



# [59-Minute Charger]

For AA/AAA Rechargeable NiMH Batteries

Please read and follow all instructions before using this product.

## IMPORTANT WARNING:

This device is designed to **charge** or **test** rechargeable **NiMH** AA or AAA batteries **ONLY** !  
Inserting any other type of battery may damage the device, destroy the battery and cause injury to the user.

## CAUTION:

- \* Always unplug the charger when the charger is not in use.
- \* Always unplug the charger from the power source before cleaning the charger.
- \* Always replace frayed or damaged wire and broken plugs immediately.
- \* Do not use, place or store the charger where it may come into contact with water or moisture.
- \* Do not use the charger in a car when the car is unattended or place the charger in direct sunlight.
- \* Do not short-circuit the metal contacts of the battery and charger.
- \* Do not disassemble, deform or reconstruct any part of the charger.
- \* Use this charger **ONLY** with the AC adapter (and car lighter cord if supplied) included in the package.

## OPERATING INSTRUCTIONS:

1. Connect the barrel plug end of the AC adapter (or car lighter cord) into the rear end of the charger and the opposite end into any standard AC wall outlet (or the cigarette lighter receptacle of a vehicle with a 12V battery, if the car lighter cord is supplied). All three LEDs on this charger will light up quickly to indicate the power is connected properly.
2. When inserting batteries into the charger, refer to the embossed diagram inside each battery slot. Insert the batteries into the charger with the correct direction of polarity. To protect the user and batteries, the charger will NOT charge the batteries if they are placed into the charger with reversed polarity.
3. There are two separate charging channels built into this fast charger. Each channel quick-charges two AA or AAA batteries with a series connection.
4. The 2-color LED above the letter "A" is the charging indicator for the pair of AA/AAA batteries on the left. The 2-color LED above the letter "B" is the charging indicator for the pair of AA/AAA batteries on the right. (See Fig.1)
5. When two batteries are inserted into a charging channel, the LED will appear RED and charging will begin. As soon as the batteries are fully charged, the LED indicator will turn GREEN.
6. If the LED indicator turns RED and flashes, the batteries may be short-circuited or faulty. Remove the batteries and insert them into the charging slot again. If the LED still flashes RED, the batteries should be replaced.
7. After the batteries are fully charged, the charger will automatically switch to trickle charge mode to protect your batteries from over-charging and to maintain the batteries at maximum capacity for use at any time.
8. The two charging channels in this charger can work independently or together, resulting in eight different battery charging configurations. (See Fig. 2)

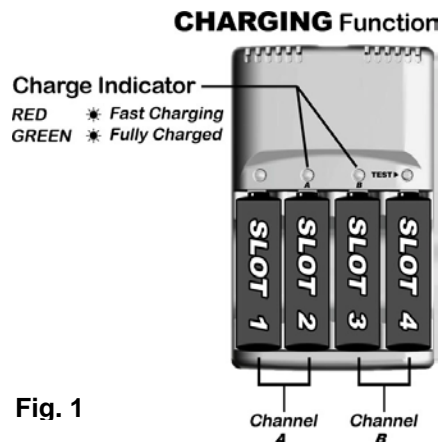


Fig. 1

Fig. 2



Available Charging Options.

9. For best results, please be sure the pair of batteries to be charged in this charger are the same brand and capacity rating, and are placed together in the same charging channel.
10. This battery charger is also designed to function as a BATTERY TESTER for rechargeable NiMH AA or AAA batteries.

**TO CHECK THE REMAINING POWER IN YOUR BATTERY, PLEASE REFER TO FIG. 3 BELOW AND FOLLOW ALL STEPS.**

### TESTING Function



Fig. 3

- 1) Place the battery you wish to test in the TESTER SLOT.
- 2) Push the TEST button.
- 3) All of the Red LEDs will flash simultaneously to indicate the charger is in the TEST mode.
- 4) After a few moments, one, two or three LEDs will light to indicate the remaining power in your battery (see below). If no LEDs light, your battery is empty.

BATTERY STATUS	LED INDICATORS
<b>EMPTY</b>	○ ○ ○
<b>LOW</b>	● ○ ○
<b>MED.</b>	● ● ○
<b>HIGH</b>	● ● ●

▲ **TESTER SLOT**

Only the battery placed in the TESTER SLOT is being tested.  
Multiple batteries must be tested individually.

### IMPORTANT NOTES:

1. All batteries will naturally discharge themselves over time even if they are not in use. To prolong their service life, it is recommended that you do not let a battery sit idle for more than two months without recharging. Be sure to recharge your batteries before you use them.
2. Batteries, AC adapter and the charger will get warm during charging. This is normal.
3. Always insert the battery into the charger with the correct polarity.
4. Batteries will not charge if there is only one AA or AAA battery inserted into either of the two charging channels in this charger.
5. Always keep metal contacts on both charger and battery clean by wiping the surfaces with a dry, soft and clean cloth.
6. Remove your batteries from the device (digital camera, music player or other portable electronic device) after use. These devices will continue to drain a small amount of current from your batteries even if the device is turned off.
7. The approximate charge time required for each type of battery is estimated as below :

Battery Capacity	Approx. Charge Time	Battery Capacity	Approx. Charge Time
2-4 pcs of AA 2500mAh	59 minutes	2-4 pcs of AAA 900mAh	56 minutes
2-4 pcs of AA 2300mAh	54 minutes	2-4 pcs of AAA 800mAh	50 minutes
2-4 pcs of AA 2000mAh	47 minutes	2-4 pcs of AAA 550mAh	34 minutes

8. Batteries should always be stored properly in the storage box included with this product. Storage in any other manner can cause the batteries to short or be otherwise damaged, leading to explosion or other potentially dangerous conditions.

## **TROUBLE SHOOTING:**

**If the RED (charge) LED indicator does NOT light up when the charger is plugged into a power source and the batteries have been inserted:**

- \* The battery may not be properly inserted. Unplug the charger from power source and check to make certain the batteries are seated properly.
- \* Check and make sure metal contacts on both charger and battery are clean.

**If the battery takes a much shorter time to reach full charge:**

- \* There may still be some power left in the battery prior to being charged.
- \* The battery is getting old and should be replaced.

**If the battery is providing a much shorter operating time after being fully charged:**

- \* The battery may have sat idle for too long.
- \* The battery is worn out and about to reach the end of its service life. All rechargeable batteries will eventually wear out after being used for a certain number of cycles.

## **ONE YEAR UNCONDITIONAL GUARANTEE**

If for any reason, your ProMaster product fails within ONE YEAR of the date of purchase, return the product to your ProMaster dealer and it will be exchanged for you at no charge. ProMaster products are guaranteed for ONE FULL YEAR against defects in workmanship and materials. If at any time after one year, your ProMaster product fails under normal use, we invite you to return it to ProMaster for evaluation and repair.

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