

## Remote Enunciator Installation Instructions

### GENERAL DESCRIPTION

This document describes how to install the Remote Enunciator to be used with a compatible Charles charger unit.

**FAILURE TO FOLLOW THE PROPER INSTALLATION INSTRUCTIONS WILL VOID THE MANUFACTURER'S WARRANTY!**



### FEATURES

- Remote Enunciator for the equipped chargers
- Display and sounder are identical to the charger
- Bright Vacuum Fluorescent Display (VFD)
- Repeats everything displayed on the charger
- Attention getting audio alarm matches the charger's buzzer
- Flexible power: 12VDC battery, 24VDC battery with up to two feeds
- Maybe located up to 500 ft (wire distance) from the charger

### INSTALLATION

Follow these instructions for proper installation of the Remote Enunciator.

The Remote Enunciator must be connected to a Charles compatible charger unit.

For cutout size, refer to Figure 1. The Enunciator's face plate should be used as a template for hole locations.

#### Power Selection and Connection

The Enunciator can be powered by either battery input or both. Dual battery power input allows the Enunciator to automatically select the battery with the higher voltage. This is beneficial when one of the two batteries is discharged to a voltage lower than the minimum input voltage. The Enunciator will continue displaying, obtaining power from the charged battery. Input voltage range is 9–32VDC. Both inputs share a common ground. Therefore, if using two battery inputs, both batteries must also share a common ground.

Battery power (12VDC or 24VDC): Connect 18 to 22 AWG wire to the green power inputs. Strip wires to 3/8". Depress the small orange rectangle and insert the wire into the appropriate hole. Release the orange rectangle to lock.

#### Interface Connection

The Remote Enunciator wiring is limited to 500 ft maximum.

The interface is designed to connect using standard Cat 5 or better cable configured in a "straight" wiring path. Do not use a cross-over cable. While the cabling is Cat 5 or better, the data stream is NOT ETHERNET. Do not connect to any devices other than the charger. *Appendix A shows more information on making a cable and the appropriate connections on the back of the unit.*

Simply snap the Cat 5 cable plug above into the jack on the back of the remote. Route the cable to the charger and snap the other end into the jack located in the charger's Main Wiring Compartment.

*Note: The dust cover over the remote jack on the charger may have to be removed prior to installation.*

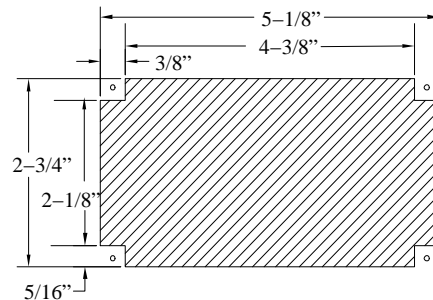


Figure 1. Mounting Dimensions

*Note: You may plug in the connection and/or apply power while the charger is operational.*

### OPERATION

The display and buzzer are identical to the charger. Both the charger and the Remote Enunciator will display the same information. When the buzzer sounds on the charger, it will also sound on the Remote Enunciator.

*Note: When the display is first plugged in, it may take a few cycles of the Remote Enunciator display to properly display all the text and characters. This is normal as the charger is reloading the Remote Enunciator's memory.*

*Note: If the Remote Enunciator is plugged in and/or power is applied during Setup Mode on the charger, the display may not properly show particular characters until the Setup Mode is exited and the charger is returned to normal operation. Allow for a few cycles of normal operation before re-entering Setup Mode.*

*Note: The Remote Enunciator has a "sleep" mode. If communication is lost with the charger or the charger's power is turned off, within 10 seconds, the Enunciator will blank the display and power down to conserve energy. When communication is restored with the charger, the display will automatically power back up.*

### Maintenance

Periodically wipe the face off with a soft cloth.

### SPECIFICATIONS

The specifications of the Remote Enunciator are provided in this section.

Display: Vacuum Fluorescent

Operating temperature: -40 to +65C (-40 to 149F)

#### Mechanical

Width: 5.25 inches (13 centimeters)

Height: 3.00 inches (8 centimeters)

Depth: 1.28 inches (3 centimeters)  
includes mounting flanges

#### Electrical

Input power:

DC Voltage: 9–35 VDC, 300mA max. 30mA in sleep mode

Communication protocol: proprietary

No user replaceable parts inside.

### WARRANTY & CUSTOMER SERVICE

#### Warranty

The CHARLES Marine & Industrial Group warrants the Remote Enunciator will be free from defects in materials and workmanship which cause mechanical failure for one (1) year, as set forth in the Limited Warranty. Notice of any alleged defect in material or workmanship must be provided within thirty (30) days of discovering the problem, and within the warranty period.

#### Customer Service

For technical assistance or customer service, contact Charles Marine Products at:

Charles  
Marine & Industrial Group  
400 S.E. 8th Street  
Casey, Illinois 62420-2054  
800-830-6523 (Toll Free)  
217-932-2317 (Voice)  
217-932-2473 (FAX)

Call to obtain a Returned Materials Authorization (RMA) number prior to returning a unit to Charles.

Most repaired or replaced units will be returned within 30 days, depending on the product type and availability of repair parts. Repaired units are warranted for either 90 days from the date of repair or for the remaining unexpired portion of the original warranty, whichever is longer.

Correspondence can be sent to Corporate Headquarters via the address below:

*Note: Do not return the unit to this address.*

Charles  
Marine & Industrial Group  
5600 Apollo Drive  
Rolling Meadows, IL 60008-4049  
U.S.A.  
847-806-6300  
www.charlesindustries.com

