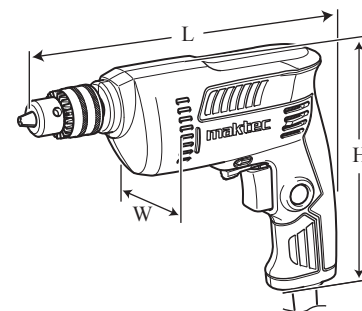


T ECHNICAL INFORMATION

Models No. ▶ MT60

Description ▶ 10mm Drill



CONCEPT AND MAIN APPLICATIONS

Model MT60 has been developed as a maktec brand 10mm Drill for emerging countries such as China and India by prioritizing cost competitiveness.

Because this model has been designed through partial re-standardization of product performance to meet the requirements of the target market, its formulation of maktec design and model number has been changed to distinguish this model from the current maktec series models.

Dimensions: mm (")	
Length (L)	230 (9)
Width (W)	66 (2-5/8)
Height (H)	176 (6-15/16)

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
220	1.7	50/ 60	350	170	300
230 - 240	1.6	50/ 60	350	170	300

No load speed: min-1 = rpm	0 - 3,000	
Drill chuck type	Keyed	
Chuck capacity: mm (")	1.5 - 10 (1/16 - 3/8)	
Capacities: mm (")	Steel	10 (3/8)
	Wood	20 (13/16)
Reverse switch	Yes	
Variable speed control by trigger	Yes	
Protection against electric shock	Double insulation	
Power supply cord: m (ft)	2.0 (6.6)	
Weight according to EPTA-Procedure 01/2003: kg (lbs)	1.2 (2.6)	

► Standard equipment

Chuck key 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

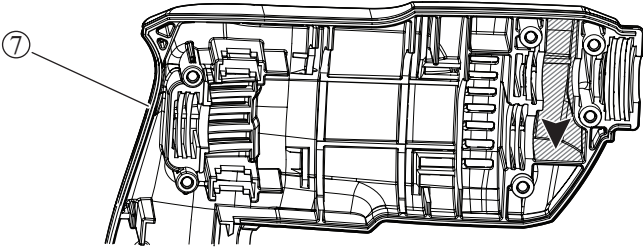
Code No.	Description	Use for
1R004	Retaining Ring S Pliers ST-2	removing/ assembling Ring spring 11 from Spindle
1R032	Bearing Setting Plate 8.2	removing Helical gear 35
1R232	Pipe 30	
1R269	Bearing Extractor	removing Ball bearings

[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
⑦	Housing Set	Gear room where Helical gear 35 rotates	Makita grease N No.1	3g

Fig. 1



◀ : Makita grease N. No.1 (3g)

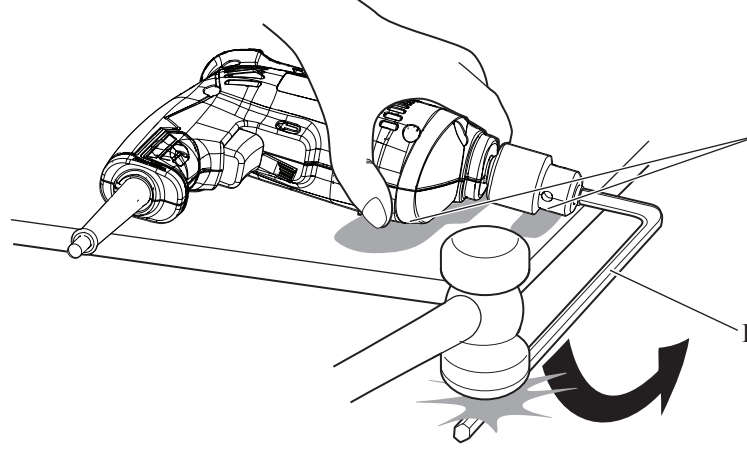
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Drill Chuck

DISASSEMBLING

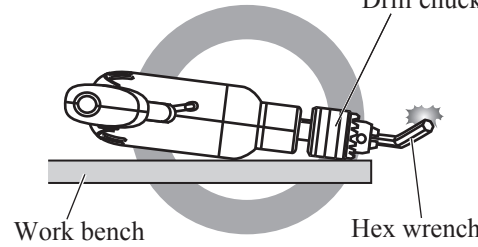
Remove Drill chuck using Hex wrench and Hammer as described in Fig. 2.

