

AC Surge Suppressor

INSTALLATION INSTRUCTIONS Model 93-SS30

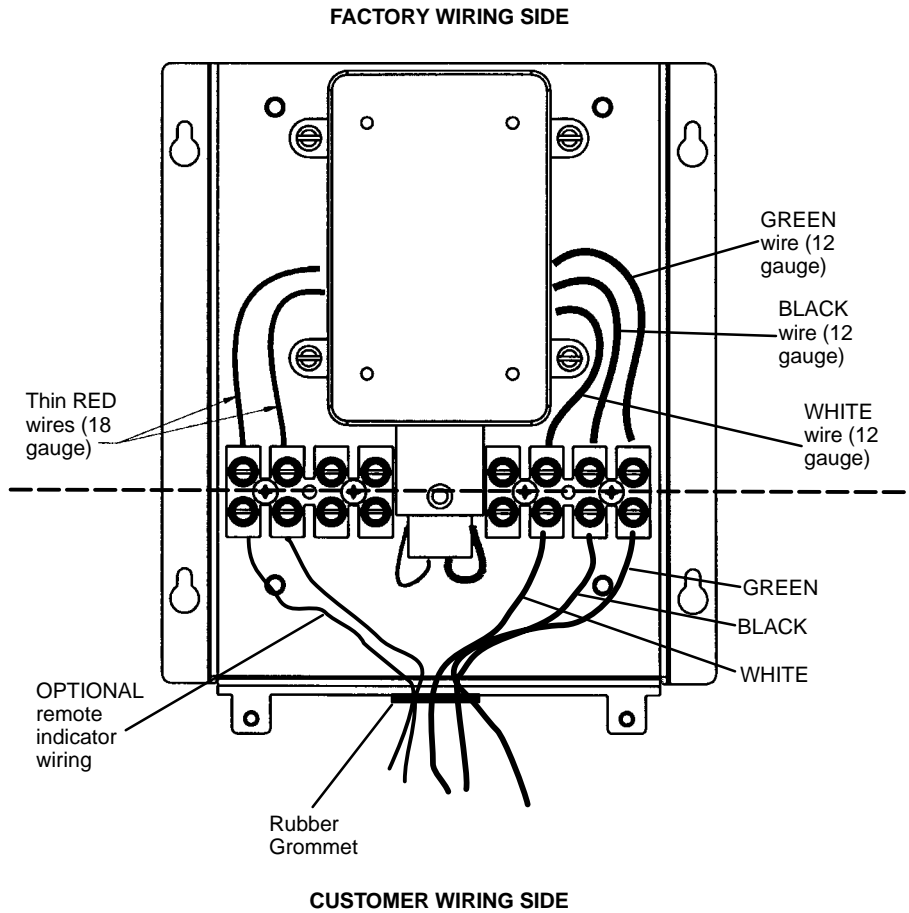
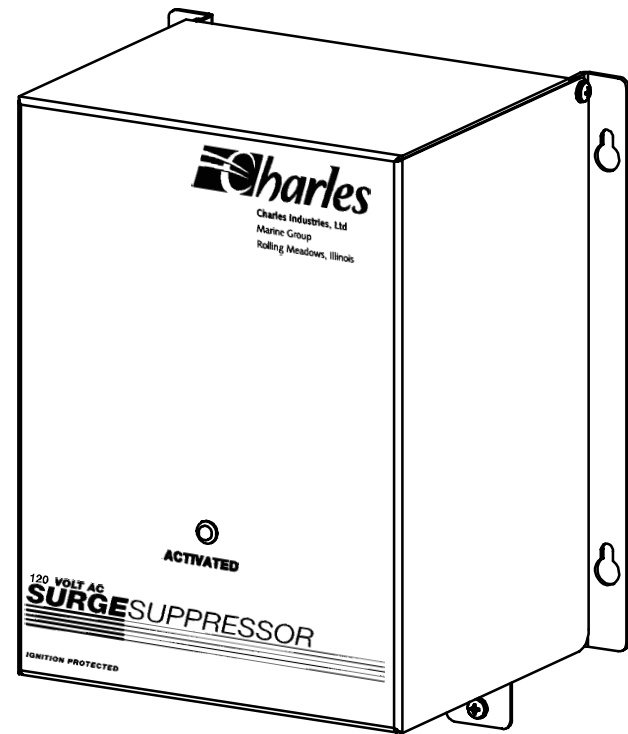


Figure 1.



