

T ECHNICAL INFORMATION



PRODUCT

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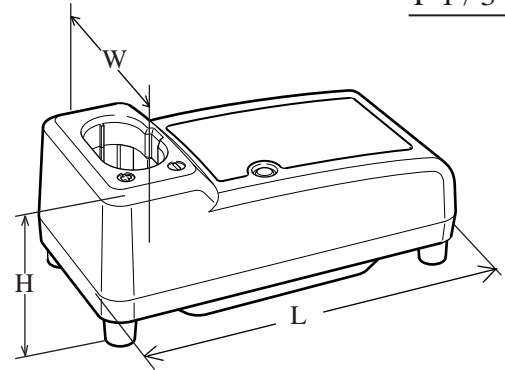
Models No. ▶ DC1804

Description ▶ Charger

CONCEPTION AND MAIN APPLICATIONS

Multi voltage charger DC1804 is the renewed model of DC1803. Its features and benefits are

- (1) Approx. 10-20 minutes shorter charging time in comparing with DC1801.
- (2) Maintenance (trickle) charging system keeps the full charged condition for 24 hours, even if the battery is left in this charger after finishing of charging process.
- (3) Downsized ; The dimensions have been reduced to those of DC1413.



Dimensions : mm (")	
Length (L)	193 (7-5/8)
Width (W)	92 (3-5/8)
Height (H)	78 (3-1/16)

▶ Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output(W)
			Input	Output	
110 - 120	/	50 / 60	75	/	
120		75			
220		75			
220 - 240		75			
230 - 240		75			

Output voltage DC : V		7.2	9.6	12	14.4	18
Output current : A		2.6				
Charging time : min.	for 1.3Ah Ni-Cd. battery	Approx. 30				
	for 2.0Ah Ni-Cd. battery	Approx. 45				
	for 2.2Ah Ni-MH. battery	Approx. 50				
	for 2.6Ah Ni-MH. battery	Approx. 60				
	for 3.0Ah Ni-MH. battery	Approx. 70				
Protection against electric shock	110V - 120V	grounding (earthing)				
	220V - 240V	double insulation				
Cord length : m (ft)		2.0 (6.6)				
Net weight		0.39 (0.86)				

< Note > The above figures about charging time may differ from condition to condition on batteries' temperature or room temperature.

► Repair

< 1 > The circuit board cannot be repaired, because the circuit itself is molded on the board .

It has to be replaced entirely with new one.

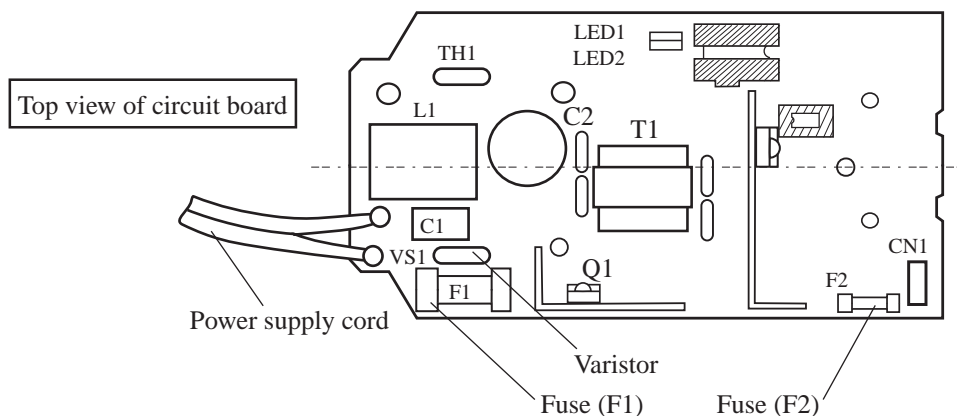
< 2 > In case of damaged varistor or fuse, they can be repaired according to the following procedure without replacing the circuit board.

(1) How to find broken varistor

- In case that the surface of varistor has broken or has become black, and fuse (F1) has been disconnected, the varistor has been damaged.
- Varistor can be damaged easily, if the charger is plugged in a double voltage of the rating one.
- In case of no damaged varistor but disconnected fuse (F1), the charger can be broken for other reason. The circuit board has to be replaced in this case.

(2) How to find broken fuse (F2)

- If the charging light flashes alternately red and green, when the battery has been inserted into the charger connected with power source, fuse (F2) may be broken.
- If the easily conductive material other than battery would be connected with charger's terminals by mistake, fuse (F2) can be easily broken by short circuit in the charger.
- In case of no damaged fuse (F2) but charging light flashing alternately red and green, the charger can be broken for other reason. The circuit board has to be replaced in this case.



(3) Replacing damaged varistor

- a. Varistor is assembled on circuit board with solder. Remove it from circuit board with soldering iron.

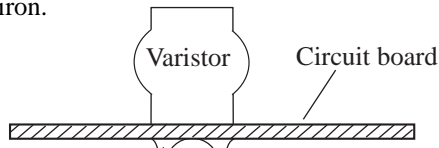


Fig.2

When removing varistor, melt this part with soldering iron and remove varistor.

- b. Assemble new varistor to the circuit board by soldering.
- c. Cut the surplus of varistor's wire with nipper.

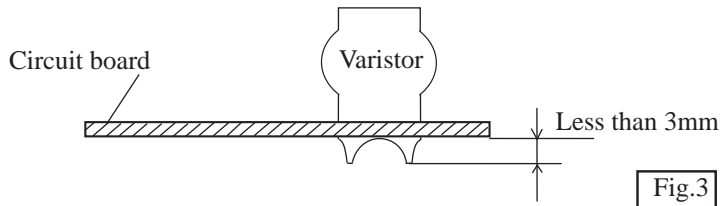


Fig.3

(4) Replacing damaged fuse

- a. Fuse is assembled on circuit board with solder. Remove it from circuit board with soldering iron.
- b. Assemble new fuse to the circuit board by soldering.
- c. Cut the surplus of fuse's wire with nipper.

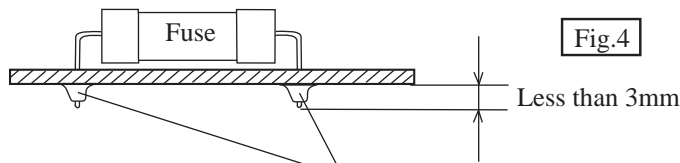


Fig.4

When removing fuse, melt this part with soldering iron and remove fuse.