Fig. 2



1. Tighten the short end of a Hex wrench in Drill chuck.
2. Fix the machine on a workbench securely by pressing both its Gear housing portion and Drill chuck against the workbench. See the left illustration in Fig. 2-A.
3. Turn the Hex wrench counterclockwise by striking it with plastic hammer.

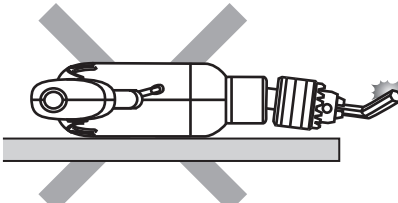
[CORRECT]



Work bench

[WRONG]

Spindle can be deformed by the shock to hex wrench.



► **Repair**

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Drill Chuck

ASSEMBLING

Do the reverse of the disassembling steps.

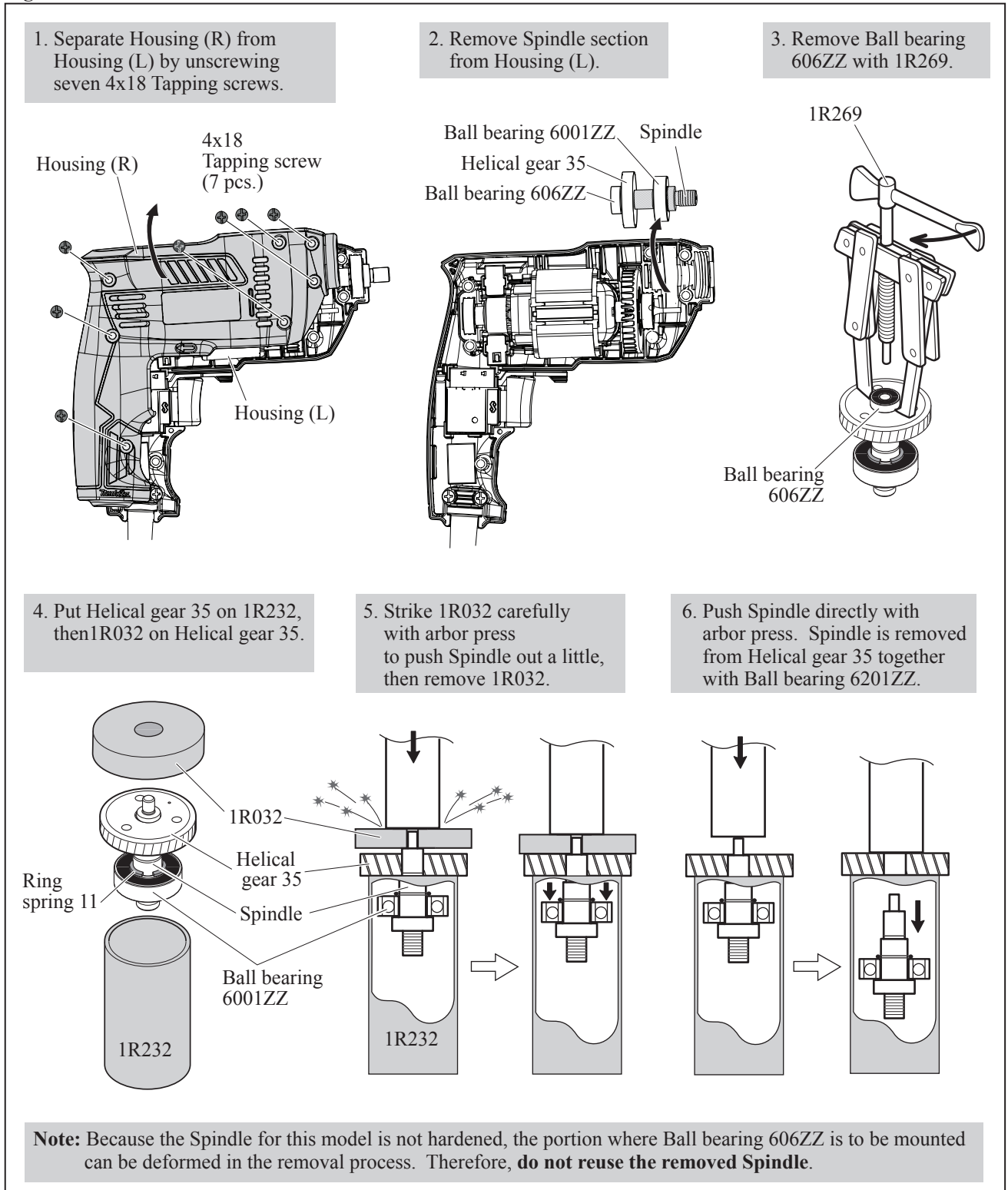
[3]-2. Spindle and Helical Gear 35

DISASSEMBLING

(1) Remove Drill chuck. (Fig. 2)

