

# MARINCO<sup>®</sup>

## Inlet

### Installation Guide

#### Installation Instructions for Marincos 50 Amp, 125 Volt and 50 Amp, 125/250 Volt Inlets

#### WARNING:

To prevent electrocution, make sure the inlet is not connected to a power source before installing it. Failure to comply with the following instructions could cause an electrical failure or fire.

#### Tools Required For Installation:

- Pencil
- Electric Drill
- 2-1/2" Hole Saw
- 1/8" Drill Bit
- Small Flat Blade Screwdriver
- #8 Oval Head Stainless Steel Screws (4) To Mount Stainless Steel Inlet or
- #8 Pan Head Stainless Steel Screws (4) To Mount Non-Metallic Inlet
- Cutting/Wire Stripping Pliers

#### New Installation

1. Determine mounting location in hull. Be careful that the location you select for the mounting hole does not go through any electrical wiring, plumbing or other obstruction. Be sure that power tools are properly grounded.
2. Mark the installation location and cut opening in hull using 2-1/2" diameter hole saw.
3. Place the inlet in the opening and align so that the inlet is square with the hull. Use the inlet as a template and mark the mounting hole locations with a pencil. Remove inlet and drill mounting holes using 1/8" drill bit.
4. Remove the rear safety enclosure (if included with this inlet) from the inlet.
5. Pull internal wiring through hull opening. Note: This inlet requires the use of 6 AWG wire. Using smaller gauge wire will result in overheating which could lead to an electrical fire.
6. Thread the wiring through the rear safety enclosure and the strain relief on rear enclosure (if included), then slide the mounting gasket over the wiring.
7. Back off terminal screws on the rear housing of the inlet.
8. Strip wire ends 5/8" to 3/4". **Make sure the wire strands are clean and not corroded.** If necessary, cut back the wire until clean wire is uncovered. **Do not solder the ends of the wire.** Insert wires into color coded openings (see below) on the back of the inlet. Tighten terminal screws to 22-25 in.-lbs. torque. **Make certain there is no wire insulation under any terminal.**

#### 125 Volt, 3-wire

Black - Load (125 Volt), White - Neutral, Green - Equipment ground

#### 125/250 Volt, 4-wire

Black - load (125 Volt), Red - Load (125 Volt), White - Neutral, Green - Equipment Ground

9. Tighten the strain relief clamp screws until they are snug around the wiring. Slide the rear safety enclosure onto the back of the inlet if it has one.
10. Position the gasket and inlet over the hull opening, align the mounting holes and attach the inlet to the hull with screws. Use #8 oval head stainless steel screws to install the stainless steel inlet or #8 pan head stainless steel screws to install the non-metallic inlet.

#### Retro Fit

1. Turn off power to inlet at breaker box.
2. Remove old inlet from hull. Disconnect inside wiring from inlet.
3. Examine wiring for corrosion. If wires are corroded, cut off corroded portion and re-strip wiring.
4. Follow "New Installation" instructions above.

#### Note:

1. The installation of hull power inlets by boat builders requires compliance with the Federal Regulations covering Electrical Systems, 33CFR 183, Subpart 1, as well as the standards of the National Fire Protection Assn., NFPA 302, Chapter 8, and the American Boat and Yacht Council's Standards and Recommended Practices for Small Craft, Project E-11.
2. All power inlets covered by this instruction are equipped with compression screw terminals, which are suitable for use with stranded wire complying with Paragraph 183.425(a) of 33CFR Part 183.
3. If this inlet is provided with a rear safety enclosure, which provides integral strain relief and protection of energized terminal, no additional enclosure is required.

#### Marinco Easy Lock™ System

All Marinco power inlets feature the exclusive Easy Lock System. Using an Easy Lock ring on your cordset will eliminate cross threading. Marinco Easy Lock rings can only be used on Marinco hull inlets marked "Easy Lock". All new Marinco cordsets come with an Easy Lock ring. Or, Easy Lock rings can be purchased from your retailer, for retrofit to your current Marinco cordset.



To use the Easy Lock System, align the lock locator tabs on the Easy Lock ring on the cordset with the slots on the sides of the threaded boss on the inlet. Push the Easy Lock ring onto the boss and twist 1/8 turn for a positive water-proof connection.

If you choose not to use the Easy Lock System, this inlet will accept all threaded cordset rings.



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