

DUAL PRO

Pro Quality Pro Performance



Safety, Installation And Operating Instructions For The Following Models: ProXtra I, ProXtra II, ProXtra 3

IMPORTANT NOTICE:

Please save and read these safety, operating and installation instructions before installing or applying AC power to your Charging Systems International charger. Contact Charging Systems International with any product, installation, or service questions at 1-800-742-2740.

CHARGING SYSTEMS INTERNATIONAL

Installation And Operating Instructions For The Following Battery Charging Systems:

MODELS	NO. OF BANKS	BATTERY SYSTEM
PROXTRA I	1	12
PROXTRA II	2	12, 24
PROXTRA 3	3	12, 24, 36

** Each charger cable assembly attached to one 12 Volt battery.*

IMPORTANT NOTICE

Please save and read all safety, operating and installation instructions before installing your Charging Systems International on-board battery charging system.

Please contact Charging Systems International with any product, installation, or service questions at 1-800-742-2740.

Introduction

The ProXtra is a revolutionary product specifically designed to enhance trolling battery performance and extend the amount of battery power available to the user between charge cycles accomplished with a conventional battery charger. This system utilizes boat engine charging current to charge your trolling motor batteries while the engine is running. Solid state electronics ensure that the main starting battery is adequately charged before allowing current to flow to the trolling motor batteries. The ProXtra is fully protected against short circuits and reverse polarity and is not directly connected to the ignition system or engine.

Table Of Contents

Safety Instructions	Page 3 - 4
Product Summary	Page 4
Installation Instructions	Page 5 - 6
Post installation testing	Page 6
Troubleshooting Instructions	Page 7

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS-This manual contains important safety and operating instructions for the **ProXtra 1, ProXtra 2, and ProXtra 3**.

Use of attachments not recommended or sold by Charging Systems International may result in a risk of fire, electrical shock, or injury to persons.

Do not operate unit if it has received a sharp blow, been dropped, or otherwise damaged in any way; contact Charging Systems International.

Do not disassemble unit; contact the factory when service or repair is required. Incorrect reassembly may result in risk of electrical shock or fire.

WARNING-RISK OF EXPLOSIVE GASES.

WORKING IN THE 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 each time before using your ProXtra unit, you read this manual and follow the instructions exactly.

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.

PERSONAL PRECAUTIONS

The ProXtra is designed to be permanently installed in the boat specifically for the purpose of supplying charging current to the trolling motor batteries while operating the main boat engine. Other types and uses, including unauthorized attachments should be avoided due to possible damage and/or personal injury.

Do not attempt to operate the ProXtra in a battery configuration that utilizes a series connection between the engine starting battery and the trolling motor battery or batteries. Severe sparking and/or damage to the ProXtra may occur and the warranty will be voided. Please contact the factory for further information.

Someone should be within range of your voice or close enough to come to your aid when you work near a lead-acid battery.

Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.

Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.

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.

NEVER smoke or allow a spark or flame in vicinity of battery or engine.

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.

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.

Use the ProXtra for charging a LEAD-ACID (lead acid, sealed lead acid, gel cell and AGM) battery only. Do not use this system 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.

NEVER charge a frozen battery.

PRODUCT SUMMARY

General Operation

Use the following guidelines in this manual to install your Charging Systems International ProXtra system.

Assure that your batteries are properly vented.

During normal operation the ProXtra system monitors the starting battery voltage and will activate once the starting battery voltage rises above a factory set voltage. Once this point is reached, charging current from the boat motor charging system will continue to flow to the starting battery and will also flow to the additional batteries attached to the ProXtra system. When the starting battery voltage drops below a factory set voltage, the ProXtra system is deactivated and returns to a standby state. LED's on the ProXtra case indicate the status of the unit.

INSTALLATION INSTRUCTIONS

Do not make any electrical connections to the main engine battery or additional batteries until the mounting process has been completed.

The ProXtra may be counted at any angle. For best results, place the ProXtra at the desired location and mark the screw locations using the mounting bracket as a template.

Check for fit and appropriate thickness of the mounting area before drilling starter holes. Use the four screws that have been provided to install the unit on a flat surface as high above the water level as possible.

Locate the cable labeled **starting battery** and securely connect the ring terminal of the black cable to the negative post of the starting battery. Locate the cables labeled **trolling motor battery** and securely connect them to the trolling motor battery or batteries as shown. (Red wire to + terminal/Black wire to - terminal.)