(2) Remove Spindle section from Housing (L), then disassemble Spindle from Helical gear 35. (Fig. 3)

Fig. 3

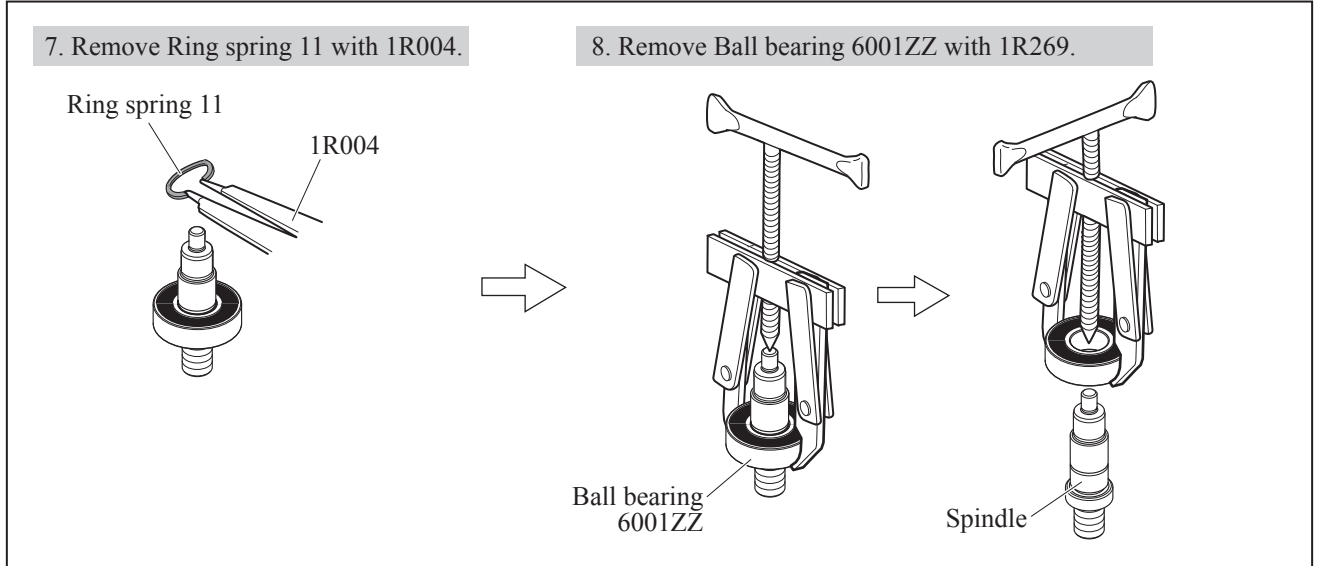


► **Repair**
[3] DISASSEMBLY/ASSEMBLY
[3]-2. Spindle and Helical Gear 35

DISASSEMBLING

(3) Remove Ball bearing 6001ZZ as illustrated in **Fig. 4**.

