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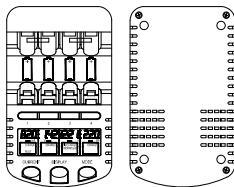
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BATTERY CHARGER BC-9009U
Instruction Manual

INTRODUCTION:

Congratulations on purchasing this intelligent charging unit which enables quick and optimum charging to "AA" and "AAA" rechargeable batteries. With charging, discharging, refreshing and capacity test functions as well as individual LCD displays for charging compartments; this charging unit is reliable, user-friendly and ideal for use in the home, office or on a journey.

The Charging unit



CAUTIONS:

1. The charger is restricted to **charging NiCd and NiMH rechargeable batteries only**. Never use this charger for other types of batteries such as alkaline, lithium, carbon zinc or other types that are not specified.
2. The charging unit should only be used at normal indoor room conditions.
3. Always follow the charging instructions for the rechargeable battery. Observe the recommended charging current of the rechargeable batteries. Never use a charging current higher than recommended in the charging process.
4. Never use any power cable and transformer other than those originally supplied with the charging unit.
5. The rechargeable batteries may become hot during charging (especially when a high charging current is chosen). User should take extra care when taking out the batteries after charging.
6. Unplug the charging unit from the power source when not in use.

FEATURES:

The Charging unit

- Charging rechargeable batteries in various currents (200, 500, 700 or 1000 mA). The

- charging current can be set up to 1500 or 1800 mAh when two batteries are charged.
- Fast charging – 70 mins to charge up 2000 mAh batteries
- Individual LCD display for all compartments
- Charging both "AA" and "AAA" rechargeable batteries simultaneously
- Overheat detection to protect rechargeable batteries from over-charging
- Minus delta voltage (-dV) detection for charge termination
- Damaged batteries detection
- Discharge mode (first discharging and then charging) to remove memory effect of rechargeable batteries
- Refreshing old rechargeable batteries by discharging/ charging cycles
- Test function to check the capacities of rechargeable batteries
- Charging/ Discharging functions can be launched independently and simultaneously to each rechargeable battery in the compartments
- Various display modes during charging/ discharging – the charging current (in mA), time elapsed (in hh:mm), the terminal voltage (in V) and accumulated capacities (in mAh or Ah)

INVENTORY OF CONTENTS

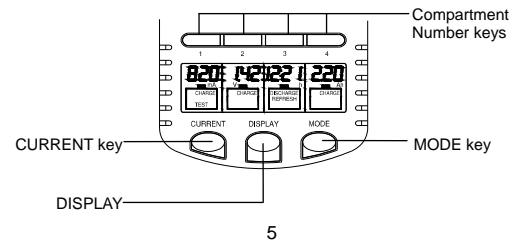
- Charging unit

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- Transformer
- Size "C" battery adapter & Size "D" battery adapter (Total of 4 Adapters)
- Holding Bag
- "AA" rechargeable battery (4) & "AAA" rechargeable battery (4)
- Instruction Manual

FUNCTION KEYS:

There are three easy-to-use function keys and four number keys on the charging unit:



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Compartment Number key

Press and release the Number key to select a particular battery compartment for charge modes and/or display mode adjustment.

MODE key

The mode key shall first be pressed and held for about 1 second to activate the mode change. The subsequent pressing of the mode key will toggle between the "Charge", "Discharge", "Test" and "Refresh" mode. To change the operating mode for an individual rechargeable battery, first press the corresponding NUMBER key then press the MODE key.

DISPLAY key

Press and release to select the displays of the charging current (in mA), time elapsed (in hh:mm), the terminal voltage (in V) and accumulated capacities (in mAh or Ah) during the charging or discharging process.

To change the display content of a particular rechargeable battery, first press the corresponding NUMBER key then press the DISPLAY key.

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CURRENT key

Press to select the amount of current to be applied (within the first 8 seconds after batteries are inserted) in different operating modes (also see "Start charging the rechargeable batteries" below).

