

# Owner's Manual & Safety Instructions

**Save This Manual** Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

REV 16e

# CENTTECH®

63161

## DELUXE BATTERY MAINTAINER & FLOAT CHARGER



Visit our website at: <http://www.harborfreight.com>

Email our technical support at: [productsupport@harborfreight.com](mailto:productsupport@harborfreight.com)



When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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### **⚠ WARNING**

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

# IMPORTANT SAFETY INFORMATION

1. **SAVE THESE INSTRUCTIONS**
    - This manual contains important safety and operating instructions for this battery charger.
  2. Do not expose charger to rain or snow.
  3. Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.
  4. To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
  5. Do not use an extension cord with this item.
  6. Do not operate charger with damaged cord or plug – replace the cord or plug immediately.
  7. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
  8. Do not disassemble charger; take it to a qualified technician when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
  9. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.
10. **WARNING – RISK OF EXPLOSIVE GASES.**
- a. **WORKING IN VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE CHARGER.**
  - b. To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of battery. Review cautionary marking on these products and on engine.
11. **PERSONAL PRECAUTIONS**
- a. Consider having someone close enough by to come to your aid when you work near a lead-acid battery.
  - b. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
  - c. Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
  - d. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
  - e. **NEVER** smoke or allow a spark or flame in vicinity of battery or engine.
  - f. Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.
  - g. Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead-acid battery. A lead-acid battery can produce a short-circuit current high enough to weld a ring or the like to metal, causing a severe burn.
  - h. Use charger for charging LEAD-ACID or Absorbed Glass Mat (AGM) batteries only. It is not intended to supply power to a low voltage electrical system other than in a starter-motor application.

Do not use battery charger for charging dry-cell batteries that are commonly used with home appliances. These batteries may burst and cause injury to persons and damage to property.

- i. NEVER charge a frozen battery.

#### 12. PREPARING TO CHARGE

- a. If necessary to remove battery from vehicle to charge, always remove grounded terminal from battery first. Make sure all accessories in the vehicle are off, so as not to cause an arc.
- b. Be sure area around battery is well ventilated while battery is being charged.
- c. Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
- d. Add distilled water in each cell until battery acid reaches level specified by battery manufacturer. Do not overfill. For a battery without removable cell caps, such as valve regulated lead acid batteries, carefully follow manufacturer's recharging instructions.
- e. Study all battery manufacturer's specific precautions while charging and recommended rates of charge.
- f. Determine voltage of battery by referring to vehicle owner's manual and make sure it matches output rating of battery charger.
- g. Do not place charger or electrical connections on ground or floor.


#### 13. DC CONNECTION PRECAUTIONS

- a. Connect and disconnect DC output clips only after disconnecting Quick-Connector. Never allow clips to touch each other.
- b. Attach terminals to battery as indicated in 17(d) and 17(e).

#### 14. FOLLOW THESE STEPS. A SPARK NEAR BATTERY MAY CAUSE BATTERY EXPLOSION. TO REDUCE RISK OF A SPARK NEAR BATTERY:

- a. Position cables to reduce risk of damage by hood, door, or moving engine part.
- b. Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.
- c. Check polarity of battery connectors. POSITIVE (POS, P, +) battery connector usually has larger diameter than NEGATIVE (NEG, N, -) post.
- d. Disconnect Quick-Connector.
- e. To permanently attach the Ring Terminal Connector to the battery, bolt POSITIVE (RED) ring terminal to POSITIVE (POS, P, +) post of battery. Bolt NEGATIVE (BLACK) Ring Terminal Connector to NEGATIVE (NEG, N, -) post of battery.
- f. To temporarily attach the Clip Connector to the battery, connect POSITIVE (RED) Clip Connector to POSITIVE (POS, P, +) post of battery. Connect NEGATIVE (BLACK) Clip Connector to NEGATIVE (NEG, N, -) post of battery. Do not connect Clip Connector to carburetor, fuel lines, or sheet-metal body parts. Do not leave Clip Connectors attached indefinitely.
- g. When disconnecting charger, disconnect and cap Quick-Connector, and then remove Clip Connector from battery terminal.
- h. See operating instructions for length of charge information.

15. Do not turn on equipment that battery is connected to while charging.

- 16.  Wear ANSI-approved splash-resistant safety goggles and heavy-duty rubber work gloves whenever connecting, disconnecting, or working near battery. Battery acid can cause permanent blindness.

17. Maintain labels and nameplates on the charger.  
These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
18. This product is not a toy.  
Keep it out of reach of children.
19. Disconnect and cap the Quick-Connector before connecting its cables to a battery, or performing any inspection, maintenance, or cleaning procedures.
20. **Use this Charger/Maintainer with flooded lead-acid batteries or Absorbed Glass Mat (AGM) batteries only.** When charging a maintenance-free battery, always monitor the progress of the charge by viewing the ammeter. Do not over-charge a maintenance-free battery.
21. **Do not use this maintainer with gel lead-acid type batteries.**
22. Do not attempt to charge non-rechargeable, damaged, or defective batteries.
23. Do not charge more than one battery at one time.
24. Remove charger AC Adapter from electrical outlet, unplug and cap Quick-Connector, and disconnect the battery clamps (if used) when finished.
25. Have your charger serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the charger is maintained.
26. Do not use charger while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating charger may result in serious personal injury.
27. Do not leave charger or battery unchecked for extended periods of time to reduce risk.
28. Before moving charger, disconnect power supply and battery, then allow charger to cool.
29. This product is not a toy. Do not allow children to play with or near this item.
30. Use as intended only.
31. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
  - Avoid operating alone.
  - Properly maintain and inspect to avoid electrical shock.
  - Properly ground power cord. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
32. **WARNING:** The cord of this product contains lead and/or di (2-ethylhexyl) phthalate (DEHP), chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, *et seq.*)
33. 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.
34. Inspect before every use; do not use if parts are loose or damaged.
35. Use with 12 volt batteries only.



