

TECHNICAL INFORMATION

Model No. ▶ MT430

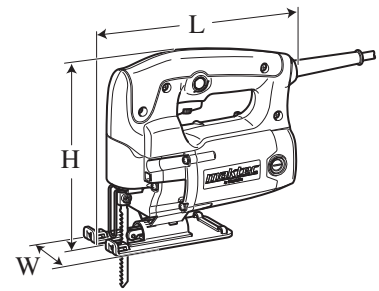
Description ▶ Jig Saw

CONCEPT AND MAIN APPLICATIONS

Model MT430 has been developed as a cost-competitive maktec jig saw.

Its main features are:

- Excellent durability achieved by employing similar cylindrical motor housing and aluminum gear housing as used for Makita's long-selling jig saw Model 4300BV
- Blade holder accepts both B-type and Makita-type jig saw blades.
- Industrial performance and durability at less expense



Dimensions: mm (")	
Length (L)	219 (8-5/8)
Width (W)	85 (3-3/8)
Height (H)	191 (7-1/2)

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
110	4.3	50/60	450	150	550
120	4.0	50/60	---	150	550
220	2.2	50/60	450	170	600
230	2.1	50/60	450	170	600
240	2.0	50/60	450	170	600

Specifications	Model	MT430
No load speed: strokes per min.		0 - 3,100
Length of stroke: mm (")		26 (1)
Shank type		B-type and Makita-type
Capacities: mm (")	Wood	55 (2-3/16)
	Steel	6 (1/4)
Cut settings		Straight cutting only
Variable speed control		by Trigger and Dial
Material of base		Steel plate
Toolless blade change		No
Connectable to vacuum		Yes
Double insulation		Yes
Power supply cord: m (ft)		2.0 (6.6)
Net weight: kg (lbs)		2.6 (5.7)
Weight according to EPTA-Procedure 01/2003: kg		2.6

► Standard equipment

- Jig saw blade No. B-13 ... 1 pc
- Jig saw blade No. 51 1 pc
- Dust nozzle 1 pc (European countries only)
- Hex wrench 3 1 pc

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

► **Repair**

CAUTION: Unplug the tool and remove the jig saw blade for the safety before maintenance !

