

T ECHNICAL INFORMATION

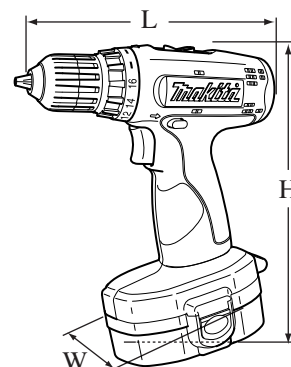


PRODUCT

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Model No. ▶ 6390D

Description ▶ Cordless Driver Drill 13mm



CONCEPT AND MAIN APPLICATIONS

Model 6390D has been launched with the following features.

*High torque delivered by powerful Type 775 motor

*Compact design with an overall length of only 220mm (8-5/8")

This new product is available in the following variations.

Model No.	Battery		Battery cover (quantity)	Charger	Flash light
	type	quantity			
6390DZ	without	---	---	without	without
6390DWAE	1822 (Ni-Cd 2.0Ah)	2	2	DC1804	
6390DWAE3	1822 (Ni-Cd 2.0Ah)	3	3		
6390DWALE	1822 (Ni-Cd 2.0Ah)	2	2		ML180
6390DWPE	PA18 (Ni-Cd 1.3Ah)	2	2		without
6390DWPE3	PA18 (Ni-Cd 1.3Ah)	3	3		
6390DWPLE	PA18 (Ni-Cd 1.3Ah)	2	2		ML180

Dimensions: mm (")	
Length (L)	220 (8-5/8)
Width (W)	95 (3-3/4)
Height (H)	252 (9-7/8)

Note: All of the above models come with the items listed below in the "Standard equipment" in addition to the items listed above.

► Specification

Battery	Voltage: V	18	
	Cell	Ni-Cd	
	Capacity	1.3 Ah (Battery PA18)	2.0 Ah (Battery 1822)
No load speed: (min -1= rpm)		Low: 0 - 350, High: 0 - 1,200	
Chuck capacity: mm (")		1.5 (1/16) - 13 (1/2)	
Drilling capacity: mm (")	Steel	13 (1/2)	
	Wood	36 (1-7/16)	
Max fastening torque: N.m	Soft joint	27	
	Hard joint	42	
Electric brake		Yes	
Variable speed control		Yes	
Reverse switch		Yes	
Net weight*: kg (lbs)		2.2 (4.9)	

*includes battery 1822.

► Standard equipment

Philips bit 2-65 1

Plastic carrying case 1

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

► Optional accessories

Battery 1822	Charger DC1804	Assorted drill bits for wood
Battery 1834	Charger DC1822	Assorted drill bits for steel
Battery 1835		Assorted driver bits
Battery 1835F		
Battery PA18		

► Repair

[1] Removal/Installation of Drill Chuck

When replacing Gear assembly, remove drill chuck beforehand as described below.
(It is not necessary to remove Drill chuck when disassembling Housing only.)

REMOVAL

- 1) After fully opening Chuck jaws, remove the chuck screw (M6x22 (-) Flat head screw) by turning it clockwise.
If it is difficult to remove, use a Makita Impact wrench.
- 2) Slide Speed change lever to the position of "Low", and turn Change ring to "Drill mode".
And then secure one end of a hex wrench with Chuck jaws. Hold the machine firmly, and then remove Drill chuck by hitting the other end of the hex wrench using plastic hammer to turn Drill chuck counterclockwise. (**Fig. 1**)

INSTALLATION

- 1) Secure one end of a hex wrench with Chuck jaws, and the other with vise.
Shift Speed change lever to "Low", and set the machine in the mode of drilling in forward rotation. Hold the grip of the machine firmly so that your hand cannot be pulled away by reaction torque. And then fasten Spindle to Drill chuck by pulling the trigger of Switch until Spindle is locked. (**Fig. 2**)
Note: Release the trigger of Switch just after Spindle is locked. Do not keep on pulling the trigger for longer than one second.
- 2) Fasten Drill chuck to Spindle with the chuck screw (M6x22 (-) Flat head screw) by turning it counterclockwise.

