

TECHNICAL INFORMATION



Models No. ▶ 6226D, 6227D, 6228D

Description ▶ Cordless Driver Drill

CONCEPTION AND MAIN APPLICATIONS

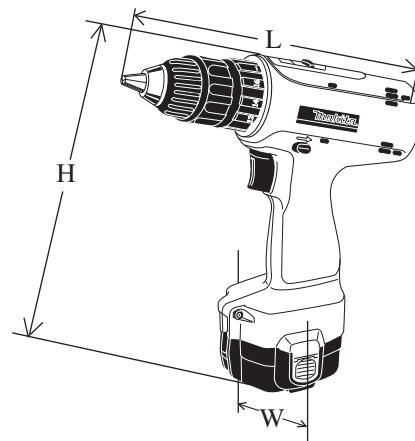
6226D/ 9.6V : 2 speed mechanic & variable speed control version of the existing Mod.6222D.

6227D : 12 V version of Mod.6226D

6228D : 14.4V version of Mod.6226D

The variation of these models are as follows.

Model No.	Battery	Charger	Torch light
6226DW	9120 : 1 pc.	DC9710	
6226DWE	9120 : 2 pcs.	DC9710	
6226DWLE	9120 : 2 pcs.	DC9710	Yes
6226DWBE	9133 : 2 pcs.	DC1411	
6227DW	1220 : 1 pc.	DC1470	
6227DWE	1220 : 2 pcs.	DC1470	
6227DWLE	1220 : 2 pcs.	DC1470	Yes
6227DWBE	1233 : 2 pcs.	DC1411	
6228DW			
6228DWE	1420 : 2 pcs.	DC1470	
6228DWLE	1420 : 2 pcs.	DC1470	Yes
6228DWBE	1433 : 2 pcs.	DC1411	



Dimensions

	6226D	6227D	6228D
L	210mm 8-1/4"	210mm 8-1/4"	210mm 8-1/4"
H	235mm 9-1/4"	235mm 9-1/4"	240mm 9-7/16"
W	77mm 3"	94mm 3-11/16"	94mm 3-11/16"

► Specification

Model No.		6226D	6227D	6228D
Voltage		9.6 V	12 V	14.4 V
No load speed (min.= rpm.)	High speed	0 - 1,100		
	Low speed	0 - 350		
Chuck ability		0.8mm (1/32") - 10mm (3/8")		
Capacities	in Steel	10mm (3/8")	10mm (3/8")	10mm (3/8")
	in Wood	21mm (13/16")	24mm (15/16")	24mm (15/16")
	Screw	5.1mm x 38mm (3/16" x 1-1/2")	5.1mm x 63mm (3/16" x 2-1/2")	5.1mm x 63mm (3/16" x 2-1/2")
Max tightening torque	High speed	6Nm (53.1 in lbs)	7Nm (62.0 in lbs)	7Nm (62.0 in lbs)
	Low speed	19Nm (168.2 in lbs)	22Nm (194.8 in lbs)	22Nm (194.8 in lbs)
Reversible action switch		Yes	Yes	Yes
Electric brake		Yes	Yes	Yes
Torque adjustment		16 stage and drill mode		
Net weight		1.4 Kg (3.1 lbs)	1.5 Kg (3.3 lbs)	1.6 Kg (3.5 lbs)

► Standard equipment

+ - Bit 2-65
Battery cover
Carrying case

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

► Optional accessories

Wool bonnet, Various drill bits for wood and metal, Various philips bits, slotted bits, socket bits,
Rubber pad assembly, Buff 125

Set plate for battery 9100, 9102, 9102A, 1200, 1202, 1202A

Charger DC9710, DC2101, DC1411, DC1422, DC1439, DC1801

Batteries

for 6226D	9100, 9102, 9102A, 9120, 9122, 9133
for 6227D	1200, 1202, 1202A, 1222, 1233
for 6228D	1420, 1422, 1433

