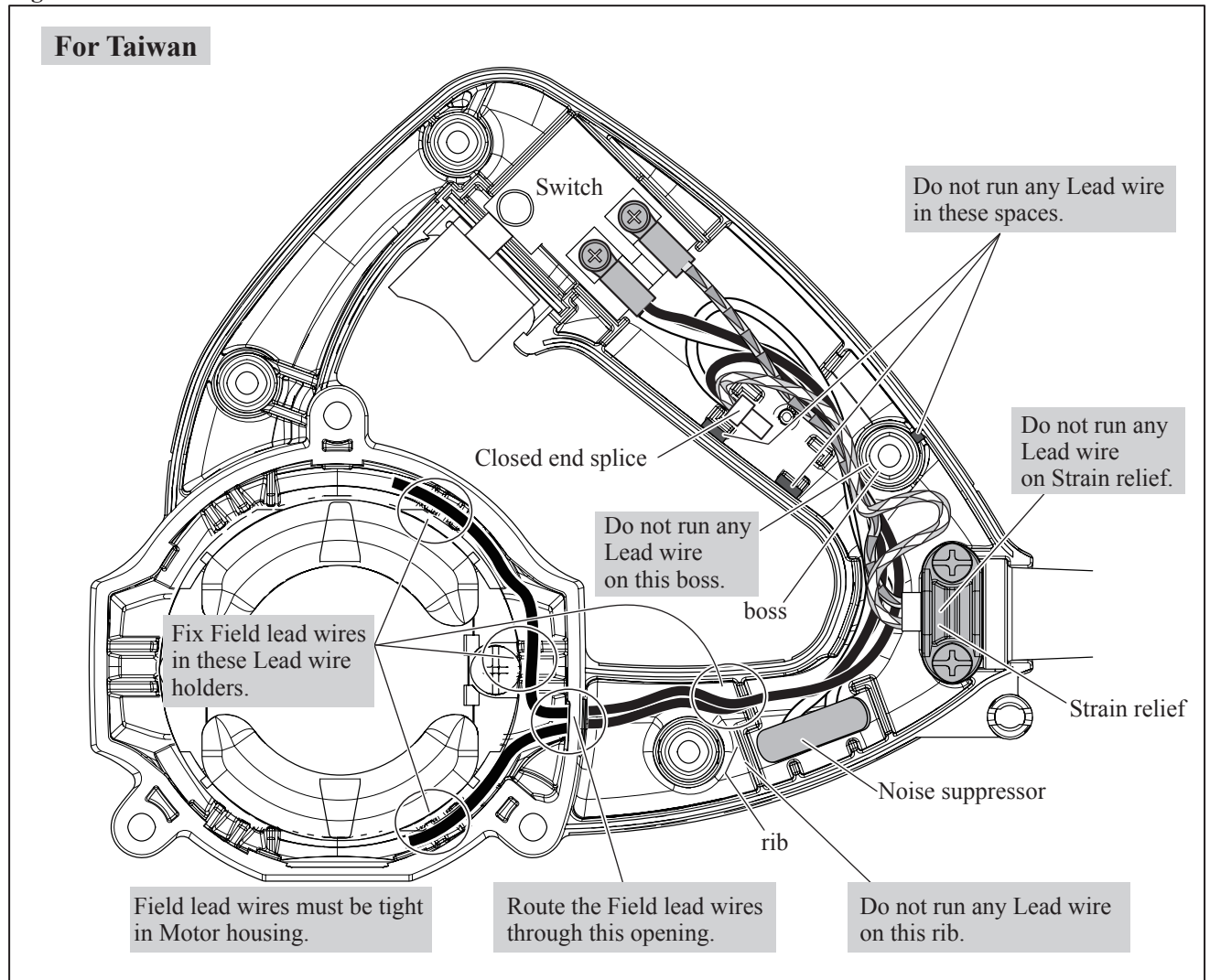
► **Circuit diagram**

Fig. D-1C



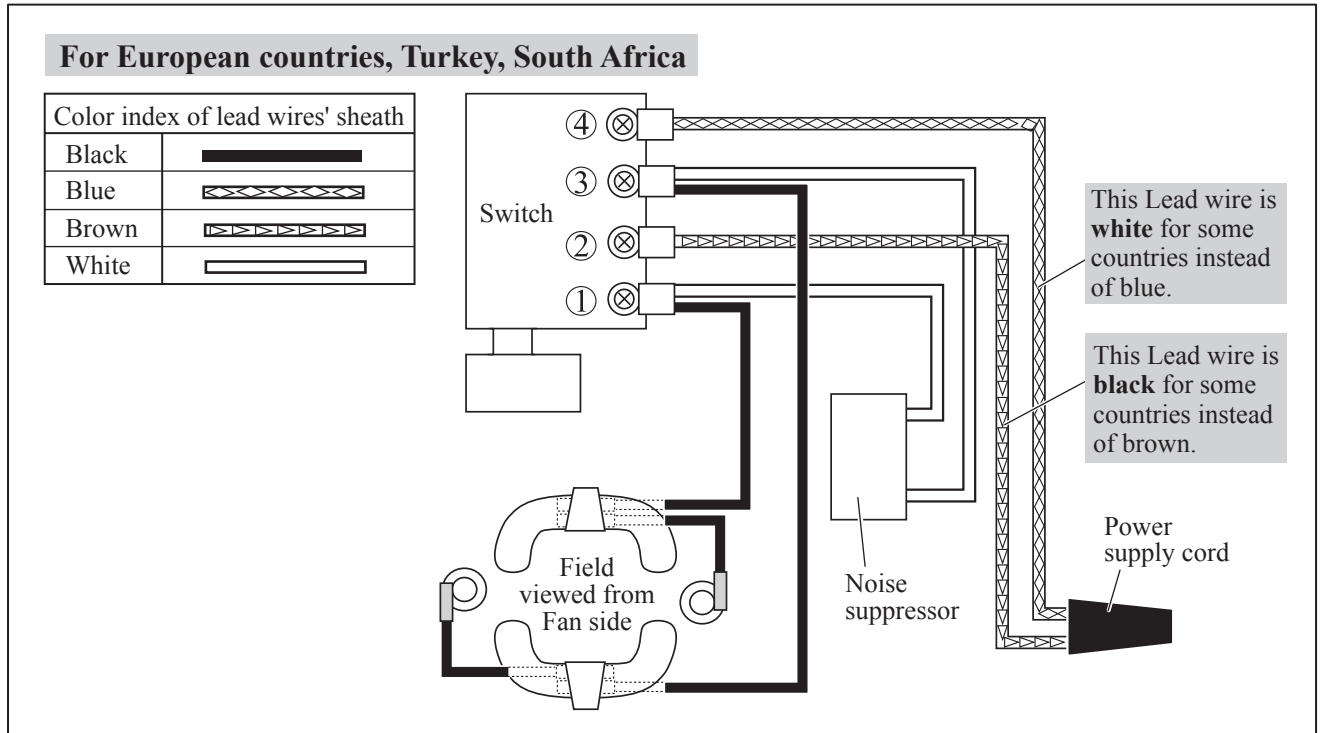
► **Wiring diagram**

Fig. D-2C



► **Circuit diagram**

Fig. D-1D



► **Wiring diagram**

Fig. D-2D

