

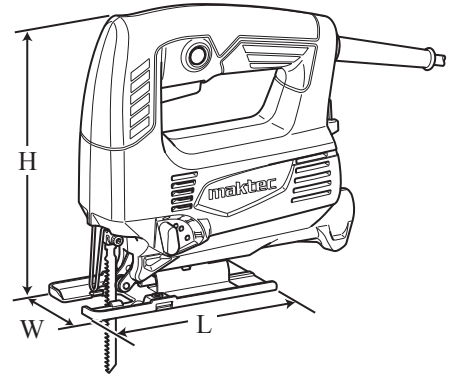
Model No. ▶ MT431

Description ▶ Jig Saw

CONCEPT AND MAIN APPLICATIONS

Model MT431 is a maktec brand model developed based on Makita jig saw 4328, featuring:

- New exterior design and ergonomic handle with rubberized soft grip
- Change lever for 3 orbital settings and straight cutting
- 450W continuous rating input
- Industrial performance and durability at less expense



Dimensions: mm (")	
Length (L)	214 (8-3/8)
Width (W)	75 (2-15/16)
Height (H)	202 (8)

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
110	4.3	50/60	450	270	420
120	3.9	50/60	---	270	420
220	2.2	50/60	450	270	420
230	2.1	50/60	450	270	420
240	2.0	50/60	450	270	420

No load speed: strokes per min.	0 - 3,100	
Length of stroke: mm (")	18 (11/16)	
Shank type	B-type	
Capacities with B-type blade attached: mm (")	Wood	65 (2-9/16)
	Steel	6 (1/4)
Cut settings	3 Orbital settings + Straight cutting	
Variable speed control by trigger	Yes	
Material of base	Steel plate	
Toolless blade change	No	
Connectable with vacuum	Yes	
Protection from electric shock	Double insulation	
Power supply cord: m (ft)	2.0 (6.6)	
Weight according to EPTA-Procedure 01/2003: kg (lbs)	1.9 (4.2)	

► Standard equipment

Hex wrench 3 1
Jig saw blade (B-10) 1

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

► Optional accessories

Guide rule set Hose 28-1.5 Jig saw blades
Kerf board Hose 28-3.0

► Repair

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

[1] NECESSARY REPAIRING TOOLS

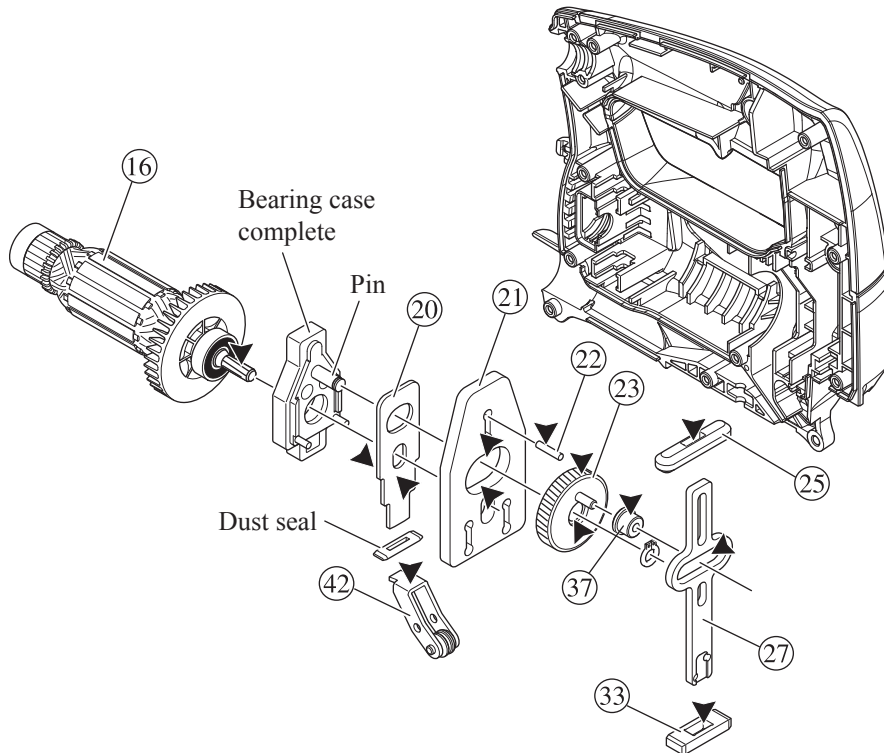
Code No.	Description	Use for
1R269	Bearing extractor	Disassembling Armature from Bearing case complete
1R291	Retaining ring S and R pliers	Disassembling / Assembling Retaining ring S-6