► Benefits and features

6226D, 6227D, 6228D

Torque adjustment
in 16 stage + drill mode
to match fastening and material

Mechanic 2 speed control

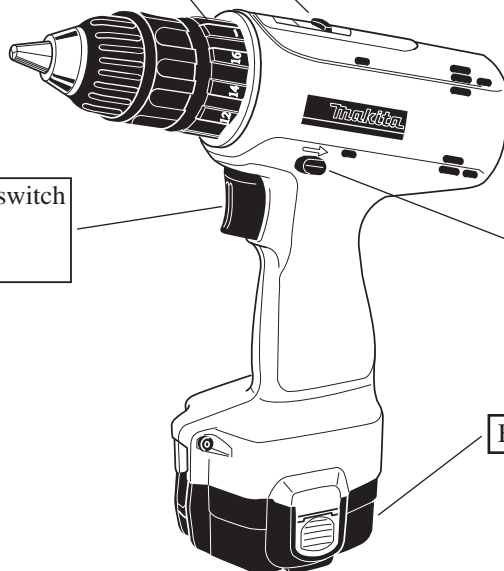
High speed mode providing speedy drilling in light duty.
Low speed mode providing high torque in heavy duty
and wide working area as shown in the diagram in the
next page.

Variable speed control switch
with brake for easy bit
centering and fastening

Reversible switch

Easy to operate with one hand

Battery 9.6V - 14.4V

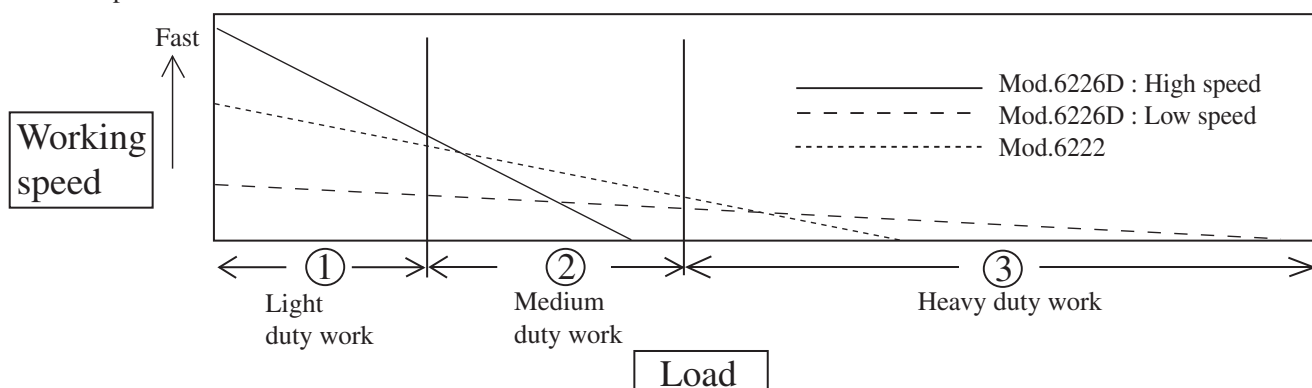


► Comparison of products

Model No.		9.6 V		12 V		14.4 V
		6226D	6222D	6227D	6223D	6228D
No load speed (min. = rpm.)	High speed	0 - 1,100	0 - 700	0 - 1,100	0 - 700	0 - 1,100
	Low speed	0 - 350		0 - 350		0 - 350
Max. tightening torque (Nm)		19 (168.2 in lbs)	8 (70 in lbs)	22 (194.8 in lbs)	10 (90 in lbs)	22 (194.8 in lbs)
Equipped motor		Johnson HC683LG	Mabuchi RS550VF or Johnson HC683LG	Johnson HC683LG	Mabuchi RS550VF or Johnson HC683LG	Johnson HC683LG
Torque adjustment		16 stage + drill	5 stage + drill	16 stage + drill	5 stage + drill	16 stage + drill
Overall length (mm)		210 (8-1/4")	202 (8")	210 (8-1/4")	202 (8")	210 (8-1/4")
Weight (Kg)		1.4 Kg (3.1 lbs)	1.4 Kg (3.1 lbs)	1.5 Kg (3.3 lbs)	1.5 Kg (3.3 lbs)	1.6 Kg (3.5 lbs)
Standard equipment		+ - Bit 2-65 Battery cover Carrying case	+ - Bit 2-65 Battery cover Set plate Carrying case	+ - Bit 2-65 Battery cover Carrying case	+ - Bit 2-65 Battery cover Set plate Carrying case	+ - Bit 2-65 Battery cover Carrying case

Comparison of products

Comparison of Mod.6226D with Model 6222D



Working speed

Performance examples
one battery pack charge

Numbers in chart below are relative values when setting Mod.6222D's capacity as 100.

