

## Tech Tips

This antenna will read "short circuit" when tested with an ohm meter or continuity tester.

To achieve the IP67 weather resistant rating, the weather boot must be installed using RG8 or RG213 coaxial cable.

## Cleaning Instructions

To clean the antenna, use mild dishwashing liquid (one that is not harsh to the hands and without ammonia) in lukewarm water. **WARNING:** Do not let paint solvents, cleaning solvents, or adhesive caulking come in contact with the antenna. Chemicals in these materials might destroy the finish.

Thank you for choosing a Shakespeare Phase III antenna product. Shakespeare works hard to build reliability and durability into all of its products for maximum customer satisfaction. Customer comments are welcome.

### FOR YOUR RECORDS

Antenna Serial # \_\_\_\_\_

Model \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Shakespeare Dealer \_\_\_\_\_

**Shakespeare**

### Electronic Products Group

U.S. Operations: 6111 Shakespeare Rd. · Columbia, SC 29223

803-227-1590 · Fax: 803-419-3099 · [www.shakespeare-ce.com/marine](http://www.shakespeare-ce.com/marine)

U.K. Operations: Enterprise Way, Fleetwood, Lancashire, FY7 8RY, England

+44 (0) 1253 858787 · Fax: +44 (0) 1253-859595

Shakespeare Company, LLC is a subsidiary of Newell Brands Inc. (NYSE: NWL)

# Shakespeare® Style 6500-WB PHASE III 4' BROAD BAND VHF Installation Instructions

## IMPORTANT: Please read all instructions before installing.

Before you start, check parts supplied against those listed.

### Supplied Parts

- 1 Antenna Assembly with rubber O-Ring
- 1 Mounting Bracket
- 2 U-Bolts with hardware installed
- 1 Weather Boot to fit RG8 or RG213 cable
- 1 Plastic protective cap (discard after installation)

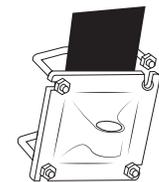
### Tools required:

Screwdriver, drill, drill bits sized according to the cable you are using, wrench

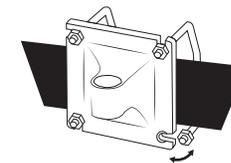
Other tools or supplies that are appropriate to your specific application may also be needed. (Refer to mounting options)

### Required materials:

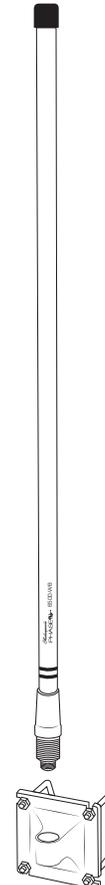
- 1 Coaxial cable as required, RG8 or RG213 recommended
- 1 Male PL-259 connector appropriate to the size coax you are using
- 1 Connector for connection to your VHF radio
- 4 Stainless steel screws, if mounting flat to a wall (Do not use countersunk head type)



Vertical Mast



Horizontal Rail



The Style 6500-WB is a Phase III series 145-165 MHz VHF Marine Antenna with stainless steel ferrule and female SO-239 connector, The antenna is 4' overall length, including the mounting bracket. The design of the Phase III series facilitates mounting to a mast or rail, flat surface, or attachment to a standard marine mount with 1"-14 thread, using the 4006 adapter (not supplied).

### Select a location for the antenna.

Choose a location that is as high as feasible, as free as practical from obstructions, and as far as possible from other antennas and strong sources of RF. Cable runs should be kept as short as possible. The use of RG-8 or RG-213 coax (not included) is highly recommended, to reduce signal attenuation caused by the cable.

### Mounting Options:

#### How to mount the antenna to a mast, rail or to a flat surface

To mount the antenna to a flat surface :

1. Using the Mounting Bracket as a template, locate the mounting position on a flat surface and mark the mounting screw locations (screws not supplied). Pre-drill the screw holes as required and attach the mount securely with four screws.
2. Thread the Antenna Assembly, with O-Ring installed, into the 1"-14 threads in the mount. Tighten securely.
3. Slide the Weather Boot onto the RG8 or RG213 cable (oriented as shown on next page) and install a male PL-259 connector onto the cable. Connect the cable connector to the female SO-239 connector in the base of the Antenna Assembly and tighten securely. To achieve the IP67 rating, cover the UHF connectors completely with the Boot.

To mount the antenna to a mast or rail:

1. Position the mounting bracket against the vertical mast or horizontal rail, and refer to the illustration showing the method for U-Bolt attachment. The U-Bolts are supplied with the hardware attached, allowing the installer to secure the mount to the mast or rail without removing, or losing the hardware. Be sure to position all of the hardware (flat washer, lock washer, and hex nut) on the front side of the mount, before tightening the hex nuts.
2. Repeat steps 2 & 3 above. to attach the antenna and o-ring to the mount, and to connect the coaxial cable to the antenna.

#### How to mount the antenna on a 4187-HD Ratchet Mount

This antenna can be mounted self supporting only if you are using the recommended Shakespeare Style 4187-HD stainless steel ratchet mount and 4006 Adapter (both sold separately). The slot in the side of the ratchet mount will accommodate up to RG-213 size coax cable.

1. Use the 4187-HD mount as a template and mark the position of the mounting holes on the deck or bulkhead, pre-drill screw holes, be sure to heed any cautions, included with the antenna mount, regarding drilling fiberglass surfaces.