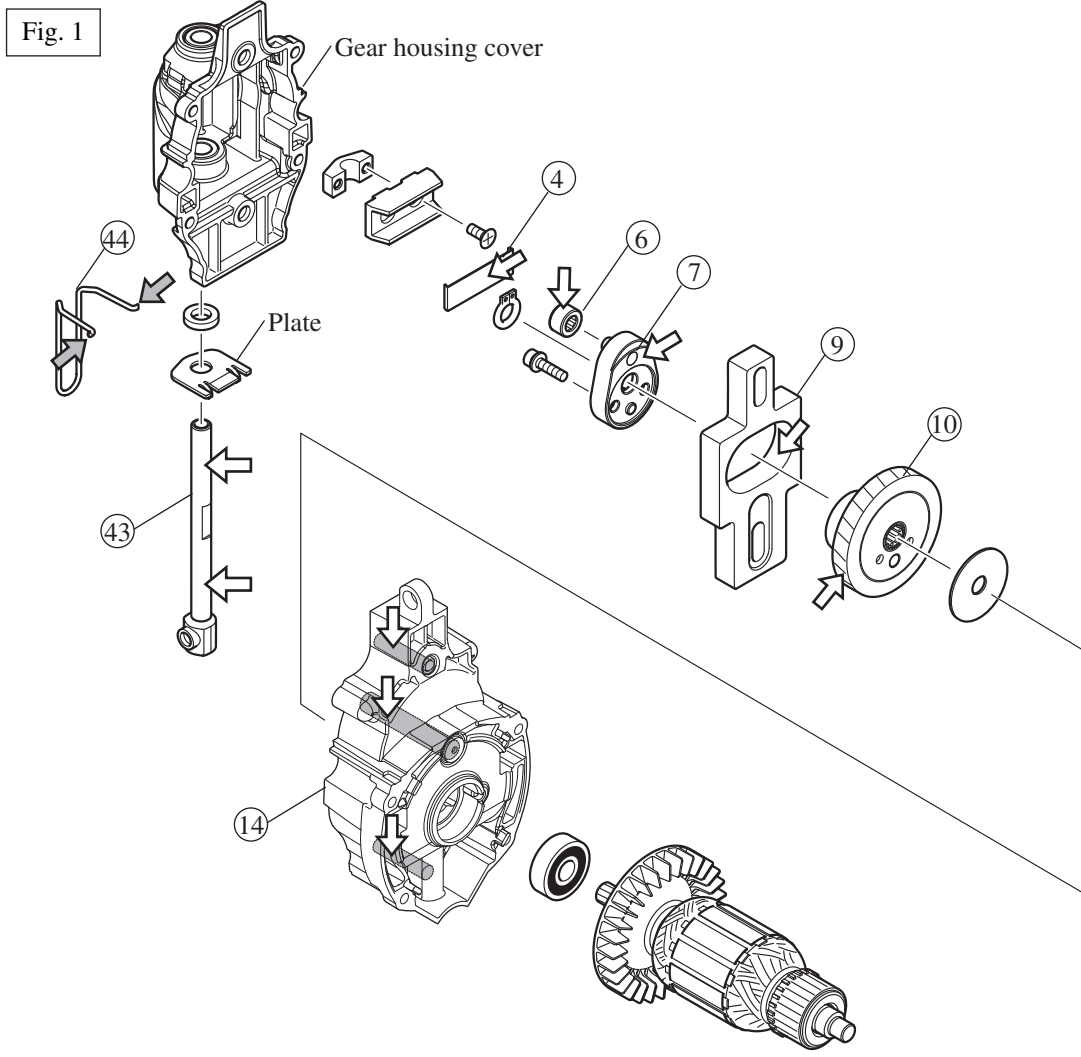
[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R235	Round bar for arbor 6-100	Securing Crank plate complete
1R291	Retaining ring S and R pliers	Removing/ Installing Retaining ring S-8
1R269	Bearing extractor	Removing Ball bearings

[2] LUBRICATIONS

Apply Lubricant as illustrated below to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Lubricant	Amount
④	Thrust plate	The portion where ⑥ Ball bearing 607 contacts	Makita grease N.No.1 ↓	2g each
⑥	Needle bearing 607	The portion where the pin of ⑦ Crank plate complete contacts		
⑦	Crank plate complete	The pin portion		
⑨	Balance plate	The portion where the cam portion of ⑩ Helical gear 49 complete contacts		
⑩	Helical gear 49 complete	The gear teeth		
⑭	Gear housing complete	The pin portion (3pcs.)	Lubricating oil VG46 ↓	a little
④③	Slider	The cylindrical portion		
④④	Safety wire	The hooks which Plate and Gear housing cover contact		



► **Repair**

[3] DISASSEMBLY/ ASSEMBLY

[3]-1. Gear housing cover section

DISASSEMBLING

- (1) Remove M4x25 Pan head screw (4pcs.) and Handle L. **(Fig. 2)**
- (2) Remove Handle R from Motor housing set and Gear housing.
- (3) Remove M4x18 Pan head screw (4pcs.) and Gear housing cover. **(Fig. 3)**
- (4) Remove Thrust plate from Slider block. **(Fig. 4)** And remove M4x10 Countersunk head screw (2pcs.) from Slider support. Slider block can be removed. **(Fig. 5)**
- (5) Pull out Slider with Blade clamp by hand to the designated direction in black arrow. Slide support can be removed.
- (6) Push out Safety wire and Plate from Gear housing cover with slotted screwdriver. **(Fig. 7)**
- (7) Turn Plate and separate the hook of Plate from Safety wire. **(Fig. 8)**
Plate, Safety wire and Polyurethane sponge seal can be removed.

