



# High Gain Marine Antenna Assembly

Revision: 1.3



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## 1. Introduction

### 1.1 Purpose

This document describes the assembly procedures for the OmniSite High Gain Marine Antenna. This externally mounted high gain, omni-directional antenna is used to improve cellular reception in areas where our standard phantom antenna is not sufficient.

### 1.2 WARNINGS

**ONLY** bend the cable carefully around a smooth surface using a “sweeping” bend as shown below.



**NEVER KINK THE CABLE!** This may cause permanent damage.

Weatherproofing the connections is critical to stop any water from entering the enclosure. Weatherproofing the exposed outdoor coaxial connectors is shown on page 10 of this document.

### 1.3 Materials

#### Materials Included:

Marine Antenna 810-950/1800-1980 MHz

Metal Tube with Two Black Hole Plugs

Adjustable Tilt Mount

Two 3" Strips of Weather Sealant & Marking Tape

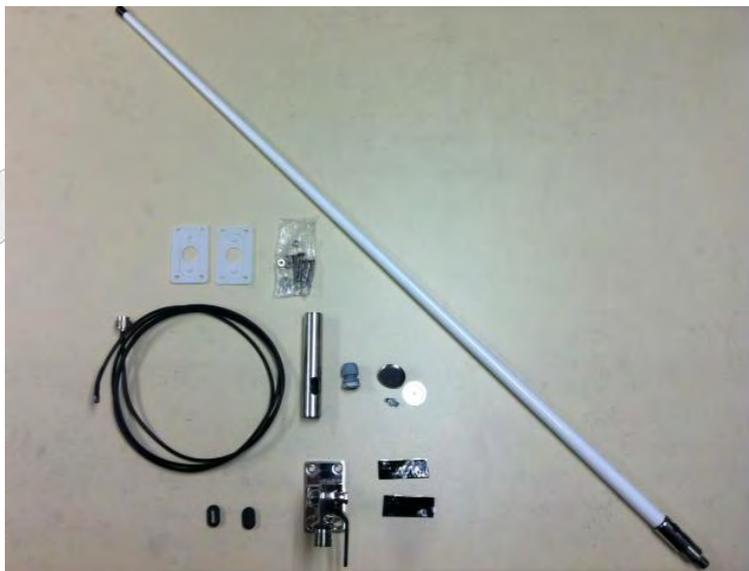
Mounting Accessories

Hole Plug for Enclosure

Cord Grip for Coax Cable

#### Optional Materials:

Coax Cable either being 10', 30', or 50'



### 1.4 Tools Needed

1" Crescent Wrench

Drill with  $\frac{3}{4}$ " Drill Bit

## 2. Enclosure Instructions (Always Power-Off the Unit Before Starting!)

1. Remove the coax cable from the Antenna by unscrewing the top.



2. Remove the Phantom Antenna from the Enclosure by unscrewing the nut with a wrench.
3. Place the hole-plug on top of the Enclosure.



4. Insert the washer through the screw of the hole-plug.

5. Tighten the hole-plug by taking the locknut and screwing it very-tight! This is your only protection against a future leak so make sure this is very snug.



6. Drill a  $\frac{3}{4}$ " inch hole at the bottom of the enclosure.  
*Note: This hole may be placed anywhere along bottom of the enclosure. Be careful not to hit wires.*



7. Insert the short end of the cord grip through the hole at the bottom of the enclosure.



8. Attach the nut on top of the cord grip to secure the cord grip to the enclosure.



9. Run the smaller end of the coax cable through the bushing nut.



10. Push the cable through the Cord Grip into the enclosure.



11. Smoothly route the cable around the Unit and attach the cable to the Radio.



12. Make sure the cable fits snug on the side of the Unit.

**MAKE SURE NOT TO KINK THE CABLE**



13. Slide the bushing nut up into the cord grip and finger tighten it to make sure the cable will not move.



### 3. Antenna Instructions

14. Remove the Marine Antenna from the tube and carefully remove any extra packaging.
15. Run the large end of the coax cable through the bottom of the tube.
  - a. Bottom side of the tube has the hole near the end.
  - b. Do not run the cable through the hole on the side.



16. Attach the coax cable to the antenna (**finger-tight only!**)



17. Wrap one of the black 3" weather tape strips around the connection of the antenna and coax cable.

*Note: Second strip is for a spare if needed*



18. Once the tape is applied, slide the tube up to the antenna and screw the tube on finger-tight.

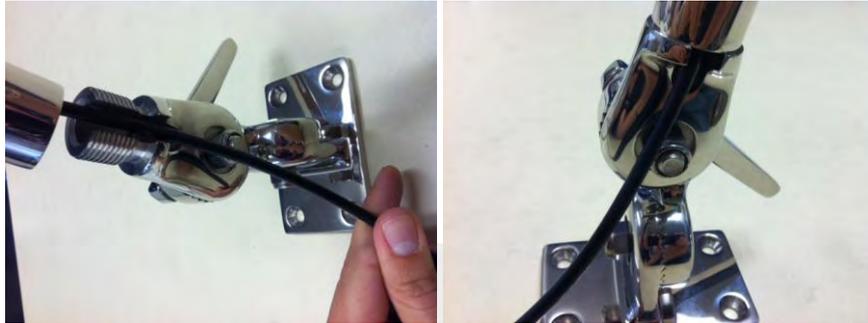


19. Place the solid rubber hole-plug that came with the antenna into the hole.

*Note: Second plug with a slit in the middle is not needed*



20. Carefully screw the bottom end of the pipe into the top of the mounting bracket by running the wire through the slit and tightening all the way finger-tight.



21. Move the lever to a vertical position to allow the Marine Antenna to move 180 Degrees.
22. Place the lever in a horizontal position to lock the Marine Antenna into a desired position. The antenna should be in the vertical position now.
23. Mounting accessories have been included to mount the Marine Antenna on a solid surface. If pole mounting is desired, obtain U-Bolts at your local hardware store to attach the supplied mounting bracket to a pole.

