

Twin RC Charging Unit

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

Your RadioShack Twin RC Charging Unit is perfect for charging remote controlled racing car batteries. It can charge two 7.2-volt or 9.6-volt Ni-Cd or Ni-MH battery packs one at a time. It only takes 3 hours to charge a Ni-Cd battery (1000 mAh, 9.6V or 2000 mAh, 7.2V), and 4.5 hours for a Ni-MH battery (1600 mAh, 9.6V or 3000 mAh, 7.2V). Its other features include:

Charge Indicators — light when the battery packs are charging, automatically turn off when the battery packs finish charging, and flash if the battery packs fail to charge, indicating a problem with the battery (the battery is not properly connected, or needs to be replaced, for example).

Optional DC Operation — lets you charge batteries through a 12 V DC cigarette-lighter plug socket with a 12VDC adapter (not supplied).

Automatic Charging Current Selection — automatically detects the battery voltage and selects the appropriate charging current.

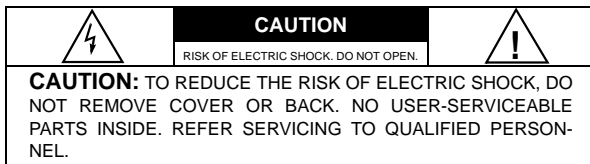
Reverse Polarity Protection — protects the charger and batteries against incorrectly installed batteries.

Short Circuit Protection — protects the charger and batteries against shorted batteries.

Automatic Power-Off — turns off the charger to prevent overcharging.

Overcurrent Protection — controls the charging current.

WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS!

Warning: To reduce the risk of fire or electric shock, carefully follow these instructions.

This manual contains important safety and operating instructions for your charger. Before using the charger, read all the instructions and cautionary markings in this manual and 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 rechargeable batteries. Other types of batteries could burst, causing personal injury and damage.
- Unplug the charger from the outlet before attempting any maintenance or cleaning.
- 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 injury to persons.
- Do not use an attachment not recommended or sold by RadioShack as this could result in a risk of fire, electric shock, or injury to persons.

Caution: To reduce the risk of damage:

- Do not expose the charger to rain or excessive moisture.
- Never operate the charger if it has received a sharp blow, or been dropped or damaged in any way. Have it repaired by qualified service personnel.
- Do not operate the charger if the cord or plug of the supplied AC/DC adapter is damaged. Have the adapter repaired. Never alter the cord or plug. If it does not fit into the AC outlet, have a qualified service technician install the proper outlet. Improper connection can result in an electric shock.
- Disconnect the charger by pulling the adapter's plug rather than the cord.
- 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.

OPERATION

Warning: Connect or disconnect the battery connector only when the charger is disconnected from AC power.

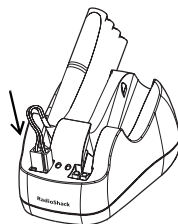
Cautions:

- Do not try to charge batteries other than those listed in this manual, or use procedures other than those described in this manual.
- Charge batteries in an area between 60 and 85 °F. Batteries do not fully charge when they are cold. If the area is too warm, the batteries can permanently lose their ability to charge.

- To prevent damage to your charger and risk of shock, always unplug the AC/DC adapter from the AC outlet before you unplug it from the charger.

1. Insert the battery connector of the battery pack you want to charge into the charging jack.

Note: If the connector does not fit, turn it over and try again. Do not force it.



2. If you charge only one battery pack, you can insert it into either **CHANNEL 1** or **CHANNEL 2**.

You can insert two 7.2V, two 9.6V, or one 7.2V and one 9.6V Ni-Cd or Ni-MH battery packs into the charger. If you insert both battery packs into the charger before plugging in the charger, the charger charges the battery pack in Channel 1 first, then the one in Channel 2. If you insert the battery packs after the charger is plugged in, the charger charges the battery pack that was inserted first, then charges the other one.

3. Insert the adapter's barrel plug into the DC jack on the back of the charger, then plug the adapter into a standard AC outlet.



Caution: You must use a Class 2 power source that supplies 12V DC and delivers at least 1200 mA. Its center tip must be set to positive and its plug must fit the charger's **12V DC** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the charger or the adapter.

You can also power the charger by vehicle power, using a cigarette-lighter plug cable, RadioShack Catalog Number 270-1533 or 270-1534 (not supplied, available at your local RadioShack store). Insert the cable's barrel plug into the DC jack of the charger, then insert the cigarette-lighter plug into your vehicle's cigarette lighter socket.

Notes:

- It is normal for the batteries to become warm while charging.
 - The indicator for the channel you are using lights when the battery pack is charging and automatically turns off when the battery pack finishes charging.
 - If the indicator flashes, check the battery connection. If it still flashes, the battery pack might need to be replaced. Try charging a different battery pack. If the charger still does not work, take it to your local RadioShack store for assistance.
4. When the indicators turn off, unplug the adapter from the AC outlet, or unplug the cigarette-lighter plug from vehicle power, then unplug the barrel plug from the charger's DC jack. Then disconnect the battery packs.

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.

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

SPECIFICATIONS

Input Rating of the Supplied Adapter	AC 120V ± 15V, 60 Hz, 20W
Average Charging Current	7.2 V: 1000 mA; 9.6 V: 700 mA
Safety Protection Timer	4.5 Hours ± 5 Minutes
Estimated Charge Time	Ni-Cd: Max. 3 Hours; Ni-MH: Max. 4.5 Hours

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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