

IMPORTANT! Please read all instructions before installing.

Thank you for purchasing a Shakespeare antenna product. Shakespeare works hard to build reliability and durability into all of its products for maximum customer satisfaction.

The Galaxy[®] 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 tunable, 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:

- Soldering iron (40-watt min., 75 watt max.)
- Resin core solder
- Drill and 3/8" Drill Bit
- Mini Screwdriver
- Wire cutter
- Pocket knife

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 4187 or 5187 Ratchet Mount (sold separately) or use a Style 410-R Mounting Kit and a 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 radio.
4. The Galaxy[®] 5223-XT CB Marine antenna is pre-tuned at the factory for Citizens Band. How

ever, 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.
- C. Key the radio and use a miniature screwdriver to adjust the capacitor up to 180 degrees clockwise or counterclockwise, 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.

CLEANING INSTRUCTIONS

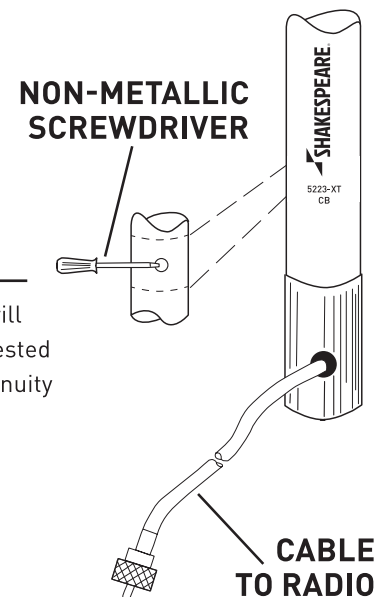
To clean the antenna, use mild dishwashing liquid (one that is not harsh to the hands and *without ammonia*) in lukewarm water.

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.

SUPPLIED PARTS:

- 1 Antenna assembly
- 1 1/4" plug for capacitor adjustment hole
- 1 PL-259 connector with instruction sheet
- 1 Easy route PL-259

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



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