Fig. 4



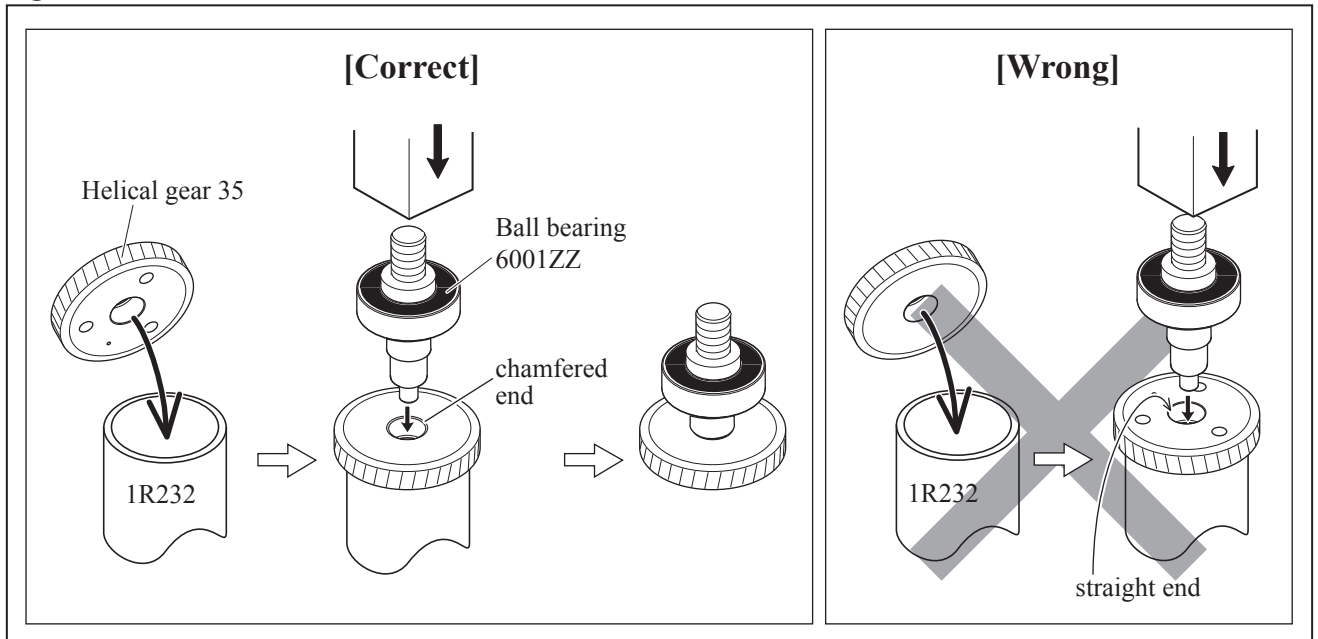
ASSEMBLING

Do the reverse of the disassembling steps.

Note in Assembling:

1. Use new Spindle. (See the **Note** in **Fig. 3**)
2. Press-fit Spindle in Helical gear 35 from the chamfered end of the hole of the Gear as described on the **left** in **Fig. 5**.

