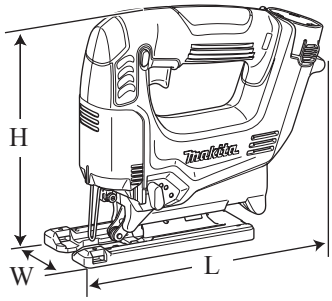
TECHNICAL INFORMATION

Model No. ► JV100D (VJ01*1)

Description ► Cordless Jig Saw

*1 Model number for North and Central American countries except Mexico and Guam



Dimensions: mm (")	
Length (L)	231 (9-1/8)
Width (W)	76 (3)
Height (H)	196 (7-3/4)

CONCEPT AND MAIN APPLICATIONS

Model JV100D (VJ01*1) has been developed as the first cordless jig saw of the 10.8V Li-ion Cordless series.
Its main features are:

- Compact and lightweight design achieved while maintaining the power enough to perform smooth light duty cutting
- The same mechanical parts and functions as used for AC model 4329

This product is available in the following variations.

Model No.	Charger	Battery		Housing color	Plastic carrying case	Offered to
		type	quantity			
JV100DZ	No	No	No	Makita blue	No	All countries except North and Central American countries (Mexico and Guamare included)
JV100DZW				white		
JV100DW	DC10WA	BL1013	1	Makita blue	Yes	
JV100DWW				white		
JV100DWE			2	Makita blue		
JV100DWEW				white		
VJ01Z	No	No	No	Makita blue	No	North and Central American countries except Mexico and Guam
VJ01ZW				white		
VJ01	DC10WB	BL1014	2	Makita blue	Yes	
VJ01W				white		

All models also include the accessories listed below in "Standard equipment".

► Specification

Battery	Voltage: V	10.8*2, (10.8/12V max*3)
	Capacity: Ah	1.3
	Energy capacity: Wh	14
	Cell	Li-ion
	Charging time (approx.): min.	50 with DC10WA*2, (DW10WB*3)
Max. output: W		130
No load speed: strokes per minute		0 - 2,400
Stroke length: mm (")		18 (11/16)
Shank type		B-type
Capacities: mm (")	Wood	65 (2-9/16)
	Mild steel	2 (1/16)
	Aluminum	4 (5/32)
Cut settings		3 Orbital settings + Straight cutting
Electric brake		Yes
Variable speed control by trigger		Yes
Weight according to EPTA-Procedure 01/2003*4: kg (lbs)		1.7 (3.7)

*2 For all countries except North and Central American countries (Mexico and Guam are included.)
*3 For North and Central American countries except Mexico and Guam
*4 With battery

► Standard equipment

Jig saw blade No. B-10 1
Hex wrench 1
Guide rule set (for some countries only) 1
Note: The standard equipment for the tool shown above may vary by country.

► Optional accessories

Jig saw blades
Guide rule set
Hose 28
Cover plate
Kerf board set
Charger DC10WA*2
Li-ion battery BL1013*2
Charger DC10WB*3
Li-ion battery BL1014*3

► Repair

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

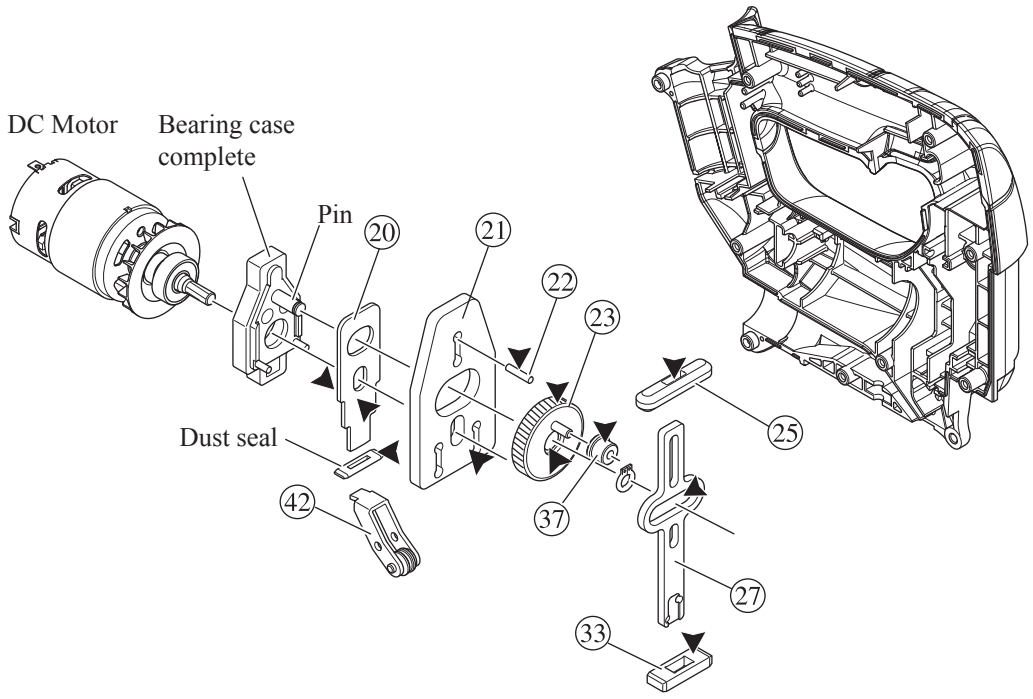
[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R029	Bearing Setting Pipe 23-15.2	Pressing Bearing case complete, when assembling it to DC Motor
1R032	Bearing Setting Plate 8.2	Supporting DC Motor, when assembling it to Bearing case complete
1R258	V Block	Supporting DC Motor, when assembling it to Bearing case complete
1R269	Bearing Extractor	Separating DC Motor from Bearing case complete
1R274	Type 72 Field Insert Jig	Supporting DC Motor, when assembling it to Bearing case complete
1R291	Retaining Ring S & R Pliers	Removing /assembling Retaining ring S-6

[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
⑳	Push plate	Both side	a little
㉑	Balance plate	The portion that ㉓ Gear complete contacts	a little
㉒	Pin 3	Whole portion	a little
㉓	Gear complete	Gear teeth and Armature gear in Bearing case complete and Balance plate	Approx. 3 g
㉕	Slider guide	Hole where ㉗ Slider reciprocates	a little
㉗	Slider	Elliptic hole where ㊲ Collar sleeve moves	a little
㉝	Slider support	Hole where ㉗ Slider reciprocates	a little
㊲	Collar sleeve	Whole portion	a little
㊷	Retainer complete	The portion that ⑳ Push plate contacts	a little