Fig. 1

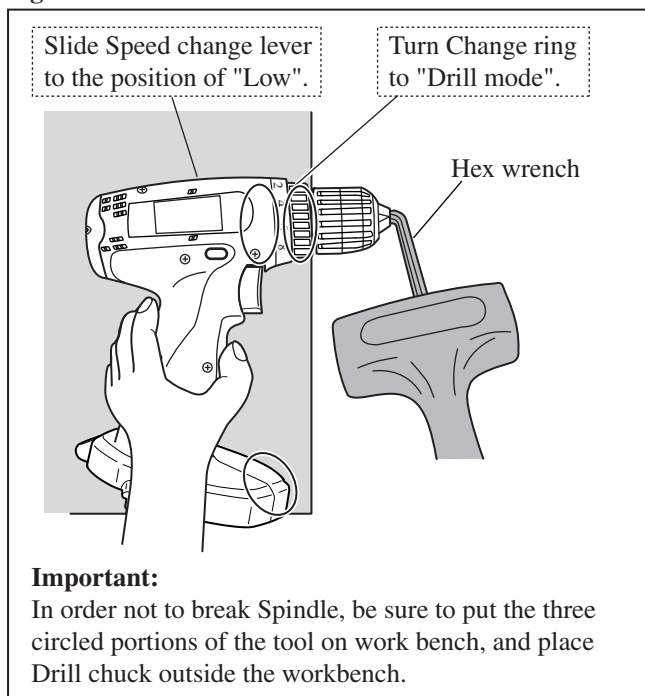
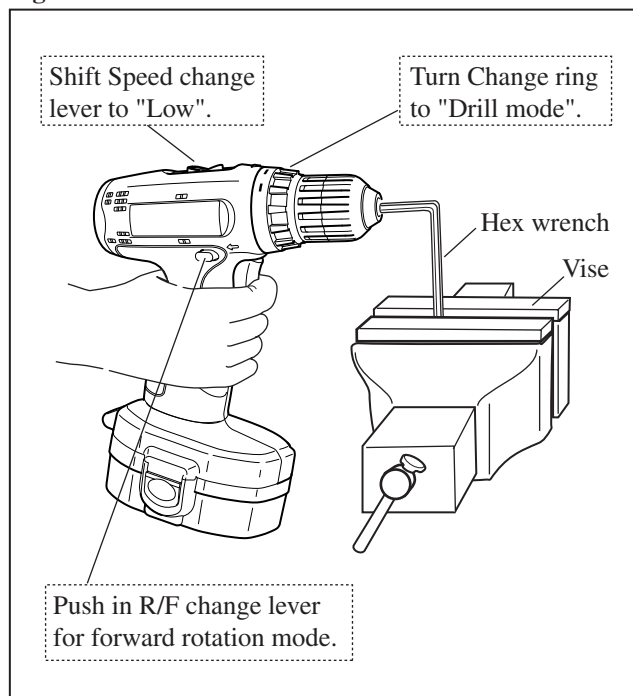


Fig. 2



[2] Removal/Installation of Motor from/on Gear Assembly

REMOVAL

- 1) Pull Motor out of Gear assembly while turning it in the counterclockwise direction when viewed from the terminal end of Motor. (**Fig. 3**)
- 2) Remove Motor bracket from Motor by removing two Pan head screws. Now Motor can be replaced (**Fig. 4**)