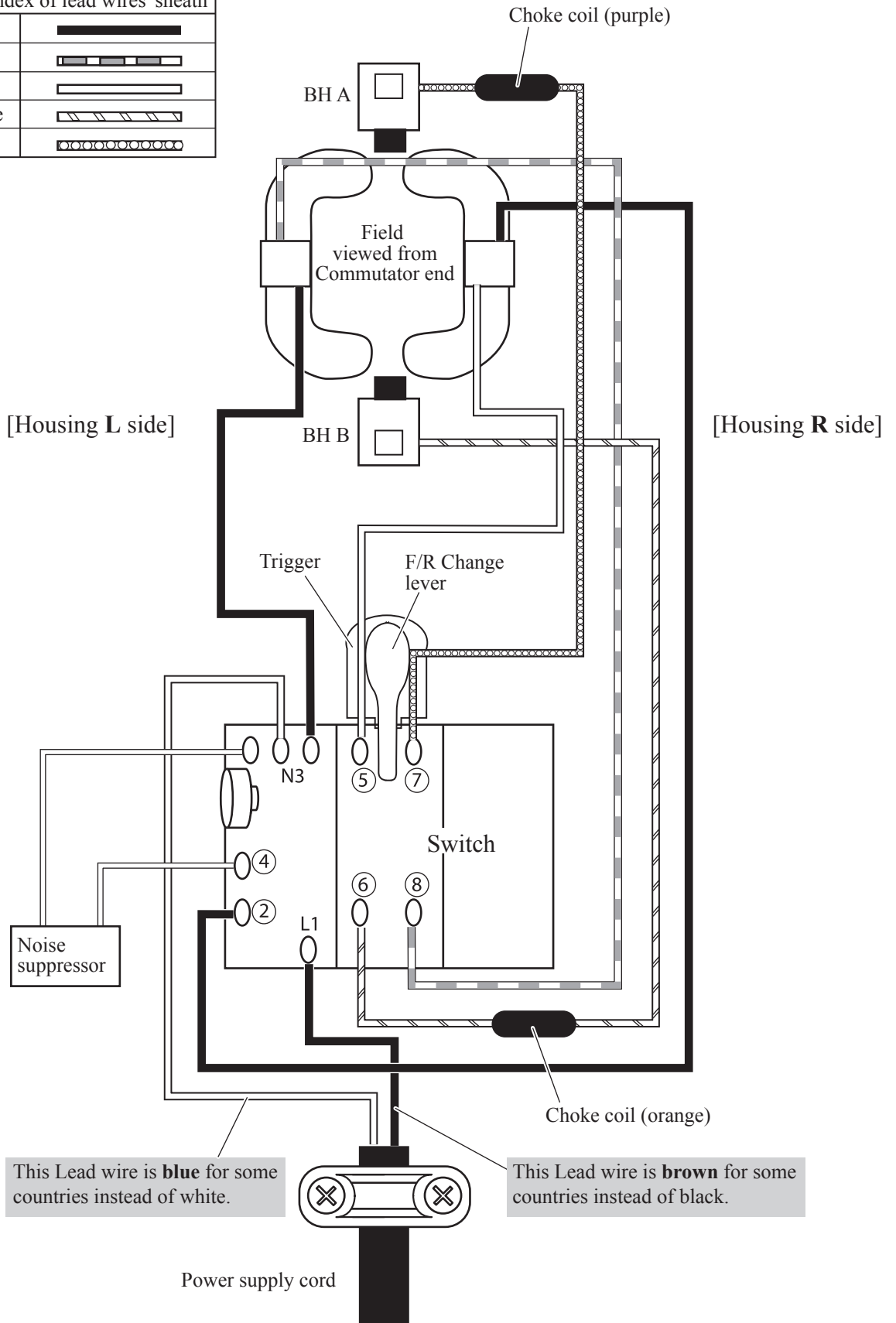
Fig. 5



► **Circuit diagram**

For the Market where Radio Interference Suppression is **required**

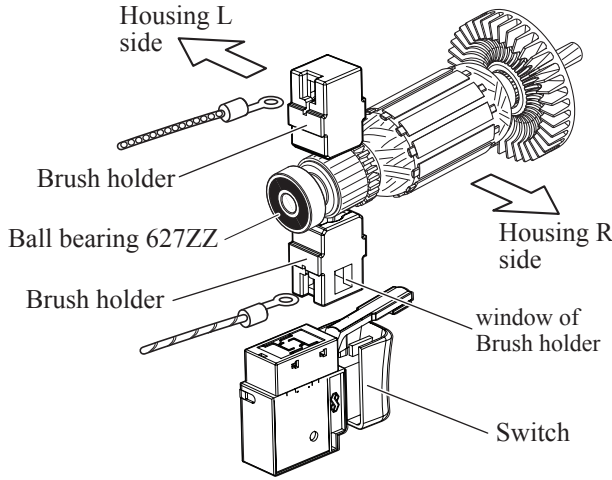
Color index of lead wires' sheath	
Black	
Red	
White	
Orange	
Purple	