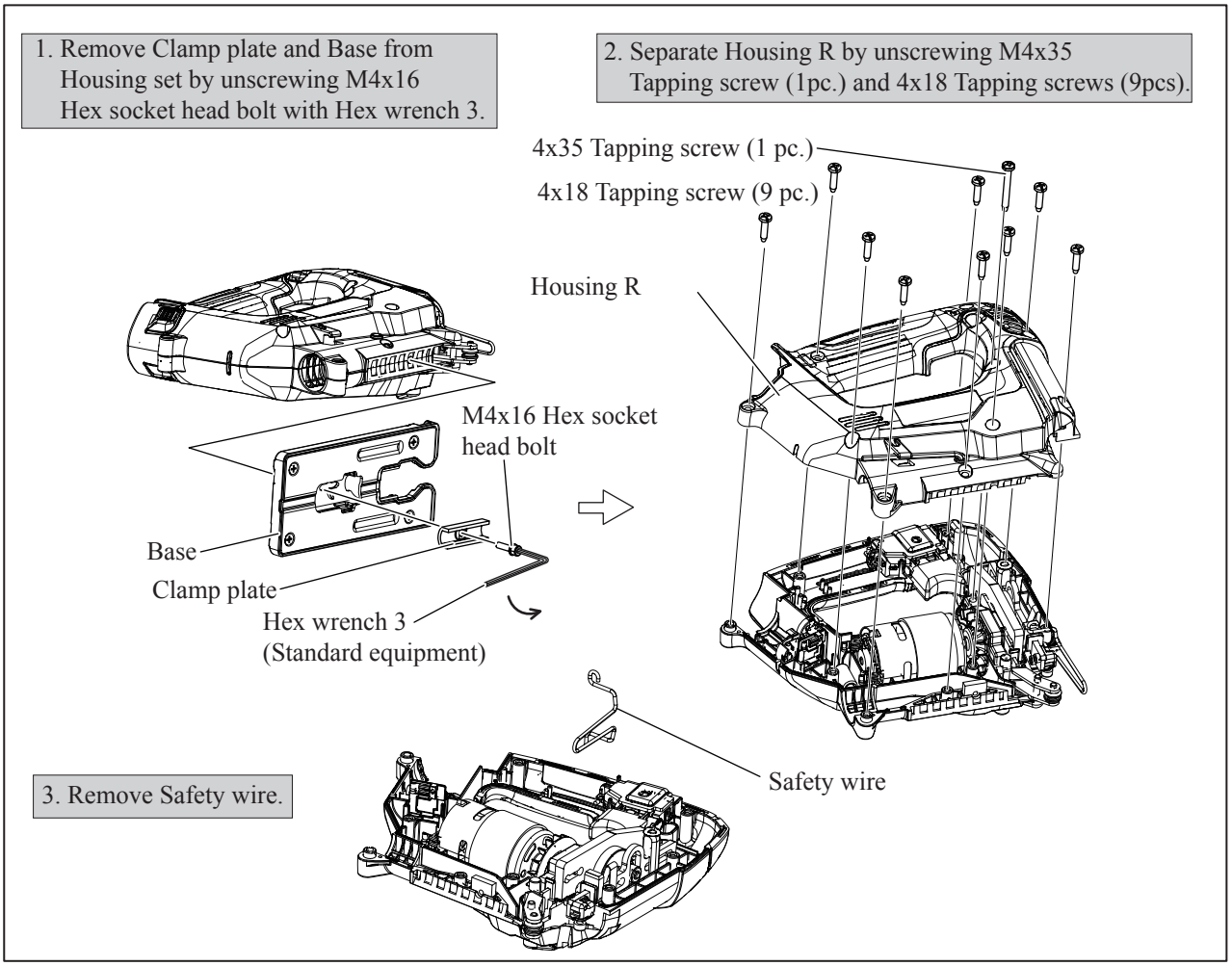
Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -1. Housing

DISASSEMBLING

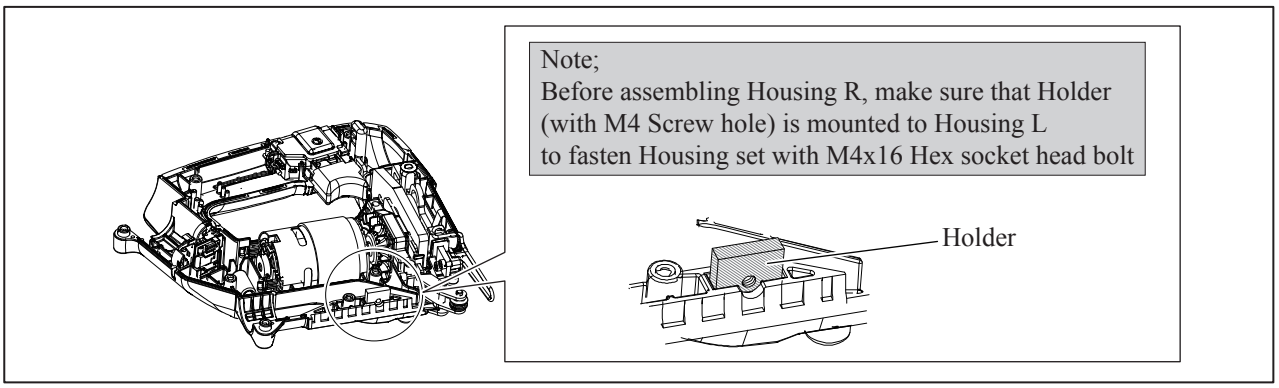
Fig. 2



ASSEMBLING

(1) Make sure to insert Holder to Housing L (**Fig. 3)**.

Fig. 3



(2) Set Safety wire to Housing L (**Fig. 2**-3).
(3) Assemble Housing R to Housing L (**Fig. 2**-2).
(4) Assemble Base and Clamp plate to Housing set and tighten them with M4x16 Hex socket head bolt (**Fig. 2**-1).

Repair

[3] DISASSEMBLY/ASSEMBLY

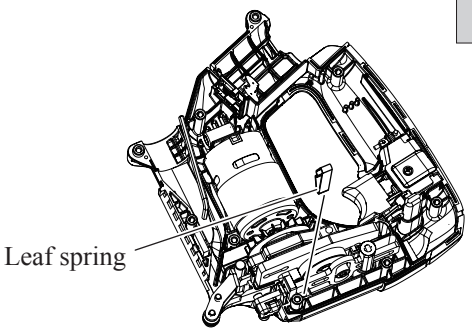
[3] -2. Reciprocating Mechanism

DISASSEMBLING

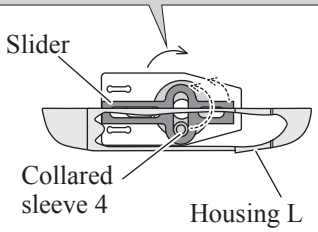
(1) Separate Housing R from Housing L (**Fig. 2**).
(2) Now, Reciprocating mechanism can be disassembled (**Fig. 4**).

Fig. 4

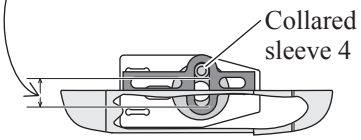
1. Remove Leaf spring.