[2] LUBRICATIONS

Apply **Makita grease N No.1** to the portions pointed with **black triangles** to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Recommended amount of grease
①6	Armature	Drive end (Gear portion)	Approx. 7 g in total
②3	Gear complete	Teeth portion and Center hole for accepting pin on Bearing case complete	
②5	Slider guide	Hole where ②7 Slider reciprocates	
②7	Slider	Elliptic hole where ③7 Collar sleeve moves	
③3	Slider support	Hole where ②7 Slider reciprocates	
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
③7	Collar sleeve	Whole portion	a little
④2	Retainer complete	The portion that ②0 Push plate contacts	a little

Fig. 1



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Housing set, Reciprocating mechanism

DISASSEMBLING

By removing Base plate from the body with Hex wrench 3, Housing set and Reciprocating mechanism can be disassembled as illustrated in **Figs. 2, 3, 4.**

Fig. 2

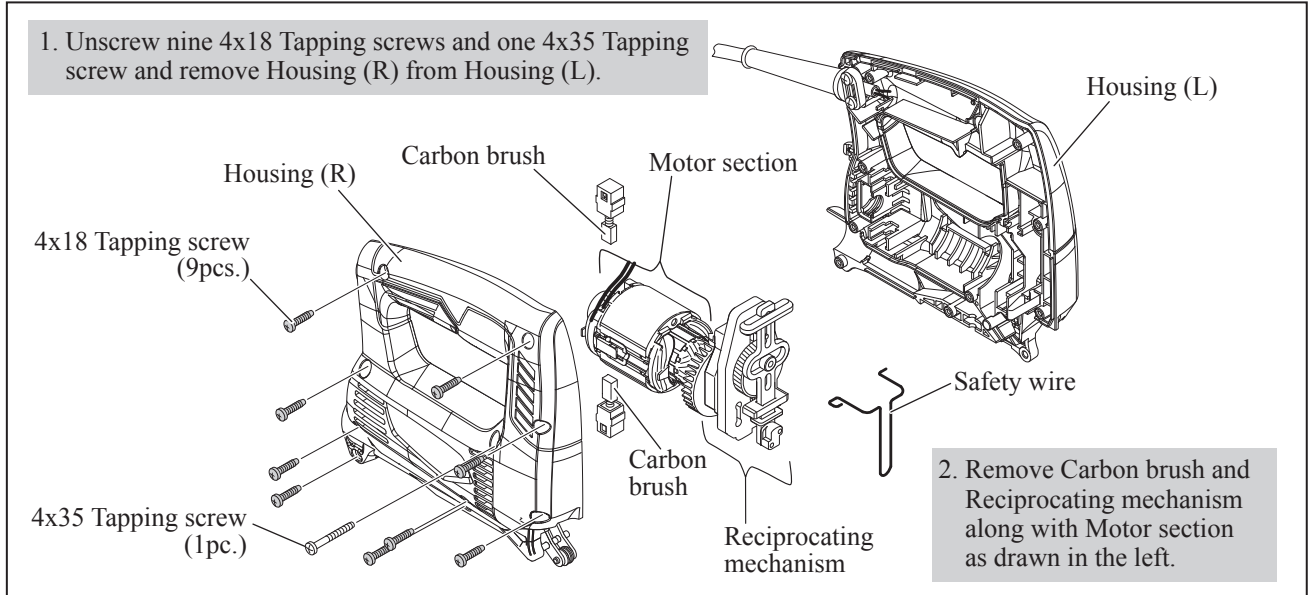


Fig. 3

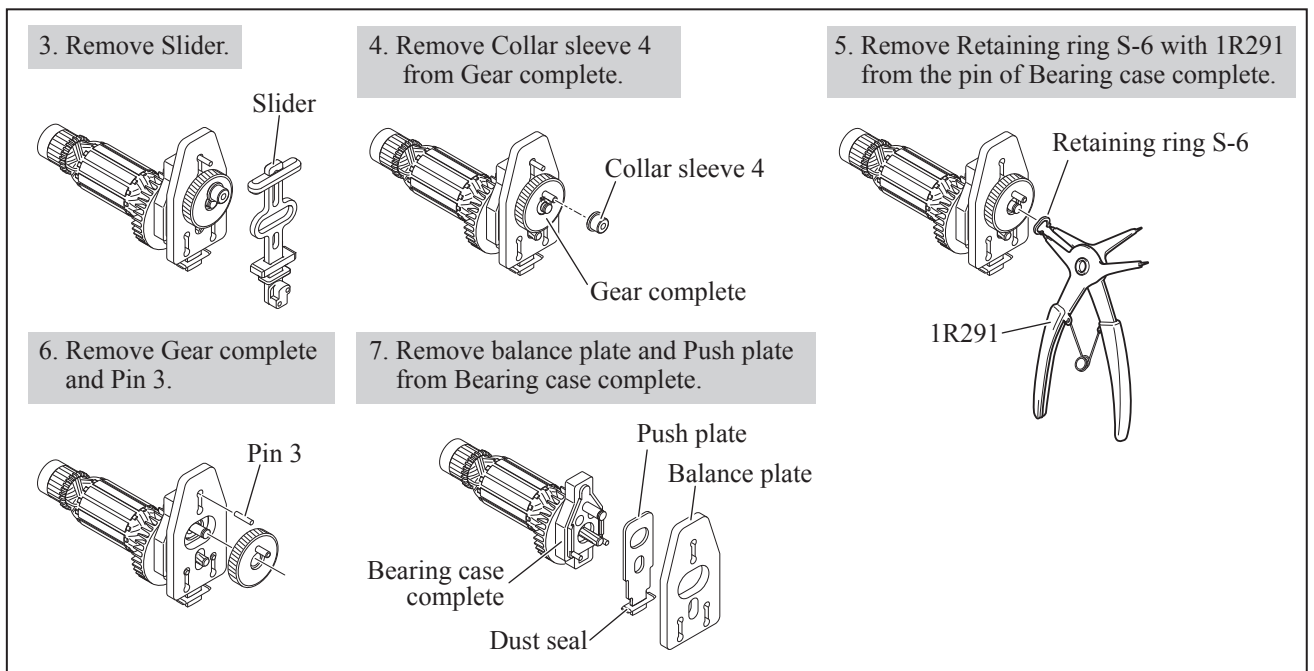
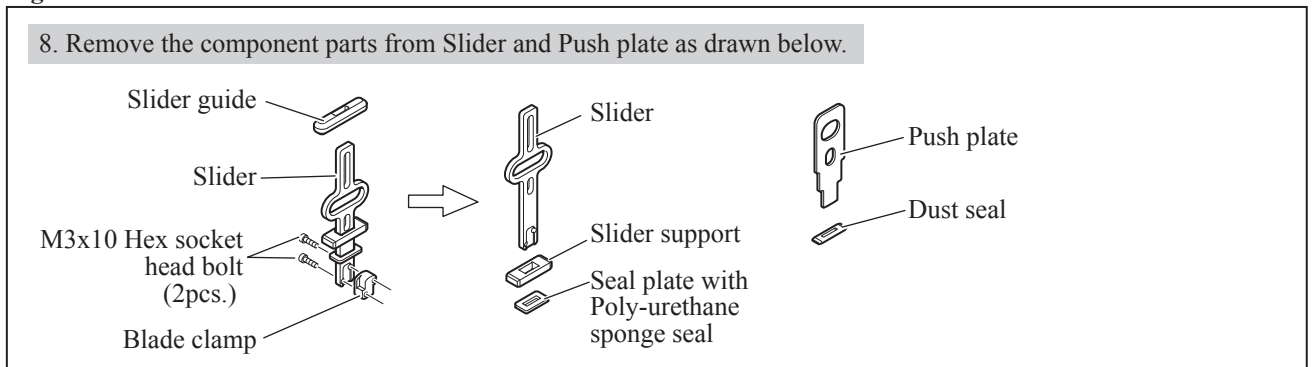


Fig. 4



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Housing set, Reciprocating mechanism

ASSEMBLING

- 1) Assemble the component parts to Slider and Push plate. (Fig. 4)
- 2) Assemble the reciprocating mechanism by doing the reverse of the steps described in Fig. 3.

Note: Be sure to follow the instructions described in Figs. 5, 6, 7.

