



Cat. No. 23-335 [A]
OWNER'S MANUAL

Please read before using this equipment.

**5-Hour/8-Hour
AA/AAA
Ni-Cd/Ni-MH
Battery Charger**

with Conditioner



RadioShack®



FEATURES

Your RadioShack 5-Hour/8-Hour AA/AAA Ni-Cd/Ni-MH Battery Charger charges nickel-cadmium (Ni-Cd) batteries in about 5 hours or nickel-metal-hydride (Ni-MH) batteries in about 8 hours. You can charge two or four AA or AAA batteries of the same type and capacity. Or you can charge one 9V battery with the charger's 9-volt battery terminals. Charging a 9V battery takes about 9 hours.

Your charger's features include:

Safety Timer Protection — automatically stops charging AA or AAA batteries after the charging timer runs out.

© 2000, 1999 RadioShack Corporation.
All Rights Reserved.
RadioShack is a registered trademark
used by RadioShack Corporation.

Battery Capacity Switch — lets you select the capacity (standard or high-capacity) of the batteries you are charging.

Reverse Polarity Protection — protects the charger and batteries if you incorrectly install batteries.

Charging/Discharging Indicators — the red indicators show that batteries are charging and the green indicator shows that batteries are discharging.

Ni-Cd/Ni-MH Switch — lets you select the battery type you are charging.

Discharge Button — press to activate the conditioner that discharges the batteries. The charger automatically begins charging the batteries once it has completely discharged them.

SAVE THESE 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.

Warning: To reduce the risk of injury, charge only Ni-Cd or Ni-MH batteries with this charger. Other types of batteries might burst, causing personal injury and damage.

Safety Instructions

- 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 store 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.
- Do not use an extension cord. Its use could result in fire or electric shock.
- 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.

OPERATION

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.
- Batteries in the charger at the same time must be of the same type (Ni-Cd or Ni-MH) and capacity (standard or high-capacity).
- The charger has two channels. Both the left and right channels have two positions for AAA and two positions for AA batter-

ies. Each channel also has its own red CHARGE indicator that lights when batteries in that channel are charging.

- You cannot discharge/charge one 9V battery and AA/AAA batteries at the same time. However, you can discharge/charge a pair of AA batteries in one channel and a pair of AAA batteries of the same type and capacity in the other channel at the same time.
- You cannot discharge/charge only one AA or AAA battery in each battery channel. You must always discharge/charge a pair of batteries of the same size, type, and capacity in one channel if the other channel is empty.

Cautions:

- Never put a discharged battery and a charged battery in the same channel.
- Do not attempt to charge any other

size or type battery than those for which this charger was designed.

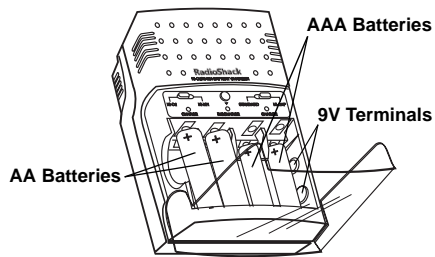
- Charge batteries where the ambient temperature is between 32° and 113°F (0° and 45°C). If charging conditions are too cold, batteries do not fully charge. If charging conditions are too warm, the batteries can permanently lose their rechargeable properties.

Discharging/Charging Batteries

Follow these steps to discharge and then charge the batteries:

1. To open the cover, grasp the tabs on both sides of the charger and lift up the cover.
2. Place two AA or two AAA batteries in the left channel according to the polarity symbols (+ and -) marked inside the battery compartment. If you have more than

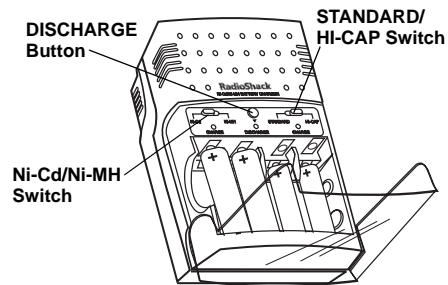
two batteries to be discharged/charged at a time, place two AA or two AAA batteries in the right channel next.



To charge a 9V battery, place it in the 9V channel. Slide the battery's connectors onto the terminals on the compartment's right side.

Caution: 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.

3. Set the **Ni-Cd/Ni-MH** and **STANDARD/HI-CAP** switches to match the type and capacity of the batteries you are discharging/charging. (See "Charging Capacities" on Page 13.)