Fig. 3

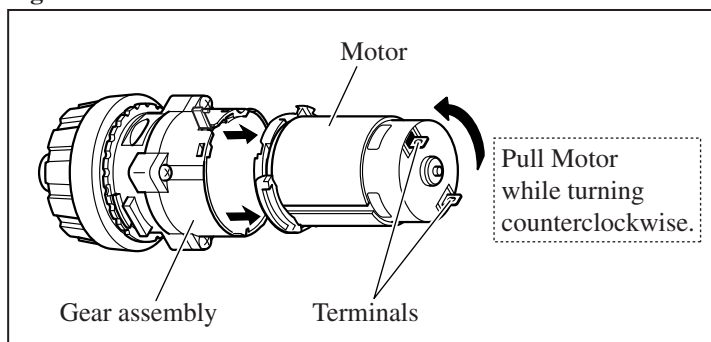
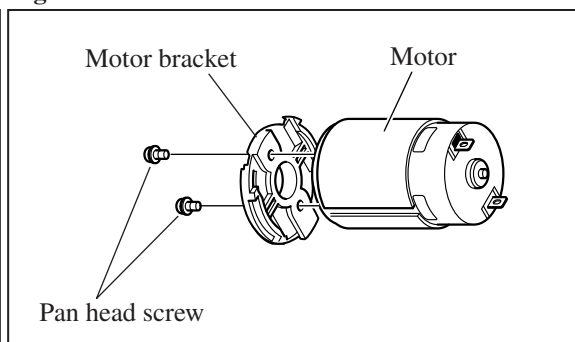


Fig. 4



► Repair

[2] Removal/Installation of Motor from/on Gear Assembly

INSTALLATION

- 1) Place Motor bracket as illustrated in **Fig. 5**, and fasten it to Motor with two Pan head screws.
- 2) Aligning the protrusions on Motor bracket with the grooves in Gear assembly, assemble Motor to Gear assembly. (**Fig. 6**)
- 3) Assemble Motor to Gear assembly while turning it in the clockwise direction when viewed from the terminal end of Motor. (**Fig. 7**)