Fig. 5

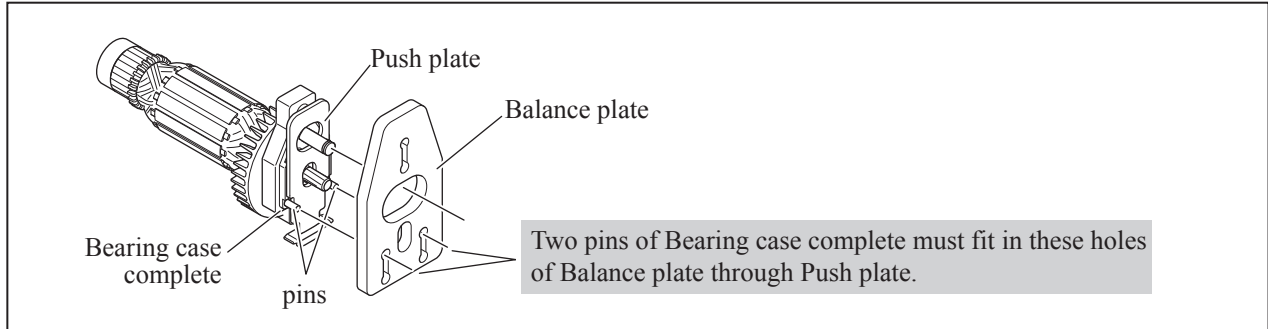


Fig. 6

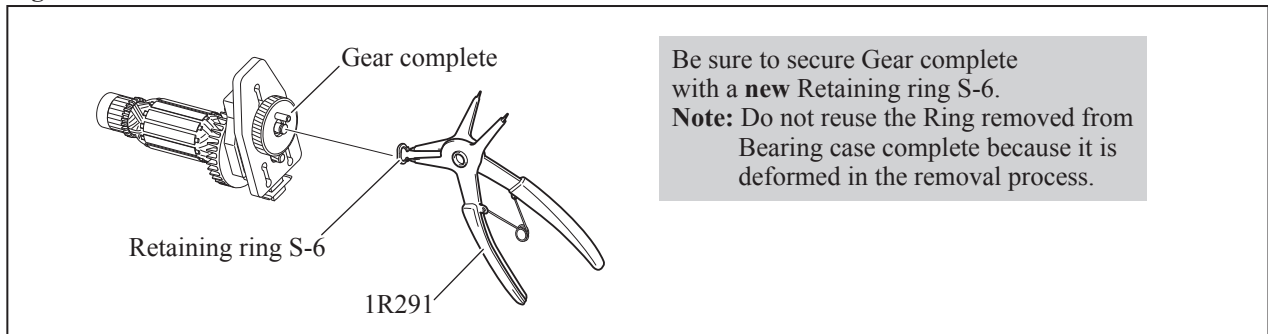
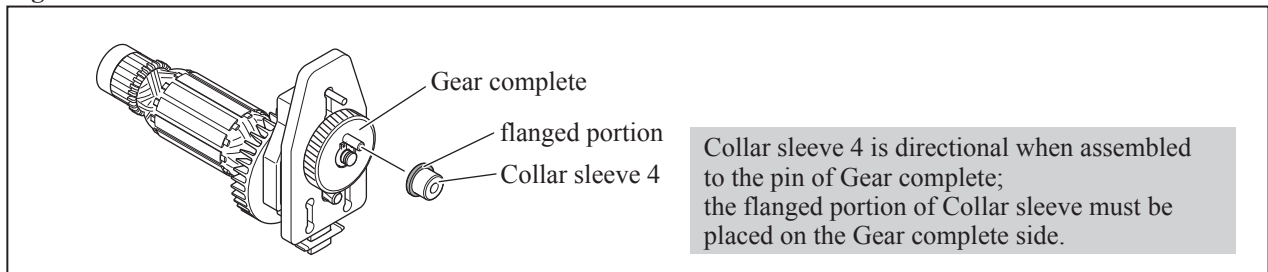


Fig. 7

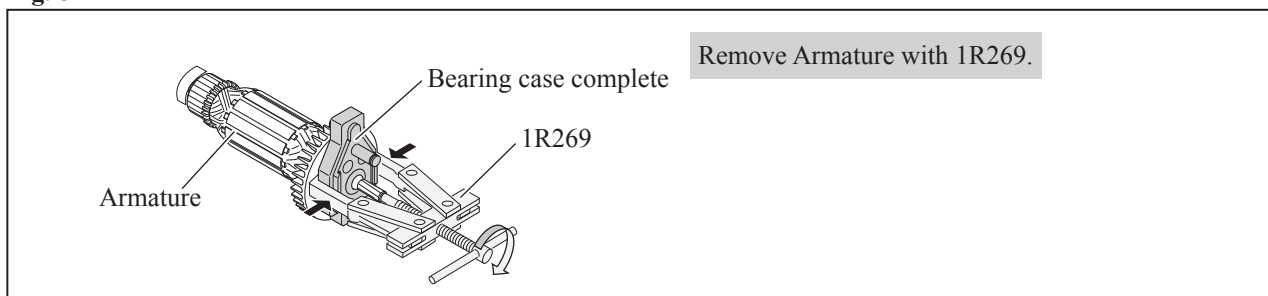


[3]-2. Armature

DISASSEMBLING

- 1) Disassemble as described in Fig. 2, then separate Armature together with Bearing case complete from Reciprocating mechanism as described in Fig. 3.
- 2) Remove Armature from Bearing case complete as illustrated in Fig. 8.

Fig. 8



ASSEMBLING

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

► Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-3. Lever 19 (Adjustment of Orbital cutting)

DISASSEMBLING

1) Remove Lever 19 as described in **Figs. 9, 10**.