Fig. 2

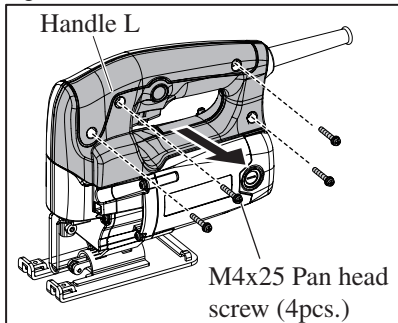


Fig. 3

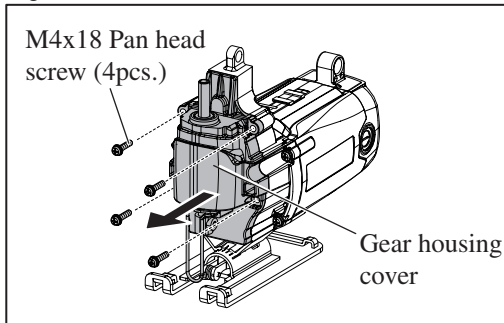


Fig. 4

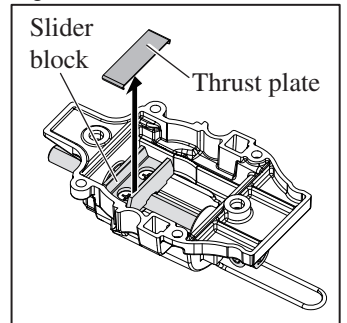


Fig. 5

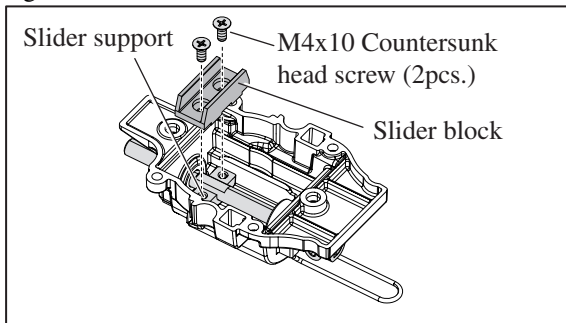


Fig. 6

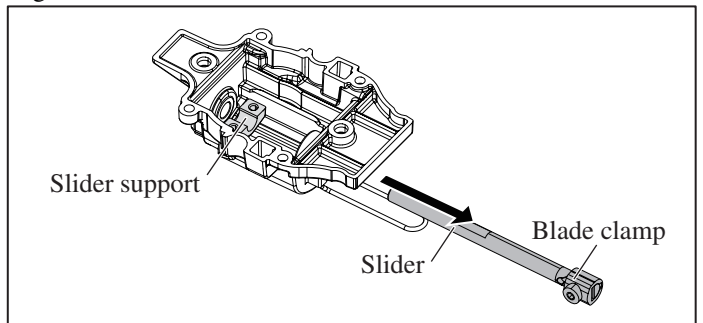


Fig. 7

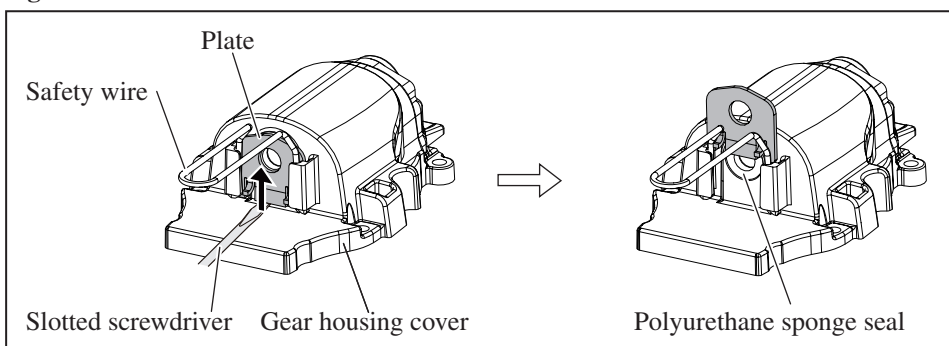
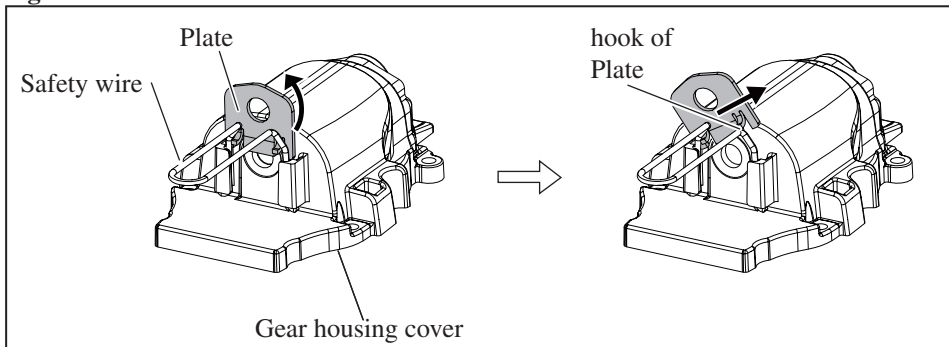


Fig. 8



► Repair

[3] DISASSEMBLY/ ASSEMBLY

[3]-1. Gear housing cover section (cont.)

ASSEMBLING

Take the disassembling step in reverse.

Note: • Plate, Safety wire and Polyurethane sponge seal have to be assembled to Gear housing cover before setting Slider in place.

- Slider block has to be fixed on the flat portion of Slider with M4x10 Countersunk head screw (2pcs.) as illustrated in **Fig. 9**. **Apply ThreeBond 1321B/ 1342 or Loctite 242 to the thread when reusing M4x10 Countersunk head screw (2pcs.), and then tighten them evenly to each fastening torque 1.8 up to 3.5N.m.**
- The bent ends of Thrust plate have to face Slider block as illustrated in **Fig. 10**. They have to be hooked with Slider block.
- Set Packing in place between Gear housing cover and Gear housing.
- When mounting Gear housing cover on Gear housing, be sure to move Slider so that the groove of Slide block comes to the lowest position or the highest position then set Needle bearing 607 with Crank plate attached. (**Fig. 11**)