OPERATING MODES OF THE CHARGING UNIT

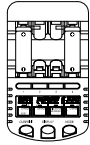
This powerful charging unit provides the following operating modes:

- Charge the rechargeable battery (**CHARGE**) – to charge the rechargeable battery, automatically switches to trickle charge after the rechargeable battery is full.
- Discharge then charge the rechargeable battery (**DISCHARGE**) – to discharge the rechargeable battery then charge it to minimize the memory effect.
- Refresh the rechargeable battery (**REFRESH**) – to refresh the rechargeable battery to its maximum capacity by charging and discharging the rechargeable battery repeatedly until no further increase in the capacity is estimated. For old rechargeable batteries or those have not been used for a long time, refreshing may bring the rechargeable battery back to the optimum condition.
- Check the rechargeable battery capacity in mAh/ Ah (**TEST**)

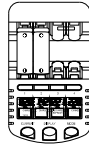
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CHARGE MODE

Charging at 200 mA is the default-operating mode of the charging unit. When only one or two rechargeable batteries are charged, provided that only compartment 1 and compartment 4 are used, a charging current up to 1500 or 1800 mA may be set by the pressing the CURRENT key. On the other hand, when charging three or four rechargeable batteries at the same time, user may select a charging current of 200, 500, 700 or 1000 mA.

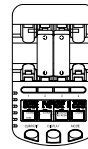


When charging two batteries at compartment 1 & 4 – max. charging current: 1800 mA

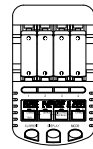


When charging two batteries at compartment 1 & 2 – max. charging current: 1000 mA

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When charging two batteries at compartment 2 & 3 – max. charging current: 1000 mA



When charging four batteries – max. charging current: 1000 mA

The estimated time of charging by various charging current is tabulated in Table 1.

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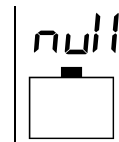
Size of battery	Battery Capacity	Charging current selected (mA)	Estimated charging time
AA	2600 mAh	1800	~80 min
		1500	~100 min
		1000	~2 hr 30 min
		700	~3 hr 30 min
		500	~5 hr
		200	~12 hr
AA	2000 mAh	1800	~70 min
		1500	~80 min
		1000	~2 hr
		700	~3 hr
		500	~4 hr
		200	~10 hr
AAA	1000 mAh	700	~70 min
		500	~1 hr 40 min

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		200	~4 hr
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Note:

- User shall always observe the recommended maximum charging current of the rechargeable batteries. In general, 200 mA is a recommended charging current if rapid charging is not necessary. It is definitely safe and optimum to the rechargeable batteries.
- It may be necessary to charge and discharge the new rechargeable batteries several times in the beginning before the optimum capacity of the rechargeable batteries can be obtained. It is recommended to use the "Refresh" mode for new rechargeable batteries in order to achieve the optimum battery capacity.
- When the transformer has been plugged into the power source, the version number of the charger (for example "33") will be displayed first. Then all the segments will light up momentarily and the "null" sign will be shown before batteries are placed. If damaged batteries are placed into the charging unit, the charger will also show "null" on LCD.



"null" displayed - No battery or damaged battery is placed to the charging unit

START CHARGING THE RECHARGEABLE BATTERIES

Once a rechargeable battery is inserted after the transformer has been plugged into the power source, the battery voltage (for example, "1.39V") will be displayed for 4 seconds. Then "200 mA Charge" (default mode) will be shown on LCD for another 4 seconds, indicating that charging with 200 mA is to be started if no alteration in setting is made.

Within this 8-second time from inserting the batteries the user may first select the operating mode by the MODE key. "Charge", "Discharge", "Refresh" and "Test" mode may be chosen.

Then within 8 seconds from the last key pressing, user may select the charging/ discharging current by pressing the CURRENT key.

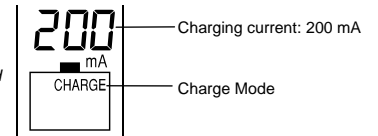
Note:

- The mode key shall first be pressed and held for about 1 second to activate the mode change. The subsequent pressing of the mode key will toggle between the "Charge", "Discharge", "Test" and "Refresh" mode.
- There is an 8-second time allowed for choosing further functions after each key pressing. If no more keys are pressed, the LCD will blink one time to indicate the end of

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setting. Afterward, the current can no longer be changed during the process and the selected mode will begin.

