

Questus

Marine, Inc.

INSTALLATION INSTRUCTIONS

SELF LEVELING RADAR ANTENNA MOUNT

MODEL300G

Mast Mount



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Installation Instructions

Model 300G

Questus Self Leveling Radar Mount

Congratulations, you have just purchased a system designed to maximize your return on your investment in marine radar.

Please read over these instructions fully before attempting to install your Questus Self Leveling Radar Mount (hereafter referred to as the **Q-mount**)

NOTE: In applications where significant interference exists between the Q-mount and a head sail, it is advisable to install an optional mast mount sail guard to prevent damage to the sail or radar antenna.

Before You Begin:

- ▶ **Verify Kit Materials:** Locate the following components (and proper quantities) in your Q-mount kit:
 - 1 Pivot/Damper Assembly
 - 1 Starboard Mounting Bracket
 - 1 Port Mounting Bracket
 - 1 Stainless Steel Antenna Cradle
 - 2 Hinge Pins
 - 2 Retaining Washers
 - 2 Cotter Pins
 - 8 1/4-20 X 1/2" Long Bottom Head Cap Screws
 - 2 1/4-20 X 1-1/2" Long Socket Head Cap Screws
 - 1 1/2 MI Capsule Removable Loctite Thread Locker
 - 1 Rubber Edge Guard
 - 3 Cable Ties
- ▶ **Tools Required:** You will need as a minimum, a hammer, a center punch, an electric drill, a 17 (or 13/64", or 5mm) drill bit, a 1" diameter (25 mm) hole saw, a 1/4-20 UNC-2B tap, a tap wrench, and a pair of pliers.

STEP 1: Assemble Mounting Brackets to Pivot/Damper Assembly

- ▶ Orient the pivot/damper assembly and the starboard and port mounting brackets as shown in **(Figure 1)**.
- ▶ Align the through holes in the pivot/damper and the brackets and insert the hinge pins, with head at top.
- ▶ At lower end of the two hinge pins add a retaining washer and a cotter pin.