► **Circuit diagram**

For the Market where Radio Interference Suppression is **required**

Wiring to Brush Holder



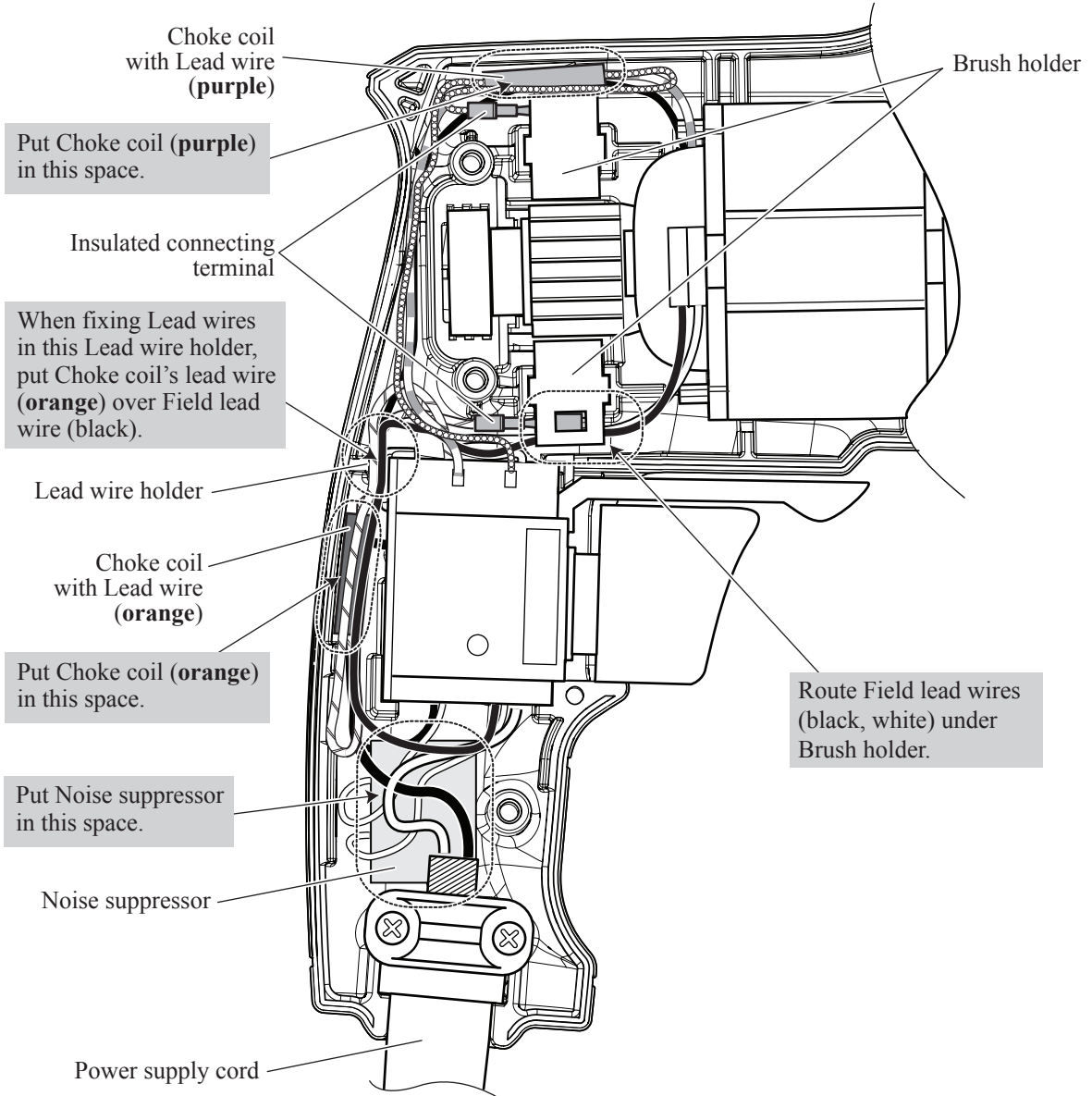
For easy wiring, set Brush holders on Housing L as instructed below:

*Brush holder on Switch side -
Face the window of Brush holder towards Housing R side.

*Brush holder on the opposite side -
Face the window of Brush holder towards Housing L side.






The Insulated connecting terminals can be connected from the Ball bearing 627ZZ side (rear side).

