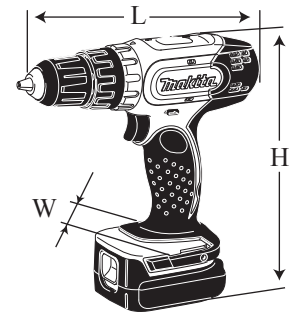




# TECHNICAL INFORMATION

**Model No.** ▶ DHP343

**Description** ▶ 14.4V Cordless Hammer Driver Drill 10mm (3/8")



Dimensions: mm (")	
Length (L)	211 (8-5/16)
Width (W)	79 (3-1/8)
Height (H)	226 (8-7/8)*1
	243 (9-9/16)*2

\*1 With BL1415/BL1415N

\*2 With BL1430/BL1440

## CONCEPT AND MAIN APPLICATIONS

Model DHP343 is cordless hammer driver drill powered by 14.4V Li-ion battery of BL1415 (1.3Ah), BL1415N (1.5Ah), BL1415NA (1.5Ah), BL1430 (3.0Ah), BL1430A (3.0Ah) or BL1440 (4.0Ah).

Its main features are the same as model BHP343 as follows:

- Compact and lightweight design
- Single sleeve keyless chuck allows for easy bit installation/removal with one hand.
- All metal gear construction ensures high transmission durability. Also with gear case completely covering gears for increased durability against dust.
- Soft grip provides comfortable grip and more control while minimizing hand fatigue and pain.

## ► Specification

Battery	Voltage: V	14.4
	Cell	Li-ion
	Capacity: Ah	1.3, 1.5, 3.0, 4.0
	Energy capacity: W	19, 22, 44, 58
	Charging time: min	15, 15, 22, 36 with DC18RC
Max output: W		180
No load speed: min <sup>-1</sup> =rpm	High	0 - 1,300
	Low	0 - 400
Impacts per minute: min <sup>-1</sup> =ipm	High	0 - 19,500
	Low	0 - 6,000
Capacity of drill chuck: mm (")		0.8 - 10 (1/32 - 3/8)
Capacity: mm (")	Steel	10 (3/8)
	Wood	25 (1)
	Masonry	10 (3/8)
Torque setting		16 stage + drill mode
Clutch torque setting: N.m (in.lbs)		1.0 - 4.0 (9 - 35)
Lock torque: N.m (in.lbs)		30 (260)
Max fastening torque: N.m	Hard joint	36
	Soft joint	20
Electric brake		Yes
Mechanical speed control		Yes (2 speed)
Variable speed control		Yes
Reverse switch		Yes
Weight according to EPTA-Procedure 01/2003: kg (lbs)		1.4 (3.1)*1
		1.6 (3.5)*2

## ► Standard equipment

+ Bit 2-65 (double-end)

Battery\*3

Charger\*3

Battery cover\*4

Plastic carrying case/ Connector-plastic case (Type 2)\*3

Belt clip

\*3 Battery, Charger and Plastic-carrying case/ Connector plastic-case (Type 2) are not supplied with "Z" model

\*4 Supplied with the same quantity of extra Battery

**Note:** The standard equipment may vary by country or model variation.

## ► Optional accessories

Keyless drill chuck 10  
Drill bits for wood  
Drill bits for steel  
Drill bits for masonry  
Bit holder  
Belt clip

Battery BL1415  
Battery BL1415N  
Battery BL1415NA  
Battery BL1430  
Battery BL1430A  
Battery BL1440  
Battery protector

Fast charger DC18RC  
Charger DC24SC  
Charger DC18SD  
Four port multi charger DC18SF  
Two port multi fast charger DC18RD  
Automotive charger DC18SE

## ► Repair

**CAUTION: Remove the battery and the bit from the machine for safety before repair/ maintenance!**

### [1] NECESSARY REPAIRING TOOLS

Description	Use for
Hex wrench 8	Removing /mounting Keyless drill chuck
Plastic hammer	Removing Keyless drill chuck

### [2] LUBRICATION

It is not required to lubricate the gear section. Use Makita genuine Gear assembly that is factory-lubricated when repairing.

### [3] DISASSEMBLY/ASSEMBLY

#### [3] -1. Keyless Drill Chuck

##### DISASSEMBLING

**Note:** (1) It is required to remove Keyless drill chuck at first when replacing Gear ass'y.

When parts other than Gear ass'y are related to repair, removing Keyless drill chuck is not required.