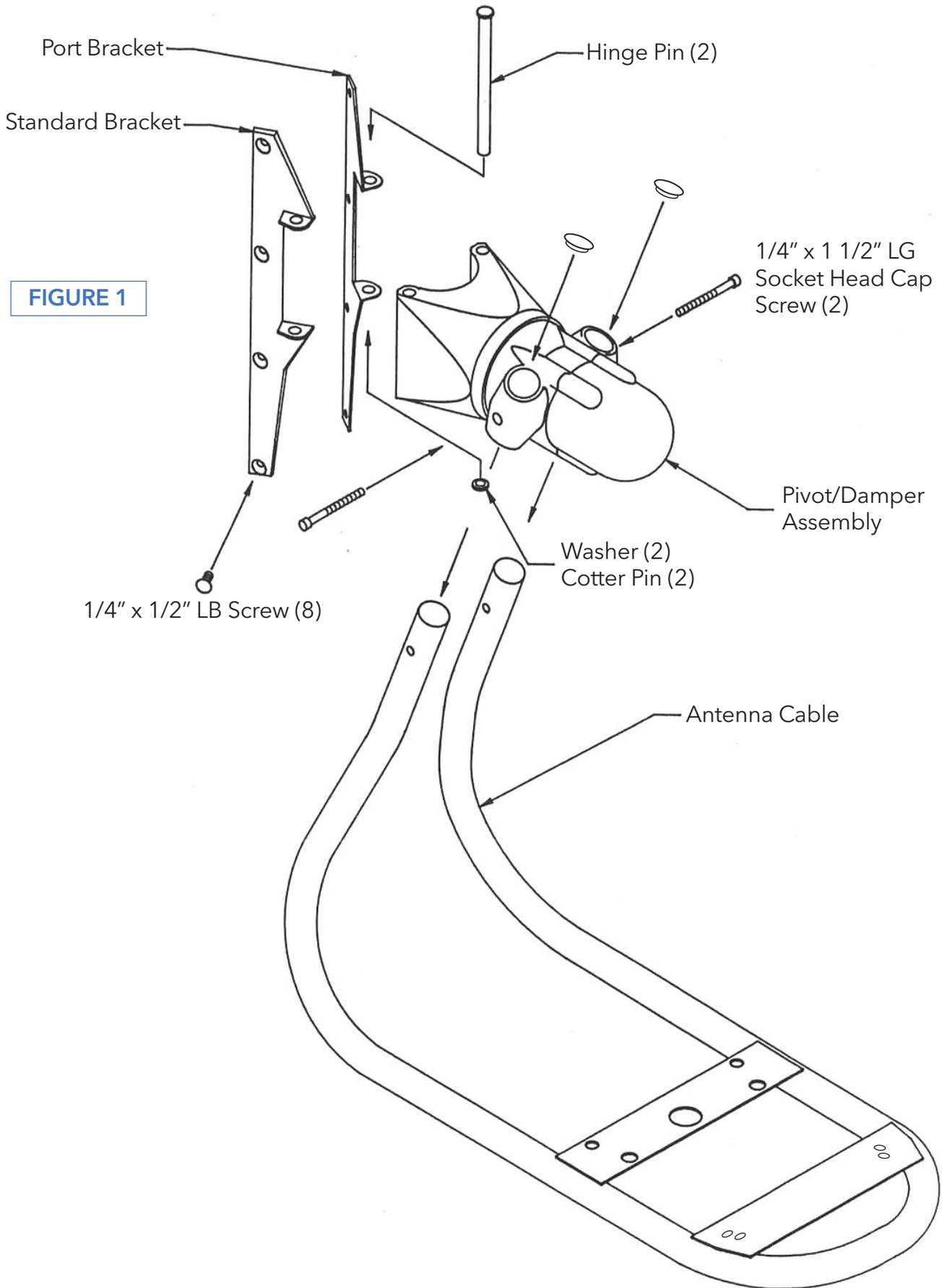
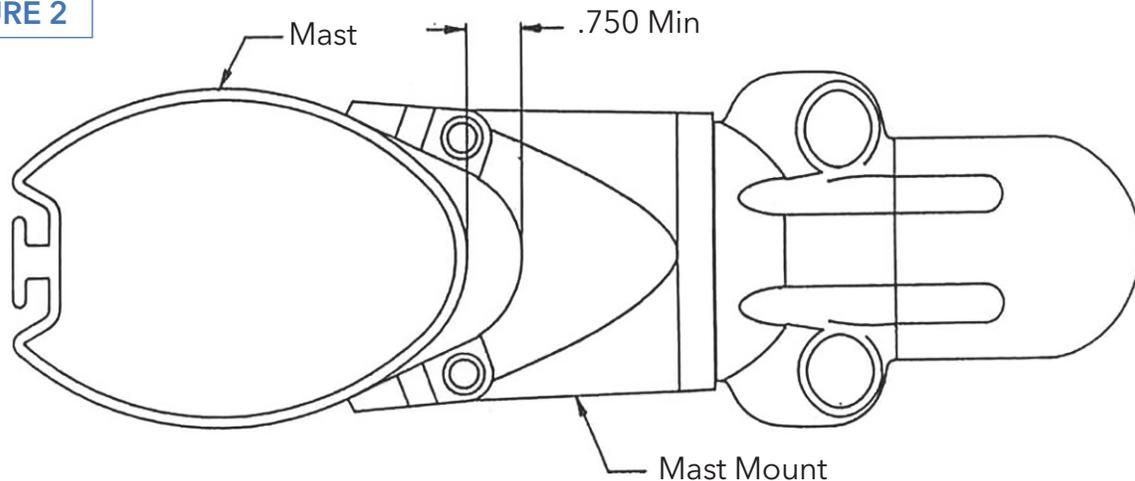


FIGURE 1

STEP 2: Transfer Mounting Hole Locations to Mast

- ▶ Hold mount against mast with a 3/4" spacer of some kind between the mount and the mast. Position straight fore and aft and horizontal (adjust position for mast rake if mounting on un-stepped mast). (See Figure 2).