# SAVE THESE INSTRUCTIONS.

## Specifications

Input	120VAC, 60Hz, 0.25A
Rated Output	12VDC / 0.75A
Maximum Output	13.2 VDC
Battery Capacity	5 – 125 Ah
Cable Length	12 ft.
Fuse	7.5A Blade-type



Intertek  
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## Operation Instructions



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this document including all text under subheadings therein before set up or use of this product.

**Note:** This Float Charger is intended only to keep a fully charged battery from losing its charge. It will not work to charge a battery that is discharged or damaged.

### NOTICE

#### TO PREVENT BATTERY DAMAGE:

Do not use on gel lead-acid type batteries.

**Note:** Check battery voltage with a multimeter before use.

The Battery **MUST** be **fully charged** to at least 12 Volts.

The Float Charger prevents self-discharge of the battery, while maintaining the life of rechargeable 12 volt lead-acid batteries. It maintains a battery charge for batteries rated from 5 – 125 Ah (amp-hours), by providing a 13.2 VDC maximum output. Other types of chargers provide a strong, rapid charge but tend to boil out liquids and decay electrodes.

## Connection

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**A SPARK NEAR BATTERY MAY CAUSE BATTERY EXPLOSION.**  
**TO REDUCE RISK OF A SPARK NEAR BATTERY follow these instructions exactly.**

### **⚠️WARNING**

#### **TO PREVENT SERIOUS INJURY:**



**Wear ANSI-approved splash-resistant safety goggles and heavy-duty rubber work gloves whenever connecting, disconnecting, or working near battery. Battery acid can cause permanent blindness.**

1. Place Float Charger within 3 feet of battery.  
Disconnect the Quick-Connectors from each other.
2. Select the proper Connector.
3. To permanently attach the Ring Terminal Connector to the battery:
  - a. Bolt POSITIVE (RED) Ring Terminal Connector to POSITIVE (POS, P, +) post of battery.
  - b. Bolt NEGATIVE (BLACK) Ring Terminal Connector to NEGATIVE (NEG, N, -) post of battery.
4. To temporarily attach the Clip Connector to the battery,
  - a. Connect POSITIVE (RED) Clip Connector to POSITIVE (POS, P, +) post of battery.
  - b. Connect NEGATIVE (BLACK) Clip Connector to NEGATIVE (NEG, N, -) post of battery.
5. Join the Connector's Quick-Connector plug with AC Adapter.
6. If cables are connected improperly, disconnect the Quick-Connector plugs, correct the battery connections, and re-connect the Quick-Connector plugs.

**WARNING! TO PREVENT SHORT CIRCUIT AND FIRE: Do not leave Clips attached indefinitely.**

**WARNING! Do not connect Connector to carburetor, fuel lines, or sheet-metal body parts.**

**Note:** The LED will not light while cables are disconnected.

## LED Functions

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1. Flashing Red: The Battery is connected improperly or not functioning at all.
2. Solid Red: The Battery is charging.
3. Flashing Green: The Battery is nearly completely charged.
4. Solid Green: The Battery is completely charged, and the Maintainer is monitoring the charged Battery.

## After Use

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1. Separate the Quick-Connector plugs and cap them with the attached caps.
2. Unplug the AC Adapter.
3. Depending on the Connector in use, either:
  - Stow Ring Terminal Connector safely next to battery. Keep clear of belts, blades, and any other moving engine parts.
  - Remove Clip Connector from battery.
4. Wipe the Charger with a clean, dry cloth and store indoors out of reach of children.

## Maintenance Instructions



Procedures not specifically explained in this manual must be performed only by a qualified technician.

### **⚠️ WARNING**

**TO PREVENT SERIOUS INJURY:** Unplug the charger, disconnect any battery, and allow charger to cool completely before performing any inspection, maintenance, or cleaning procedures.

**TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:**

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

- BEFORE EACH USE**, inspect the general condition of the charger. Check for:
    - loose hardware,
    - cracked or broken parts,
    - damaged electrical wiring or cable insulation, and
    - any other condition that may affect its safe operation.
  - If the fuse needs replacing:
    - Disconnect the Connector from the AC Adapter and/or the battery.
    - Uncap the Fuse Housing.
    - Remove the spent fuse and replace with a new 7.5 Blade-type fuse.
    - Recap the Fuse Housing.
  - AFTER USE**, wipe external surfaces of the tool with clean cloth.
  - ⚠️ WARNING!** If the supply cord of this charger is damaged, it must be replaced only by a qualified service technician. **DO NOT OPEN CHARGER HOUSING, NO USER-SERVICEABLE PARTS INSIDE.**
- Note:** Aside from the fuse, this device does not contain any user replaceable parts. If it needs service, take it to a qualified technician.

## Parts List

Part	Description	Qty
1	AC Adapter	1
2	Ring Terminal Connector	1
3	Clip Connector	1

**Record Serial Number Here:**

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

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

## **PLEASE READ THE FOLLOWING CAREFULLY**

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THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST IN THIS DOCUMENT AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

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To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

# **CENTTECH<sup>®</sup>**

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