TECHNICAL INFORMATION maktec

Model No. ► MT062 / MT063

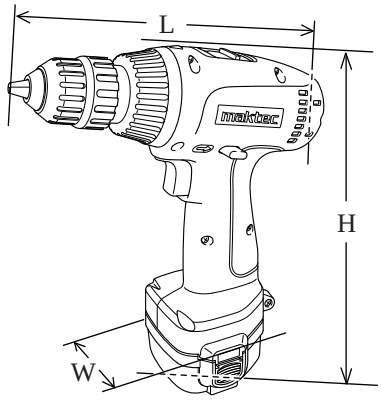
Description ► Cordless driver drills 9.6V / 12V

CONCEPT AND MAIN APPLICATIONS

The above products have been added to our MAKTEC series model as a cordless tool. Their brief benefits and features are;
* Less expensive, but service life is long as the existing model.
* Less expensive, but 2 speed variable speed control
* Easy to repair construction

Listed below are variations of MT062 and MT063

Model No.	Items included as a set	
MT062SK	Ni-Cd Battery 9050 x 1 pc	Charger DC1250
MT062SK2	Ni-Cd Battery 9050 x 2 pcs.	Charger DC1250
MT063SK	Ni-Cd Battery 1250 x 1 pc	Charger DC1250
MT063SK2	Ni-Cd Battery 1250 x 2 pcs.	Charger DC1250



Dimensions : mm (")		
Model No.	MT062	MT063
Length (L)	203 (8)	
Height (H)	243 (9-9/16)	
Width (W)	76 (3)	93 (3-5/8)

► Specification

Model No.			MT062	MT063
Voltage (V)			9.6	12
No load speed : (min -1= rpm)		Low	0 - 350	
		High	0 - 1,000	
Keyless drill chuck			Yes	
Chuck ability : mm (")			0.8 - 10 (1/32 - 3/8)	
Capacities	in Steel : mm (")		10 (3/8)	10 (3/8)
	in Wood : mm (")		21 (13/16)	24 (15/16)
	Screw : mm (")		5.1 x 38 (3/16 x 1-1/2)	5.1 x 63 (3/16 x 2-1/2)
Max. fastening torque	N.m	Hard joint	18	21
		Soft joint	13	14
	Kgf.cm	Hard joint	184	214
		Soft joint	133	143
	in lbs	Hard joint	160	186
		Soft joint	115	124
Reverse switch			Yes	
Electric brake			Yes	
Torque adjustment			19 stages + Drill mode	
Net weight :Kg (lbs)			1.3 (2.9)	1.4 (3.1)

► Standard equipment

* Battery cover ..... 1 pc. (for MT062SK and MT063SK)
* Battery cover ..... 2 pcs. (for MT062SK2 and MT063SK2)
* Plastic carrying case ..... 1 pc.

< Note > The standard equipment for the tool shown may differ from country to country.

► Optional accessories

* Battery 9050 for MT062SK and MT062SK2
* Battery 1250 for MT063SK and MT063SK2
* Charger DC1250

Repair

< 1 > Removing drill chuck

(1) After removing battery from the machine, unscrew pan head screw M5x22 by turning clockwise. See Fig. 1. Employ impact driver, if it is difficult to unscrew by hand.

