

**Model CBC-1000
Manual Battery Charger**



Voltage: 12

Amperage: 1

OWNER'S MANUAL

**READ ENTIRE MANUAL BEFORE
USING THIS PRODUCT**

00-99-000889/0708

IMPORTANT: READ AND SAVE THIS SAFETY AND INSTRUCTION MANUAL.

1. IMPORTANT SAFETY INSTRUCTIONS

- 1.1 SAVE THESE INSTRUCTIONS – This manual contains important safety and operating instructions for battery charger Model CBC-1000.
- 1.2 Do not expose charger to rain or snow.
- 1.3 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.
- 1.4 To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- 1.5 An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:
 - That pins on plug of extension cord are the same number, size, and shape as those of plug on charger;
 - That extension cord is properly wired and in good electrical condition and;
 - That wire size is large enough for AC ampere rating of charger as specified in Table 8.2.
- 1.6 Do not operate charger with damaged cord or plug; take to a qualified service person. (Call customer service at: 888-263-4906.)
- 1.7 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. (Call customer service at: 888-263-4906.)
- 1.8 Do not disassemble charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire. (Call customer service at: 888-263-4906.)
- 1.9 To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.

WARNING – RISK OF EXPLOSIVE GASES.

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.

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.

2. PERSONAL PRECAUTIONS

- 2.1** Consider having someone close enough by to come to your aid when you work near a lead-acid battery.
- 2.2** Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
- 2.3** Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
- 2.4** 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.
- 2.5** NEVER smoke or allow a spark or flame in vicinity of battery or engine.
- 2.6** 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.
- 2.7** 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.
- 2.8** Use charger for charging a LEAD-ACID battery 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.
- 2.9** NEVER charge a frozen battery.

3. PREPARING TO CHARGE

- 3.1** 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.
- 3.2** Be sure area around battery is well ventilated while battery is being charged.
- 3.3** Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
- 3.4** 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.
- 3.5** Study all battery manufacturer's specific precautions while charging and recommended rates of charge.
- 3.6** Determine voltage of battery by referring to vehicle owner's manual and make sure that output voltage selector switch is set at correct voltage. If charger has adjustable charge rate, charge battery initially at lowest rate.

4. CHARGER LOCATION

- 4.1 Locate charger as far away from battery as DC cables permit.
- 4.2 Never place charger directly above battery being charged; gases from battery will corrode and damage charger.
- 4.3 Never allow battery acid to drip on charger when reading electrolyte specific gravity or filling battery.
- 4.4 Do not operate charger in a closed-in area or restrict ventilation in any way.
- 4.5 Do not set a battery on top of charger.

5. DC CONNECTION PRECAUTIONS

- 5.1 Connect and disconnect DC output clips only after setting any charger switches to "off" position and removing AC cord from electric outlet. Never allow clips to touch each other.
- 5.2 Attach clips to battery and chassis, as indicated in 6.5, 6.6, and 7.2 through 7.4.

6. FOLLOW THESE STEPS WHEN BATTERY IS INSTALLED IN VEHICLE.

A SPARK NEAR BATTERY MAY CAUSE BATTERY EXPLOSION. TO REDUCE RISK OF A SPARK NEAR BATTERY:

- 6.1 Position AC and DC cords to reduce risk of damage by hood, door, or moving engine part.
- 6.2 Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.
- 6.3 Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has larger diameter than NEGATIVE (NEG, N, -) post.
- 6.4 Determine which post of battery is grounded (connected) to the chassis. If negative post is grounded to chassis (as in most vehicles), see (6.5). If positive post is grounded to the chassis, see (6.6).
- 6.5 For negative-grounded vehicle, connect POSITIVE (RED) clip from battery charger to POSITIVE (POS, P, +) ungrounded post of battery. Connect NEGATIVE (BLACK) clip to vehicle chassis or engine block away from battery. Do not connect clip to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 6.6 For positive-grounded vehicle, connect NEGATIVE (BLACK) clip from battery charger to NEGATIVE (NEG, N, -) ungrounded post of battery. Connect POSITIVE (RED) clip to vehicle chassis or engine block away from battery. Do not connect clip to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.

- 6.7 When disconnecting charger, turn switches to off, disconnect AC cord, remove clip from vehicle chassis, and then remove clip from battery terminal.
- 6.8 See OPERATING INSTRUCTIONS for length of charge information.

7. FOLLOW THESE STEPS WHEN BATTERY IS OUTSIDE VEHICLE.

A SPARK NEAR THE BATTERY MAY CAUSE BATTERY EXPLOSION. TO REDUCE RISK OF A SPARK NEAR BATTERY:

- 7.1 Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has a larger diameter than NEGATIVE (NEG, N, -) post.
- 7.2 Attach at least a 24-inch-long 6-gauge (AWG) insulated battery cable to NEGATIVE (NEG, N, -) battery post.
- 7.3 Connect POSITIVE (RED) charger clip to POSITIVE (POS, P, +) post of battery.
- 7.4 Position yourself and free end of cable as far away from battery as possible – then connect NEGATIVE (BLACK) charger clip to free end of cable.
- 7.5 Do not face battery when making final connection.
- 7.6 When disconnecting charger, always do so in reverse sequence of connecting procedure and break first connection while as far away from battery as practical.
- 7.7 A marine (boat) battery must be removed and charged on shore. To charge it onboard requires equipment specially designed for marine use.

