

Fast Ni-Cd/Ni-MH Battery Charger

23-422

OWNER'S MANUAL — Please read before using this equipment.

! IMPORTANT !

If an icon appears at the end of a paragraph, go to the box on that page with the corresponding icon for pertinent information.

⚠ — Warning

⚡ — Caution

📌 — Note

! — Important

💡 — Hint

NOTE

The charger might not detect alkaline batteries if you mix alkaline batteries and rechargeable Ni-Cd or Ni-MH batteries in the same charging bay.

Thank you for purchasing a RadioShack Fast Ni-Cd/Ni-MH Battery Charger. Your charger charges three different sizes of nickel-cadmium (Ni-Cd) or nickel-metal hydride (Ni-MH) batteries — AA and AAA within 2.5 hours, and 9V within 10.5 hours. You can charge up to eight AA/AAA batteries of the same type, or two 9V batteries, in the charger's four battery bays at the same time.

Alkaline Battery Protection — prevents your charger from charging alkaline batteries. 📌

Automatic Charging Current Selection — provides the best charging current for each battery size.

Delta V and Zero Slope Peak Voltage Full Charge Detection — prevents overcharging a fully charged AA or AAA battery. A back-up timer provides additional overcharging protection.

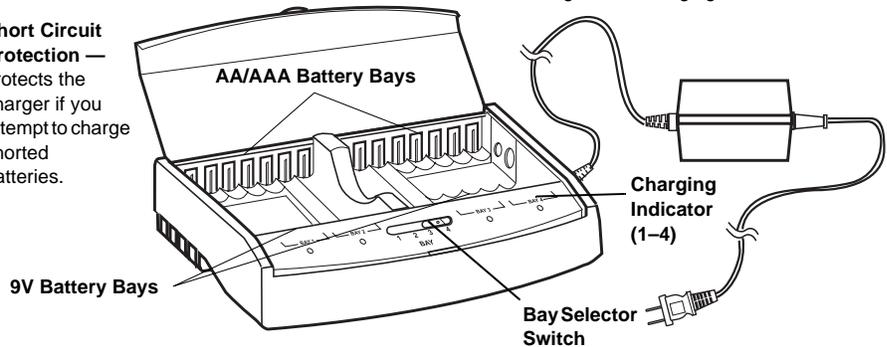
Reverse Polarity Protection — protects the charger and batteries against incorrectly installed batteries.

Short Circuit Protection — protects the charger if you attempt to charge shorted batteries.

Bad Battery Protection — prevents your charger from charging bad batteries. 📌

Overcurrent Protection — maintains constant charging current during the charge cycle.

Charging Indicators — light when the batteries are charging.



IMPORTANT SAFETY INSTRUCTIONS

This manual contains important safety and operating instructions for your charger.

Before you use the battery charger, read all instructions and cautionary markings on the charger, the batteries to be charged, and the products that use the batteries. ⚠

- Do not expose the charger to rain or excessive moisture.
- Any attachments not intended for use with this battery charger can result in a risk of fire, electric shock, or personal injury.
- Never operate the charger if it has received a sharp blow, or been dropped or damaged in any way. Take it to your local RadioShack for service.
- Do not disassemble the charger. Have it serviced or repaired by qualified RadioShack service personnel only.

Incorrect assembly can result in a risk of electric shock or fire.

- To reduce the risk of electric shock, unplug the charger from the outlet before routine maintenance or cleaning.
- To reduce the risk of damage to the AC adapter cord, disconnect the charger by pulling the plug rather than the cord.
- Do not use an extension cord. Its use could result in fire or electric shock.
- Do not operate the charger with a damaged AC adapter. Take the charger to your local RadioShack for service.
- Never alter the provided AC adapter. If the AC plug does not fit in the AC outlet, have a qualified technician install the proper outlet. Improper connection can result in an electric shock.

Never use the charger as a DC power source for any electrical equipment.

SAVE THESE INSTRUCTIONS

GENERAL CHARGING GUIDELINES

- Completely discharge Ni-Cd batteries before you charge them. Repeated partial discharging and recharging can shorten their useful life. This does not apply to Ni-MH batteries.
- It is normal for batteries to become warm while charging.
- You cannot charge two 9V batteries and AA/AAA batteries at the same time. However, you can charge one 9V in the



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⚠ WARNING ⚠

- To prevent damage to your charger and risk of shock, always unplug the AC cord from the AC outlet before you remove or replace the batteries.
- Never mix alkaline batteries and rechargeable Ni-Cd or Ni-MH batteries in the charger for charging. Alkaline batteries might burst, causing personal injury and damage to the charger.