① Light duty work

Tightening screw Ø3.5mm x 22mm in lauwan (wood)

	Slow ←	→ Fast
6228D	140	
6227D	140	
6226D	140	
6223D	105	
6222D	100	

	Few ←	→ Many
6228D	165	
6227D	120	
6226D	105	
6223D	145	
6222D	100	

Drilling with drill bit Ø15mm in lauwan (wood)

6228D	145	
6227D	145	
6226D	125	
6223D	100	
6222D	100	

6228D	135	
6227D	120	
6226D	85	
6223D	130	
6222D	100	

② Medium duty work

Tightening screw Ø5.1mm x 38mm in lauwan (wood)

6228D	70	
6227D	70	
6226D	65	
6223D	110	
6222D	100	

6228D	230	
6227D	175	
6226D	120	
6223D	165	
6222D	100	

③ Heavy duty work

Numbers in chart below are relative values when setting Mod.6226D's capacity as 100.

Drilling with drill bit Ø24mm in spruce (wood)

6228D	120	
6227D	115	
6226D	100	

6223D Impossible to work

6222D Impossible to work

6228D	185	
6227D	150	
6226D	100	

6223D Impossible to work

6222D Impossible to work

► Comparison of products

Tightening torque on every graduations

Tightening torque

in.lbs Kgfcmm Nm

194.8 220 22

185.9 210 21

177.1 200 20

168.2 190 19

62.0 70 7

53.1 60 6

44.3 50 5