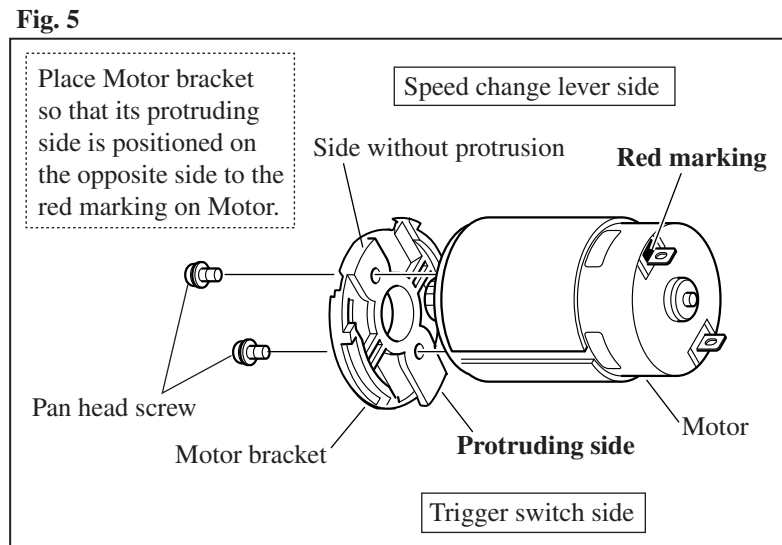


Fig. 6

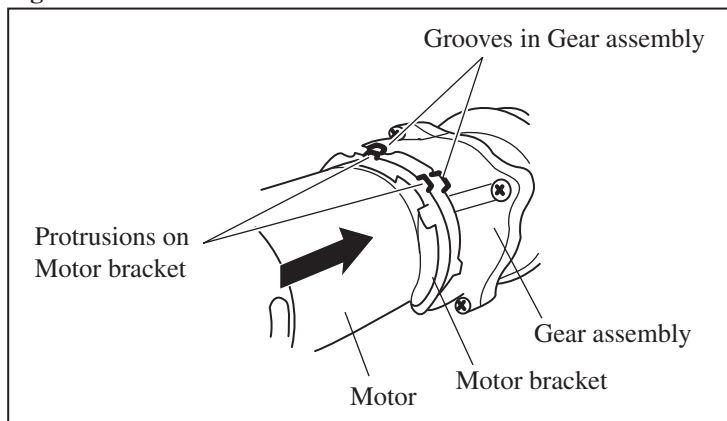
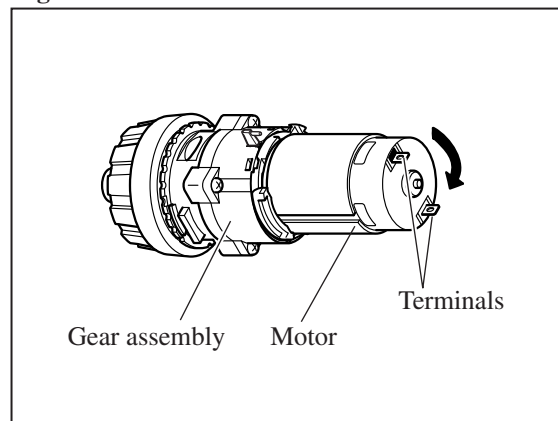


Fig. 7



[3] Installing Speed change Lever

- 1) Make sure that two Compression springs are set in place on Speed change lever as illustrated in **Fig. 8**.
- 2) Install Speed change lever onto the protrusion on Gear assembly as illustrated in **Fig. 9**.
After installation, slide Speed change lever to either side. (**Fig. 10**)

Fig. 8

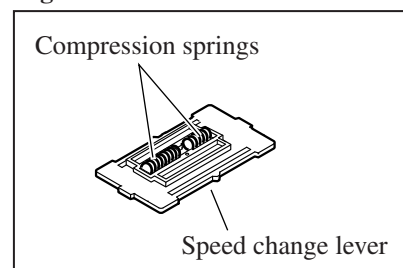


Fig. 9

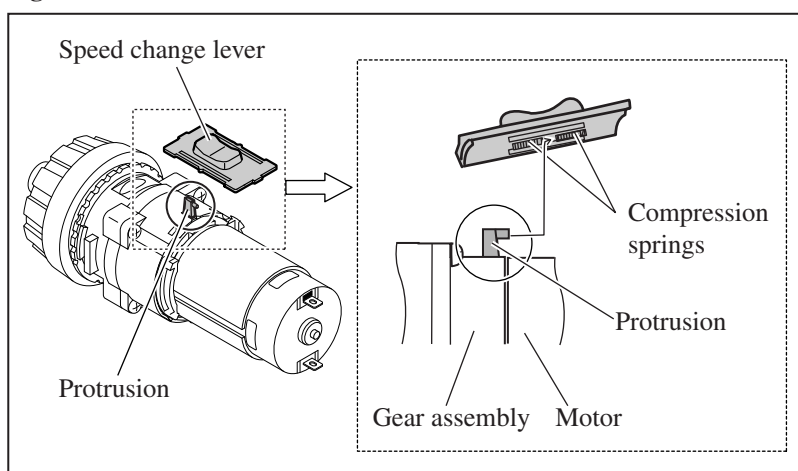
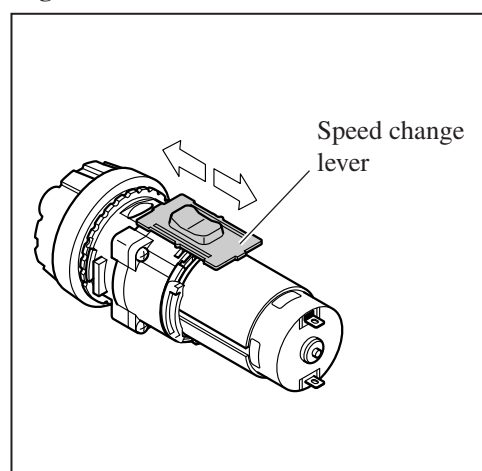