(2) If it is impossible to remove Keyless drill chuck in the following manner, use 1R359 (Chuck removing tool) to remove it. Refer to Makita repair tool list.

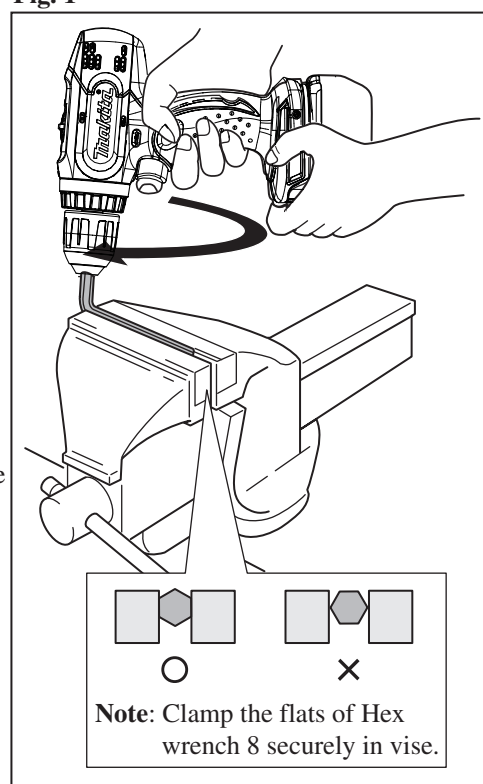
- 1) Open the jaws of Keyless drill chuck fully, and remove M6x22 - Flat head screw (left-handed and threadlocker coated) by turning **clockwise** using cordless impact driver in Forward rotation mode with slotted bit.
- 2) Fix the short leg of a hex wrench 8 in Keyless drill chuck, then clamp the long leg of the Hex wrench 8 securely in vise.
- 3) Set Action mode change lever of the machine in Drill mode, Speed change lever in Low speed, and F/R change lever in Reverse rotation mode.
- 4) Install Battery and hold the machine securely with both hands, then remove Keyless drill chuck from Gear ass'y by pulling Switch trigger slowly to minimize the impact of kickback. **(Fig. 1)**

##### Important:

The machine rotates in the direction of the arrow with very strong force at the moment when Switch trigger is pulled.

Therefore, be careful not to pinch your hand or finger between the machine and the vise.

**Fig. 1**



##### ASSEMBLING

- 1) Turn Keyless drill chuck clockwise until it sits on the end of the threaded portion of spindle of Gear ass'y.
- 2) Hold the short leg of Hex wrench 8 with Keyless drill chuck, and fix the long leg of Hex wrench 8 in vise. Install Battery. Then set Action mode change lever of machine in Drill mode, Speed change lever in Low speed, and F/R change lever in Forward rotation mode.
- 3) Slowly pull the switch trigger to rotate spindle until the motor is locked.

**Important:** Be sure to release the switch trigger just after Spindle is locked.

- 4) Secure Keyless drill chuck with M6x22 - Flat head screw by turning **counterclockwise** using cordless impact driver with slotted bit.

**Note:** If you reuse the removed M6x22 - Flat head screw, apply threadlocker (ThreeBond 1321B/ 1342 or Loctite 242) to the threaded portion.