Locate the purple wire at the end of the starting battery cable assembly. Using the supplied quick connector, attach the purple wire to any 12 volt source on the boat that is disabled when the boat is not in use. The purpose for this connection is to disable the ProXtra circuitry during times that the batteries may be charged by other means. (i.e. AC powered battery charger)

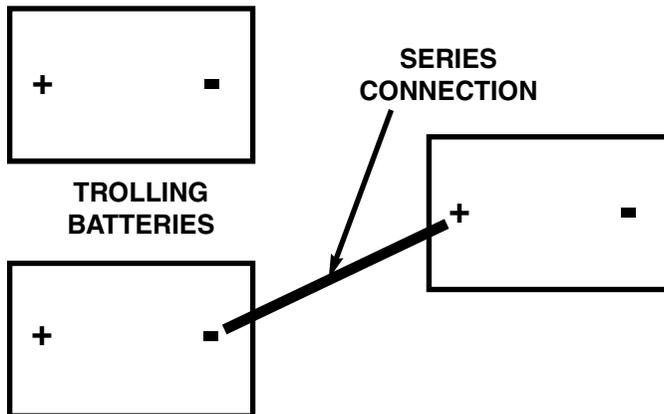
Post installation testing:

After completing the total installation process for the ProXtra, it is possible to test the unit for proper operation without having to operate the main engine.

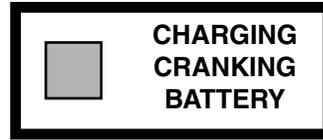
1. Attach a battery charger designed for a 12 volt system to the starting battery.
2. Turn on the boat electrical system. (Key switch on)
3. Turn the battery charger on and observe the indicator lights on the ProXtra. When the voltage of the starting battery reaches a factory predetermined level, both indicator lights on the unit should illuminate.
4. Turn the battery charger off and observe the indicator lights on the ProXtra. As the battery voltage drops to a factory predetermined level, both indicator lights should extinguish.
5. If you are unable to accomplish the previous steps for any reason, please call Charging Systems International at 1-800-742-2740 and we will gladly assist you.



Do not attempt to operate the ProXtra in a battery configuration that utilizes a series connection between the engine starting battery and the trolling motor battery or batteries. Severe sparking and/or damage to the ProXtra may occur and the warranty will be voided. Please contact the factory for further information.



Troubleshooting:



LED Indicator Lights

PROBLEM: No indicators lights are illuminated on the ProXtra during engine operation.

SOLUTION SEQUENCE:

- Check battery connections for tightness and proper polarity.
- Check in line fuses on Red and Black wires on starting battery cable.
- Call Charging Systems International at 1-800-742-2740.

PROBLEM: CHARGING TROLLING BATTERIES indicator does not illuminate during engine operation.

SOLUTION SEQUENCE:

(Note: In order for the ProXtra circuitry to operate, the starting battery voltage must exceed 13.8 volts. It is possible on some small outboard motors for the starting battery voltage to not reach this point.)

- Check purple wire from starting battery cable assembly. This wire must be attached to a 12 volt source.
- Check battery connections on all batteries for tightness and proper polarity.
- Call Charging Systems International at 1-800-742-2740.

LIMITED WARRANTY

Charging Systems International makes this Limited Warranty only to the original retail purchaser.

Charging Systems International warrants this battery charger for three years from the date of retail purchase against defective materials and/or workmanship. If such should occur, this unit will either be repaired or replaced at the discretion of the manufacturer. It is the responsibility of the original purchaser to return the charger along with proof of purchase, transportation and/or any mailing or handling charges prepaid to the manufacturer or its authorized representative.

This limited warranty is void if the product is misused, improperly maintained, handled carelessly or incorrectly operated. This warranty is also void if the charger is disassembled or repair is attempted by anyone other than an authorized representative.

Charging Systems International makes no other warranty other than this limited warranty and expressly excludes any implied warranty including any warranty for any incidental or consequential damages.

This is the only expressed limited three year warranty authorized by Charging Systems International and does not assume nor authorize anyone to assume or make any other obligation towards the product other than this three year Limited Warranty. Some states do not allow limitation of incidental or consequential damages, so the above limitations may not apply to you.

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

Please call Charging Systems International at 1-800-742-2740 for full warranty information.