

# Antenna Assembly Instructions

## Required Tools:

- 1 - 1/2" & 7/16" Open End Wrenches
- 1 - 16" Adjustable Wrench
- 1 - Steel Tape Measure
- 1 - 7/16" Socket and Ratchet
- 1 - 3/4" Open End Wrench

**Step 1.** It is necessary to assemble the reflector on a flat surface to ensure proper alignment of the sections. It is a good idea to protect the surface finish by placing cardboard, etc., under the edge of the reflector. Begin by assembling any two quadrants with the 1/4"-20 x 2" bolts through the three outermost pre-drilled and the innermost hole of the sections on the Quad 7.5' antenna. Use 1/4" flat washers on both sides of the rib, at each assembly point. ***Finger Tighten Only At This Time.***



Figure 1. Place all four quadrants on a flat surface prior to assembly.



Figure 2. Only install the outer 2 bolts (7.5-foot dish) or outer 3 bolts (10-foot dish)

**Step 2.** Repeat step 1 by assembling the remaining two quadrants. Now you have two halves. The two halves can be bolted together remembering to ***Finger Tighten Only*** at this time. Now make sure all the quadrants are properly joined and flush at each assembly point. ***THIS IS VERY IMPORTANT TO ASSURE THE CURVE OF THE REFLECTOR IS MAINTAINED AND SUPPORTED CORRECTLY.*** Wrench tighten all bolts at this time.

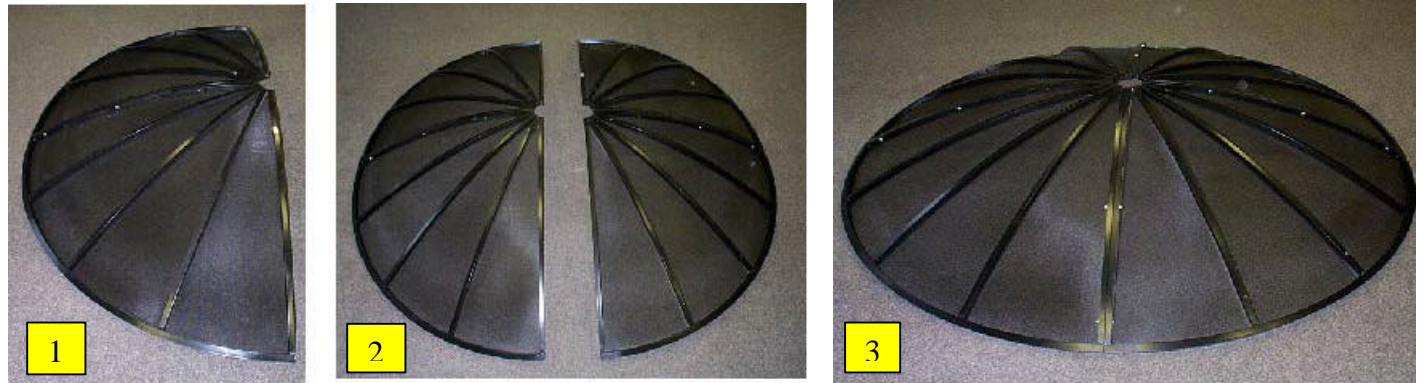


Figure 3. Assembly of the parabolic dish as described in the instructions above.

**Step 3.** You may stand the assembled reflector on edge for easy access to the center. Attach the center hub plates to the antenna by inserting four 5/16" x 2" carriage bolts through the front plate, between the ribs, and through the rear plate on the backside of the reflector. Be sure to use 5/16" washers on the rear hub plate. ***SECURELY TIGHTEN THE CARRIAGE BOLTS WITH A WRENCH.***

**Step 4.** This step involves attaching the quad feed supports. Carefully lay the antenna down on its back so the reflective surface is facing up.

Holes are drilled in each reflector section to accommodate the Quad Feed Support. Attach the end of the feed support rod with the round hole to the outside perimeter of the antenna with 1/4"-20 x 1-1/2" bolts. The feed supports attach through holes in the face of the reflector. The slotted end of the feed support rod attaches to the feed horn with 1/4"-20 x 3/4" bolts. ***THE FEED SUPPORTS SHOULD BE POSITIONED EQUALLY TO PROPERLY CENTER THE FEED HORN.***



Figure 4. SRT feed horn

When installing the feed supports place the head of the 1/4-20 bolt inside the feed. This creates a lower profile than placing the nut and lock washer inside the feed.