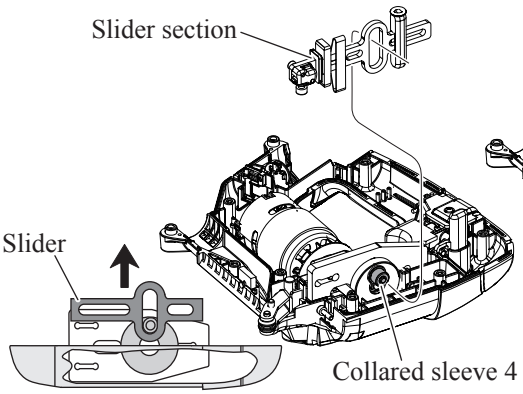
2. Turn DC motor shaft to move Collared sleeve 4 up to the top position of Slider's elliptical hole.



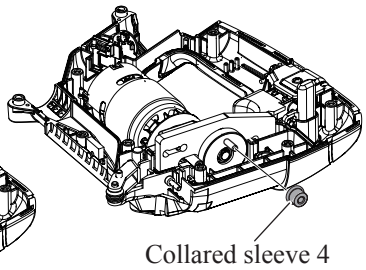
3. A space for removing Slider from Collared sleeve 4 is secured.



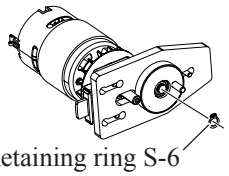
4. Remove Slider section from the Collared sleeve 4.



5 . Remove Collared sleeve 4.

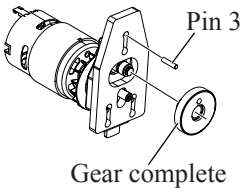


6 . Remove Retaining ring S-6 with 1R291.

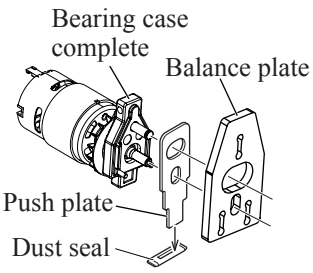


Note;
Retaining ring S-6 is deformed in this step. **Do not re-use it.**

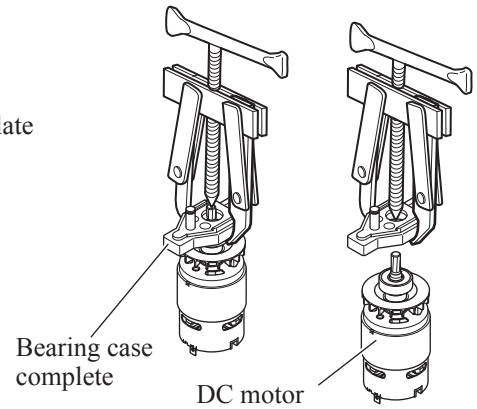
7. Now, remove Gear complete and Pin 3.