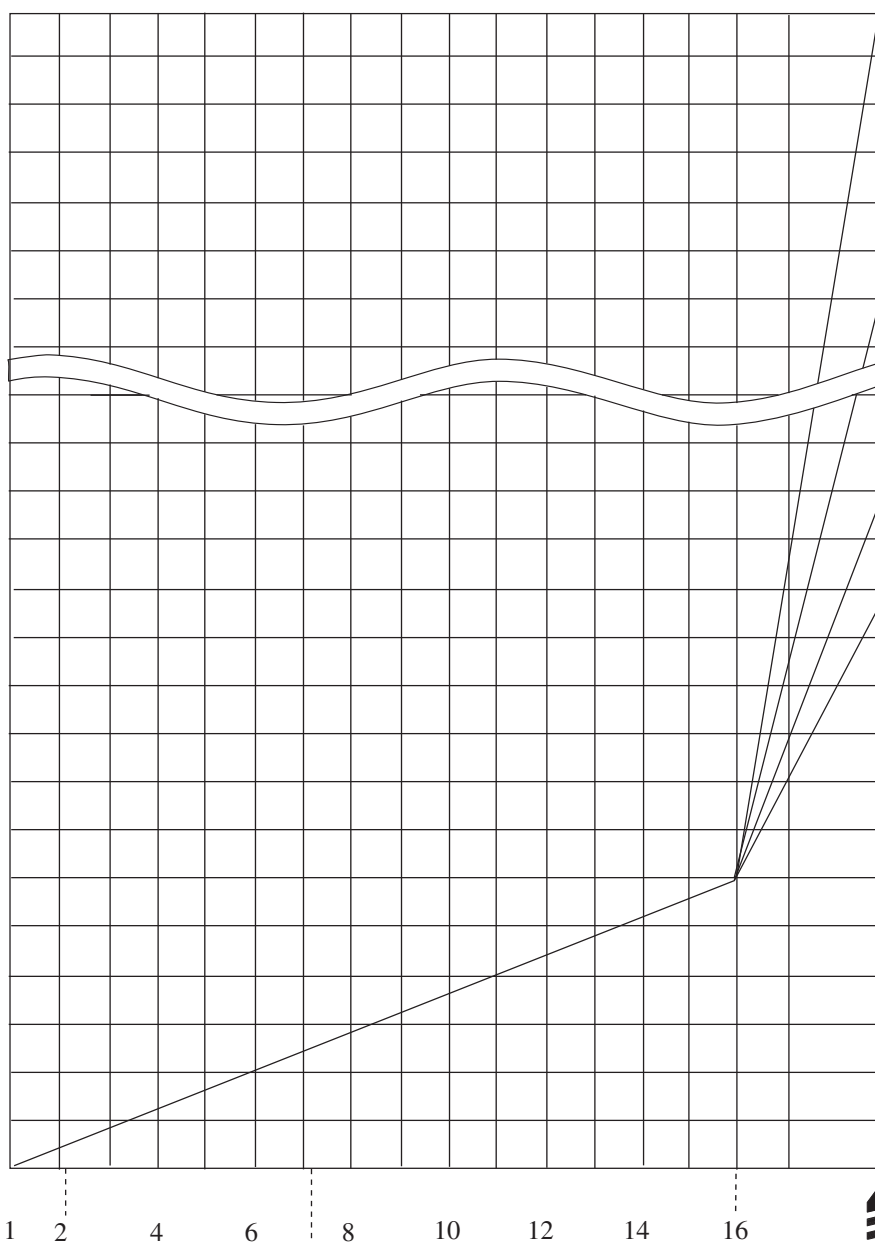
35.4 40 4

26.6 30 3

17.7 20 2

8.9 10 1

0 0 0



6227D
6228D
Low speed

6226D
Low speed

6227D
6228D
High speed

6226D
High speed

The setting position of
torque graduations
and machine screw
size

M3

M4

M5

16 stage adjusting ring

16 setting position of torque graduations can be precisely adjusted into work piece.

► Repair

(1) Removing gear assembly

Take off drill chuck first.

Be careful that compression spring 4 does not go out from speed change lever, when removing gear assembly from housing.

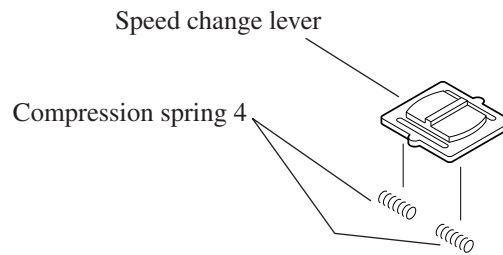


Fig. 1

(2) Assembling

1. Assembling motor and gear assembly

1) Motor bracket is, in advance, assembled to gear assembly for spare parts.

Remove the motor bracket from gear assembly by turning anti-clockwise.

And fasten motor bracket to motor with screw. See Fig.2.

2) Assemble motor equipped with motor bracket to gear assembly by turning clockwise. See Fig.2.

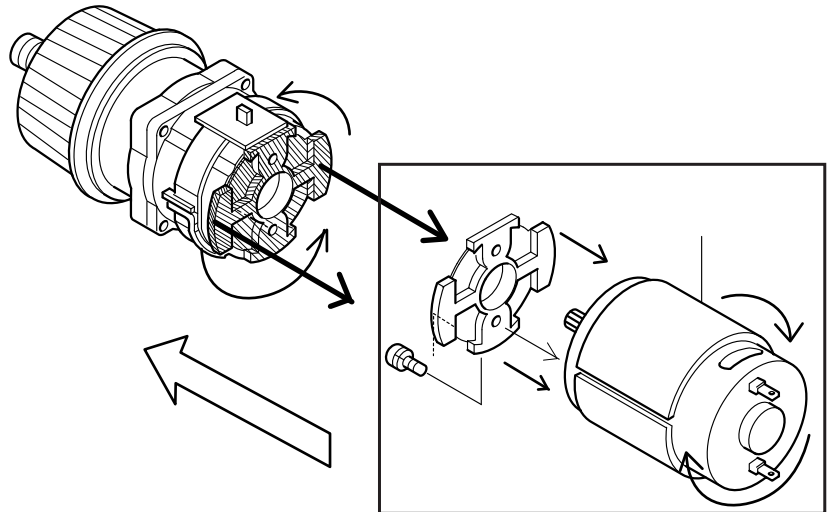


Fig. 2

2. Assembling leaf spring

Assemble leaf spring to housing L as illustrated in Fig.3.