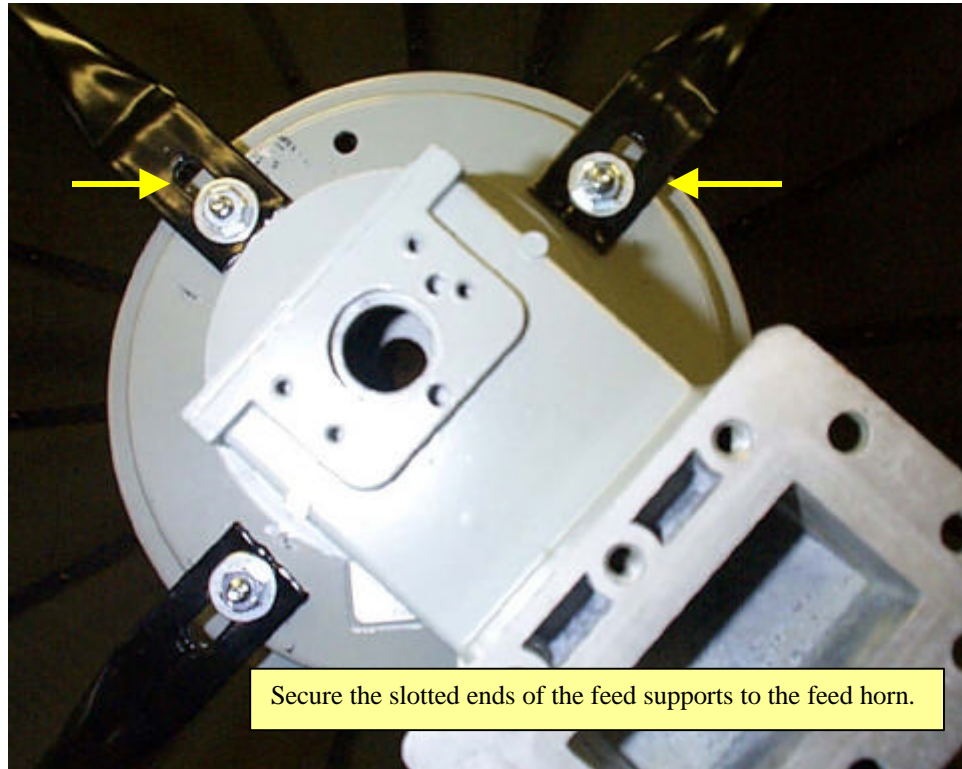


Figure 5. Properly installed feed horn.

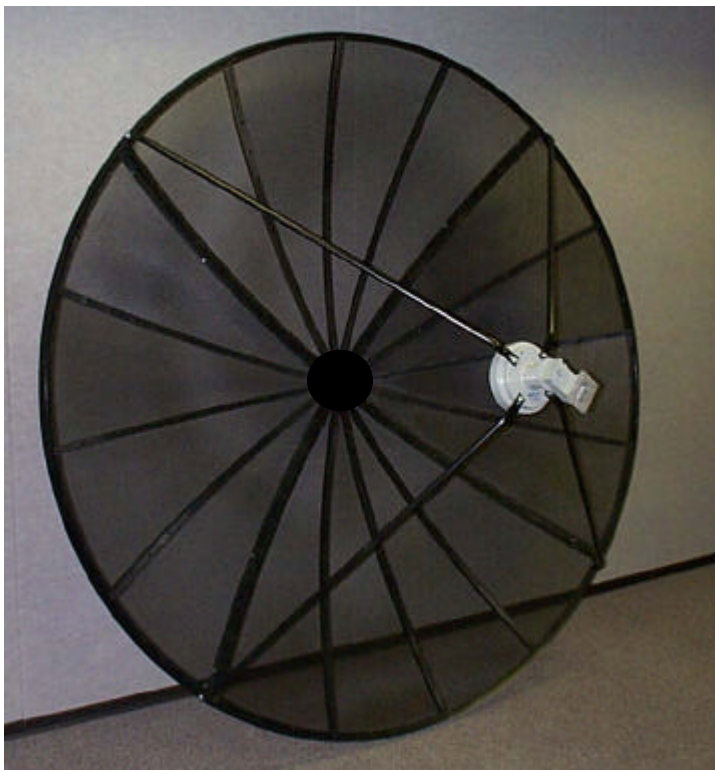


Figure 6. Antenna assembly

The dish is now ready to be mounted on the two-axis mount using the mounting ring provided.