Fig. 9

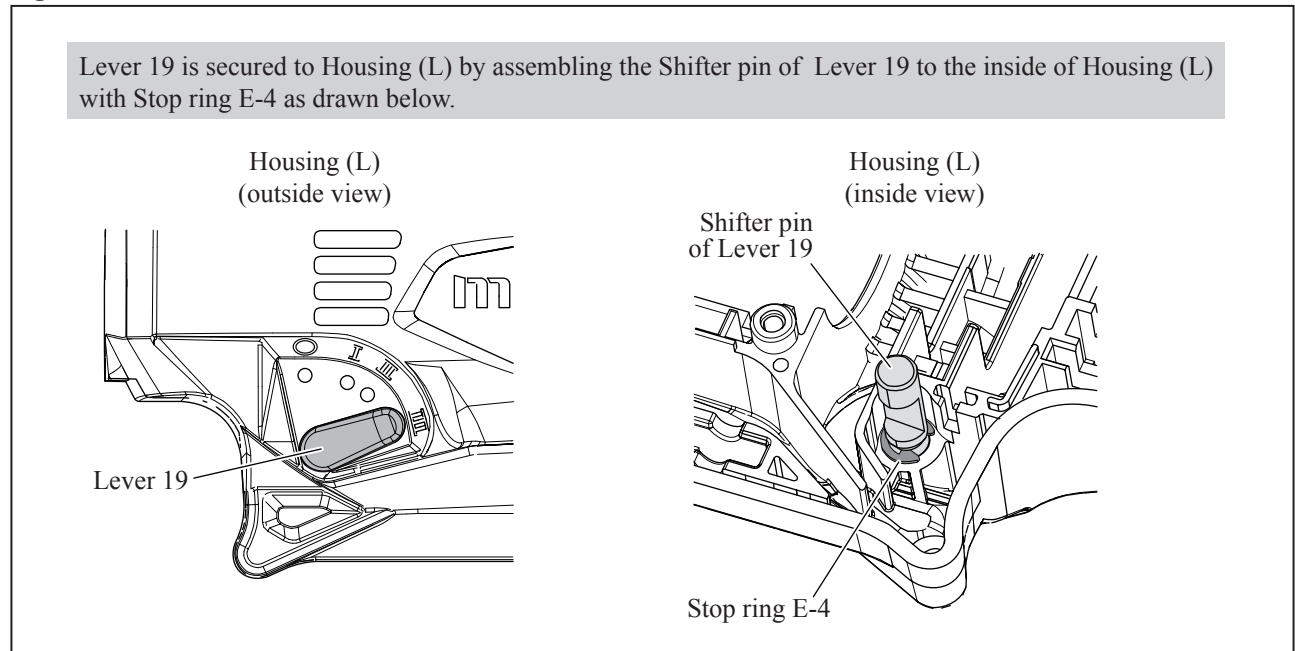
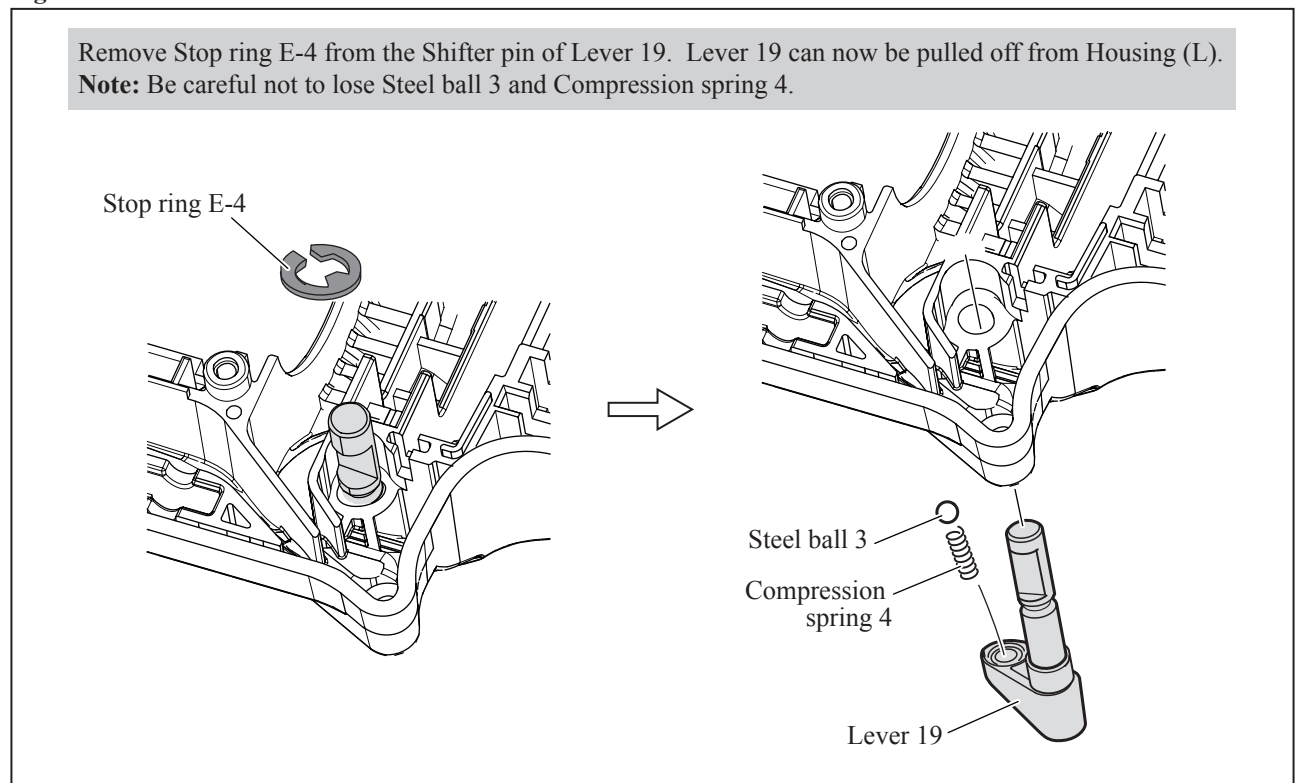