Fig. 10

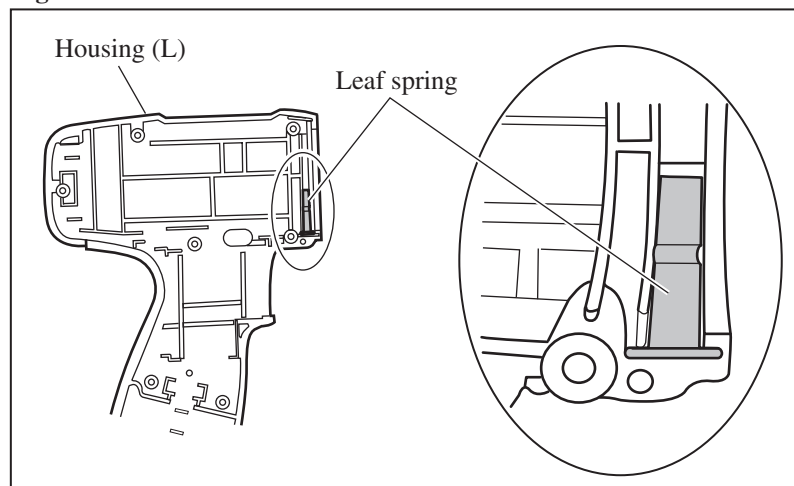


► Repair

[5] Installing Leaf spring Onto Housing (L)

Before installation of inner electrical parts, remember to set Leaf spring in place on housing (L) as illustrated in **Fig. 11**.

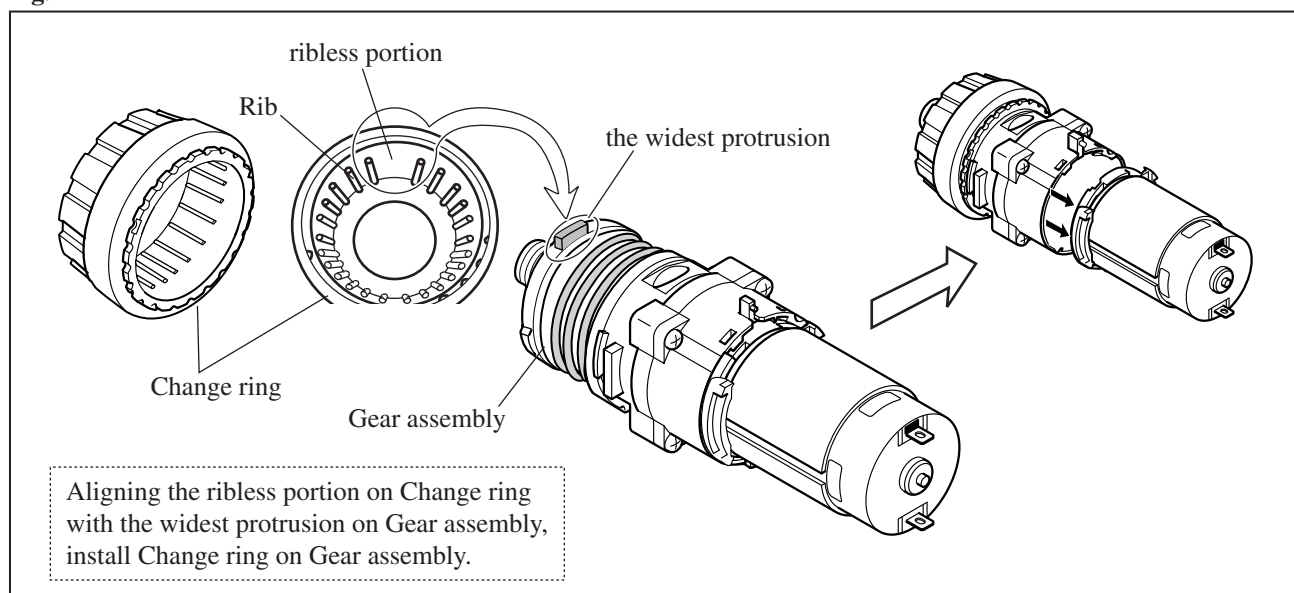
Fig. 11



[6] Installing Change Ring on Gear Assembly

Install Change ring on Gear assembly as illustrated in **Fig. 12**.