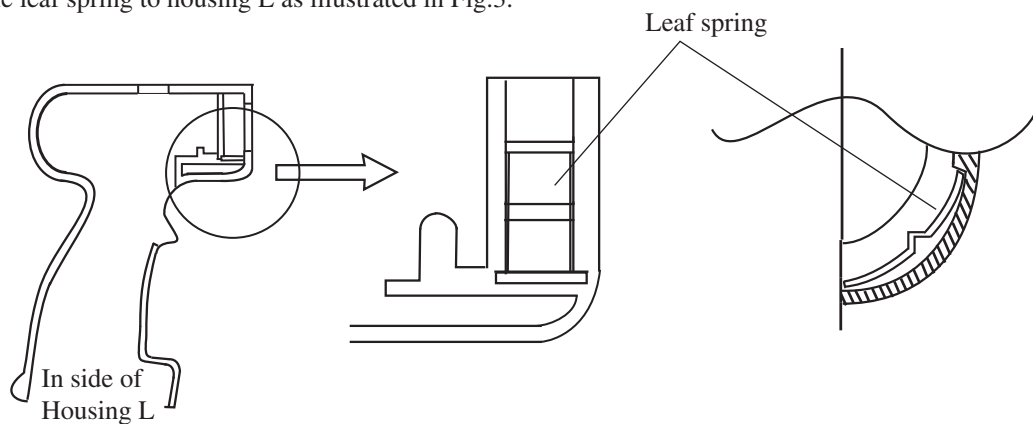


Fig. 3

► Repair

2. Installing of Speed change lever

- 1) Place two Compression spring 4s into Speed change lever as illustrated in Fig4.

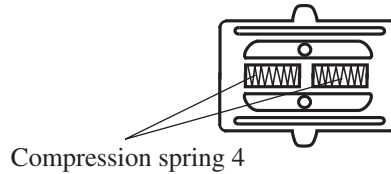


Fig. 4

- 2) Being careful that compression spring 4 may not comes out , install speed change lever assembly on the projection of change lever as shown in Fig. 5.

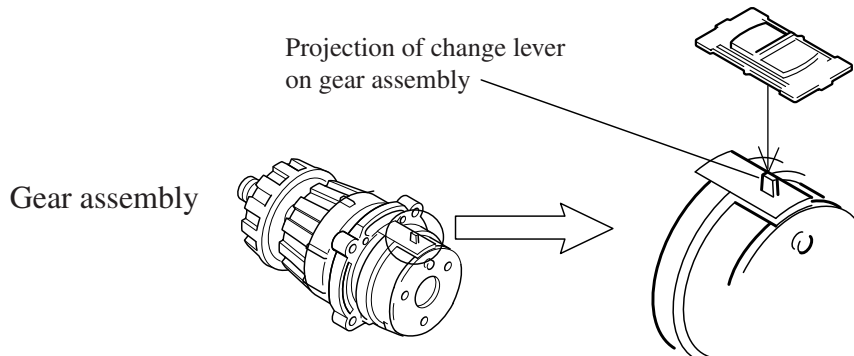


Fig. 5

3 Assembling to Housing

- 1) When attaching a unit of gear assembly and motor, etc. to housing L, place speed change lever in the position as shown in Fig. 6.