► **Repair**

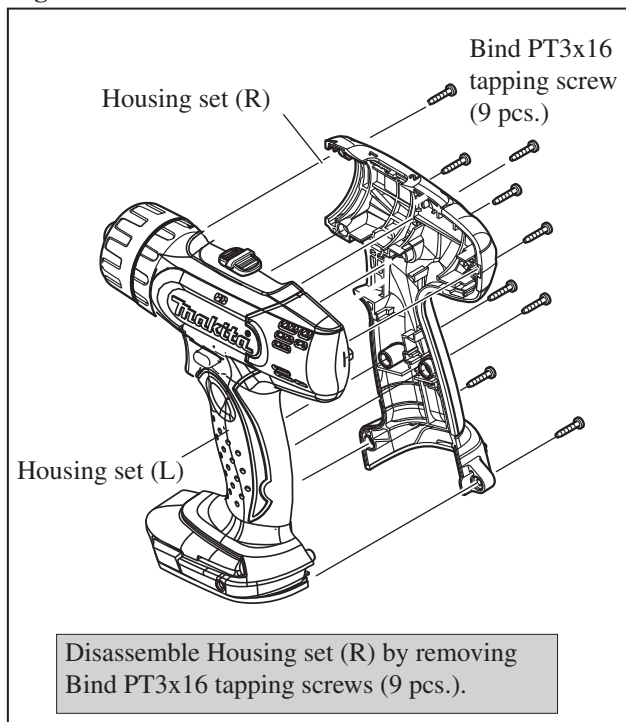
**[3] DISASSEMBLY/ASSEMBLY**

**[3] -2. Gear Ass'y and DC Motor**

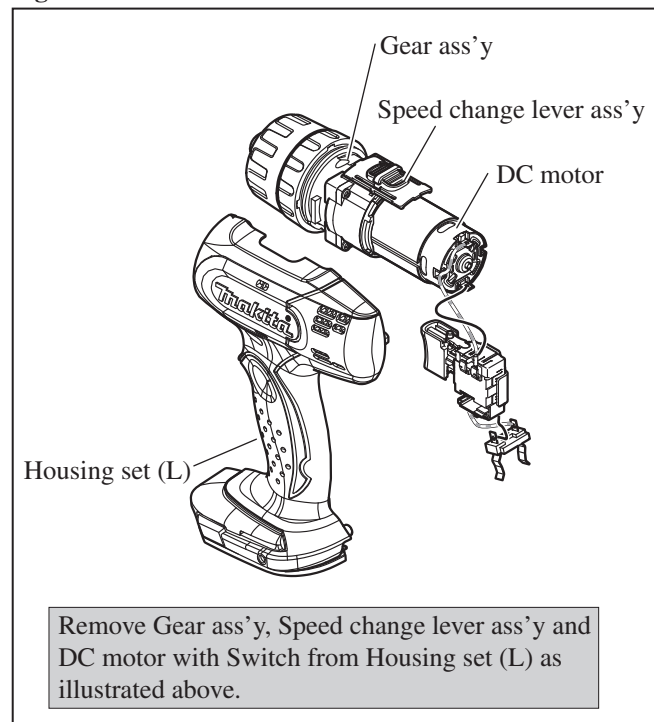
DISASSEMBLING

- (1) Remove Keyless drill chuck.
- (2) Gear ass'y and DC motor can be disassembled in the order of **Figs. 2 to 6.**