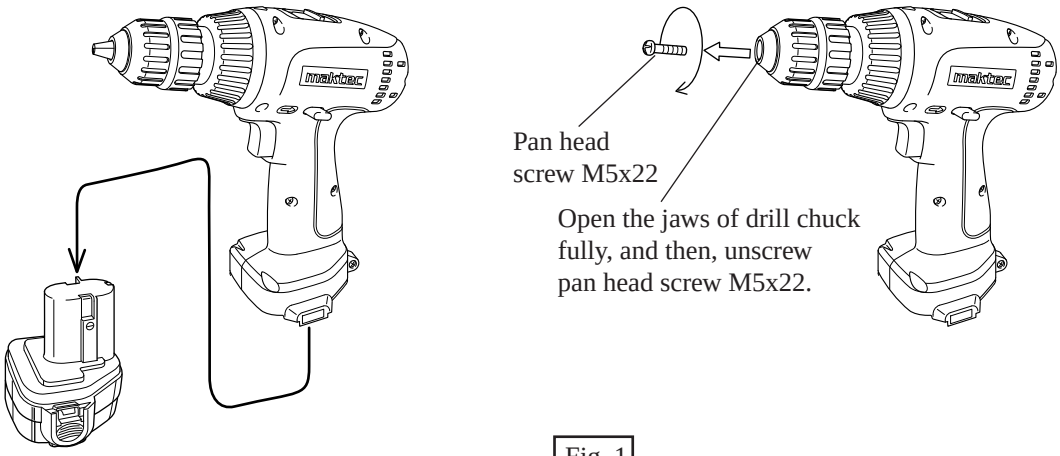


Fig. 1

(2) Insert hex wrench into drill chuck, and grip the hex wrench with drill chuck firmly.
Set the machine as follows.
* Working mode : Drill mode * Speed change lever : low speed rotation mode
* F/R change lever : forward rotation mode
See Fig. 2.
Hold the machine on the working table firmly, turn drill chuck counterclockwise by striking the inserted hex wrench with plastic hammer. see Fig. 2A. Then, drill chuck can be removed from the machine.

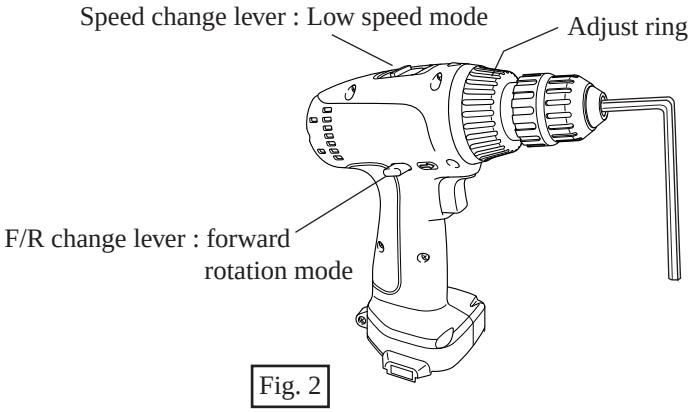


Fig. 2

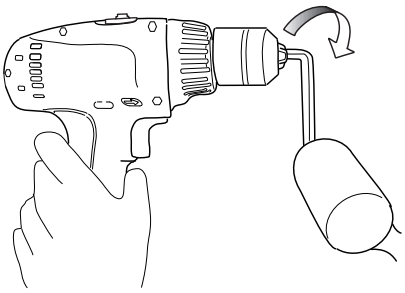


Fig. 2A

< 2 > Disassembling gear assembly and DC motor

(1) After removing drill chuck as illustrated in Fig. 1, Fig. 2 and Fig. 2A, separate housing L from housing R, by unscrewing 8 pcs. of pan head screws M5x22. See Fig. 3.

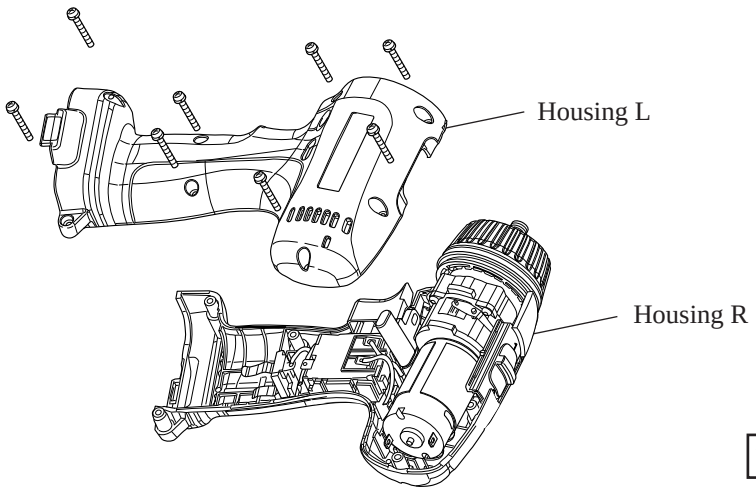


Fig. 3

(2) Separate gear assembly, DC motor and speed change lever from housing R together. See Fig. 4.
Be careful in this step, not to lose 2 pcs. of compression springs 4 in speed change lever.
Gear assembly can be separated from DC motor. See Fig. 4A.