INTRODUCING... THE 120 VOLT AC SURGE SUPPRESSOR

Thank you for purchasing the 120 Volt AC Surge Suppressor. Your surge suppressor is designed to provide protection from surges, spikes, or lightning through the on-shore power supply.

Warranty/Registration

Before proceeding, complete and mail back the Warranty Registration card.

MOUNTING THE SURGE SUPPRESSOR

The surge suppressor may be mounted on any surface as close as possible to the wiring. Choose a location that allows the most direct connection to the phase conductors and neutral-ground busses. This unit is intended to be mounted inside the boat, in an area protected from excessive moisture and strong sunlight.

Choosing Mounting Hardware

As with any marine equipment, secure mounting is of utmost importance. The bolts or screws used to secure the unit must be #8 or #10, backed with a flat washer, and kept vibration-free with a lock washer. Take the mounting surface into consideration when choosing the length of the bolts or screws used. All hardware should be corrosion-resistant.

Step	Action
1.	Hold the suppressor vertically flush on the mounting surface.
2.	Mark the mounting holes and remove the unit.
3.	Drill the mounting holes.
4.	Insert one side of the mounting hardware half-way into the drilled mounting holes.
5.	Align the mounting slots on the unit with the secured hardware and slide the unit's mounting flange under the washers.
6.	Insert the mounting hardware for the other side.
7.	Secure all mounting hardware.

WIRING THE SUPPRESSOR

Cut all wires as short as possible and strip wires about 1/4 inch before making connections. Avoid unnecessary loops and bends in the wire.

WARNING

DANGEROUS VOLTAGES EXIST ON AC LINES! Prior to wiring, disconnect power to the boat.

Step	Action
1.	Using a Phillips screwdriver, remove the 2 screws at the bottom of the housing and open the cover.
2.	Remove the rubber grommet. Cut it open, and run conductor and ground wires through it.
3.	Connect the conductor and ground wires to the screw terminals as shown in Figure 1.
4.	If you are using a remote status indicator , connect the remote status wires to the screw terminals as shown in Figure 1.
5.	Replace the grommet in its slot. Close and screw down the cover, and connect the power.

LED STATUS INDICATORS

See Table 1 for LED status.

Label/Color	Status	Indicates...
ACTIVATED/ Green	ON	Normal operation; surge suppressor active.
	OFF	Suppressor not powered. Check boat power. Unit failure. See <i>Warranty and Customer Service</i>

WARRANTY & CUSTOMER SERVICE

Warranty

CHARLES MARINE PRODUCTS warrants the Surge Suppression element will be free from defects in materials and workmanship which cause mechanical failure for the lifetime of the product. CHARLES MARINE PRODUCTS warrants the Surge Suppressor mechanical and terminal blocks will be free from defects in materials and workmanship which cause mechanical failure for one (1) year, as set forth in the Limited Warranty. Review this warranty carefully for information on what is covered by its terms. Complete and return the warranty registration card within ten (10) days of purchase to establish proof of ownership and validate the warranty coverage. You must provide notice of any alleged defect in material or workmanship within thirty (30) days of discovering the problem, and within the warranty period. Follow the procedure outlined below to obtain warranty service.

Warranty Service and Repair

If the unit fails to operate properly after following all the instructions in the manual, or if the C-Charger requires service, take the following steps.

1. Return the C-Charger to:

Charles Industries, Ltd.
400 S.E. 8th Street
Casey, IL 62420
ATTN: Service Center
- Note: Shipping costs to and from the service center are your responsibility.*
2. Include a letter with your company name (if applicable), contact, return address, daytime phone number and the nature of the failure.
3. When service is complete, Charles Industries, Ltd. will return the C-Charger to you. If there are any repair charges, a representative from Charles Industries will contact you with that information prior to having the unit repaired.

Customer Service

If technical assistance or customer service is needed, contact Charles Marine Products at:

847/806-6300 (Customer Service)
847/806-6352 (FAX)

For correspondence only, mail to:

Charles Marine Products
Charles Center
5600 Apollo Drive
Rolling Meadows, IL 60008-4049