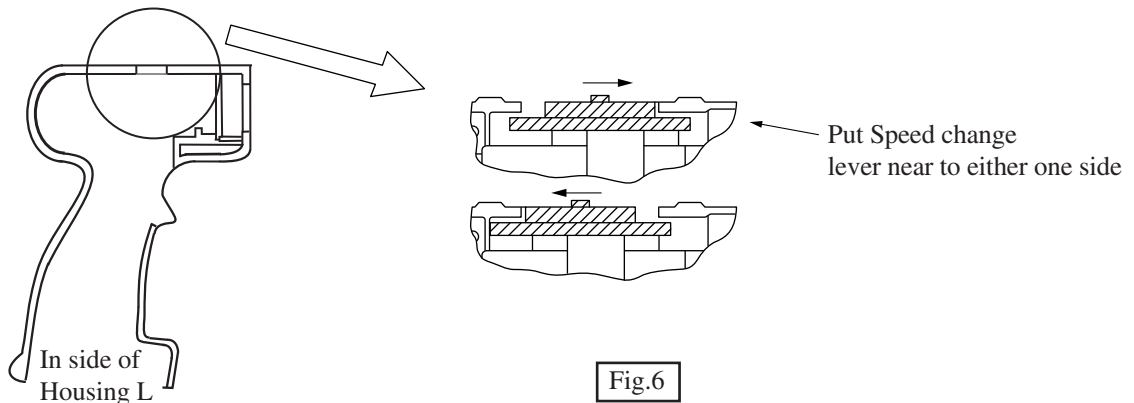



Fig.6

4 Assembling drill chuck

- 1) Set drill chuck on spindle, and fasten a hex bar with chuck.
- 2) Hold the machine with vise as illustrated in Fig.7.
- 3) Adjust the switch or lever as follows.
 Speed change lever : Low speed **I**
 Reversible switch : Clockwise rotation
 Adjusting ring : Drill mode 
- 4) Attach full charged battery to the machine, and hold the grip firmly.
- 5) Operate the machine adjusted as 1) - 4) with full speed for approx. one second. At this time you have to hold the machine so strong that you can withstand the shock by spindle lock.
- 6) Open the three jaws of chuck fully, and fasten pan head screw M5x22 anti-clockwise firmly.

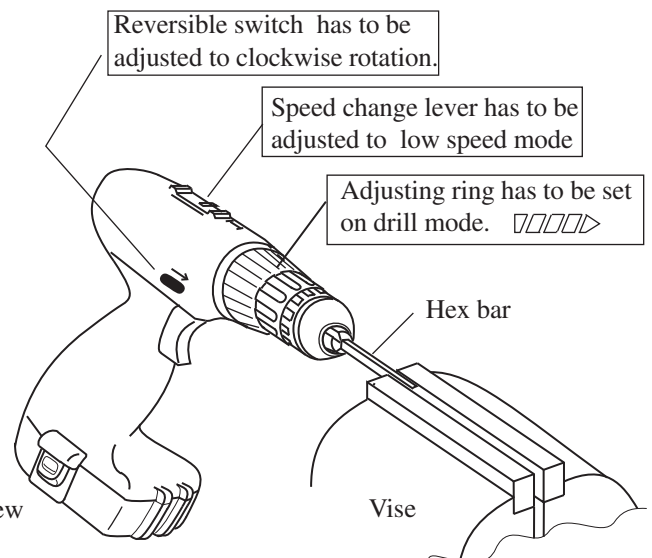
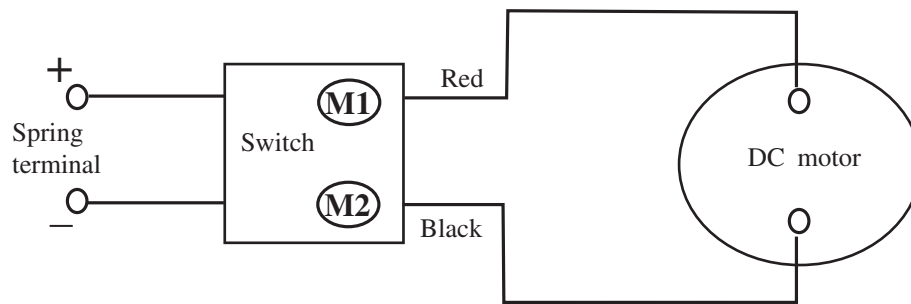


Fig.7

► Circuit diagram



► Wiring diagram

Lead wires have to be set as illustrated in Fig.C, paying attention to the following matters.