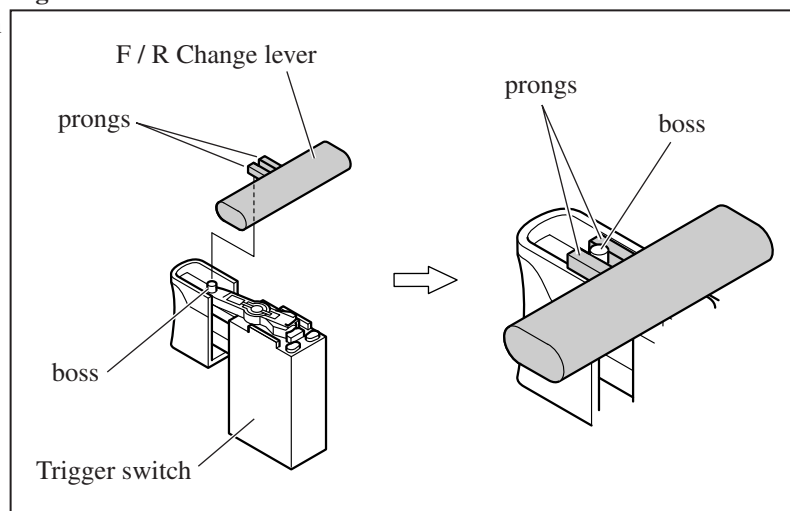
Fig. 12





[7] Installing F/R Change Lever

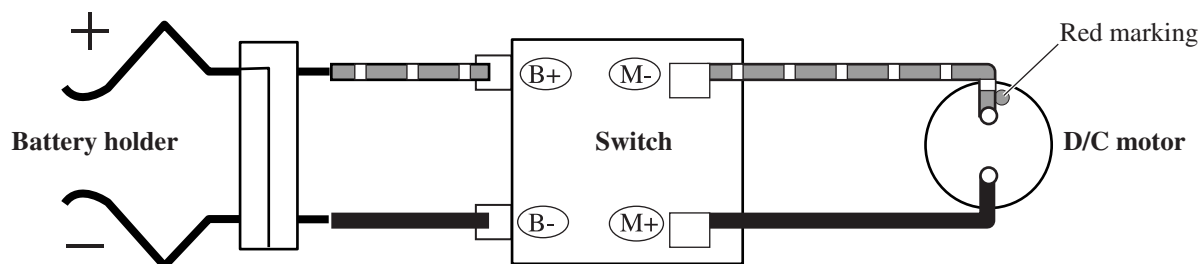
Install F/R change lever onto Trigger switch by placing the boss on Trigger switch between the prongs on F/R change lever as illustrated in **Fig. 13**.

Fig. 13



▶ **Circuit diagram**

Color index of lead wires' sheath	
Black	
Red	

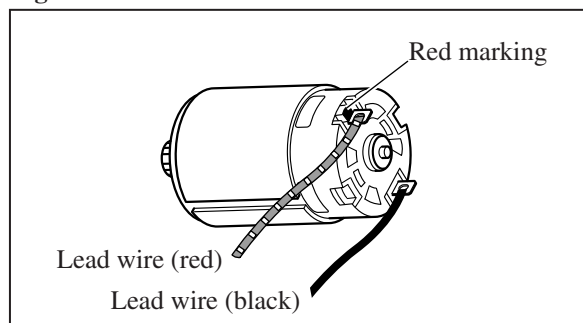


▶ **Wiring diagram**

[1] Connecting Lead Wires with Motor

Connect the lead wires with the terminals on Motor so that they are placed on the side of Housing (L). (Fig. 14)

Fig. 14



[2] Wiring in Housing

Route lead wires as illustrated in Fig. 15.

[3] Connecting Lead Wires with Battery Holder

Connect lead wires with the terminals on Battery holder as illustrated in Fig. 16.