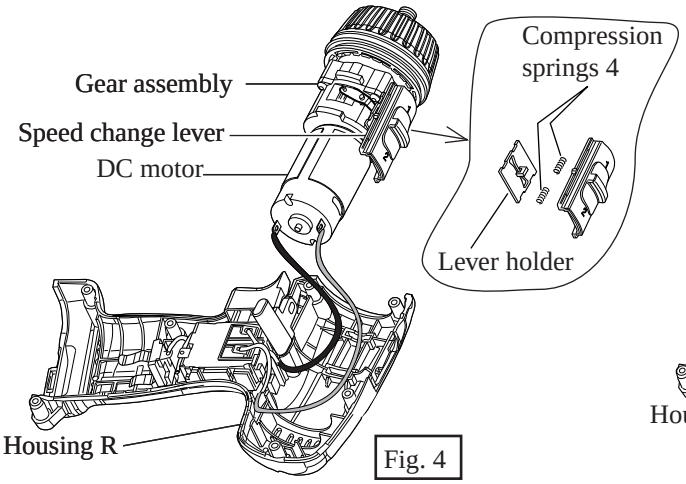


Fig. 4

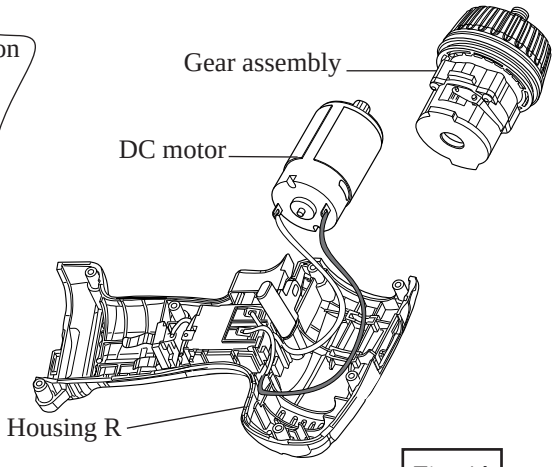


Fig. 4A

< 3 > Assembling the component parts to housing

(1) Assemble the speed change lever section as follows.

1. Put compression springs 4 to the both sides of the lever holder's bulge, and mount compression springs 4 together with lever holder, to speed change lever as illustrated in Fig. 5.
Assemble the speed change lever section to gear assembly by passing the lever through the lever holder's hole as illustrated in Fig. 5A.

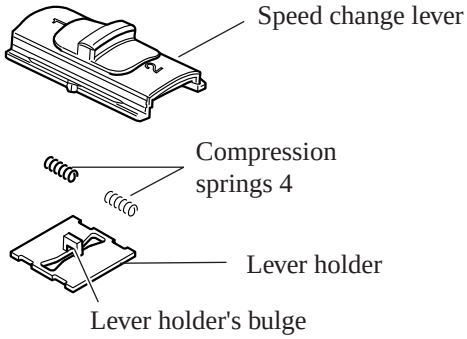


Fig. 5

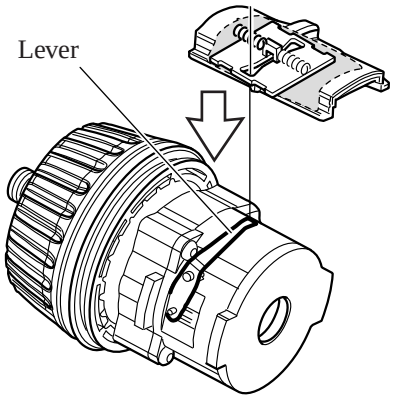


Fig. 5A

(2) Mount gear assembly to DC motor. See Fig. 4A. Assemble gear assembly, speed change lever and DC motor to housing R together, paying attention to < Note 1 > and < Note 2 >. See Fig. 6.

< Note 1 >
Bringing (-) terminal of DC motor to the switch side, align the concave portion of red marking side, with the convex on housing R.

< Note 2 >
Align these convex portions with the concaves on housing R.