8. Remove Balance plate and Push plate from Bearing case complete.



9. Remove DC motor from Bearing case complete with 1R269.



Repair

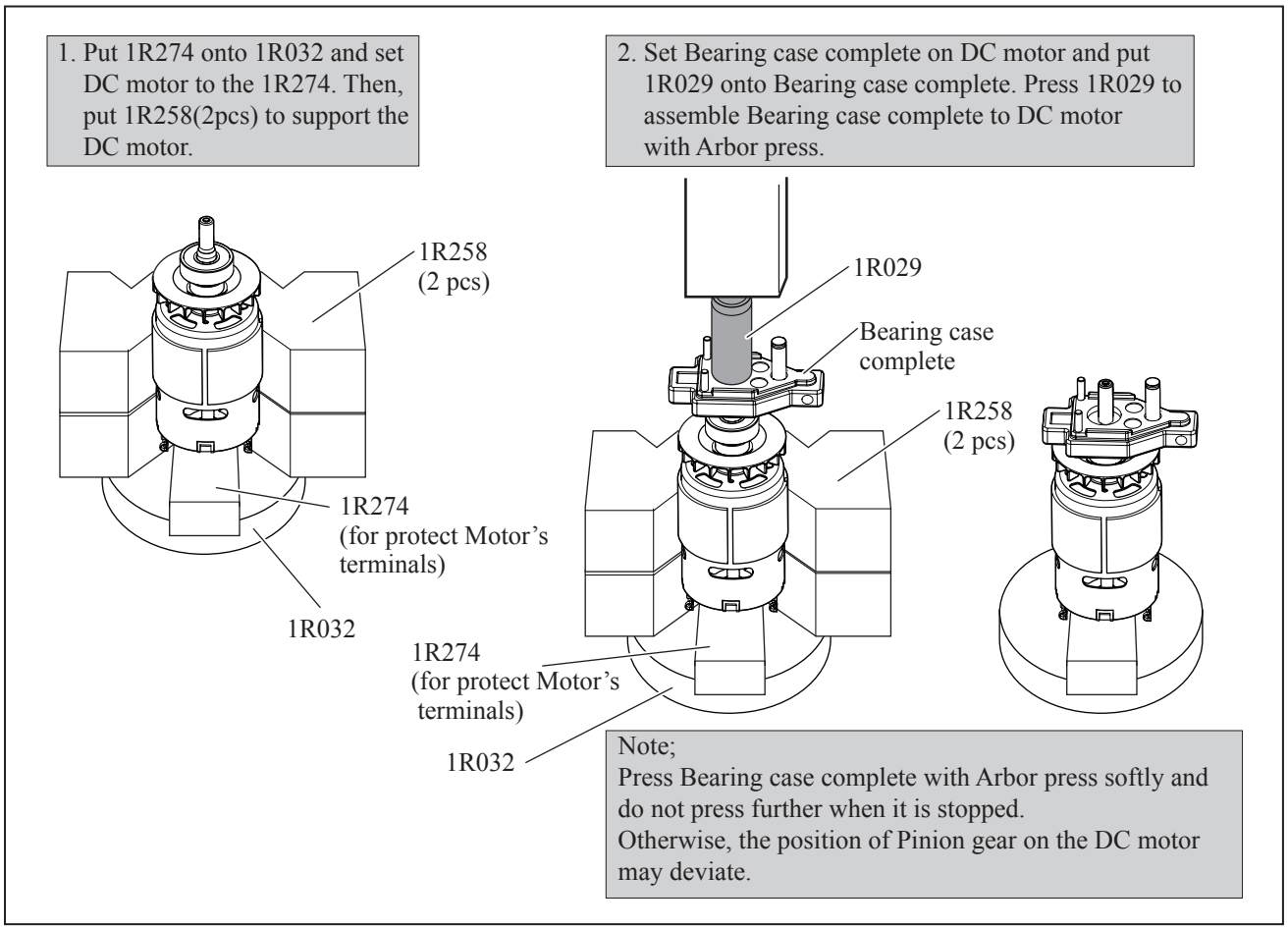
[3] DISASSEMBLY/ASSEMBLY

[3] -2. Reciprocating Mechanism

ASSEMBLING

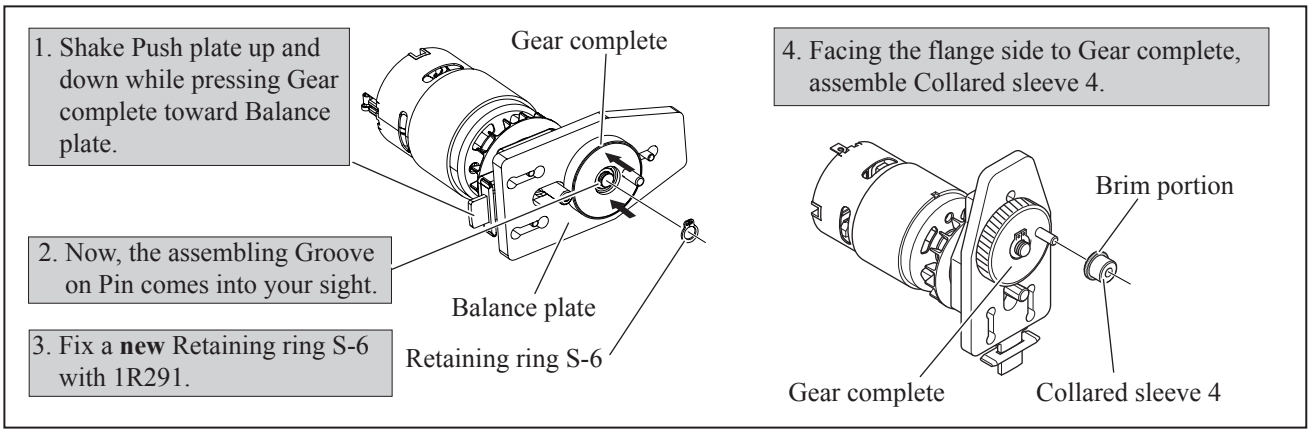
(1) Assemble Bearing case complete to DC motor (**Fig. 5**).

Fig. 5



(2) Insert Push plate into dust seal and assemble Push plate to Bearing case complete.
And then, mount Balance plate (**Fig. 4**).
(3) Assemble Gear complete to the pin on the Bearing case complete (**Fig. 4**-7).
Note;
Shake Push plate up and down while pressing Gear complete to insert it completely and to have the assembling groove of Retaining ring S-6 on the Pin of Bearing case complete. Fix Retaining ring S-6 to secure Gear complete to the pin's groove (**Fig. 6**).

Fig. 6



Repair

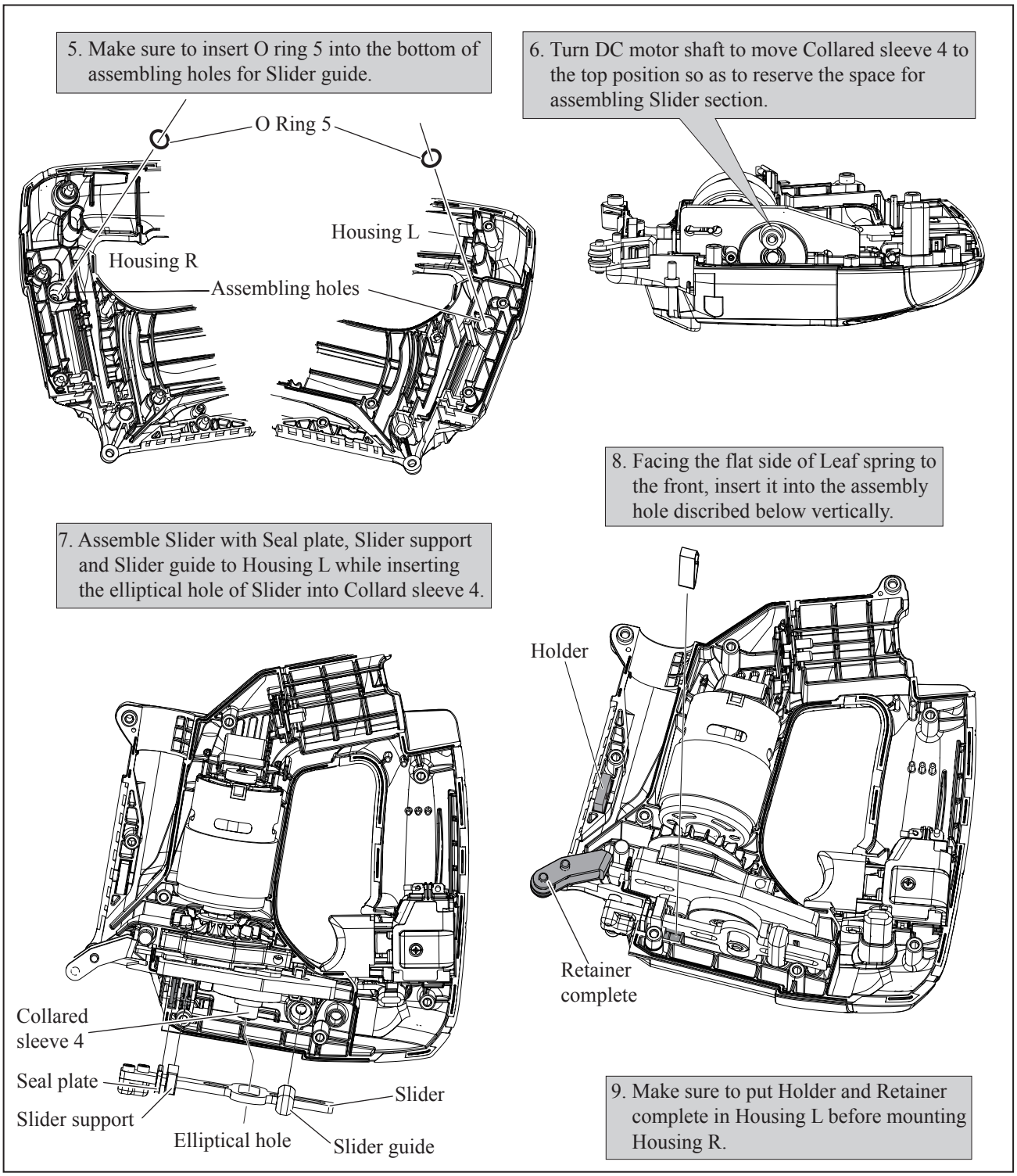
[3] DISASSEMBLY/ASSEMBLY

[3] -2. Reciprocating Mechanism (cont.)

ASSEMBLING

(4) After setting DC motor and Reciprocating mechanism to Housing L, assemble Slider section and Leaf spring (**Fig. 7**).