Fig. 15

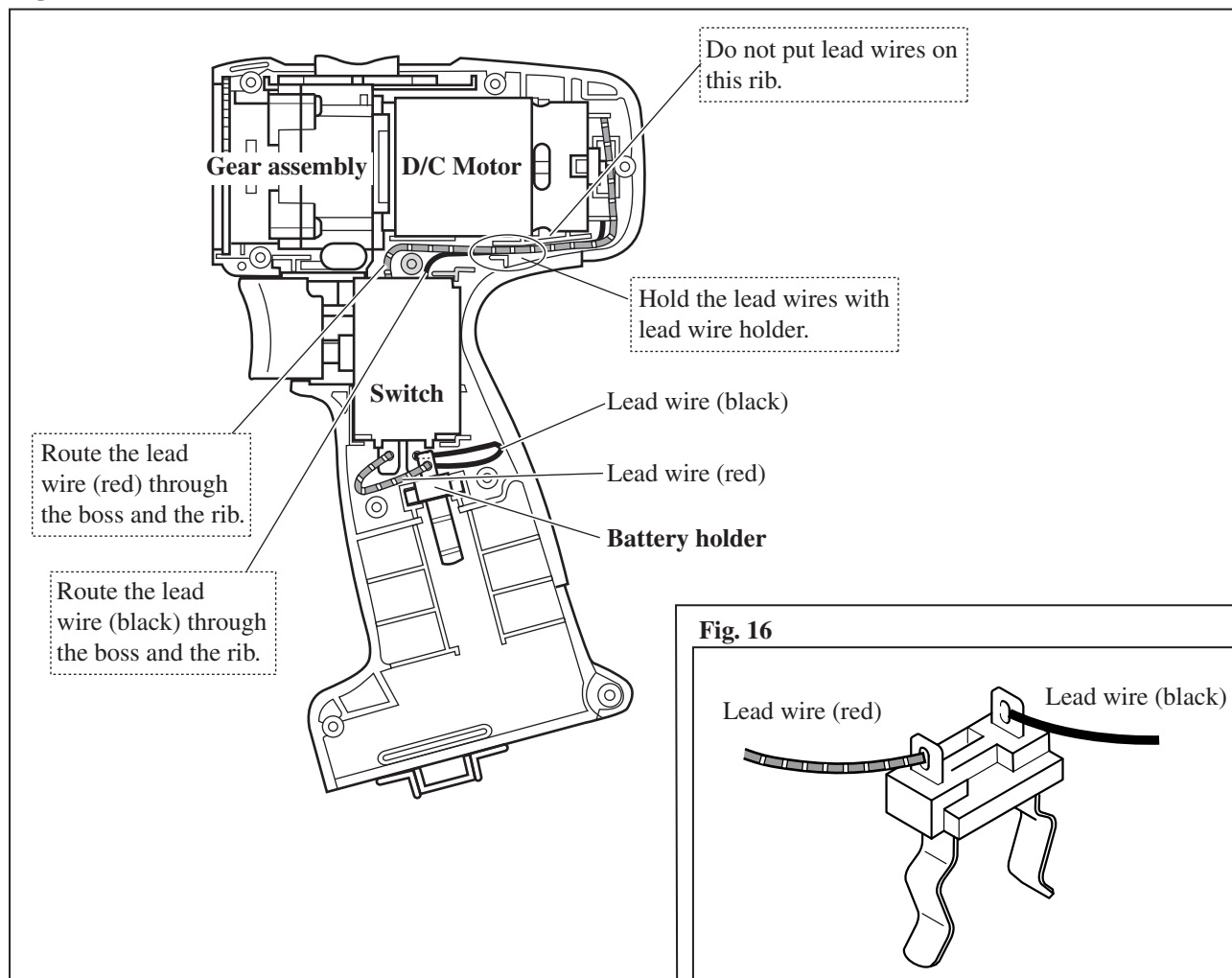


Fig. 16