Fig. 9

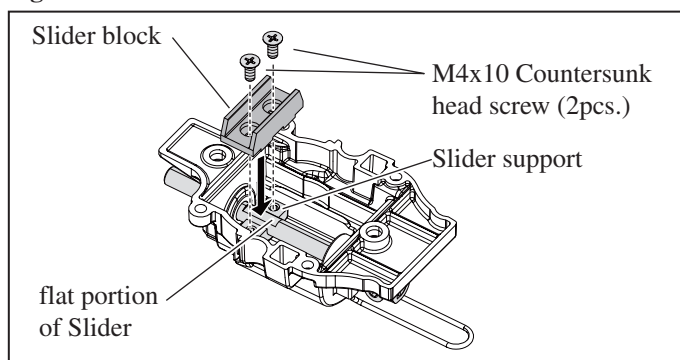


Fig. 10

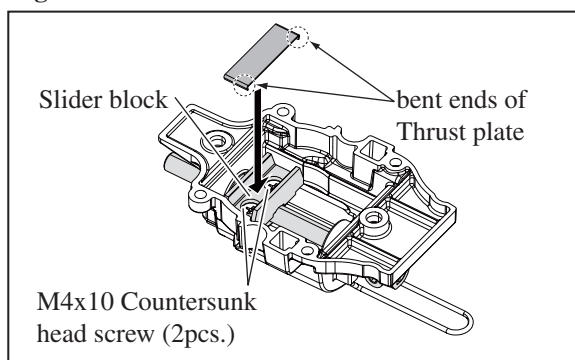
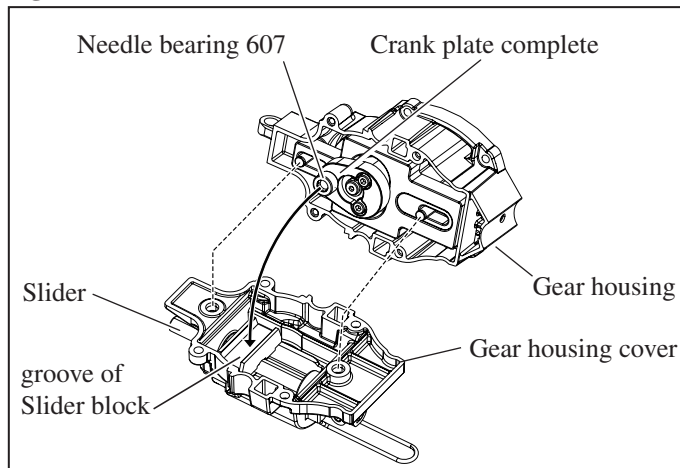


Fig. 11



► **Repair**

[3] DISASSEMBLY/ ASSEMBLY

[3]-2. Gear housing section

DISASSEMBLING

- (1) Remove Handle L and R.
- (2) Remove M4x16 Hex socket head bolt and Base section. (**Fig. 12**)
- (3) Separate the assembled part of Gear housing cover, Gear housing and Armature from Motor housing by removing M4x25 Pan head screw (4pcs.), and then remove Gear housing cover section from Gear housing section and Armature by M4x18 Pan head screw (4pcs.) (**Fig. 13**)

Fig. 12

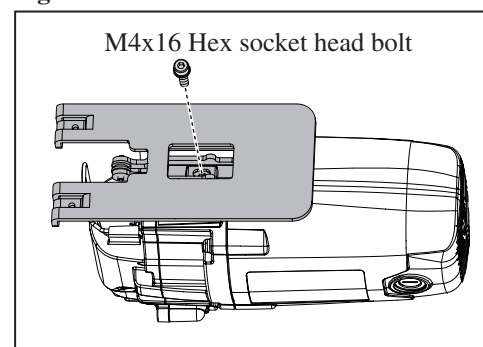
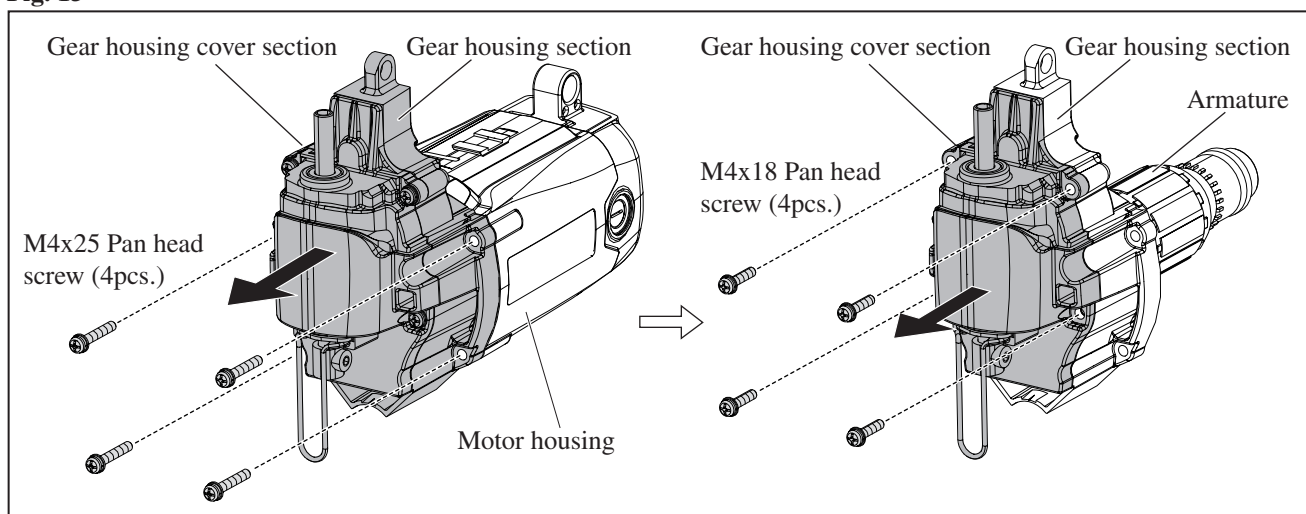