Fig. 7



Repair

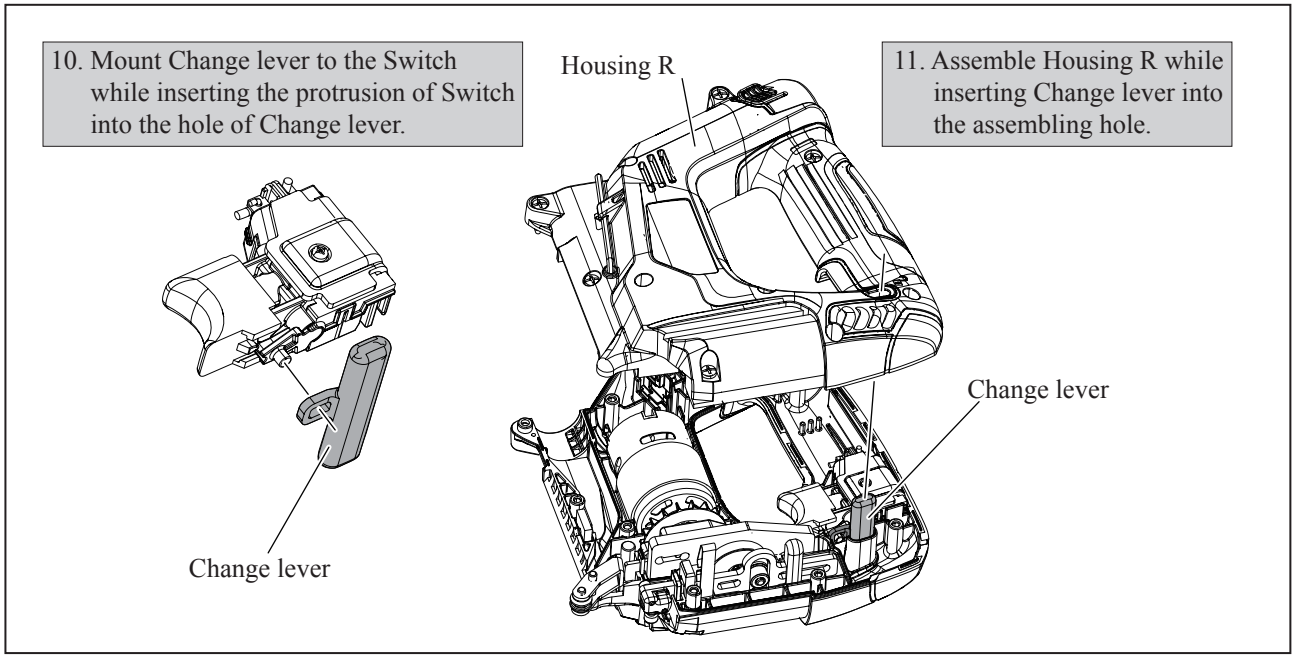
[3] DISASSEMBLY/ASSEMBLY

[3] -2. Reciprocating Mechanism

ASSEMBLING

(5) Assemble Housing R (**Fig. 8**).

Fig. 8

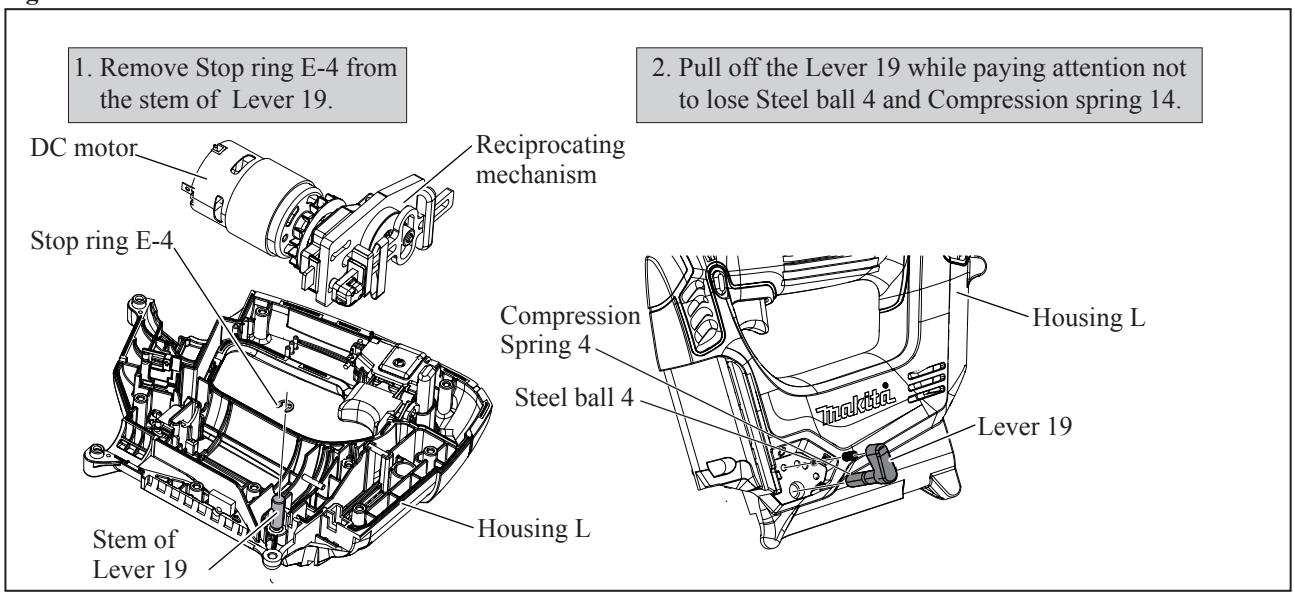


[3] -3. Lever 19

DISASSEMBLING

(1) After separating Housing R, remove DC motor and Reciprocating mechanism from Housing L. So, the stem of Lever 19 comes into your sight. Now, Lever 19 can be disassembled by removing Stop ring E-4 (**Fig. 9**).

