

Installing a HG3-QRO to a Buddypole™ Mast

We have had several customers ask if there are alternatives for masts for the QRO Antenna. We have successfully used a Buddypole™ antenna mast for that purpose. This is a lightweight (~4 lbs) tripod that holds up very well with the QRO system.

What you will need is a HG3-QRO system with all its hardware and 2 products from Buddypole.

- 1) The Tripod Base <https://www.buddipole.com/budtrip2.html>
- 2) The Tripod Mast (9' 6") <https://www.buddipole.com/buddipolemast.html>
- 3) 2 Each Rubber Strips: 3-1/4" x 1-1/4" x 1/16" thick. You can substitute Black Electrical Tape for this spacer.
- 4) 1 #10-32 x 1-1/2 Phillips Head Pan Screw (Stainless Steel preferred)
- 5) 1 #10-32 Self-clinching nylon nut (Stainless Steel preferred)

The Buddypole has 6 extendable sections. Section 1 is references at the bottom with section 6 at the top.



First, you will need to remove the pin that mounts the coupler to the mast. Remove the coupler and locate a #7 drill bit or .201 diameter bit and drill out the holes in the mast and the coupler.



Next, we need to re-install the drilled-out coupler and the loop supporting brackets using the #10-32 x 1-1/2" screw and Nylock nut.



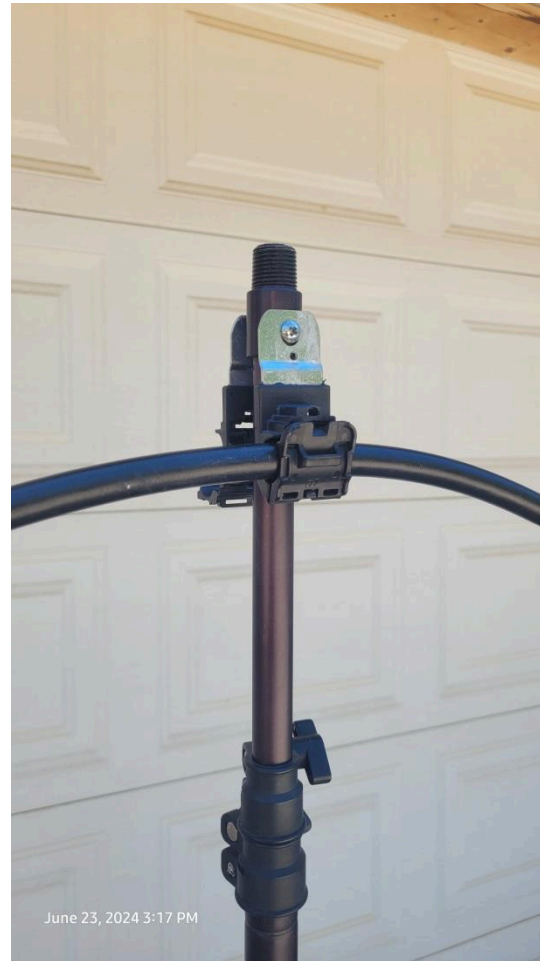
Gather all the QRO parts as shown below. Extend Section 3 of the mast fully. We will use this position to support the bottom bracket of the HG3 QRO tuner as seen below. If you cannot locate any rubber sheet you can build a spacer using black electrical tape. You will need to determine how much tape is needed. Note that the rubber/tape is at the bottom of the Section 3 extension.



Install the HG3-QRO lower mount at this location and install the 2 flat washers and wing nuts. Do not tighten these nuts yet. Repeat the process for the HG3-QRO's top mount. When complete you should have about 4 inches to the bottom of Section 4 of the mast. You can now tighten all 4 wing nuts.



With the HG3 QRO's tuner mounted it's time to install the black induction loop. Before installing the Radiation loop (flexible coax) and mark the jacket. Center that mark with the center of the cable mounting bracket and tighten up the clamp. If you have the 80M options do the same procedure and tighten the clamps.



Connect the Radiation Loop to the Tuner.

Extend Section 4 of the mast fully and install the copper Induction loop so it is just below the base clamp of Section 5. This clamp should snap into place but might require a little pressure to do so.



Work with the mast Sections 5 and 6 to adjust the spacing between the induction loop and the radiation loop while making the radiation loop as round as possible.



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