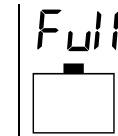
After 8 seconds from the last key press, the LCD will blink once to indicate the setting is confirmed and the selected mode is activated



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During charging, the different displays- Charging current (in mA), Time elapsed (in hh:mm), Terminal voltage (in V) and Accumulated capacities (in mAh or Ah) may be toggled and selected by pressing the DISPLAY key (refer Table 4). After the rechargeable battery is fully charged, "Full" will be shown on the display and the user may take out them at this time. If the rechargeable batteries are left in place in the compartments, trickle charging will start. The trickle charging current is around 5% of the selected charging current to keep the rechargeable batteries full.

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"Full" sign is shown -The battery is fully charged

Note :

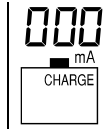
- The current cannot be altered once the setting has been confirmed in the initial stage. This prevents the user from changing the current setting accidentally while setting other rechargeable batteries. If one wants to change the applied current afterward, the rechargeable batteries must be taken out and inserted again.
- The maximum charging current of the other rechargeable batteries is restricted by the current setting of the first inserted rechargeable battery. For instance, if the first inserted rechargeable battery is set to charge at 700 mA, then the second, third and

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fourth rechargeable batteries can be only set to charging at a maximum current of 700 mA.

Therefore, the user is advised to place the battery with the highest expected charging current in Compartment 1 first. To release the restriction of setting charging current, user must take out all four rechargeable batteries from the charging unit.

- To change the operating mode during charging, one can press the MODE key (for selecting all rechargeable batteries) or NUMBER key then MODE key (for selecting individual rechargeable battery). 8 seconds after the last key press the LCD will blink one time to indicate the end of changing.
- When overheating conditions occur (over about 127°F (53°C)), usually due to too high a charging current selected, the charging will be stopped immediately and the display will read "000 mA", the charging process will only resume once the temperature of the rechargeable batteries drops to a safe level. If overheating conditions continue to occur, the rechargeable batteries must be taken out to cool down and then charged at a lower current.



When the battery is overheated the charging will cease automatically. "000 mA" will be displayed.

- For a new rechargeable battery it is recommended to charge it with 200 mA current to re-condition it from the long storage status.

DISCHARGE MODE

Discharge mode will first discharge the rechargeable battery then charge it. It is for removing the memory effects of rechargeable batteries.

By pressing the MODE key within 8 seconds after inserting the rechargeable batteries, the Discharge mode can be selected. Then the user may also select different discharging current (see Table 2) by pressing the CURRENT key, within 8 seconds after inserting the batteries. (The display will blink once to indicate the setting has been confirmed and the current cannot be changed afterward.)



Discharging current: 250 mA

Discharge Mode

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Note:

- The discharging current is always set to be half of the coming charging current whose upper limit is 1000 mA (see Table 2). Therefore the user is recommended to carefully select the discharging current so that the charging current afterward will not be too high.
- The mode key shall first be pressed and held for about 1 second to activate the mode change. The subsequent pressing of the mode key will toggle between the "Charge", "Discharge", "Test" and "Refresh" mode.

Table 2. DISCHARGE MODE Current

User-selected Discharging current	100 mA	250 mA	350 mA	500 mA
Thereafter Charging current	200 mA	500 mA	700 mA	1000 mA

Finally, batteries will be fully charged in discharge mode and "Full" will be displayed. If the user presses the DISPLAY key at this time, "charge" icon instead of "discharge" icon will be

displayed.

REFRESH MODE

Old rechargeable batteries and those that have not been used for a long time require refreshing. This process will recover the optimum capacity of the rechargeable batteries. By pressing the MODE key within 8 seconds after inserting the rechargeable batteries, the Refresh mode can be selected.

Refresh mode will start with discharging the rechargeable battery, then charging it. The repeated discharging and charging cycles will be launched until no further increase in the measured capacities is estimated.



