






Overnight Charger for AA/AAA/9V Ni-Cd or Ni-MH Batteries

23-437

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
-  — Important
-  — Hint
-  — Note

Thank you for purchasing the RadioShack Overnight Charger for AA/AAA/9V Ni-Cd or Ni-MH Batteries. Your charger is designed to charge two or four AA or AAA batteries, or one 9V battery.

Its features include:

Two Charging Indicators — FRONT or REAR lights when charging batteries in the front or rear charging bay and turns off when charging is complete.

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

Automatic Timer Shut-Off — turns off the charger to prevent overcharging AA or AAA batteries.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS!

This manual contains important safety and operation instructions for your battery charger. Before using your charger, read all instructions and cautionary markings on the charger, the batteries to be charged, and the product that uses the batteries.

Warnings:

- Charge only Ni-Cd or Ni-MH batteries with this charger. Other types of batteries might burst, causing personal injury.
- Do not disassemble the charger; take it to a qualified service technician when service or repair is required. Improper reassembly may result in a risk of electric shock or fire.
- Do not use an attachment not recommended or sold by RadioShack as this could result in a risk of fire, electric shock, or injury.

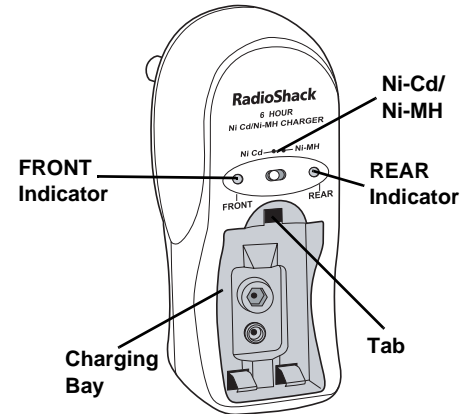
Cautions:

- Do not expose the charger to rain or excessive moisture.
- Do not operate the charger if it has received a sharp blow, or been dropped or damaged in any way. Take it to a qualified service technician for repair.
- Do not use an extension cord. Its use could result in fire or electric shock.
- Never use the charger as a DC power source for any electrical equipment.

Your charger is ETL listed to UL standards.



OPERATION

CHARGING AA AND AAA BATTERIES



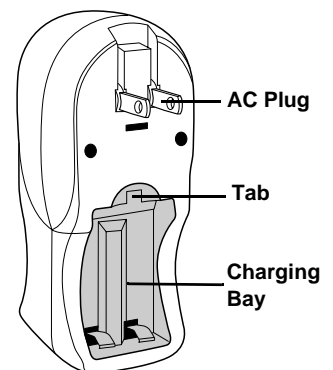
1. Slide Ni-Cd/Ni-MH to the desired setting.
2. Adjust the charging bay for AA or AAA batteries.

The tab on the top of the front and rear charging bays let you adjust the battery holder for AA or AAA batteries. Pull down the tab to charge AAA batteries. Lift up the tab to charge AA batteries.

3. To charge two batteries, insert the batteries in the front or rear bay according to the polarity symbols (+ and -) marked inside.  

To charge four batteries, insert the batteries in the front and rear charging bay according to the polarity symbols (+ and -) marked inside.

4. Lift the AC plug's prongs, located on the rear of the charger, until they snap into place. Plug the charger into a standard AC outlet. FRONT lights when AA or AAA batteries are charging in the front bay. REAR lights when AA or AAA batteries are charging in the rear bay.



CAUTION

Do not mix battery types (Ni-Cd and Ni-MH).

NOTE

- Both batteries must be installed in the same bay.
- It is normal for the batteries to become warm while charging.
- Charge the batteries in an area with temperatures between 32 and 113° F (0–45° C). If the area is too cold, the batteries can permanently lose their ability to charge. If the area is too warm, the batteries will not fully charge.
- Do not try to charge batteries other than those listed in this manual, or use procedures other than those described in this manual.
- You cannot charge AA batteries in one bay and AAA batteries in the other bay at the same time.

NOTE

AA or AAA batteries will not be damaged if you leave them in the charger until the timer turns it off.

- When charging is complete, the indicator turns off. Unplug the charger from the outlet, then remove the batteries from the charger.

- Lift the AC plug's prongs, located on the rear of the charger, until they snap into place. Plug the charger into a standard AC outlet. FRONT lights.

CHARGING A 9V BATTERY

- To charge a 9V Ni-Cd or Ni-MH battery, snap the battery into the connectors in the front charging bay as indicated by the polarity symbols (+ and -) marked inside.

- The charger has no safety timer for charging a 9V battery. See "Charging Batteries with Different Capacities" for the charging time. When charging is complete, unplug the charger from the outlet, then remove the battery from the charger.

CHARGING BATTERIES WITH DIFFERENT CAPACITIES

The charger can be used to recharge Ni-Cd batteries with capacities greater than 1000mAh and Ni-MH batteries with capacities greater than 1800mAh. Simply reset the charger to begin a second charge cycle for batteries with larger capacities. For batteries with less capacity, simply remove batteries before the charge cycle is complete, based on estimated charge times in the following table.

Battery Type	Battery Capacity (mAh)	Estimated Charging Time
AA	600	4 hours, 35 minutes
AA	850	6 hours, 30 minutes
AA	1000	7 hours, 40 minutes
AA	1500	11 hours, 25 minutes
AA	1600	12 hours, 10 minutes
AA	1800	13 hours, 40 minutes
AAA	180	3 hours
AAA	550	9 hours, 20 minutes
AAA	600	10 hours, 10 minutes
AAA	700	11 hours, 55 minutes
9V	120	7 hours, 20 minutes
9V	130	8 hours

To calculate the charge time for your battery, based on its rated capacity, use the following formulas.

- For AA batteries: Charge time in hours = the capacity of your battery × 0.0076
- For AAA batteries: Charge time in hours = the capacity of your battery × 0.017
- For 9V batteries: Charge time in hours = the capacity of your battery × 0.0608

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.

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.

SPECIFICATIONS

Input	120V AC, 60Hz
Output	DC 2.8V, 170mA × 2 for AA Batteries DC 2.8V, 80mA × 2 for AAA Batteries DC 9V, 23mA for 9V Battery
Safety Timer	7.5 Hours for Ni-Cd Batteries 14 Hours for Ni-MH Batteries

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

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.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

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