Fig. 13



- (4) Use 1R235 as a stopper for Crank plate complete and remove M4x16 Hex socket head bolt (2pcs.) as illustrated in **Fig. 14**. Then remove Retaining ring S-8 with 1R291.

The following parts can be removed from Gear housing. (**Fig. 15**)

Needle bearing 607, Crank plate complete, Balance plate, Helical gear 49 complete, Flat washer 8

Fig. 14

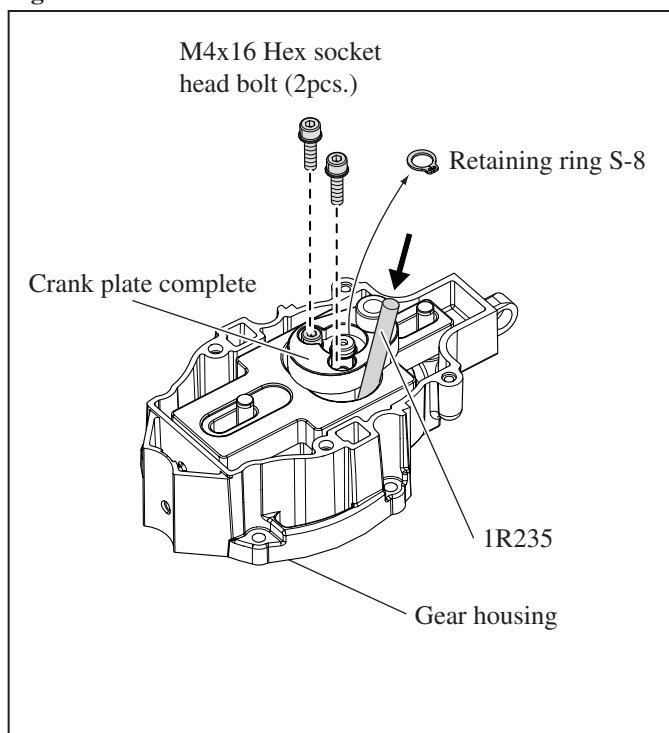
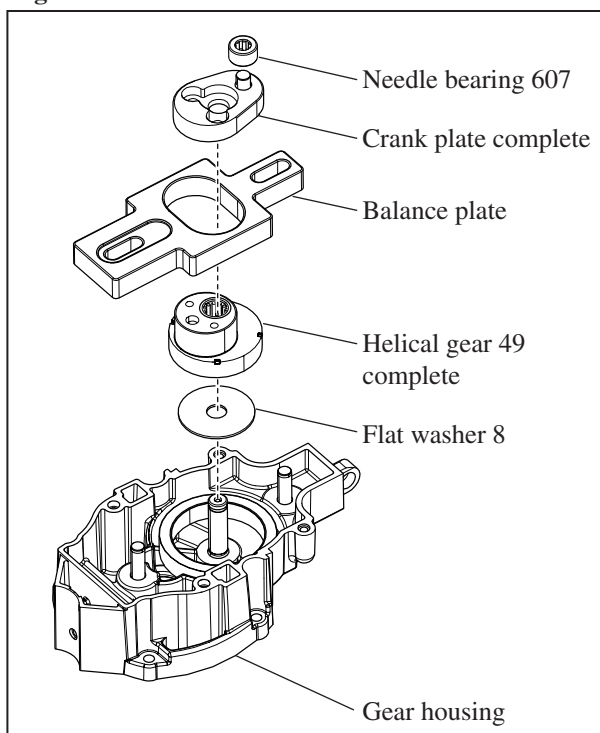


Fig. 15



► **Repair**

[3] DISASSEMBLY/ ASSEMBLY

[3]-2. Gear housing section (cont.)