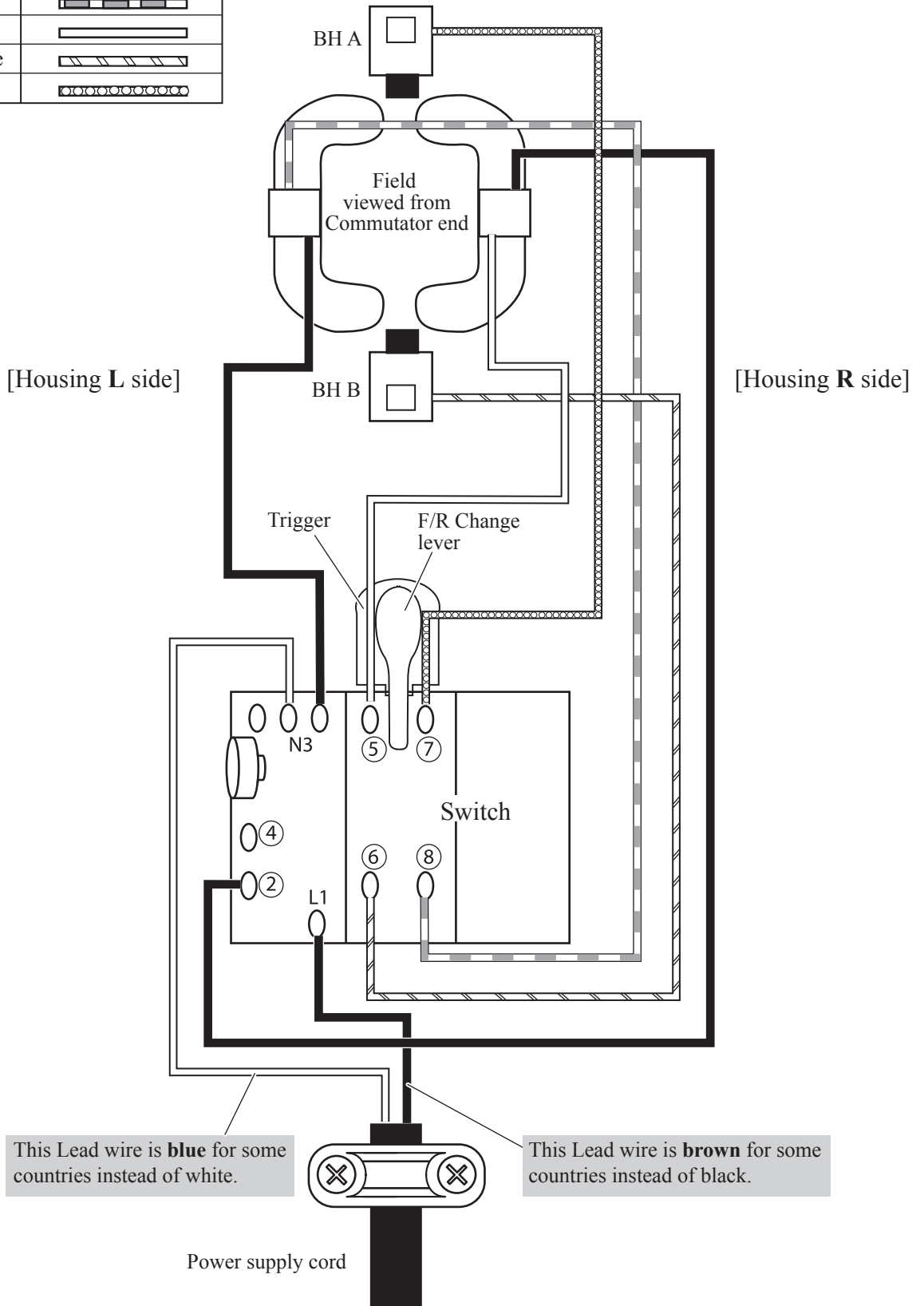
Wiring in Housing L



► **Circuit diagram**

For the Market where Radio Interference Suppression is **not required**

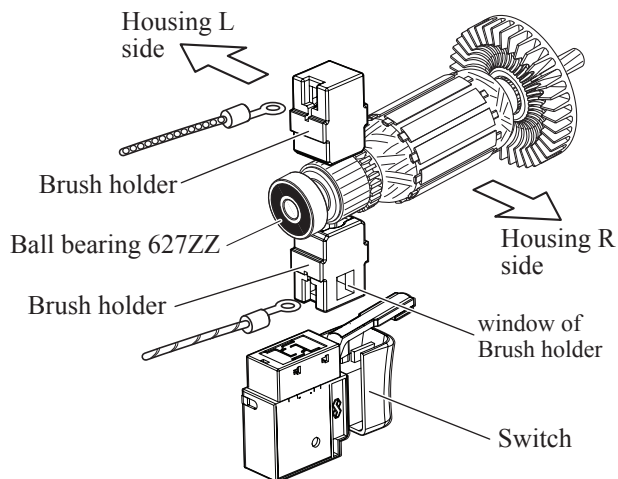
Color index of lead wires' sheath	
Black	
Red	
White	
Orange	
Purple	



► **Circuit diagram**

For the Market where Radio Interference Suppression is **not** required

Wiring to Brush Holder



For easy wiring, set Brush holders on Housing L as instructed below:

*Brush holder on Switch side -
Face the window of Brush holder towards Housing R side.

*Brush holder on the opposite side -
Face the window of Brush holder towards Housing L side.

The Insulated connecting terminals can be connected from the Ball bearing 627ZZ side (rear side).

Wiring in Housing L