Fig. 9

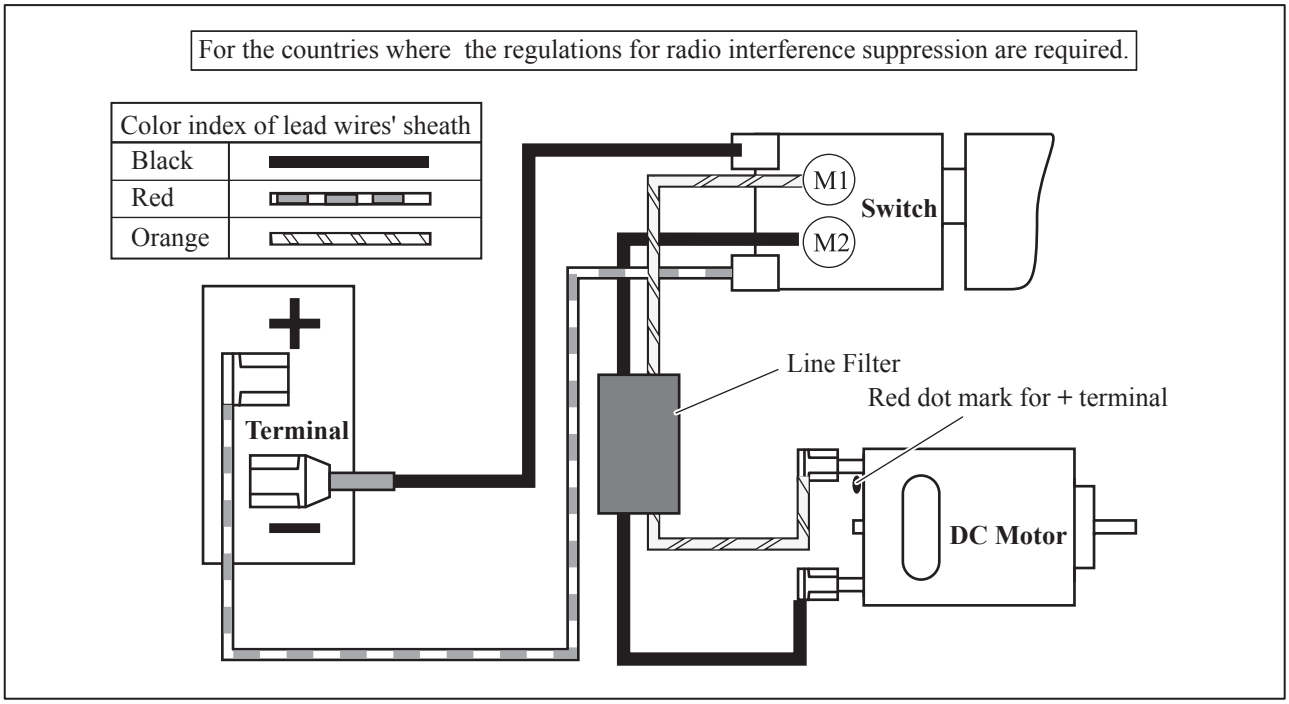


ASSEMBLING

Take the reverse step of Disassembling (**Fig. 9**).