Discharging current: 250 mA

Refresh mode (the battery is being discharged)

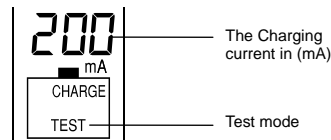
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Note:

- By pressing the MODE key within 8 seconds after inserting the rechargeable batteries, the Refresh mode can be selected. (The mode key shall first be pressed and held for about 1 second to activate the mode change. The subsequent pressing of the mode key will toggle between the "Charge", "Discharge", "Test" and "Refresh" mode.) Then the user may also select different discharging current by pressing the CURRENT key (see "Note" in Discharge mode and Table 2), within 8 seconds after inserting the batteries. (Or the display will blink once to indicate the end of setting and the current cannot be changed afterward.)
- It may take up to several days to finish the refreshing process, depending on the selected discharging current.
- The maximum refresh current is 1000 mA and is not affected by the number of rechargeable batteries inserted.

TEST MODE

In the Test mode the rechargeable batteries will first be fully charged and then discharged to determine the capacities. Finally, the rechargeable batteries are charged up again and the capacity in (mAh) of (Ah) will be estimated and shown after the discharging ends. By pressing the MODE key within 8 seconds after inserting the rechargeable batteries, the Test mode can be selected. (The mode key shall first be pressed and held for about 1 second to activate the mode change. The subsequent pressing of the mode key will toggle between the "Charge", "Discharge", "Test" and "Refresh" mode.)



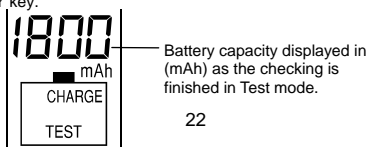
Note:

- After selecting the Test mode the user may select different charging currents in the Test mode by pressing the CURRENT key, within 8 seconds after the batteries are

inserted. The afterward-discharging current will be half of the selected charging current (see Table 3).

User-selected Charging current	200 mA	500 mA	700 mA	1000 mA
Thereafter Discharging current	100 mA	250 mA	350 mA	500 mA

- The maximum charging current is 1000 mA and is not affected by the number of rechargeable batteries inserted.
- After the test mode is finished, the display will shift between the "Full" sign and the battery capacity (in mAh or Ah) automatically in 3-second intervals until the rechargeable batteries are removed. The user can switch to other displays by pressing the DISPLAY key.



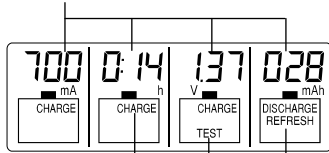
TRICKLE CHARGING

After the rechargeable battery is fully charged in any of the operating modes, the charger will give a small amount of current to the rechargeable batteries to maintain the fully charged level. This mode is automatically launched after rechargeable batteries are fully charged and kept in the charging unit. The signal "Full" will be displayed on the LCD.

DISPLAY MODE INFORMATION

The user can use different display modes to monitor the rechargeable battery condition during the different operations (see below figure and Table 4 to 7).

Different display modes are exhibited: Charging current, Time, Voltage and Capacity



Different operating modes

Stage in Charge mode	Various displays (toggled by pressing DISPLAY key)			
	Voltage (V)	Current (mA)	*Time (hh:mm)	Capacity (mAh/ Ah)
During charging	Instantaneous Battery voltage	Charging current	Charging time elapsed	Accumulated capacity
Full stage		Trickle charging current		

Stage in Discharge mode	Various displays (toggled by pressing DISPLAY key)			
	Voltage (V)	Current (mA)	*Time (hh:mm)	Capacity (mAh/ Ah)
During discharging	Instantaneous Battery voltage	Discharging current	Discharging time elapsed	Capacity during discharging
During charging		Charging current	Charging time elapsed	Accumulated capacity
Full stage		Trickle charging current		