Fig. 10



► **Repair**

[3] DISASSEMBLY/ASSEMBLY

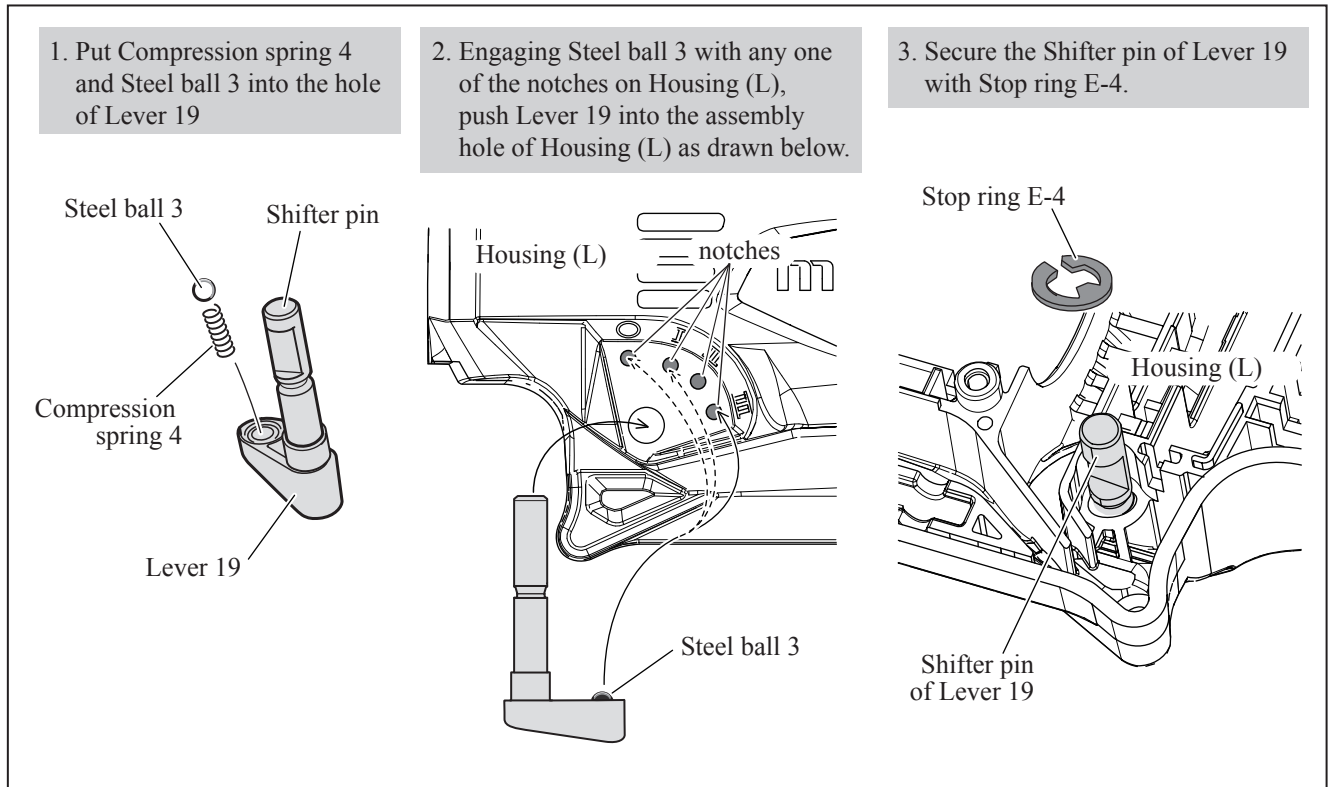
[3]-3. Lever 19 (Adjustment of Orbital Cutting)