FIGURE 2



HINT: Two large hose clamps with sufficient padding to prevent scratching of painted surface will hold the mount in place and permit small adjustment in position.

- ▶ Mark the center of the bracket holes, four per side, on the mast using a suitable pen or pencil, Remove the mount,

STEP 3: Drill and Tap Mounting Holes and Attach Q-Mount

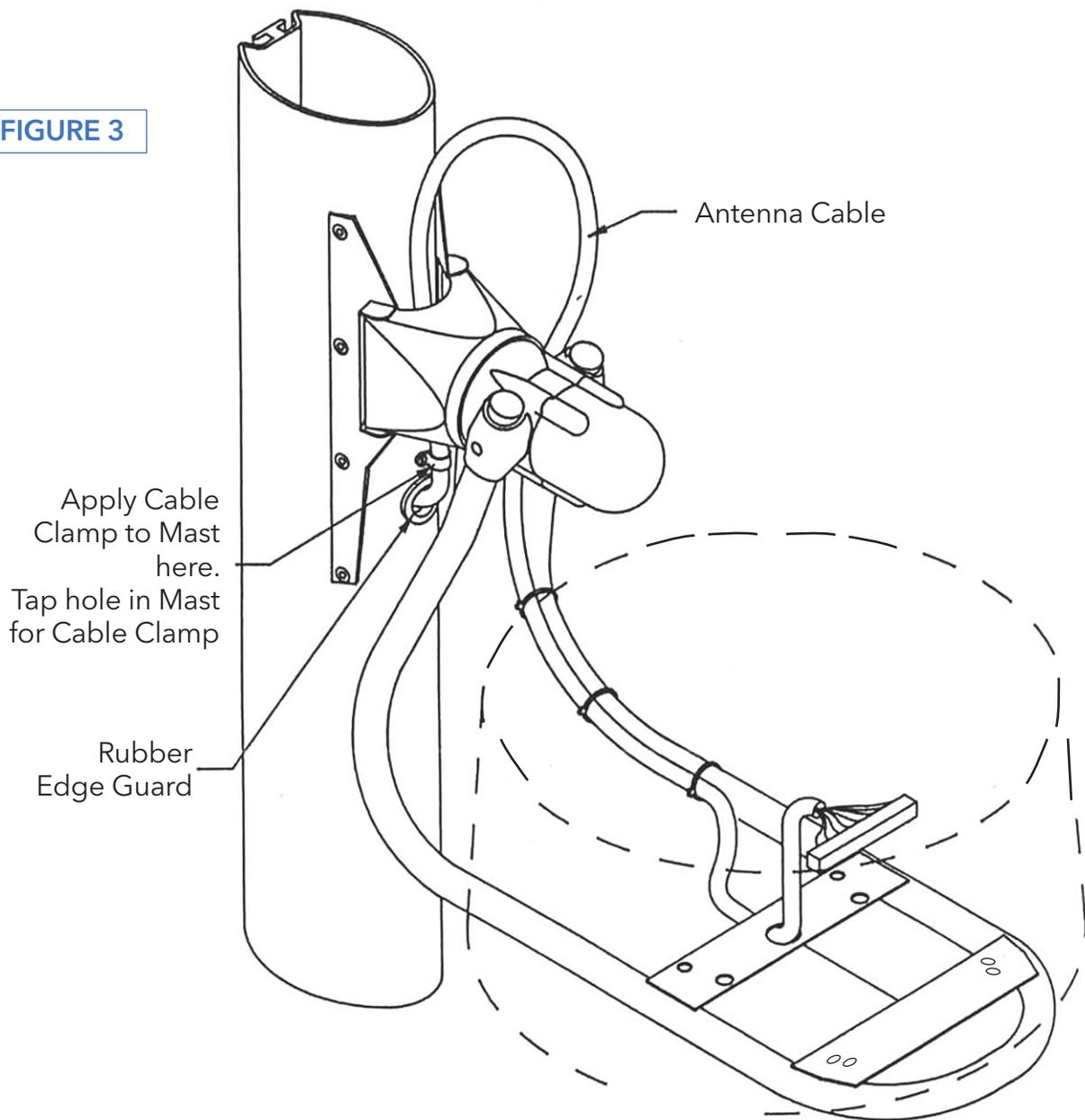
- ▶ Make a small indent at the center mark of each hole using a shammer and center punch.
- ▶ Drill a #7 hole perpendicular to the surface of the mast at each indent and tap using a 1/4-20 UNC-2B tap and tap wrench. Mount the Q-Mount to the mast using the 8 1/4" x 1/2" long screws included in the kit. Use a few drops of loctite on each screw to prevent loosing and corrosion.