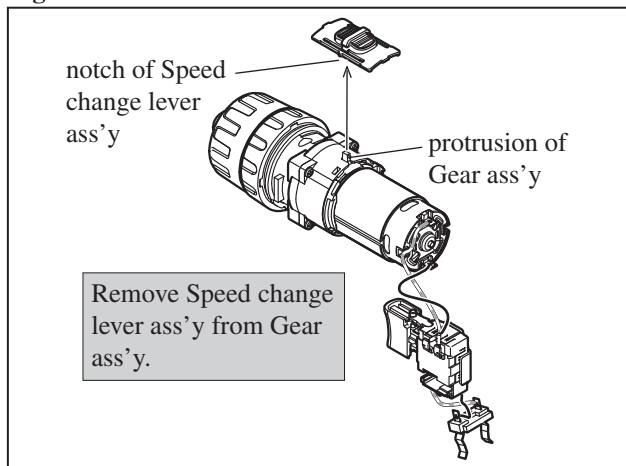
**Fig. 2**



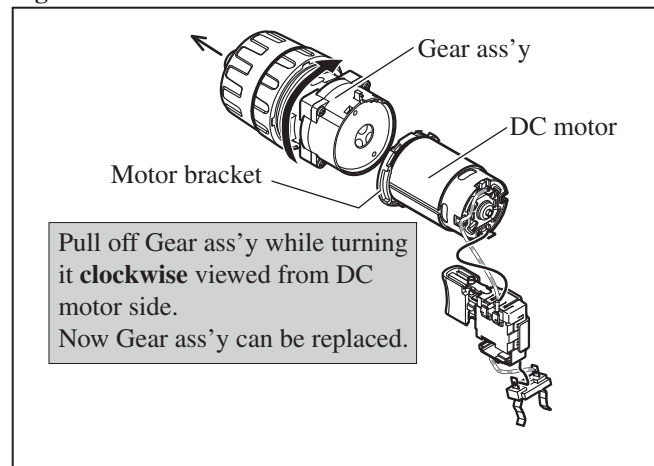
**Fig. 3**



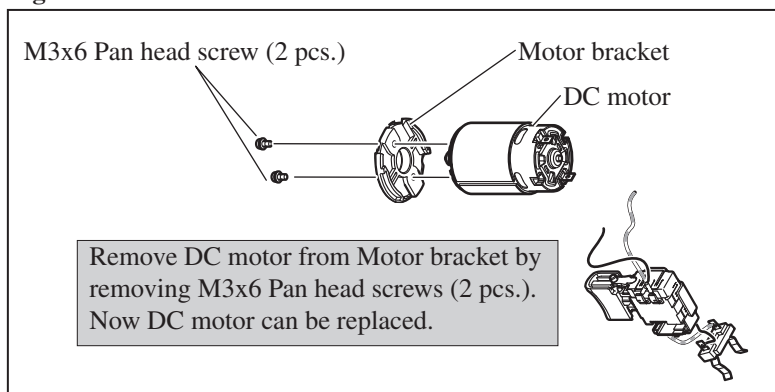
**Fig. 4**



**Fig. 5**



**Fig. 6**



## ► Repair

### [3] DISASSEMBLY/ASSEMBLY

#### [3]-2. Gear Ass'y and DC Motor (cont.)

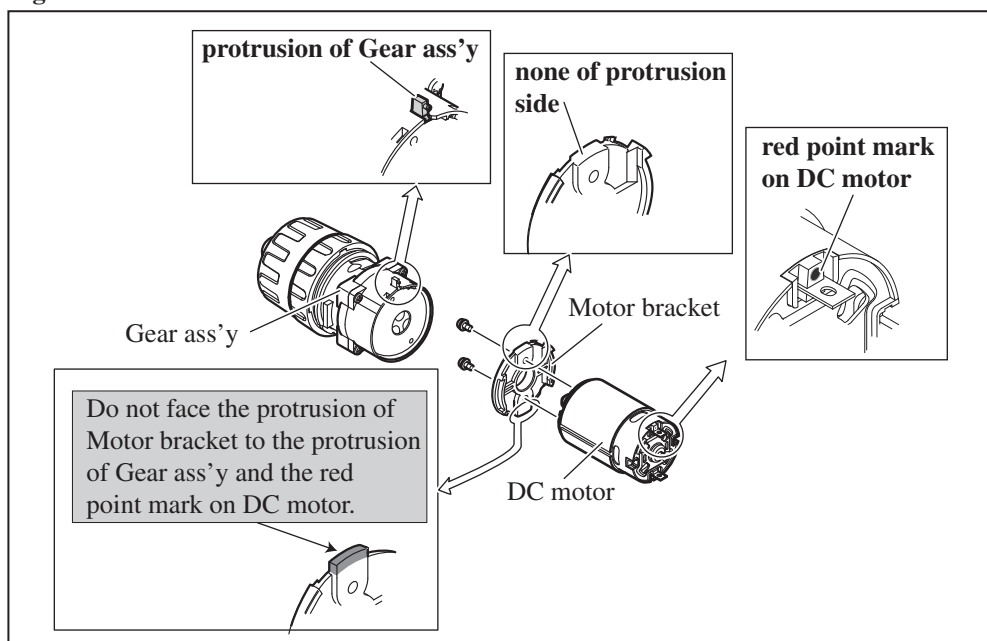
##### ASSEMBLING

Do the reverse of the disassembling steps.

The following portions of DC motor, Motor bracket and Gear ass'y have to face the same side. (Fig. 7)

- \* Red point mark (designated as plus terminal) on DC Motor
- \* None of protrusion side of Motor bracket
- \* protrusion of Gear ass'y

Fig. 7



#### [3]-3. Speed Change Lever

##### ASSEMBLING

- (1) When assembling Speed change lever ass'y, make sure that Compression springs 4 (2 pcs.) are assembled to its bottom in advance. (Fig. 8)
- (2) Fit the protrusion of Gear ass'y into Compression spring 4 in Speed change lever ass'y. (Fig. 9)
- (3) After mounting, set Speed change lever ass'y to low speed mode or high speed mode. (Fig. 10)