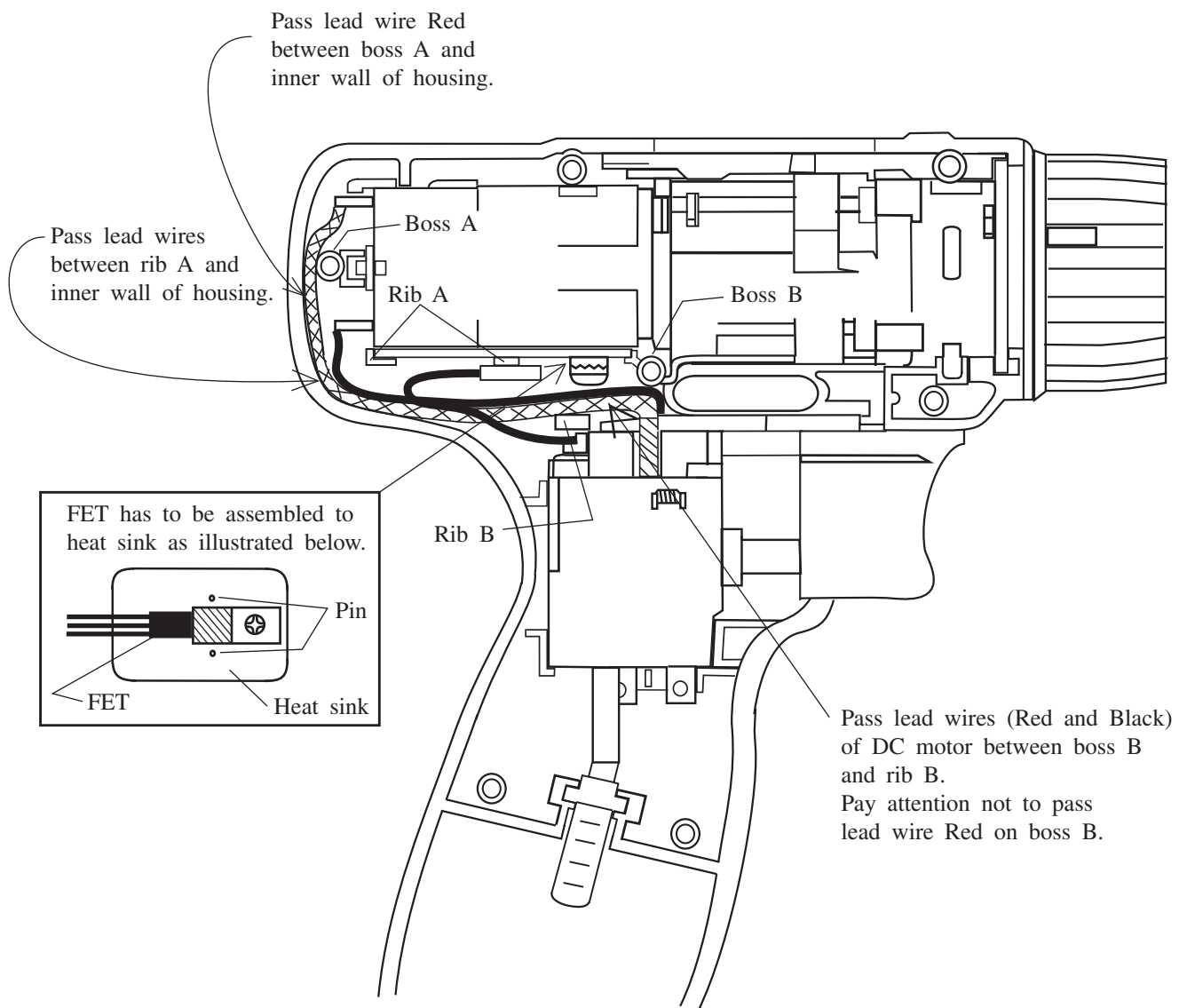


Fig.C