4. Plug the charger into a standard AC outlet.
5. Press **DISCHARGE** to discharge batteries. The green indicator lights while the charger discharges the batteries. When the battery voltage drops to 0.9V, the dis-

charge cycle stops and the green indicator turns off. Then, the charger immediately begins the charge cycle and the appropriate red indicator(s) light(s). For example, if you only have batteries in the left channel, only the left CHARGE indicator lights.

Note: The charger cannot discharge 9V batteries.

If the indicators do not light, try one or more of the following suggestions.

- Be sure batteries are correctly installed.
 - Remove the batteries and clean the batteries' and charger's contacts with a pencil eraser.
 - One or more batteries might be defective. Replace any defective batteries.
6. When AA/AAA batteries are fully charged, the red indicator(s) turn(s) off. Unplug the

adapter from the AC outlet, then remove the batteries.

Warning: To prevent damage to your charger and risk of shock, always unplug the charger from the AC outlet before you remove or replace the batteries.

Notes:

- The 9V charging channel has no automatic turn-off feature. To avoid exceeding the capacity listed in "Charging Capacities" on Page 13, charge a 9V battery for 7–9 hours. A longer charging time could shorten the battery's useful life.
- 9V battery-charging does not require a specific setting for the **Ni-Cd/Ni-MH** and **STANDARD/HI-CAP** switches.

Charging Capacities

The following chart shows typical charging capacities and switch selections for several types and sizes of RadioShack batteries.

Type	Size	Switch Selection	Capacity Range (mAh)
Ni-Cd	AAA	Standard	180–240
	AAA	High-Cap	241–300
	AA	Standard	600–800
	AA	High-Cap	801–1000
Ni-MH	AAA	Standard	450–550
	AAA	High-Cap	551–650
	AA	Standard	1100–1300
	AA	High-Cap	1301–1500
Either Type	9V	Either Setting	120–150

CARE

To enjoy your RadioShack 5-Hour/8-Hour AA/AAA Ni-Cd/Ni-MH Battery Charger for a long time:

- 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 gently and carefully. Don't drop it.
- Keep the charger away from dust and dirt.
- Wipe the charger with a damp cloth occasionally to keep it looking new.

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

SPECIFICATIONS

Charging Current at 120V:

AAA:

Ni-Cd Standard	60 mA \pm 10%
Ni-Cd High-Capacity	75 mA \pm 10%
Ni-MH Standard	90 mA \pm 10%
Ni-MH High-Capacity	105 mA \pm 10%

AA:

Ni-Cd Standard	200 mA \pm 10%
Ni-Cd High-Capacity	250 mA \pm 10%
Ni-MH Standard	220 mA \pm 10%
Ni-MH High-Capacity	250 mA \pm 10%

9V 23 mA \pm 10%

Safety Timer

Ni-Cd	5.5–6.5 Hours
Ni-MH	8.4–9.5 Hours

Safety Standard ETL/CETL

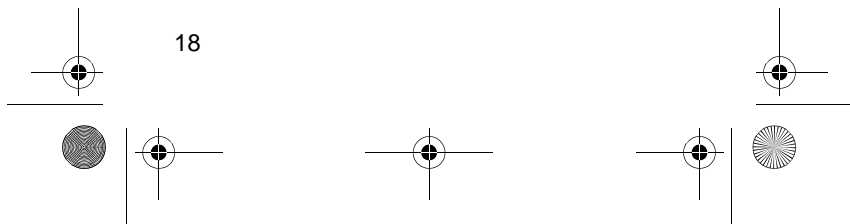
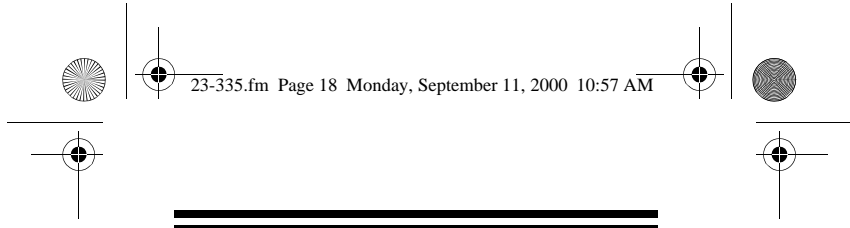
Dimensions (HWD):

$5\frac{1}{16} \times 3\frac{1}{8} \times 2\frac{13}{16}$ Inches
(128 × 80 × 71 mm)

Weight 2.5 oz
(70 g)

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

NOTES



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 (*Continued*)

(Continued) 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.
RadioShack Customer Relations, 200 Taylor Street, 6th Floor,
Fort Worth, TX 76102

We Service What We Sell 12/99

RadioShack Corporation
Fort Worth, Texas 76102

09A00

0904-211-20002x1
Printed in Hong Kong