ASSEMBLING

Take the disassembling step in reverse.

Note: • Tighten M4x16 Hex socket head bolt (2pcs.) to the fastening torque 1.8 up to 3.5N.m.

Set Packing in place between Gear housing cover and Gear housing.

• Mount Gear housing cover on Gear housing in accordance with the manner mentioned in [3]-1.

[3] DISASSEMBLY/ ASSEMBLY

[3]-3. Replacing Armature

IMPORTANT: Amrrature can be replaced without disassembling Gear housing (cover) section.

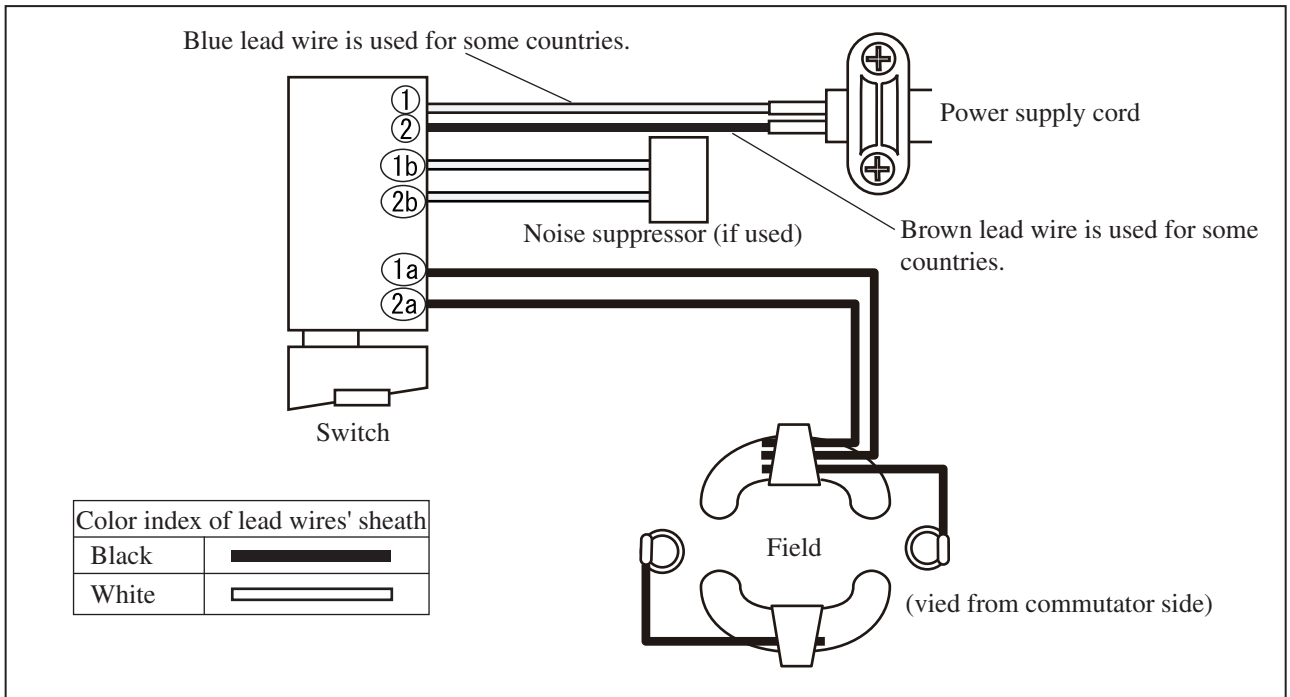
(1) Remove Carbon brushes.

(2) Remove the assembled part of Gear housing cover section, Gear housing section and Armature from Motor housing.

(3) Remove Armature from Gear housing. Remove Ball bearings from Armature shaft with 1R269.

► **Circuit diagram**

Fig. D-1



► **Wiring diagram**

Fig. D-2