Circuit diagram

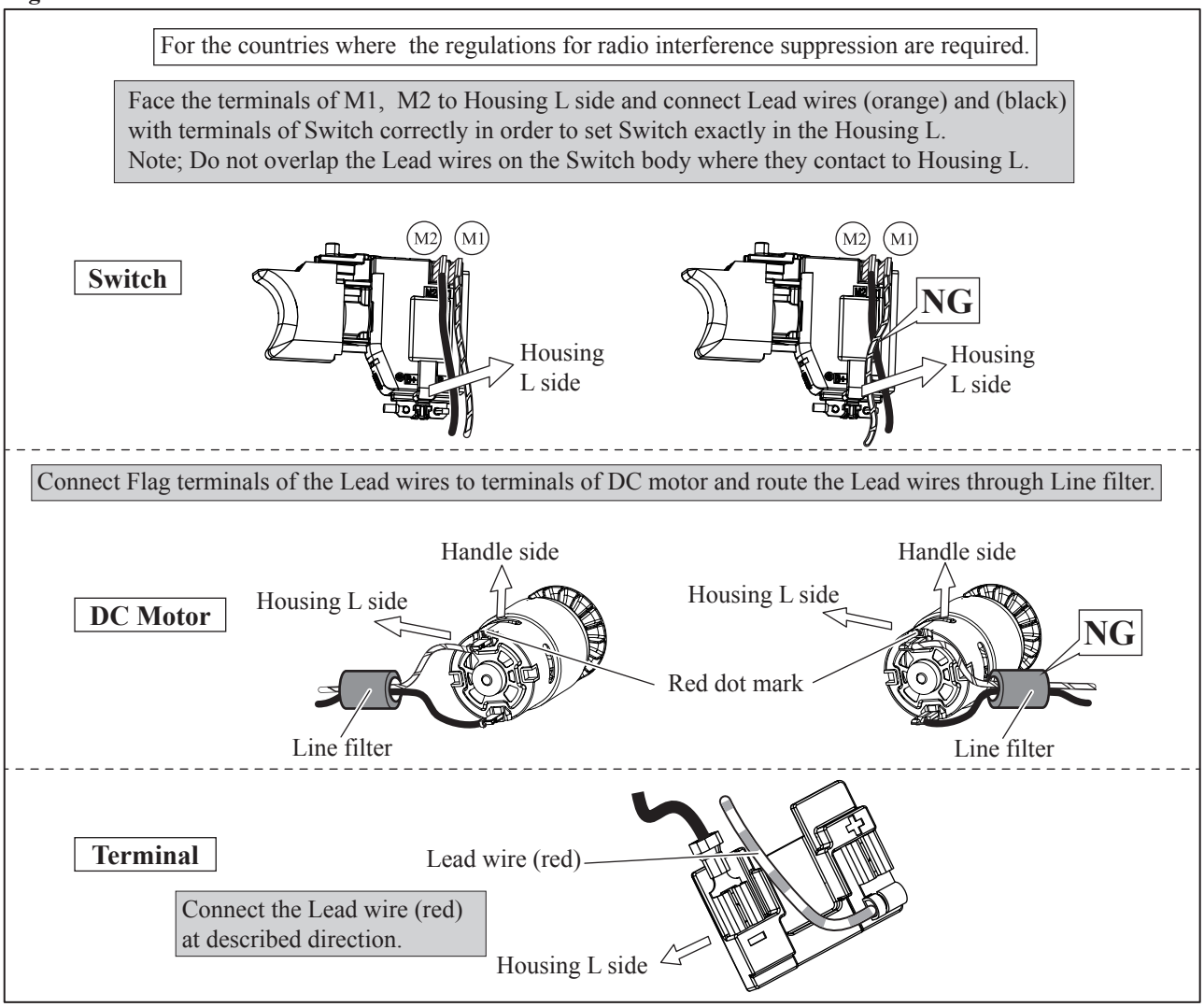
Fig. D-1



Wiring diagram

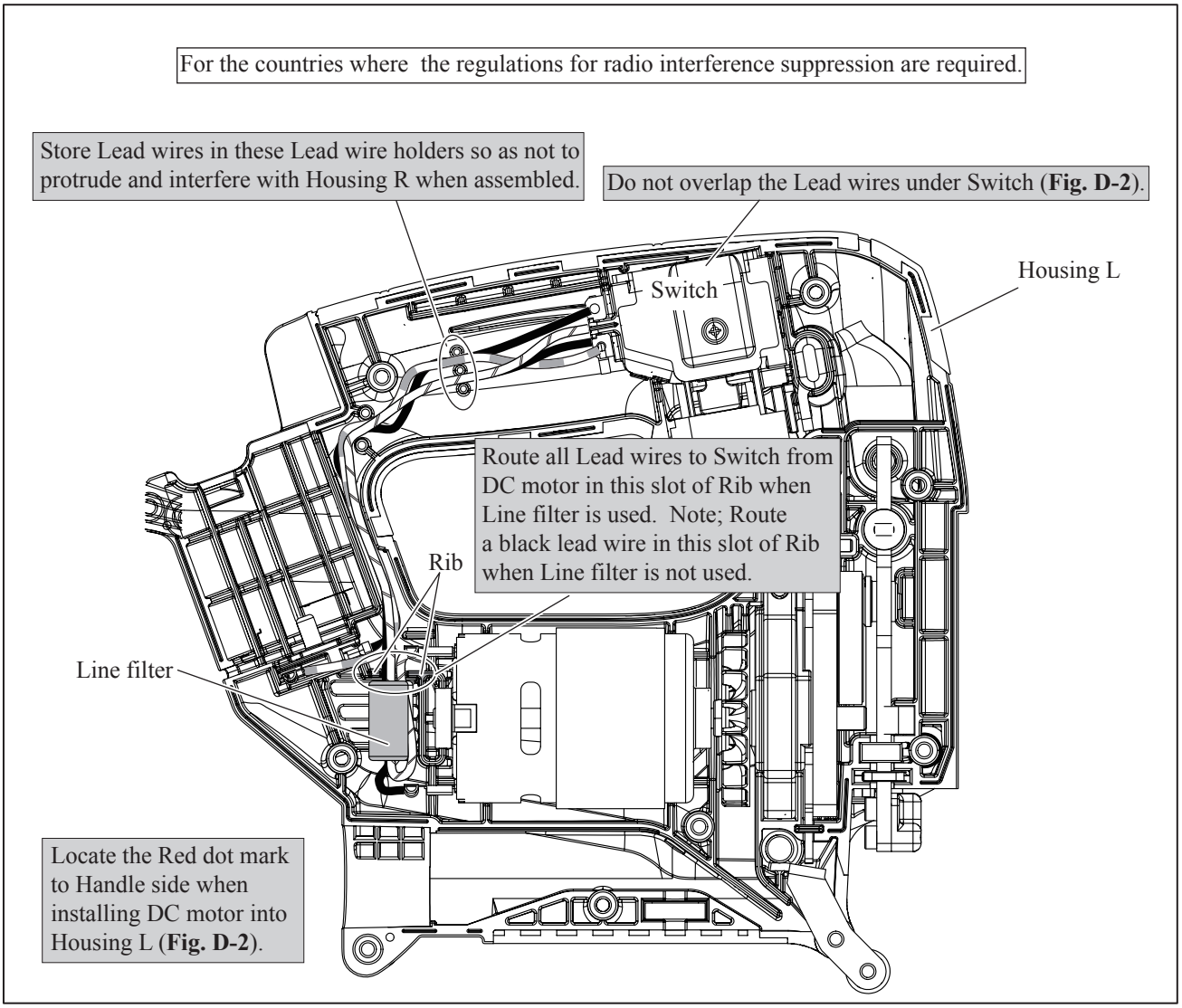
Connect Lead wires to Switch, DC motor and Terminal as described in **Fig. D-2**.