Stage in Refresh mode	Various displays (toggled by pressing DISPLAY key)			
	Voltage (V)	Current (mA)	*Time (hh:mm)	Capacity (mAh/ Ah)
During discharging processes	Instantaneous Battery voltage	Discharging current	Discharging time elapsed	Capacity during discharging
During charging processes	Instantaneous Battery voltage	Charging current	Charging time elapsed	Capacity determined in last time discharging
Full stage	Instantaneous Battery voltage	Trickle charging current	Elapsed time of last discharging	Maximum battery capacity determined in discharging

Table 7. Various displays in Test Mode				
Stage in Test mode	Various displays (toggled by pressing DISPLAY key)			
	Voltage (V)	Current (mA)	*Time (hh:mm)	Capacity (mAh/ Ah)
During charging	Instantaneous Battery voltage	Charging current	Charging time elapsed	"--- mAh"
During discharging		Discharging current	Discharging time elapsed	"--- mAh"
During 2nd charging		Charging current	2nd charging time elapsed	Capacity of the battery determined in discharging
Full stage		Trickle charging current	Discharging time elapsed	Capacity of the battery determined in discharging

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Note:

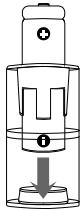
- *The timer will be resumed and counted from 00:00 again after the time elapsed is longer than 20 hours. (For example, 1:45 will be shown after the battery has been refreshed for 21 hr and 45 min.)
- In case the power source is shortly interrupted or terminated when the charger is being operated, the operational mode will automatically be set to "Charge mode at 200 mA" to charge up the battery once the power source is back to normal, regardless the operating mode (Charge, Discharge, Refresh or Test) which has been selected by user before.

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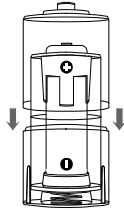
THE SIZE C AND SIZE D BATTERY ADAPTERS (FREE ACCESSORY)

The battery adapters are used for connecting the AA battery to devices requiring Size C or D batteries. To apply the adapter:

1. Install the AA battery into the Size C or Size D adapter as below.



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The AA battery used with the Size C adapter

The AA battery used with the Size D adapter (it is required to place the battery into the "C" adapter first)

2. Ensure the polarity is correct and the assembling ~~into the D adapter~~ *into the C adapter*

Note:

- User shall stop using the adaptor when there are any cracks or damages observed in the adaptor, and in case undesired smell comes out while applying the adaptor in certain kinds of battery operated devices.

CARE AND MAINTENANCE:

- Extreme temperatures, vibration and shock should be avoided as these may cause damage to the unit
- When cleaning the displays and casings, use a soft damp cloth only. Do not wet the exposed metal part of the charging unit. Do not use solvents or scouring agents as they may mark the LCD and casing.
- Do not spill water to the charging unit.
- Do not make any repair attempts to the units. Return it to its original point of purchase

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for repair by a qualified engineer. Opening and tampering with the units may invalidate its guarantee.

- Do not expose the unit to extreme and sudden temperature changes, this may lead to damage to the electronic parts in the unit.

SPECIFICATIONS:

Input voltage for AC/DC adapter	:	100-240 VAC but MUST have the proper adapter. Twisting prongs on a/c cord will only damage the unit.
Charging current range	:	200 mA - 1800 mA
Max charging capacity	:	3000 mAh
(capacity of rechargeable batteries)	:	
Dimensions (H x W x D)	:	5 x 3 x 1.5" (129 x 75 x 37.2 mm)

LIABILITY DISCLAIMER:

- The manufacturer and supplier cannot accept any responsibility for any improper or incorrect use and any consequences occur.
- Any performance of repairs or alternations by someone other than the original supplier will invalidate the warranty.

the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd and must be returned to La Crosse Technology, Ltd. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. La Crosse Technology, Ltd will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not covered by this warranty, or if a product is examined which is not in need or repair, you will be charged for the repairs or examination. The owner must pay any shipping charges incurred in getting your La Crosse Technology, Ltd product to a La Crosse Technology, Ltd authorized service center. La Crosse Technology, Ltd will pay ground return shipping charges to the owner of the product to a USA address only.

Your La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in your owner's manual; (5) damage resulting from the performance of repairs or alterations by someone other than an authorized La Crosse Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of

- This product is only designed to be used by people who have read and understood this instruction manual.
- The specifications of this product may change without prior notice.
- This product is not a toy. Keep out of the reach of children.
- No part of this manual may be reproduced without written consent of the manufacturer.

