



A-502 Two Meter Quad Manual

MODEL A-502
2-Meter Portable Quad

The following instructions will facilitate the set-up and take-down operations of the 2-Meter portable cubical quad antenna:

1. Carefully remove the portable quad assembly and the four support legs from the plastic case.
2. Insert the support legs into the holes on the bottom of the case. Insure the legs engage the inner support block, mounted to the case bottom.
3. Replace the case top. Remove the brass thumbscrew and momentarily set aside.
4. Unwind coax feedline from quad assembly.
5. While grasping with one hand, open driven element (the quad element with the coax) and the remainder of the plastic elements about that hub. Engage elements to hub by finger tightening the brass finger screws. Do not over tighten these screws or force the elements open as damage may occur to the hub or elements.
6. Remove rubber band from reflector elements and open in a similar fashion.
7. Adjust loop wires for symmetry if required.
8. Engage quad boom on case top mounting screw. Two holes are provided for vertical or horizontal polarization. Vertical polarization is achieved with the feedline element parallel to the ground; horizontal polarization with the feedline element vertical. Replace brass thumbscrew and secure.
9. For take-down operations, the set-up procedure may be followed in reverse order. Always fold the reflector about the boom first. Use a rubber band about the reflector elements and wire to minimize tangles between the driven and reflector elements. When folding the driven element, the coax feed element should be folded back last to facilitate the loose wrapping of the coax about the assembly for stowage.
10. Although factory set for minimum SWR, the small trim capacitor may be adjusted if required. SWR may vary slightly as a function of antenna height and the proximity of metal objects.

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TO ASSEMBLE THE PORTABLE QUAD

1. Take off the case lid. Set it aside temporarily.
2. Slide the antenna out of the case. Dump out the remaining small parts (four aluminum stabilizers).
3. Carefully unfurl the quad loops. Using the thumbscrews clamp each antenna rod out at right angles to the boom.
4. Attach the case lid to the boom using the thumbscrew provided. For horizontal polarization the feedpoint capacitor should be at the bottom of the antenna; for vertical polarization, at one side.
5. Place the case lid and the attached antenna assembly back on the case.
6. Put the four stabilizers into the holes at the bottom of the case.
7. Connect the coaxial cable to your transceiver.
8. The matching capacitor on the driven element has been adjusted at the factory. If, at your operating frequency, the SWR is above 1.5 you can readjust the capacitor. Use a plastic screwdriver to do this. Adjust for minimum SWR.
9. The parasitic element is a reflector.
10. To disassemble the quad start by folding in the parasitic element. Use a rubber band to hold these rods and wires against the boom. Then fold in the driven element.

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