



Cat. No. 21-1830  
**OWNER'S MANUAL**

Please read before using this equipment.

**Desktop Charger**

**with AC Adapter**



**RadioShack®**





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Your RadioShack Desktop Charger with AC/DC Adapter for 21-1810 can fully charge the battery pack for your Two-Way Family Radio in 2½ hours. Its features include:

**Short Circuit Indication** — lets you know when the battery pack you want to charge has a short circuit.

**Bad Battery Indication** — lets you know when the battery pack you want to charge is damaged.

**Two LED Indicators** — light or flash to show the status of the charger.

**DC Power Supply** — provides constant current for charging.

**Automatic Power Off** — monitors voltage and maximum charging time to avoid overcharging a battery pack.





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**Charging Priority Detection** — automatically charges the battery pack which was inserted first.

**Two Minutes Precharge** — prepares a battery pack for fast charging.

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

**CAUTION**

RISK OF ELECTRIC SHOCK.  
DO NOT OPEN.



**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

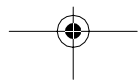
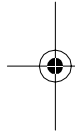




This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



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





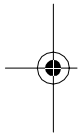
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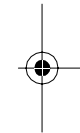
## IMPORTANT SAFETY INSTRUCTIONS

### SAVE THESE INSTRUCTIONS!

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

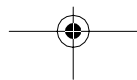


This manual contains important safety and operating instructions for your charger. Before using the battery charger, read all the instructions and cautionary markings in this manual and on the battery charger, the battery pack to be charged, and the product that uses the battery pack.



**Warning:** To reduce the risk of injury:

- Charge only the battery pack for the RadioShack Two-Way Family Radio (Cat. No. 21-1810) with this charger. Other types of batteries might burst, causing personal injury and damage.
- Unplug the charger from the outlet before attempting any maintenance or cleaning.

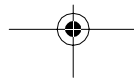
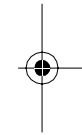
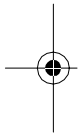




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- Do not disassemble the charger; take it to a qualified service technician when service or repair is required. Improper reassembly may result in a risk of electric shock or fire.
  - Do not use an attachment not recommended or sold by RadioShack or 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.
- 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.
- To reduce the risk of damage to the AC plug and 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.





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- Do not operate the charger if the cord or plug is damaged. Have the charger repaired. Never alter the provided AC cord or plug. If it does not fit in the AC outlet, have a qualified service 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.



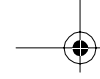
## GENERAL CHARGING HINTS



For best results:

- It is normal for the battery pack to become warm while charging. Charge battery packs in an area between 60.8 and 86°F 16 and 30°C. Battery packs cannot be fully charged when they are cold. If the area is too warm, they can permanently lose their ability to charge.
- Do not try to charge other battery pack size or by connecting the battery pack's terminals to the charging contacts with a piece of metal.





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## CHARGING BATTERY PACKS

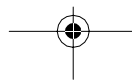
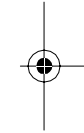
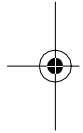
1. Plug the supplied adapter's barrel plug into the jack on the back of the charger. Plug the other end of the adapter into a standard AC outlet.

**Caution:** You must use a Class 2 power source that supplies 12 volts DC and delivers at least 1000 mA. Its center tip must be set to positive and its plug must fit the charger's jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the charger or the adapter.

**Note:** The charger's indicators flash. If both slots are empty, the indicators turn off.

2. Place the radio in **RADIO** and the spare battery pack in **BATTERY**, as indicated by the polarity symbols (+ and -) inside the slots. Fast charging begins and the display flashes slowly.

**Note:** If both the radio and spare battery pack are inserted in the slots before the charger is plugged in, the battery pack in the radio is charged







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first, then the spare. If both are inserted after the charger is plugged in, the first battery to be inserted will be charged first.

The charging time is about 2.5 hours.

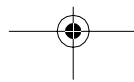
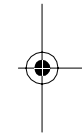
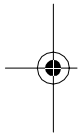
3. When a battery pack is fully charged, its display lights and the charger begins trickle charging to maintain the battery pack at its full capacity. Remove the battery pack from the charger.

**Note:** If the battery pack's indicator flashes rapidly, remove the pack from the socket and be sure that:

- there is no debris in the socket
- the battery pack is securely connected to the radio (if it is connected)
- the battery pack is seated firmly in the socket

If the indicator still flashes, you might need to replace the battery pack.

4. After each charge, unplug the AC adapter from the AC outlet, then remove the batteries from the charger.

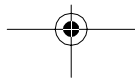




**Warning:** To prevent damage to your charger and risk of shock, always unplug the AC adapter from the AC outlet before you unplug it from the charger.

### FRS Battery Charger Indications

Status	Indicator
Standby	Off
Charging	Slow Flashing
Stop/Full	On
Bad Battery/Short Circuit	Rapid Flashing





## SPECIFICATIONS

UL Listed AC/DC Adapter:

Input Voltage ..... 120 V AC

Output ..... 12 V DC (1000 mA)

Charger:

Fast Charge Current ..... 600 mA  $\pm$  10%

Fast charge termination:

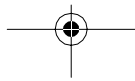
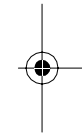
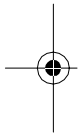
dV ..... 15 mV  $\pm$  5 mV

Vmax ..... 4.6V  $\pm$  5%

Dead Battery ..... Below 3V after 2 minutes pre-charge

Short Battery ..... 1V)

Maximum Time-Out ..... 180 mins





### 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 the limitations on how long an implied warranty lasts or the exclusion 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, Dept. W, 100 Throckmorton St., Suite 600, Fort Worth, TX 76102

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