⚠ CAUTION ⚠

General Charging Guidelines

- Never mix AA and AAA batteries in the charger, or put a discharged battery and a charged battery in the same bay.
- Do not attempt to charge any other size or type battery than those for which this charger was designed.
- Charge batteries where the ambient temperature is between 60° and 85°F (16° and 29°C). Batteries do not fully charge when cold. If the charging conditions are too warm, the batteries can permanently lose their rechargeable properties.

Charging Batteries

Before connecting the charger to AC power, be sure all batteries are correctly installed according to polarity. Incorrectly installed batteries (polarity reversed) will not charge and can be damaged.

✓ NOTE ✓

- The indicators light steadily while batteries are charging. If the indicators flash, at least one of the batteries you are trying to charge is defective.
- When you charge 9V batteries, the position of **BAY** has no effect. The charger's built-in timer tracks the state of charge.
- To charge one 9V battery, use the left (**BAY1** and **BAY2**) 9V battery channel.
- If the indicators do not light, try one or more of the following suggestions.

Check the battery positions in the bay, and reverse any that are incorrect.

Remove the batteries and clean the batteries' and charger's contacts.

One or more batteries might be defective. Replace any defective batteries.

right 9V bay and AA/AAA batteries in the left bay.

- You cannot charge only one AA or AAA battery in one battery bay. You must always charge a pair of the same size and type batteries in one bay if the other bays are empty.

CHARGING BATTERIES

The charger has 4 charging bays. Each bay provides charging spaces for two AA and two AAA batteries in alternating spaces. The AA batteries fit between flat spring contacts while the smaller AAA batteries fit between flat spring contacts along the compartment's upper side and spring metal loops along the lower edge of the compartment.

1. Lift the battery charger's cover.
2. Place 2 AA or AAA batteries in **BAY 1** according to the polarity symbols (+ and -) marked inside the bay. If you have more than 2 batteries to be charged at a time, fill **BAY 2** next, and so on.

To charge 9V batteries, place the first battery in the 9V channel across **BAY 1** and **BAY 2**. Slide the battery's connectors onto the terminals on the outside wall of the channel. Place a second 9V battery in the channel across **BAY 3** and **BAY 4**.

CARE

Keep the charger dry; if it gets wet, wipe it dry immediately. Use and store the charger only in normal temperature environments. Handle the charger carefully; do not drop it. Keep the charger away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

SPECIFICATIONS

Charging Current At 120V:

AAA	315 mA ±10%
AA	770 mA ±10%
9V	23 mA ±10%

Charging Current At 120V ±15V:

AAA	315 mA ±15%
AA	770 mA ±15%
9V	23 mA ±15%

Safety Timer:

AA/AAA	150 Mins ± 10%
9V	630 Mins ± 10%

General:

Dimensions (HWD) 6³/₄ × 3³/₁₆ × 1¹/₃ Inches
(172 × 87 × 34 mm)

Weight 3.51 oz. (100 g)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

3. Slide **BAY** to select the number of bays being used specifically for AA/AAA batteries.
4. Insert the AC adapter's plug into a standard AC outlet. The indicators on top of the charger light showing that the batteries are charging.
5. When the charging indicators turn off, the batteries are fully charged. Unplug the adapter from the AC outlet and remove the batteries.

CHARGING TIMES

The following chart shows typical charging times for several types and sizes of RadioShack batteries.

RadioShack Cat. No.	Size	Capacity (mAh)	Charging Time (Hours)
Ni-Cd			
23-127	AAA	180	0.8
23-125	AA	600	1.09
23-149	AA	850	1.55
23-325	AA	700	1.09
23-299	9V	120	7.30
Ni-MH			
23-527	AAA	550	2.44
23-525	AA	1250	2.27
23-526	9V	130	7.91

SERVICE AND REPAIR

If your charger is not performing as it should, take it to your local RadioShack store for assistance. Modifying or tampering with the charger's internal components can cause a malfunction and might invalidate its warranty.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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