8. BATTERY CHARGING - AC CONNECTIONS

8.1 For grounded, cord-connected battery chargers with an input rating less than 15 amperes and intended for use on a nominal 120-volt circuit:

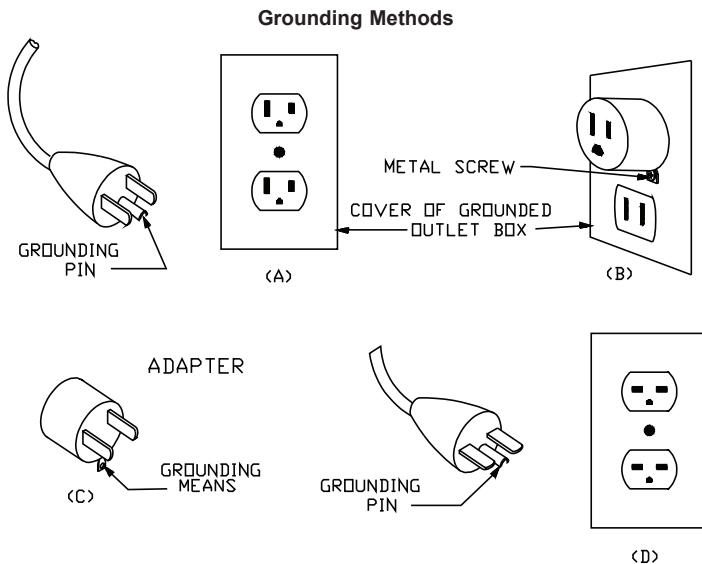
- This battery charger is for use on a nominal 120-volt circuit, and has a grounding plug that looks like the plug illustrated in sketch A in Figure 8.3. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug to a two-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician.

DANGER – Before using adapter as illustrated, be certain that center screw of outlet plate is grounded. The green-colored rigid ear or lug extending from adapter must be connected to a properly grounded outlet—make certain it is grounded. If necessary, replace original outlet cover plate screw with a longer screw that will secure adapter ear or lug to outlet cover plate and make ground connection to grounded outlet. **Recommended minimum awg size for extension cords for battery chargers:**

8.2

AWG Size of Cord	25	50	100	150
Length of Cord, Feet	18	18	18	16

8.3



AA210

9. ASSEMBLY INSTRUCTIONS

- No assembly required

10. OPERATING INSTRUCTIONS

- 10.1** This unit is a manual charger and care must be taken to prevent over-charging. Manual chargers will not shut off by themselves. While charging, manual chargers must not be left unattended as severe battery damage or other hazardous conditions may result. We recommend monitoring the battery's condition at 1 to 2 hour intervals until full charge is reached.
- 10.2** Follow all safety and operating instructions in this manual.
- 10.3** Before connecting charger clips, make sure charger is removed from electrical outlet.
- 10.4** When battery is installed in vehicle or equipment, follow connection sequence in section 6. When battery is charged outside vehicle or equipment, follow sequence in section 7.
- 10.5** Insert charger into electrical outlet.
- 10.6** After charging is complete, disconnect charger, remove clip from vehicle chassis and then remove clip from battery terminal. When charging battery outside of vehicle or equipment, follow procedures covered in section 7.

11. MAINTENANCE INSTRUCTIONS

- 11.1** Before performing maintenance, unplug and disconnect battery charger (see sections 6.7 and 7.6).
- 11.2** After use, use a dry cloth to wipe all battery corrosion and other dirt or oil from terminals, cords, and the charger case.
- 11.3** Servicing does not require opening unit, as there are no user-serviceable parts.

12. STORAGE INSTRUCTIONS

- 12.1** Store charger unplugged, in an upright condition. Cord will still conduct electricity until it is unplugged from outlet.
- 12.2** Store inside, in a dry, cool place.
- 12.3** Do not store clips on handle, clipped together, on or around metal, or clipped to cables.

13. BEFORE RETURNING FOR REPAIR

- 13.1** When a charging problem arises, make certain battery is capable of accepting a normal charge. Use a good battery to double-check all connections, AC outlet for full 120 volts, charger clips for correct polarity, and the quality of connections from cable to clips and clips to battery system. Clips must be clean.

When a battery is very cold, partially charged, or sulfated, it will not draw full rated amperes from charger. It is both dangerous and damaging to a battery to force a higher amperage into it than it can effectively use in recharging.

- 13.2** When an UNKNOWN OPERATING PROBLEM arises, please reread complete manual and call the customer service number for information that will usually eliminate need for return.
- 13.3** When charger requires repair of KNOWN DAMAGE, please call customer service number for nearest service station address or instructions for factory return.

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>