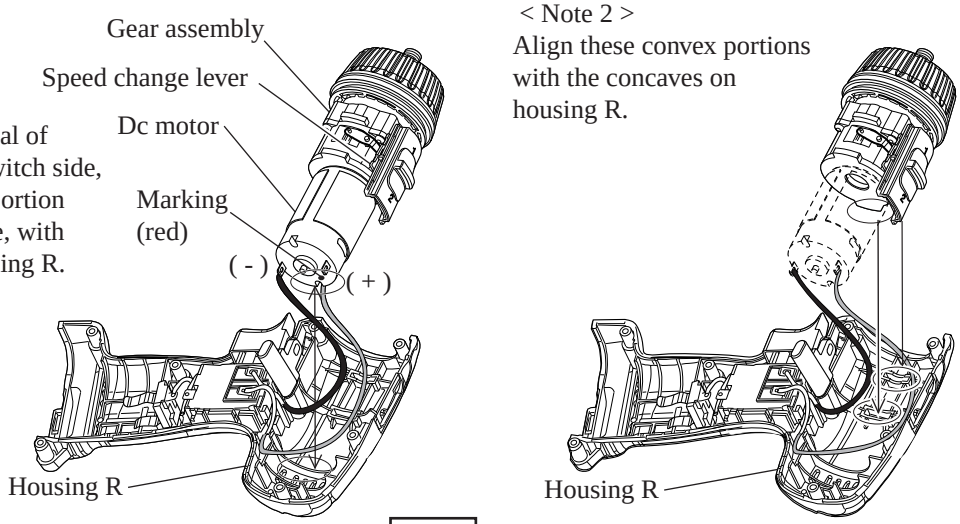
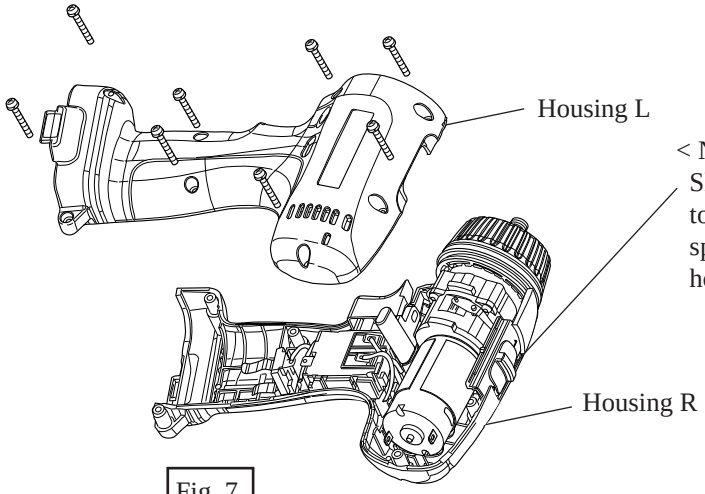


Fig. 6

(3) Mount housing L to the housing R by fastening with 8 pcs. of pan head screw M3x22. See Fig. 7.



< Note 1 >
Slide the speed change lever to either "High" or "Low" speed side, before mounting housing L.

< Note 2 >
The fastening torque of pan head screws M3x22 is 0.39N.m - 0.87N.m (4.0 Kgf.cm - 8.0 Kgf.cm).

Fig. 7

< 4 > Assembling drill chuck

(1) Mount drill chuck to spindle portion of gear assembly by screwing it clockwise. And then, grip hex wrench with the drill chuck firmly. See Fig. 8.

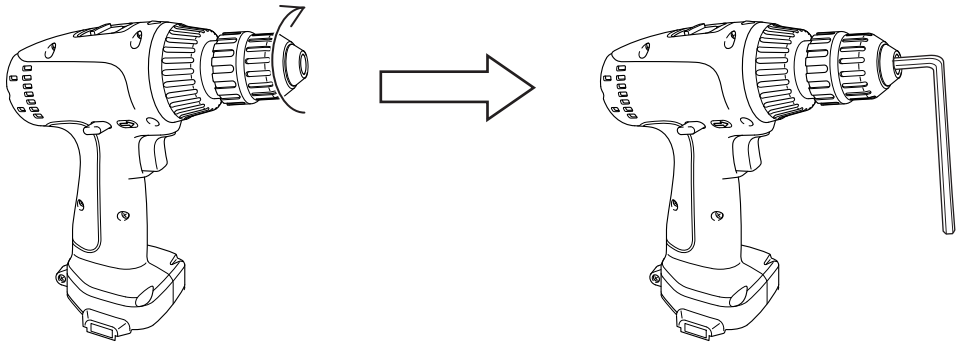


Fig. 8

(2) Hold the machine with vise, and set the machine as follows.
* Adjust ring : Drill mode * Speed change lever : Low speed rotation mode
* Change lever : Forward rotation mode
See Fig. 9.