Fig. D-2



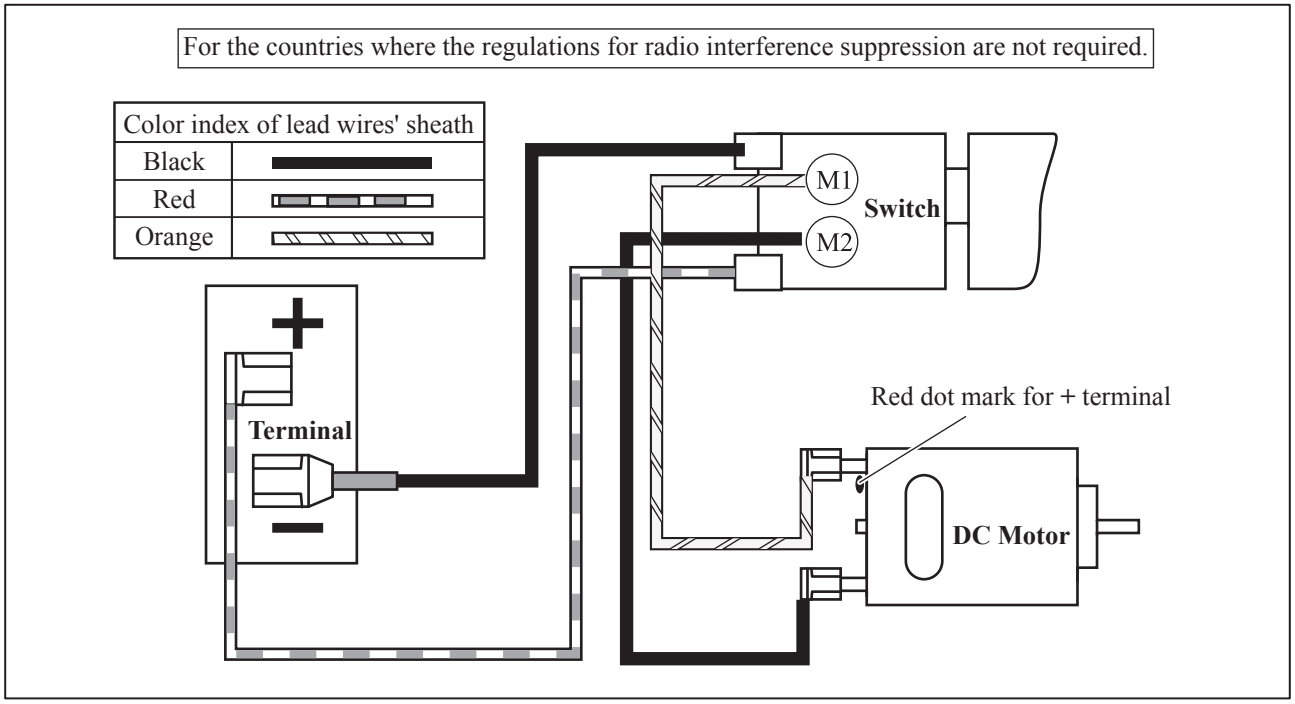
Wiring diagram

Fig. D-3



Circuit diagram

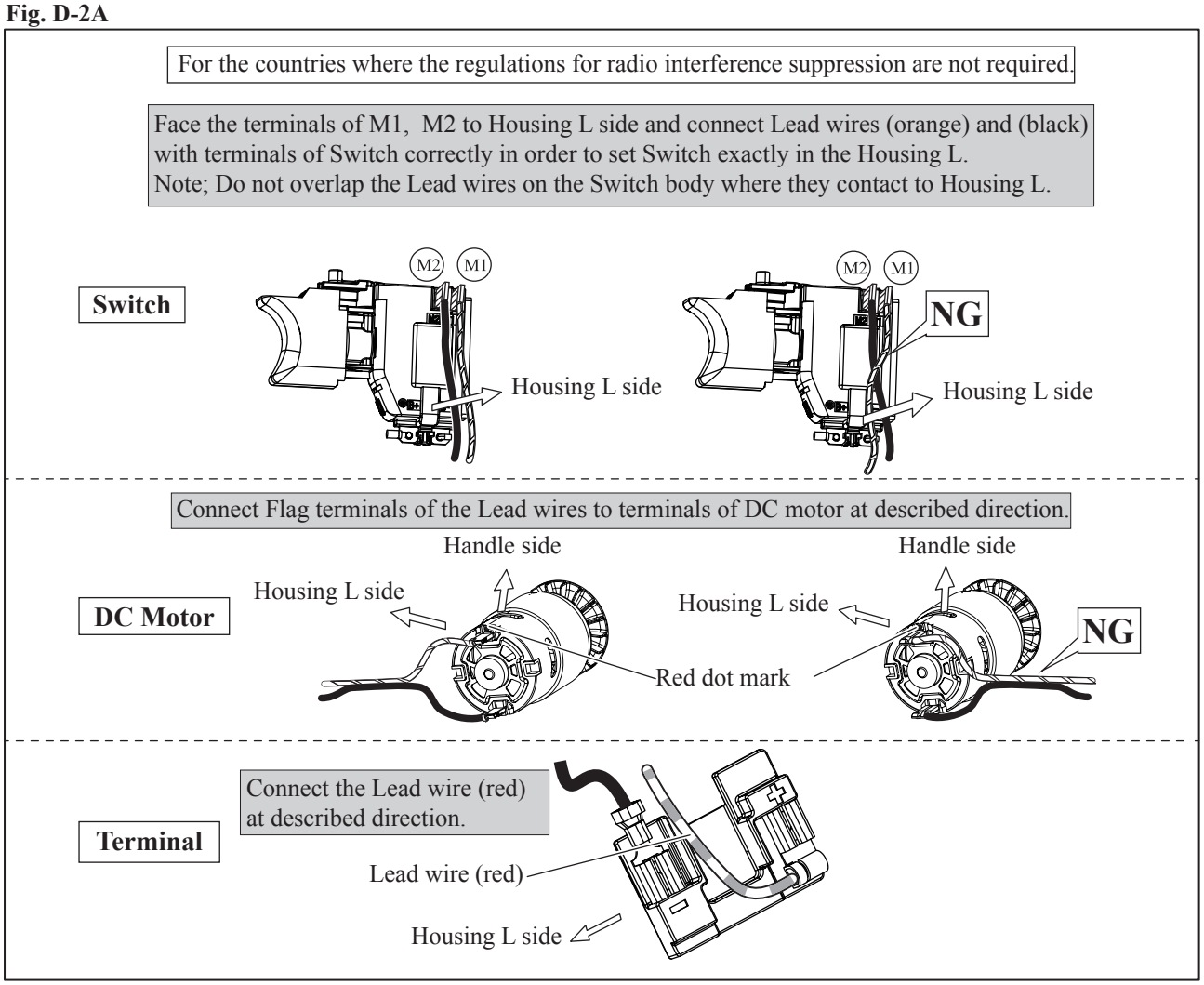
Fig. D-1A



Wiring diagram

Connect Lead wires to Switch, DC motor and Terminal as described in **Fig. D-2A**.

Fig. D-2A



► Wiring diagram

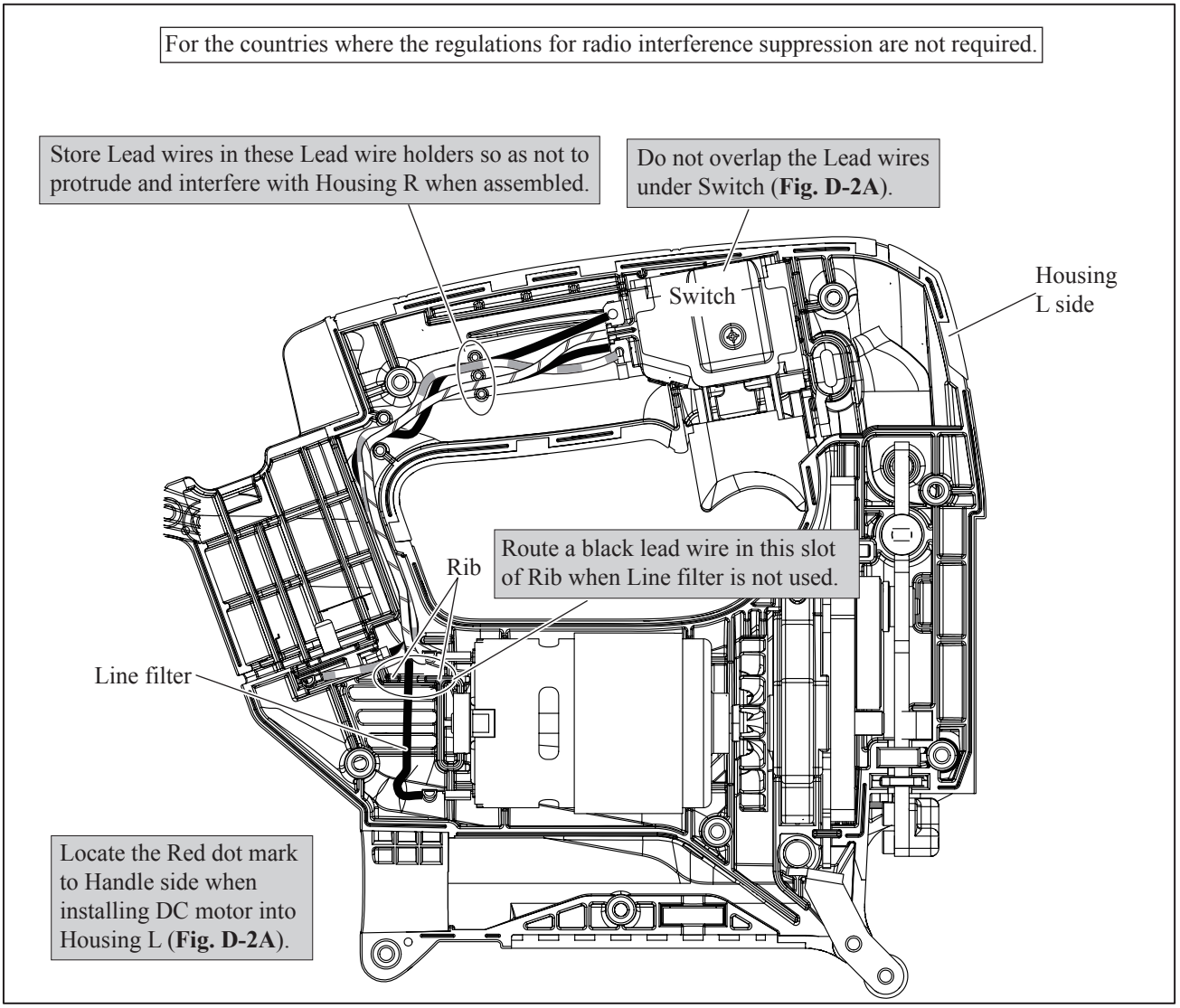



Fig. D-3A