WARRANTY INFORMATION

La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures. Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd or La Crosse Technology, Ltd's authorized service center.

La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during

interference. This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to your State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

For warranty work, technical support, or information contact:

La Crosse Technology, Ltd
2809 Losey Blvd. S.
La Crosse, WI 54601
Phone: 608.782.1610

e-mail: support@lacrossetechnology.com
 (warranty work)
sales@lacrossetechnology.com
 (information on other products)

web:
www.lacrossetechnology.com

Question? Instructions? Please visit:
www.lacrossetechnology.com/9009

Quick Start for charging battery

Place battery in charger, plug it in, and let it sit for 10 hours.

Note:

The charger has many features like "conditioning" batteries which means discharging and charging. It is not recommended to condition batteries until after they have been charged and used 10 times.

Overview of Using Modes and Current Options

***Follow these steps left to right →							
Steps	Plug in	Place batteries in charger	Select mode... <i>Hold for 5-10 seconds to activate</i>	Select Charge to select current level	Display Blinks	To change or mode during charging	To Change amount of charge or current repeat all steps from beginning

notes			<i>Select: Charge Discharge Refresh Test</i>	<i>Current 200 to 1000, varies by number and type</i>	<i>Indicate no more chance to change</i>	<i>Press de MODE key (for all) or NUMBER key then MODE key for individual battery</i>	
		You have 8 seconds to select mode		You have 4 seconds		You have 4 seconds	

If you must switch batteries in your product before they die what mode would you use to charge?

--Refresh and charge...if you have several days
 --in a hurry just regular charge mode

How do you check battery condition?

Mode—test charge...

Display—Use battery rating...re-chargeable never go whole way so for Voltage check for a 1.5 you are looking at 1.2 to 1.4 For capacity on 2400 looking for about 1900 to 2100 (first time the capacity will be less like about 1700 to 1800).

Why after I charge the battery to Full, remove, and test is not longer says Full?

When you replace a charged battery it goes to trickle, and it can take from 1 to several hours to get back to a full charge depending on the condition of your battery.

What is the charger capacity?

Maximum charging capacity is 3000 mAh

My batteries are getting warm.

It is common for batteries to get warm will charging. The charger has a built in temperature sensor which will stop the charging cycle if it has become too hot. Charging may resume

when the battery has cooled.

Allow batteries to cool before placing into a product to be used.

I cannot change modes.

Within 8 seconds of installing a battery, press and hold the MODE button for 5-10 seconds to change modes.

Why does my display flash a number?

Your station will flash when first plugged in. If it continues to flash your a/c cord may be defective.

What type of batteries can I charge?

NiMH (Nickel Metal Hydride) or NiCd (Nickel Cadium) rechargeable batteries only may be used in this product. Charging other types of batteries may result in failure of the charger.

My battery reads "Null".

This charger requires at least .9v in the battery in order to charge it. If the battery is depleted below that point, you will not be able to charge it on this battery charger.

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You may want to invest in a small charger/holder that will bring the battery back above .9v when attached for 20-30 seconds. The battery can then be charged in our charger.

Why do my new batteries not show full capacity?

Due to storage and shipping times, you should charge your batteries fresh out of the package. All rechargeable batteries need to be used in a product "under load", then charged, used, charged, at least 5 times or more to reach full capacity. Batteries sitting in storage may lose some charge over time.

It is not recommended to "condition" batteries until after they have been charged and used 10 times.

As you use your batteries they will gain greater capacity and last longer. It is common for your batteries to run down quickly at first.

Storing batteries

Store between 40 and 80 degrees F. Do not refrigerate.

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Batteries will self-discharge if left unused. If unused for 30-60 days they may completely deplete of power after long storage.

NiMH batteries should be stored fully charged and recharged every 30 days to keep in peak capacity.

NiCd batteries should be stored fully discharged.

Do not "store" batteries in the charger.

How do you charge the smaller AAA battery?

Just place it in the smaller tabs in the charger.

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