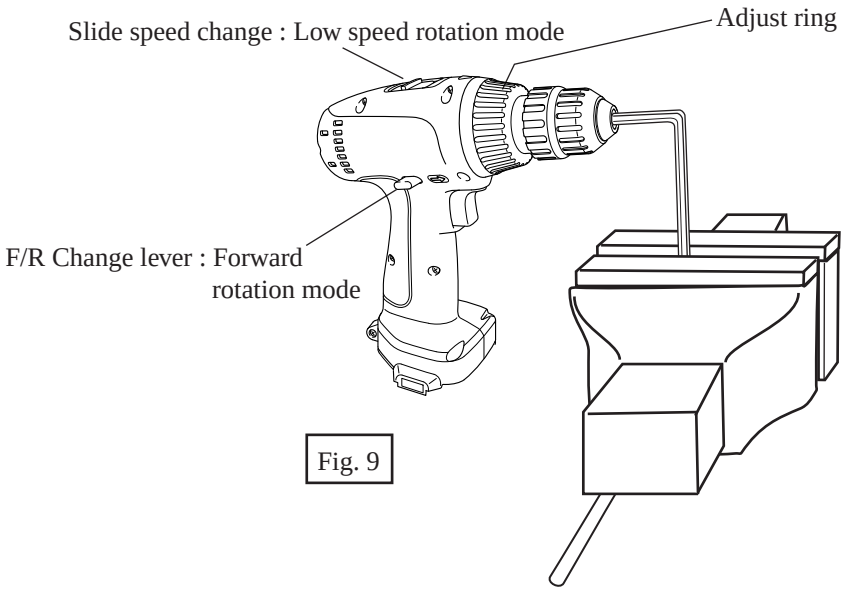


Fig. 9

(3) Attach the fully charged battery to the machine. And holding the machine with your hand firmly, rotate the machine by pulling the trigger fully for approx. 1 second to fasten drill chuck to the spindle firmly. See Fig. 10.

(4) Screw pan dead screw M5x22 counter clockwise to secure the drill chuck. See Fig. 11.

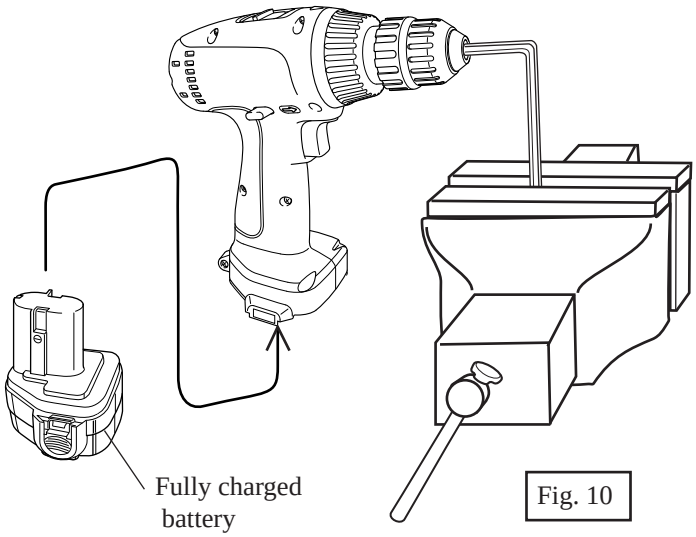
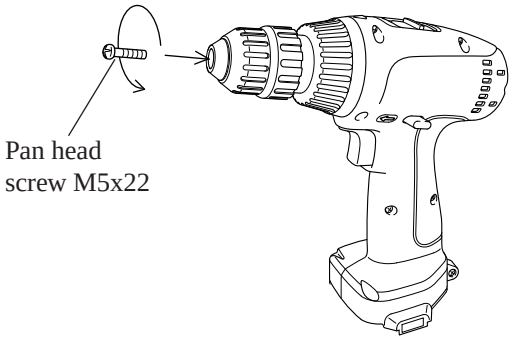


Fig. 10



Circuit diagram

Color index of lead wires	
Black	
Red	

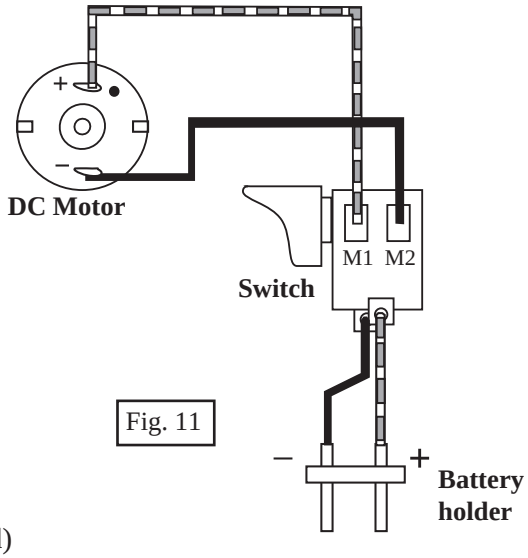


Fig. 11

Wiring diagram

Connect the lead wire (red) to the terminal of the red marking side as illustrated in Fig. 12.

