Galaxy® Style 5223-XT

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 Galaxy® Style 5223-XT is a continuous-load, end-fed 1/2-wave CB Marine antenna with matching cable attached. This one-section 8' (2.4 m) antenna is tuneable, and requires only a 3/8" hole for passage of the included cable, which can be cut to length. The antenna has a stainless steel ferrule and can be mounted self-supporting.

Tools required: mini screwdriver, soldering iron (40-watt min.,75-watt max.), resin core solder, pocket knife, wire cutters, drill and 3/8" drill bit.

Installation Instructions

Choose a mounting location that is as high as possible, as free as possible from obstructions, and as far as possible from other antennas and strong sources of RF, but within reach of the antenna's cable.

1. Mount the antenna using a Shakespeare Style 4187 Ratchet Mount (sold separately) or use a Style 410-R Mounting Kit and a Style 4008 Extension Mast (each sold separately) to form a 16' (4.8 m) antenna system. Follow the instructions included with the mount you choose.
2. Route the cable through the bulkhead–drill a 3/8" diameter hole. Keep the cable run 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.

   The included cable can be shortened as required. However, it should remain at least 3 feet in length (0.9 m), measured from the point where the cable exits the antenna. Cable run can be lengthened using suitable connectors (sold separately) and 50-ohm RG-58 or RG-8 coax (each sold separately) without detrimental effect to antenna performance.
3. Install the PL-259 connector (supplied) according to the instructions packed with the connector. Double-check all solder connections before connecting your transceiver.
4. The Galaxy® Style 5223-XT CB Marine antenna is pre-tuned at the factory for Citizens Band. However, you may peak the adjustable trimmer capacitor for optimum performance after installation is complete, if desired. See illustration.

Procedure for trimmer capacitor adjustment:

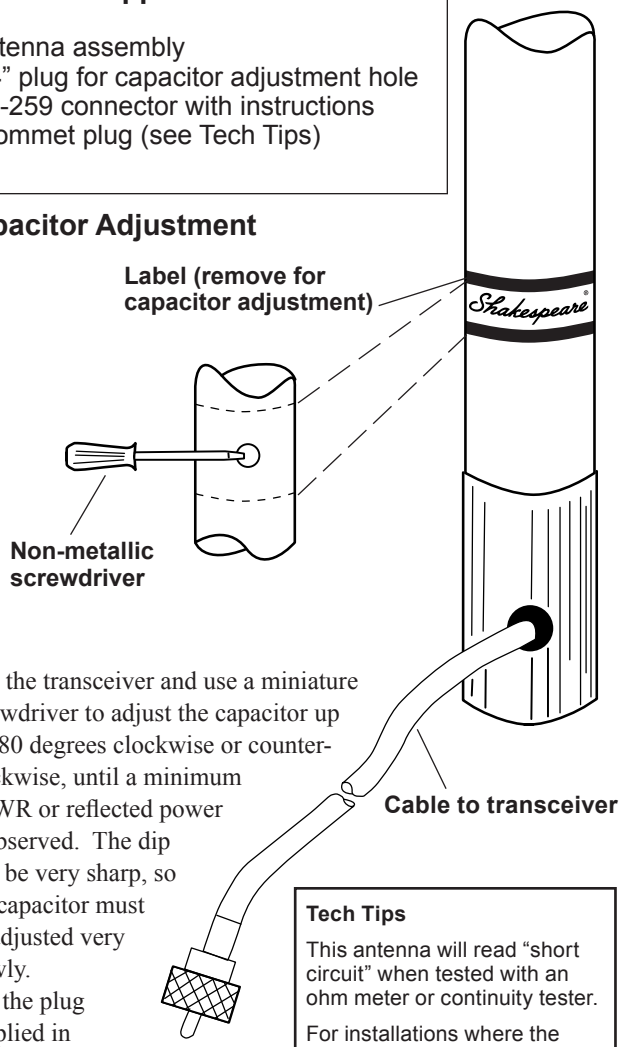
a. Connect a VSWR bridge or watt meter between the transceiver and the antenna, as close to the transceiver as possible.

b. Remove the Shakespeare label to uncover the 1/4" diameter hole located near the base of the antenna.

Supplied Parts

1 Antenna assembly
1 1/4" plug for capacitor adjustment hole
1 PL-259 connector with instructions
1 Grommet plug (see Tech Tips)

Capacitor Adjustment



c. Key the transceiver and use a miniature screwdriver to adjust the capacitor up to 180 degrees clockwise or counter-clockwise, until a minimum VSWR or reflected power is observed. The dip will be very sharp, so the capacitor must be adjusted very slowly.

d. Use the plug supplied in the hardware package to cover the hole after adjustment.

Tech Tips

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

For installations where the cable exits through the bottom center of the antenna's ferrule, replace the grommet at the exit hole in the ferrule with the supplied Grommet Plug.

No elaborate grounding systems required. This antenna works equally well on fiberglass, wood, or metal boats.

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.

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