NOTE: For attachment to a wooden mast substitute a 1/8" drill for the #7 drill above and do not tap. Fasten the Q mount to the mast using 8 #14 x 1" long wood screws (not included in kit).

STEP 4: Wire and Mount Radar Antenna Dome

- ▶ Using a hole saw, drill a 1" hole for the radar antenna cable to exit the mast approximately 5" (125 mm) below the centerline of the pivot damper. Be sure to carefully round the edges of the hole and install the rubber edge guard included in the kit to prevent chaffing.
- ▶ Pull the cable up the mast and out the hole. Fasten the cable to the mast using an appropriately sized cable clamp per **(Figure 3)** to prevent the weight of the cable from pulling it down the mast.
- ▶ Attach the cable to the antenna per radar manufactures instructions. Fasten the radar antenna dome to the cradle leaving enough slack in the cable to form a loop that will go up over the Mast Mount Base and back down between the mount and the mast as shown in **(Figure-3)**.

FIGURE 3



- ▶ **WARRANTY:** Questus Corporation warrants that Self Leveling Radar Mount products will be free from defects in materials and workmanship for a period of one year, any part that proves defective in normal usage during the one year period will be repaired or replaced by Questus Corporation.

This warranty is subject to the following conditions and limitations:

- Questus Corporation liability shall be limited to repair or replacement, at Questus Corporation's discretion, of goods or parts defective in materials or workmanship. This shall be the buyer's exclusive remedy.
 - Except where otherwise specified, quality shall be in accordance with Questus Corporation specifications.
 - The Self Leveling Radar Mount must be installed and maintained properly and used under normal conditions in the application for which it was intended.
 - This warranty does not apply to any products that were improperly installed or maintained, or subject to misuse or negligence during normal operation and storage.
 - Questus Corporation shall not be responsible for shipping charges or installation labor associated with any warranty claims.
- ▶ Failure to follow installation instructions or otherwise be aware of the information contained in the installation instructions may void this warranty.
 - ▶ The limited warranty is in lieu of all other warranties; any implied warranties are limited in duration to the duration of the warranty stated here.
 - ▶ Questus is not responsible for consequential damage of any sort, to the extent that such exclusion is permitted by applicable law.

Return this portion to Questus Corporation

PRODUCT INFORMATION CARD

Model: 300G Mast Mount Date of purchase: _____

Owner: _____ Phone: _____

Street: _____

City: _____ State: _____ Zip Code: _____

This Radar Mount was purchased from:

Name: _____

City: _____ State: _____ Zip Code: _____

How did you hear about this radar mount? _____

Installation Information:

Configuration Option: _____ Radar Model: _____

Boat Manufacturer: _____ Accessories Purchased: _____

Boat Length: _____ Installed by: _____

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