ASSEMBLING

Steel ball 3 and Compression spring 4 functions as a positive stopper by engaging with one of the four notches on Housing (L) when you operate Lever 19 to adjust orbital action.

Assemble Lever 19 as described in **Fig. 11**.

Fig. 11



► **Repair**

[3] DISASSEMBLY/ASSEMBLY

[3]-4. Housings (R), (L)

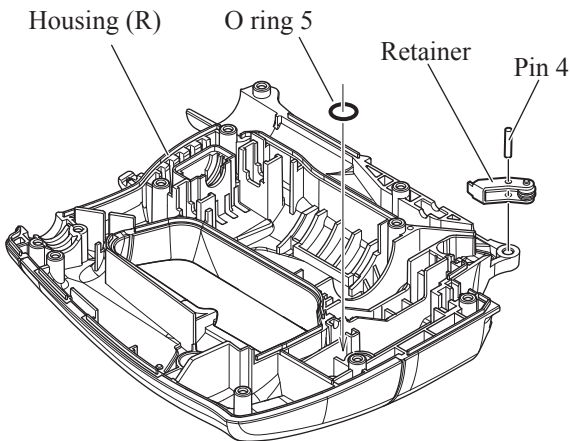
ASSEMBLING

Before assembling Housing (R) to Housing (L), mount the parts in **Fig. 12** on Housings (R) and (L).

Fig. 12

Housing (R):

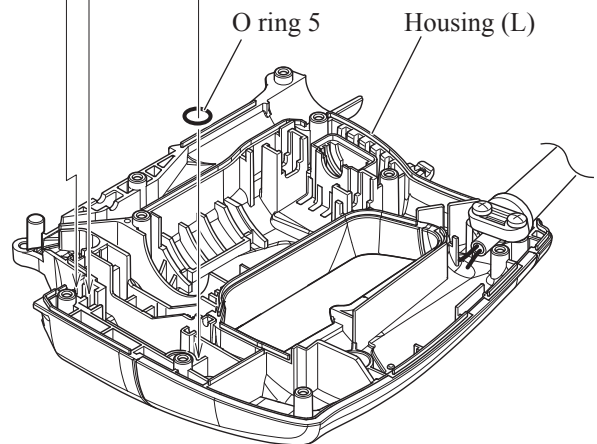
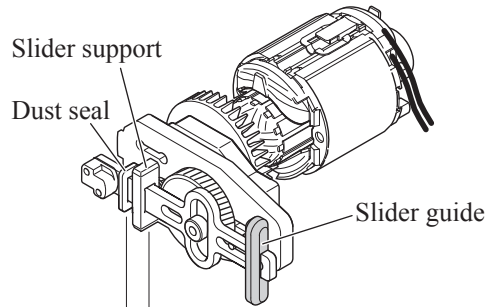
Insert O ring 5 into the bottom of its booth.
Set Retainer and Pin 4 in place as drawn below.



Housing (L):

1. Insert O ring 5 into the bottom of its booth.
Put the assembly of Motor section and Reciprocating mechanism in place as drawn below.

Assembly of Motor section and Reciprocating mechanism

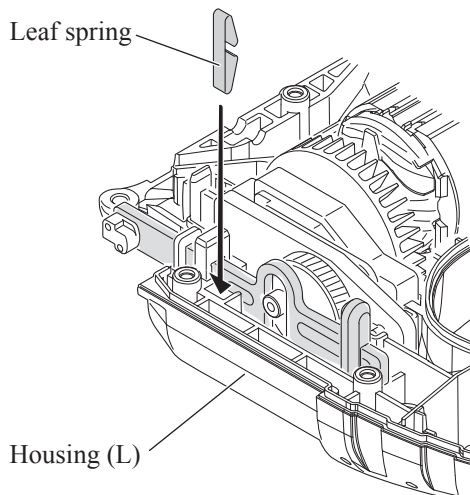


Housing (L):

2. Insert Leaf spring in place as drawn below.

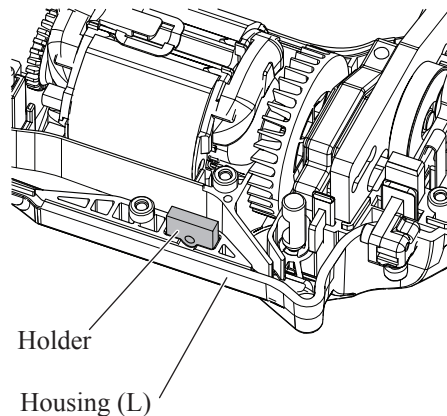
Note:

Do not install Leaf spring before mounting the assembly of Motor section and Reciprocating mechanism, or Slider will be inserted in Leaf spring.



