

COMPUTER CONTROLLED UNIVERSAL Ni-Cd/Ni-MH BATTERY CHARGER

Model 47620

OPERATING INSTRUCTIONS



Diagrams within this manual may not be drawn proportionally.

Due to continuing improvements, actual product may differ slightly from the product described herein.

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**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

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For technical questions or replacement parts, please call 1-800-444-3353.

PRODUCT SPECIFICATIONS

Power Input	120 V ~ 60 Hz ~ 18 W
Power Output	1000 mAh
Battery Types	Ni-Cd & Ni-MH (Rechargeable Batteries ONLY) NOTE: Ni-Cd & Ni-MH batteries can be charged at the same time
AC Adapter Plug	2 - Prong Non-Polarized
Battery Sizes	AAA, AA, C, D and 9V
Battery Charging Capacity	D, C, AA & AAA - Charge up to a maximum of FOUR each. 9V - Charge up to a maximum of TWO each.
Battery Charging Time	AA - 500 mAh = 5 hr. AAA - 300 mAh = 3.5 hr. C - 700 mAh = 6 hr. D - 700 mAh = 11-5 hr.
LED Display	Red - Rapid Charging Green - Trickle Charging Flashing Red - Warning(s)
Safety Features	Reverse Polarity Detection Bad Battery Detection Discharge Capability Short - Circuit Protection Safety Timer Cut-Off (Auto-Off)
Net Weight	2.35 lb.

HOUSEHOLD USE ONLY

SAVE THIS MANUAL

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Write the product's serial number in the back of the manual near the assembly diagram, or write month and year of purchase if product has no number. Keep this manual and invoice in a safe and dry place for future reference.

IMPORTANT SAFEGUARDS

READ AND UNDERSTAND ALL INSTRUCTIONS

When using electrical appliances, basic safety precautions should always be followed including the following:

1. **CAUTION: Risk of shock!** Dry location use only.
2. **Charge ONLY Ni-Cd or Ni-MH type rechargeable batteries.** Other types of batteries may burst causing injury and/or property damage.
3. **Do not open housing.**

4. **Do not overcharge batteries.**
5. **Do not charge damaged batteries.**
6. **Follow all manual instructions.**
7. **Always wear ANSI-approved safety goggles during use.**
8. **Do not cover the vents of the Computer Controlled Battery Charger, place on a hard surface.**
9. **Keep this Fast Battery Charger out of the reach of children.**
10. **Unplug the Battery Charger from Adapter and Adapter from outlet when not in use.**
11. **Do not operate this Computer Controlled Battery Charger with a damaged Adapter cord or plug or after any malfunctions.** Do not use if it is damaged in any manner.
12. **Do not use outdoors.**
13. **Do not use this Fast Battery Charger for other than intended use.**
14. **Maintain labels and nameplates.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
15. **Do not clean with metal scouring pads.** Metal pieces can break off the pads and touch electrical parts involving risk of shock.
16. **The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.**

SAVE THESE INSTRUCTIONS.

Power Cord Safety

1. A short Adapter Power cord is provided to reduce risks resulting from becoming entangled in or tripping over a longer cord.
2. Longer extension cords are available and may be used if care is exercised in their use. Follow all directions when using a long extension cord.
3. If a long extension cord is used,
 - a. the marked electrical rating of the (detachable power supply cord or) extension cord should be at least as great as the electrical rating of the appliance,

- b. the longer cord should be arranged so that it will not drape over the counter top or tabletop where it can be pulled on by children or tripped over.

UNPACKING

When unpacking, check to make sure that the item is intact and undamaged. If any problem exists, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

OPERATION

1. Place the Computer Controlled Battery Charger on a flat, smooth surface near an electrical outlet. Connect the AC Adapter Jack to the Battery Charger.
2. Insert 1 to 4, D, C, AA, AAA batteries (or any combination of these four types), or 1 to 2 9V batteries in the Battery Compartment. You can mix **Ni-Cd (nickel-cadmium) and Ni-MH (nickel-metal hydride) batteries.**
3. CHARGING WITHOUT DISCHARGE for AAA, AA, C and D size batteries. The Battery Charger is equipped with a Microprocessor to control charging. Plug the AC Adapter into a correct house-hold electric outlet. The red LED will light up and the "Quick Charge" mode starts. When the battery is charged the red LED will go off and the green LED will light up and the "Trickle Charge" mode is on. The charged batteries are now ready for use.
4. CHARGING WITH DISCHARGE for AAA, AA, C and D size batteries. Plug the AC Adapter into a correct household electric outlet and press the red Discharge Button within 30 seconds. The red LED will light up and flash to indicate the discharge mode has started. When the battery is discharged, the red lights will light up and stop flashing to indicate the "Quick Charge" mode. After the battery is charged, the red lights will go off and the green LED will light up and the "Trickle Charge" mode is on. The charged batteries are now ready for use.
5. When 9V batteries are placed in the Computer Controlled Battery Charger, one red LED (between the 9V battery compartments) will go on. After the proper charge time is reached (11.5 hr. by timer) the red LED will go off to indicate the charging is finished.
6. Unplug the Computer Controlled Battery Charger from the AC Adapter and the AC Adapter from the electrical outlet and REMOVE ALL BATTERIES when not in use.

SPECIAL FEATURE

Detection of a bad cell for AAA, AA, C and D size batteries only. Insert batteries in charging slots. DO NOT PRESS RED BUTTON. When the battery is placed in the charging slot, the "RED" LED will light up and the Battery Charger will detect the status of the battery at that moment. If the battery is NOT suitable for charging, the LED light will switch off and stop charging. Defective batteries are indicated if either:

- a. the LED Indicator is OFF.
- b. the LED Indicator is BLINKING.

TROUBLESHOOTING

Problem	Possible Solution
The Charge Indicator Light(s) do not illuminate	<ol style="list-style-type: none">1. 1. Make sure the AC Adapter is plugged into a working 120 Volt, grounded, electrical outlet, and the Adapter Jack is plugged tightly into the Battery Charger.2. 2. Disconnect the Adapter Jack from the Battery Charger. Check to make sure each battery is inserted properly into the Battery Compartment.3. The Battery is bad
The Computer Controlled Battery Charger and/or the batteries feel warm to the touch	This is normal and should not be cause for concern.

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

Note: Replacement parts are NOT available.