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Marinco 12VCPS3 70A Trolling Motor Plug & Receptacle User Manual

Model: 12VCPS3

Brand: Marinco

1. INTRODUCTION

The Marinco 12VCPS3 70A Trolling Motor Plug & Receptacle is designed for modern trolling motors, offering a compact and waterproof electrical connection. This robust system ensures reliable power delivery for 12V, 24V, 12/24V, 24/36V, 36V, or 48V systems, supporting both 2-wire and 3-wire configurations. The plug features an integrated strain relief and a thumbprint locator for secure mating with the keyed receptacle, while the receptacle includes a watertight sealing cap for enhanced protection in marine environments.



Image 1.1: Marinco 70A Trolling Motor Plug and Receptacle. This image displays the complete plug and receptacle unit, highlighting its robust construction and design for marine use.

2. SAFETY INFORMATION

Always disconnect power before installation or maintenance. Ensure all connections are secure and properly insulated to prevent electrical shorts or hazards. This product is designed for marine use; however, proper installation by a qualified individual is recommended to ensure safety and optimal performance. Adhere to all local electrical codes and regulations.

3. SETUP & INSTALLATION

3.1 Tools Required

- Wire strippers/crimpers
- Screwdriver set (Phillips and flathead)
- Drill with appropriate hole saw (for receptacle mounting)
- Marine-grade sealant (for watertight installation)
- Measuring tape or ruler

- Electrical tape or heat shrink tubing

3.2 Installation Steps

1. **Prepare Mounting Location:** Choose a flat, secure surface for the receptacle. Refer to the product dimensions for proper hole size.

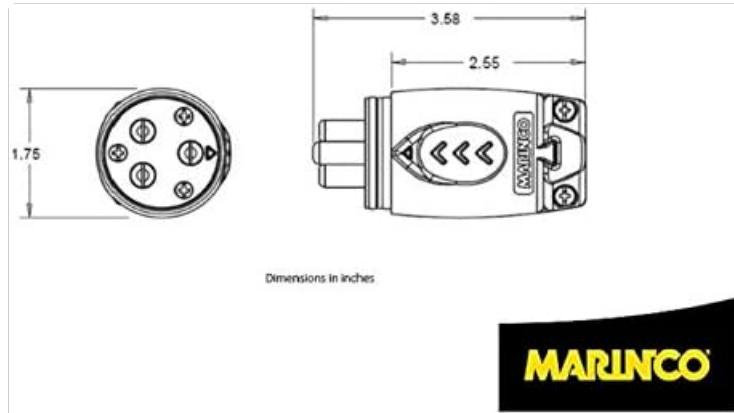


Image 3.1: Marinco 70A Plug and Receptacle Dimensions. This diagram provides precise measurements for the plug and receptacle, essential for accurate installation.

2. **Mount the Receptacle:** Drill the necessary hole(s) and secure the receptacle using appropriate fasteners. Apply marine-grade sealant around the edges to ensure a watertight seal.



Image 3.2: Marinco 70A Receptacle Close-up. A detailed view of the receptacle, showing its robust construction and sealing cap.

3. **Wire the Receptacle:** Connect the appropriate gauge wires (e.g., 6 gauge for 70A applications) to the receptacle terminals. Ensure correct polarity (positive to positive, negative to negative). The receptacle supports both 2-wire and 3-wire configurations.
4. **Wire the Plug:** Strip the ends of your trolling motor wires and insert them into the plug's terminals. The plug features an integrated strain relief to secure the wires and prevent damage. Ensure the wires are firmly seated and secured with the set screws.

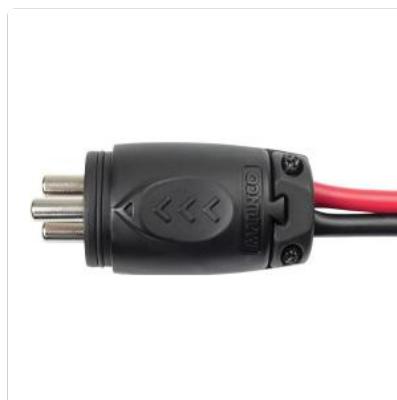


Image 3.3: Marinco 70A Plug Close-up. This image provides a detailed view of the plug, showing its internal wiring connections and strain relief mechanism.

5. Secure Connections:

Double-check all wire connections for tightness and proper insulation.

Note on Wiring: Some users have noted that attaching heavy gauge wire (e.g., 6 gauge) to the ferrule system can be challenging. Ensure the wire is fully inserted into the ferrule before tightening the set screws to achieve a secure connection. Extra ferrules are often provided for convenience.

4. OPERATING INSTRUCTIONS

To connect your trolling motor or other electrical device, align the keyed plug with the receptacle's opening. The plug features a thumbprint locator for easy alignment. Insert the plug firmly into the receptacle until it is fully seated. To disconnect, simply pull the plug straight out from the receptacle. The watertight sealing cap on the receptacle should be closed when not in use to protect the contacts from water and debris.



Image 4.1: Marinco 70A Receptacle Installed. This image shows the receptacle mounted on a surface, demonstrating its compact and flush design.

5. MAINTENANCE

- Regular Inspection:** Periodically inspect the plug and receptacle for any signs of wear, damage, or corrosion.
- Cleaning:** Clean the contacts and exterior of the plug and receptacle with a clean, dry cloth. Avoid using abrasive cleaners or solvents.
- Lubrication:** A small amount of dielectric grease can be applied to the electrical contacts to further protect against corrosion and ensure smooth connections.
- Sealing Cap:** Always ensure the watertight sealing cap on the receptacle is properly closed when the plug is disconnected to prevent water ingress.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power to device	Loose connection Corroded contacts Damaged wiring	Ensure plug is fully seated. Check and tighten all wire connections. Clean contacts. Inspect wiring for damage and replace if necessary.
Difficulty inserting/removing plug	Misalignment Debris in receptacle Lack of lubrication	Ensure proper alignment using the thumbprint locator. Clear any debris from the receptacle. Apply a small amount of dielectric grease to the contacts.
Intermittent power	Loose connections Corrosion	Check and secure all wire connections. Clean any corrosion from contacts.

7. SPECIFICATIONS

Feature	Detail
Brand	Marinco
Model Number	12VCPS3
Continuous Rating	70A
Voltage Compatibility	12V, 24V, 12/24V, 24/36V, 36V, 48V systems
Wire Configuration	2 or 3-wire universal design
Material	Plastic (housing), Plated Brass (electrical components)
Color	Black
Item Weight	12 ounces
Product Dimensions	9"D x 4.88"W x 2.88"H
Mounting Type	Panel mount
Key Features	Integrated strain relief, thumbprint locator, watertight sealing cap, corrosion resistant

8. WARRANTY & SUPPORT

For warranty information, technical support, or replacement parts, please contact Marinco customer service directly.

Refer to the official Marinco website or your product packaging for the most current contact details and warranty terms. You can visit the [Marinco official website](#) for more information.

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