Fig. 8

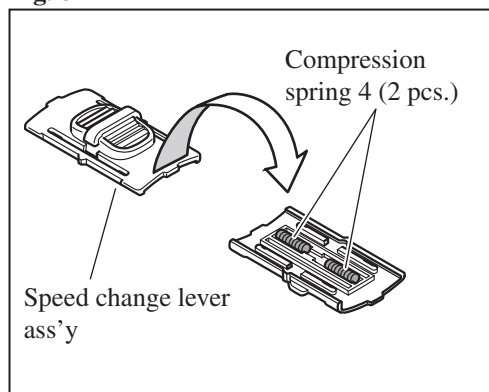


Fig. 9

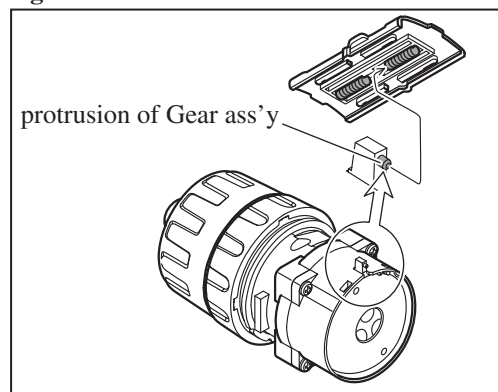
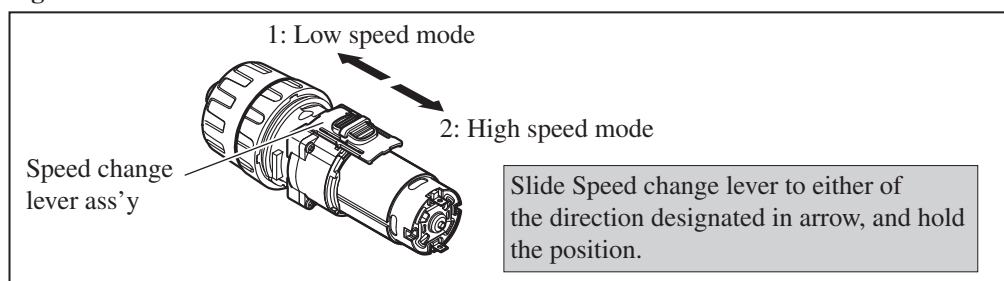


Fig. 10



## ► Repair

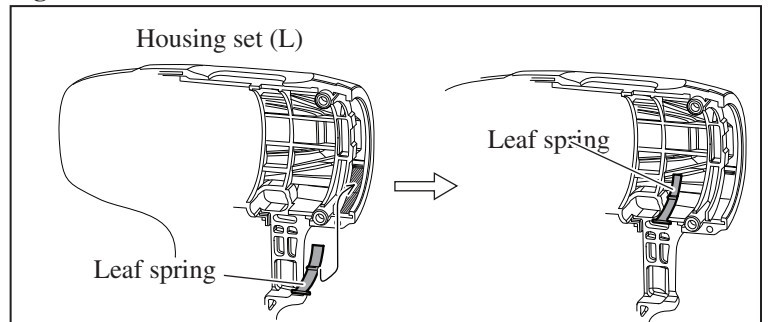
### [3] DISASSEMBLY/ASSEMBLY

#### [3]-4. Leaf Spring

##### ASSEMBLING

Leaf spring has to be mounted to Housing set (L) as illustrated in **Fig. 11** before assembling Gear ass'y and DC motor.

**Fig. 11**

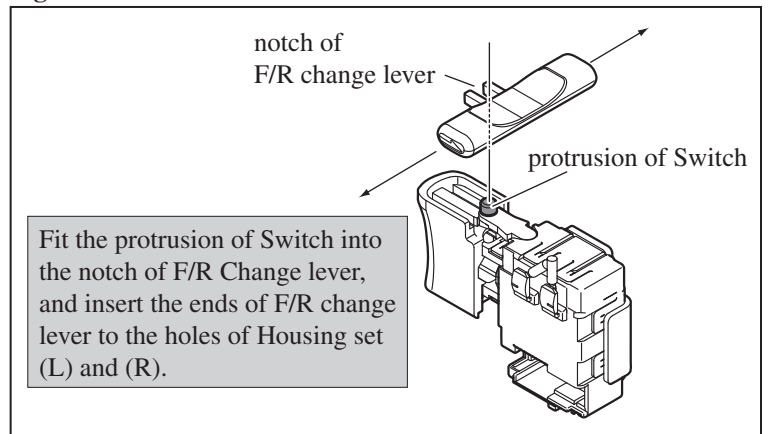


#### [3]-5. F/R Change Lever

##### ASSEMBLING

F/R Change lever can be assembled to Switch as illustrated in **Fig. 12**.