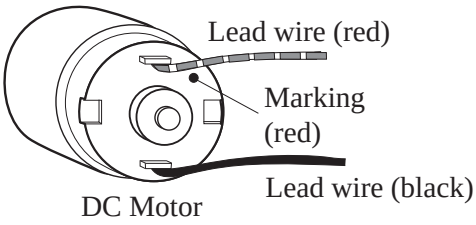


Fig. 12

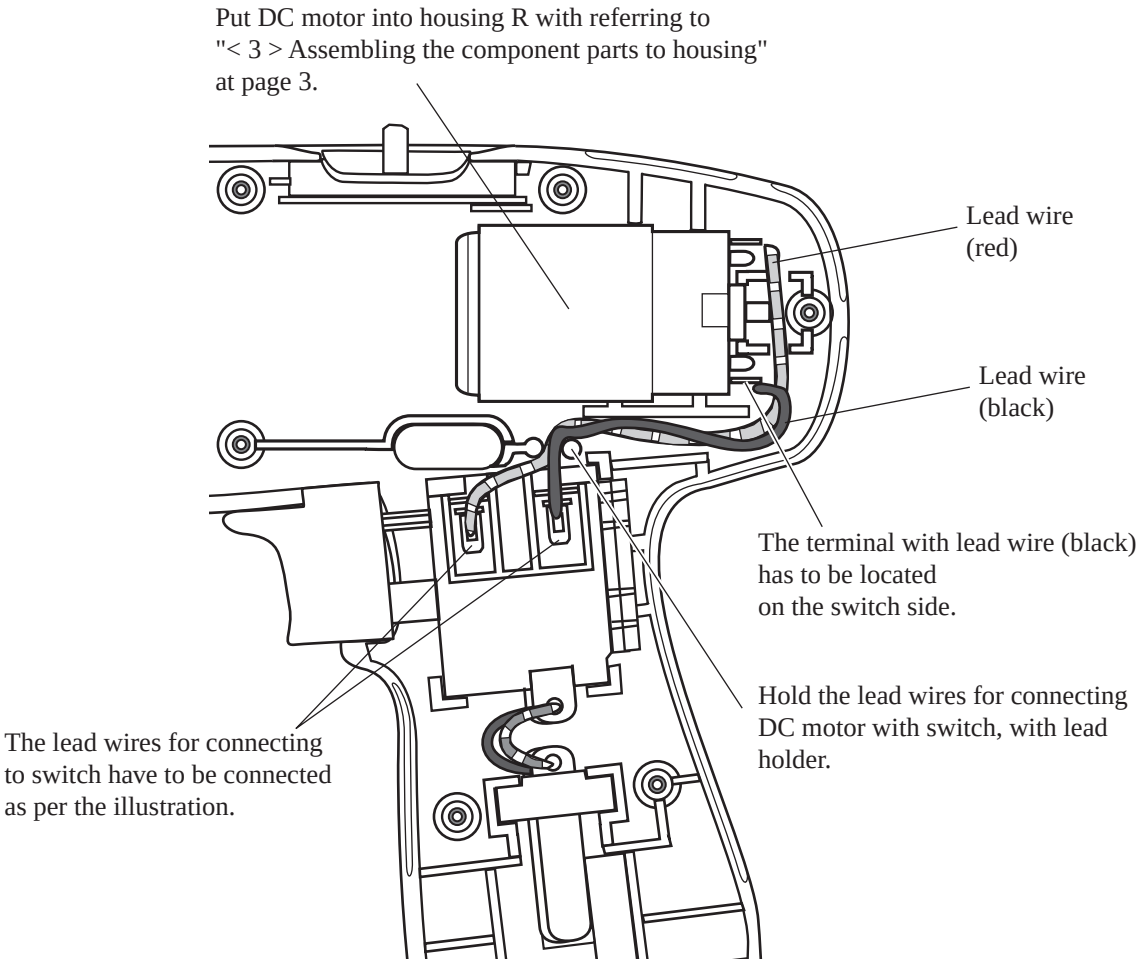


Fig. 13