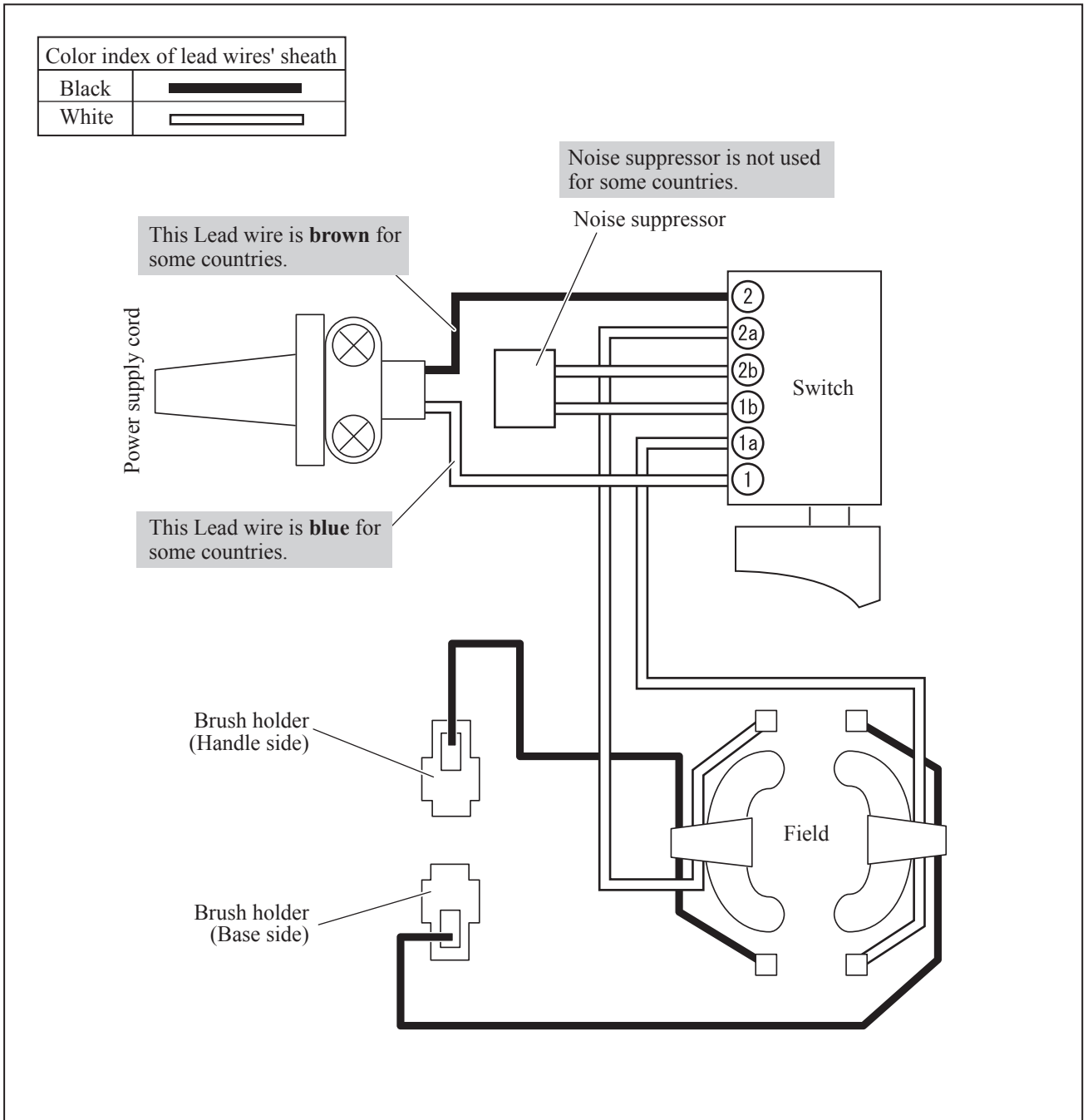
Housing (L):

3. Mount Holder in place as drawn below.



► **Circuit diagram**

Fig. D-1



▶ Wiring diagram

Fig. D-2

