

8. About Ni-Mh battery.

Because of the characteristics of Ni-Mh battery, it may stop charging before complete charge. In this case, restart charging.

A Caution

*The charging has completed if Ni-Mh is warm. *Do not charge batteries while they are still warm. Be sure to charge if they have cooled. *Ni-Mh batteries cannot be charged if Triplex Auto Charger or Boost Commander Unit is installed with BX-213MH charger.

9. LCD Error Display

If an abnormality arises, and error is displayed on the LCD and the alarm sounds; if charging is in progress, charging is interrupted. Afterwards pressing any button returns the display to the normal screen and charging can be restarted. However, if the cause of the original error is not resolved, the same error will be displayed.

LCD Display	Error 01	Error 02	Error 03	Error 04	Error 05	Error 06	Error 07
Description of problem	The source supply voltage is 10V or less.	The source supply voltage is 25.6V or more.	The charging current is 10A or more.	There is a problem with the electronic circuitry.	The battery is not connected or the connections are reversed.	The charging capacity has been exceeded.	The battery voltage is 19.9 or more.
The First Action to be taken	Adjust the source supply voltage to 11-16V.	Adjust the source supply voltage to 11-16V.	Disconnect the battery immediately.	Send the unit in for repairs.	Make sure to connect correctly.	Select Ni-Mh mode for charging 5000 mAh battery.	Contact to us
The Second Action to be taken					Contact to us		
Alarm sound	Three beeps	Three beeps	One long beep	One long beep	No sound	Four short beeps	Four short beeps

10. Extension Terminal

The extension terminal can be used with additional equipment. Please see instruction manual for connection procedures.

*DX-102 Level can be used for refresh charging (discharge - charge), cycle charging (charge - discharge) automatically.

*For connection optional Power Link Cord must be used.

*Triplex Auto Charge Unit can be used for three batteries to charge automatically.

*Ni-Mh batteries is not suitable with Triplex Auto Charge Unit.

*Boost Commander Unit can be used for topping up cells automatically.

*Ni-Mh batteries is not suitable with Boost Commander Unit.

11. Q&A

The following are explained in the Q&A section to solve any problems.

Q.1 Can not switch charging mode and start to charge.

Be sure to press both Start and Select button correctly.

Q.2 Does rapid charging shorten the service life of a battery?

As long as the charging current is set properly, the service life of the battery will not be shortened.

Q.3 How long does charging time normally take?

Varies according to battery capacity and charging current. For a 1000mAh battery is about 1 hour. Time is 30 minutes if the charging current is 2A. However, faster charging will reduce operating time per charge.

Q.4 What does it mean when charging is completed but the displayed charge is less than the capacity indicated on the LCD?

When a battery is charged while it still has some charge remaining, the amount of charge that was added as indicated on the charge will differ from the capacity shown on LCD.

Q.5 What does it mean when charging is completed but the displayed charge is not same as the capacity indicated on the LCD?

When a battery is charged while it still has some charge remaining or restarted charging, will differ from the capacity shown on LCD.

Q.6 Why does charging sometimes stop before it is completed?

If no error message was displayed, then charging has basically been completed. If the battery is old and the cell capacity fluctuates, the delta peak may be generated for some of the cells before all of the cells are fully charged, which would cause the charger to terminate the charging process. Also Ni-Mh battery may cause stop charging immediately after charging has started because of the nature of Ni-Mh battery which initial voltage fluctuates.

Q.7 Why do strange characters sometimes appear on the screen?

This happens when the internal computer is not operating properly. Disconnect the power source, wait one minute, and then connect the power supply again.

Q.8 What is 'Memory Effect'?

If a battery is repeatedly charged before it is fully discharged, the 'memory effect' occurs, which results in reduced capacity. Use of a discharger is recommended in order to prevent this phenomenon from occurring.

Q.9 What should I do if charging is interrupted and an error message appears?

Check the meaning of the error and then take the appropriate action.

Q.10 Is there a problem if sparks appear when I connect the power supply or a battery?

This does not indicate a problem.

Q.11 What should I do if the charger doesn't work?

Make sure that the power supply is connected properly, make sure that the fuse has not been blown, and check the supply voltage.

Q.12 What causes the fuse to blow?

The fuse blows if the power supply connections are reversed.

Q.13 What is the flickering on the LCD that occurs during charging?

This is not a symptom of problem. The flickering can be diminished by reducing the LCD contrast.

12. Requesting Repair Service

* If a problem arises with the charger, either as a result of accident or as a result of natural wear, and you send it in for repair, describe the problem in as much detail as possible.

Doing so will allow our technicians to pinpoint the cause of the problem faster, reducing the length of time that we will have to hold the unit for repairs.

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