**Fig. 12**



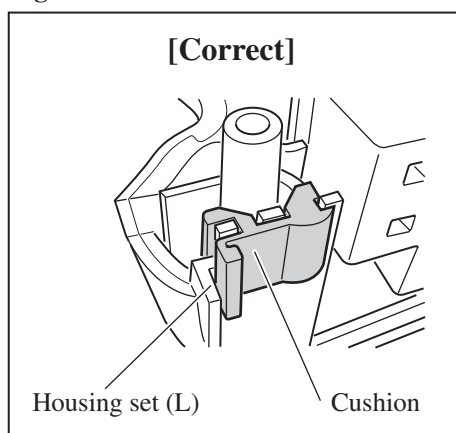
#### [3]-6. Cushion

##### ASSEMBLING

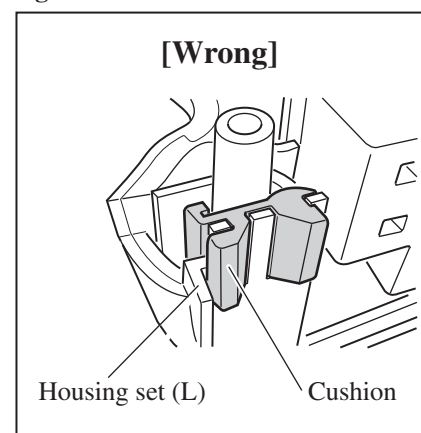
Be sure to install Cushion into Housing set (L) as illustrated in **Fig. 13R**.

**Note:** **Fig. 13F** is the wrong installation. Pay attention to the direction.

**Fig. 13R**

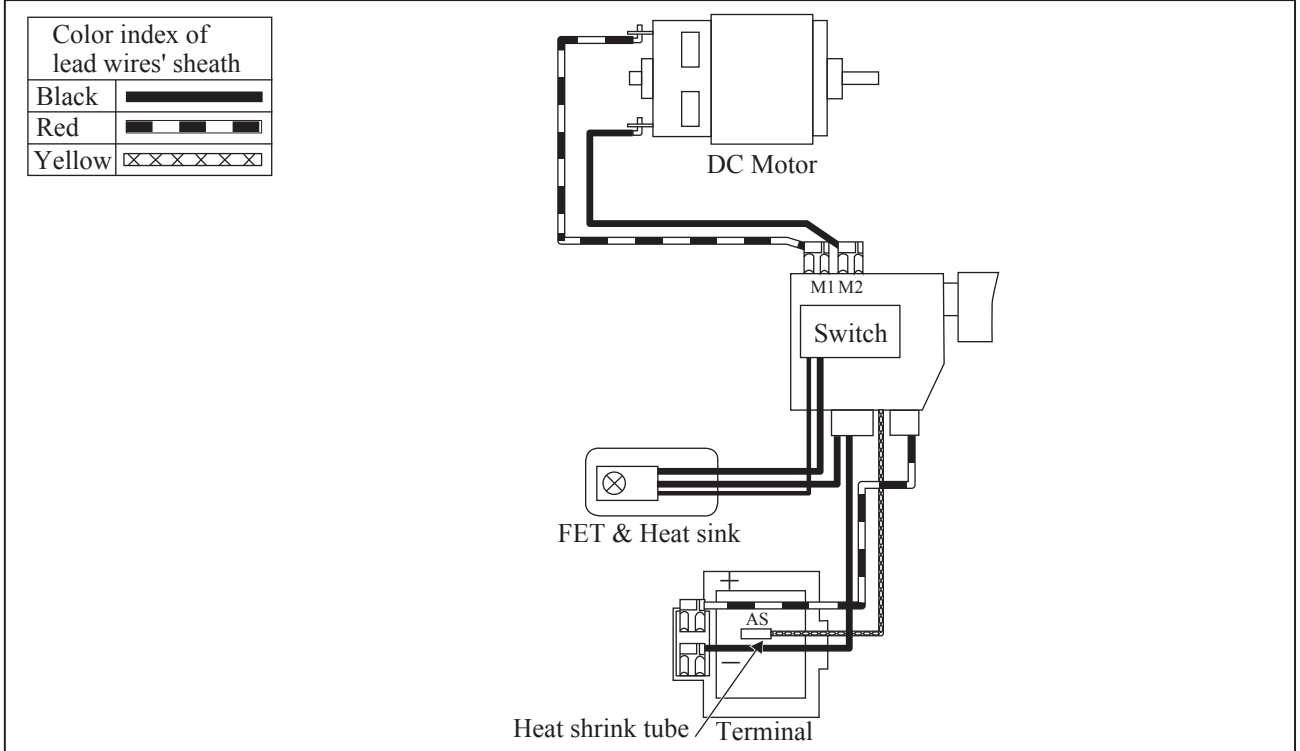


**Fig. 19F**



## ▶ Circuit diagram

Fig. D-1



## ▶ Wiring diagram

Fig. D-2

