

Thank you for purchasing a Shakespeare antenna product. Customer comments are welcome. Before installing, please study the diagram and check parts supplied against those listed.

**IMPORTANT! Please read all instructions before installing.**

The Style 399-1 is a two-piece, collinear-phased 5/8-wave VHF marine antenna of 9'6" (2.9 m) overall length with chrome-plated brass ferrules. The two-section antenna can be deck or side mounted using a Style 410-R mounting kit (sold separately).

**Tools required: Crescent wrench or 1/2" open-end wrench, soldering iron (40-watt min., 75-watt. max), resin core solder, pocket knife, wire cutters.**

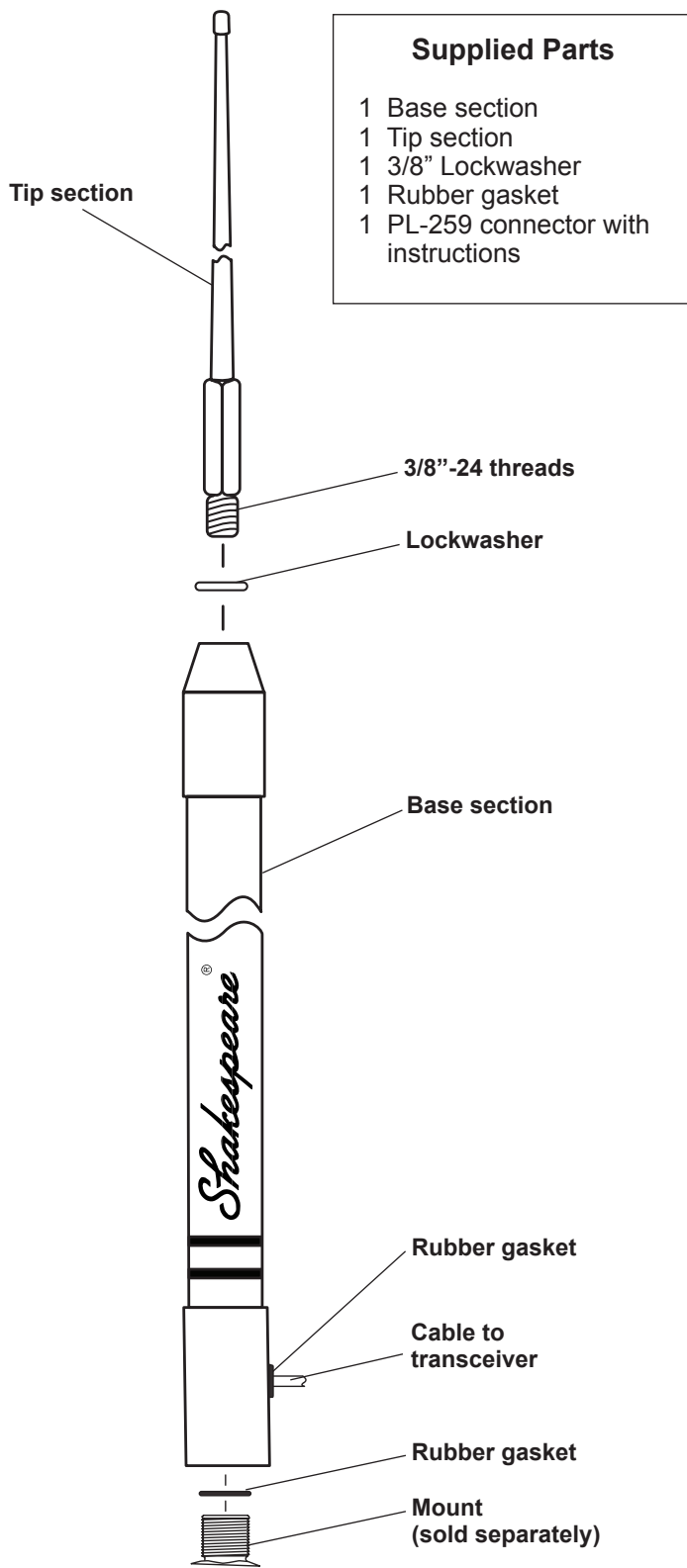
**Installation Instructions**

Choose a mounting location that is as high as possible, as free as possible from obstructions, and as far as possible away from other antennas.

1. Mount the antenna using a Shakespeare Style 410-R Mounting Kit (sold separately). Follow the directions included with the mount you choose.
2. Assemble the antenna's Tip section to its Base section including the 3/8" 24-thread lockwasher (supplied) as shown in the diagram, and tighten securely. Position the rubber gasket (supplied) according to the illustration at right and tighten the antenna securely onto the mount kit's lower support. **This antenna requires an upper support bracket**, which should be located at least 3 to 5 feet from its base.
3. Route the cable to your transceiver, keeping it as far as possible from other electrical equipment and cables. Any excess cable should be rolled in a coil of at least 8" diameter and stowed in an out-of-the-way place, away from other electrical cabling. Install the PL-259 connector according to the instructions packed with the connector.

This antenna requires no external or internal ground system, and works equally well on fiberglass, wood, or metal boats.

**Tech Tip: This antenna will read "short circuit" when tested with an ohm meter or continuity tester. The 50-ohm coaxial cable attached can be shortened as required. However, it should remain at least 3 feet (0.9 m) in length, measured from the point where the cable exits the antenna.**



- Supplied Parts**
- 1 Base section
  - 1 Tip section
  - 1 3/8" Lockwasher
  - 1 Rubber gasket
  - 1 PL-259 connector with instructions

35-90-1101-00

**Shakespeare Electronic Products Group**

U.S. Operations: 6111 Shakespeare Rd. · Columbia, SC 29223 · 803-227-1590 · Fax: 803-419-3099 · www.shakespeare-marine.com  
 U.K. Operations: Enterprise Way, Fleetwood, Lancashire, FY7 8RY, England · +44 (0) 1253 858787 · Fax: +44 (0) 1253-859595 · www.vtronix-antennas.com