



Installation Instructions Vwave Antenna

DANGER: *It is the responsibility of the purchaser to ensure that all required safety procedures are followed for erecting the antenna. Avoid contact with overhead wires. Improper erection can result in death or serious injury!*

1. ASSEMBLING

The Vwave can be assembled and erected by one person. The help of a second does make the job easier. No additional tuning is required as the antenna elements are pretuned.

1.1. PARTS LIST

2 pc. 3 Element Booms

4 pc. Reflector Elements (Longest)

4 pc. Driven Elements (3 holes)

4 pc. Director Elements (Shortest)

1 pc Phasing Harness (50 ohms at coax connector)

1 pc. Spreader with boom mounting plate.

1 pc. Mounting Plate 2" mast.

1 bag Assembly Parts

1 bag Spare Parts

1.2. ASSEMBLY

1. Remove all pieces.
2. Remove the mounting plate and spreader boom, store for later use.
3. Remove both boom assemblies
4. Remove the phasing harness to be attached later.

NOTE: The insulated plate is threaded to accept #8-32 $\frac{3}{4}$ bolts provided. Improper installation can cause shorting to the boom and potential damage to the radio.

5. Start at the Driven Elements as per Fig. 1, 2 and 3.

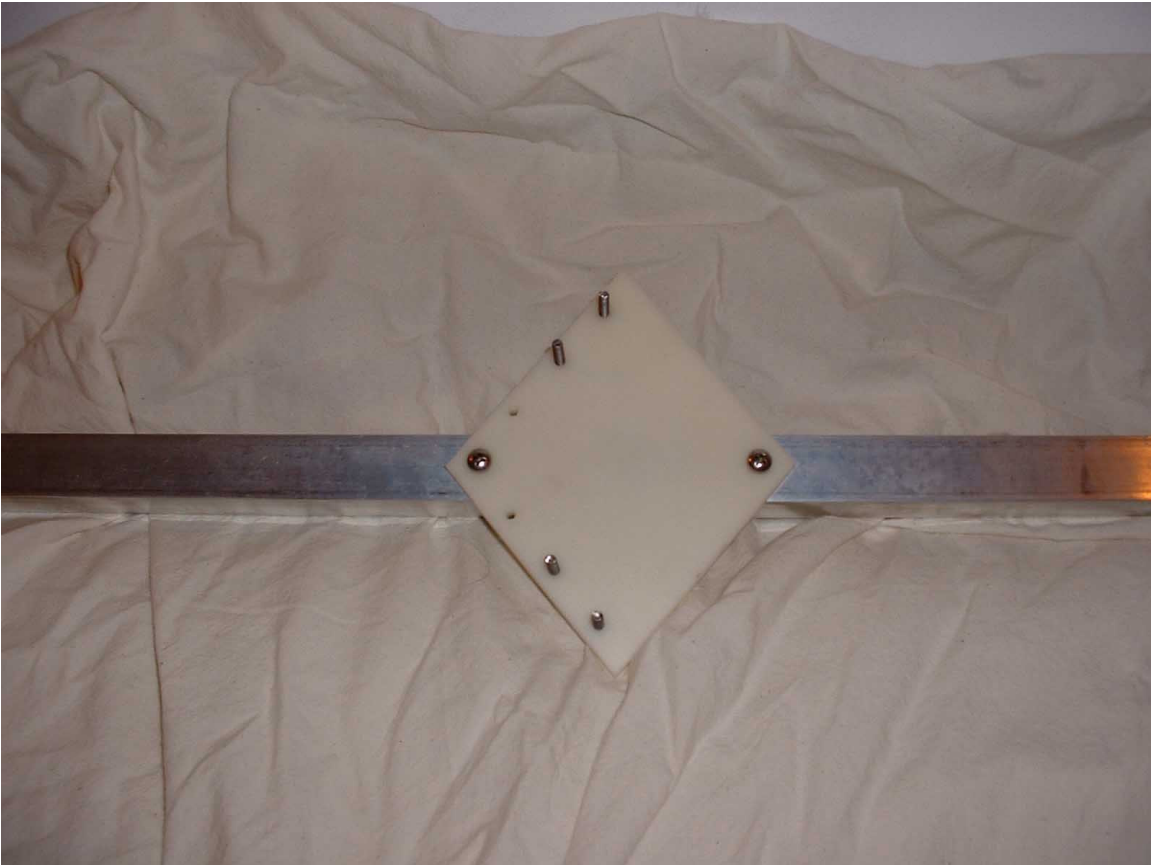


Fig. 1



Fig. 2

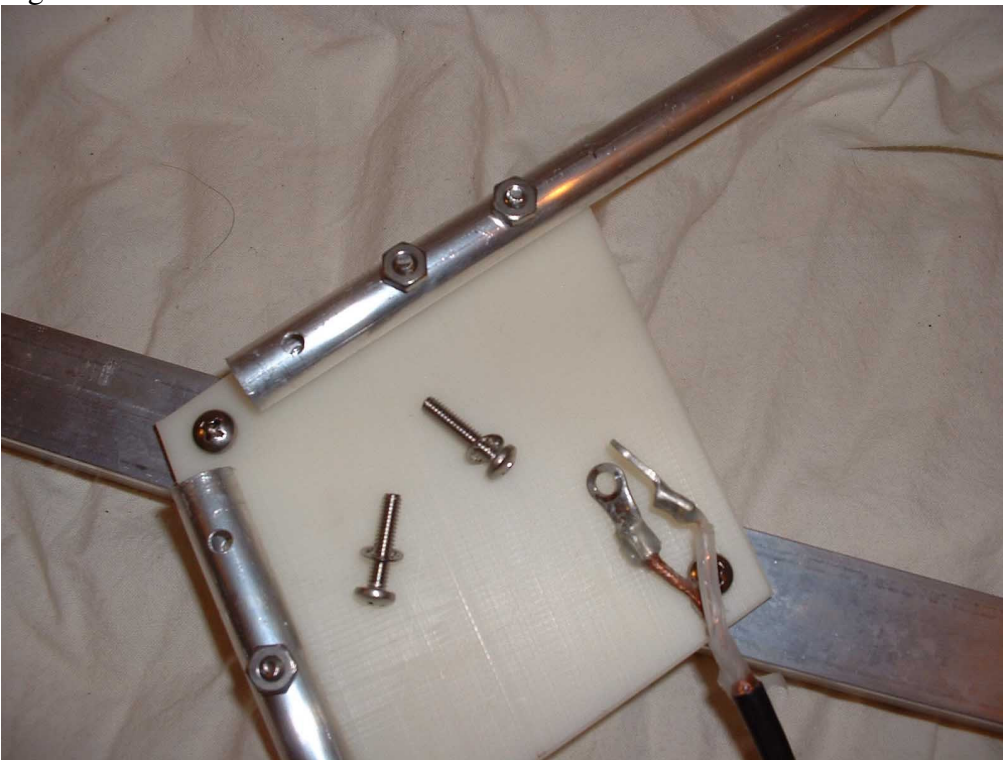


Fig. 3

6. Fasten the elements in place with the #8 inside star lock washers and nuts provided.

7. Fasten the RG62 (feed point at the elements is 93 ohms) with the 3/4 inch #8 bolts and lock washers provided. (NOTE: If in FM Mode ensure that the shield is fastened to the bottom element.) The elements will be located on the outside of the boom and the mounting plate for the cross boom is located on the top. See Fig 4.

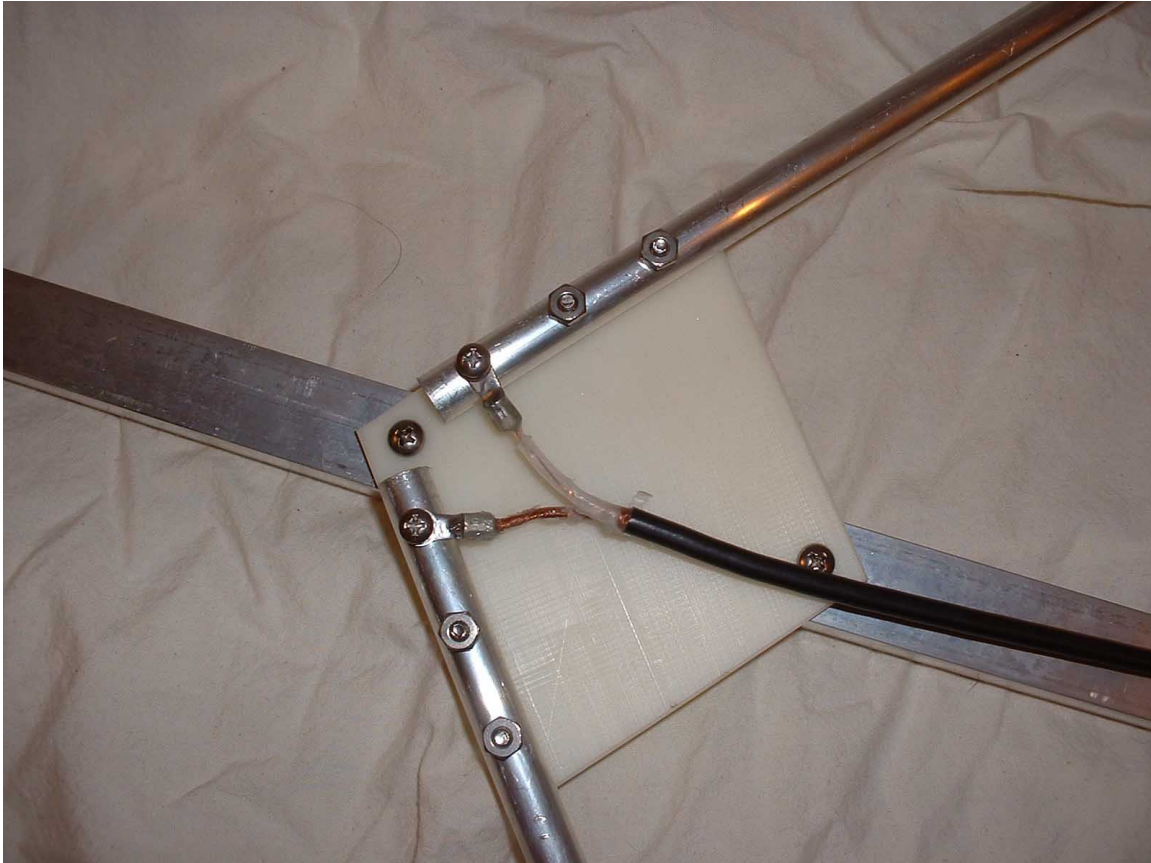


Fig 4.

SAFETY NOTE:

If running more than 100w it is recommended that you insulate the bolt between the elements attaching the plate to the boom as shown in Fig. 4. Additionally, insulate the holes for the feed point as shown in Fig. 5.

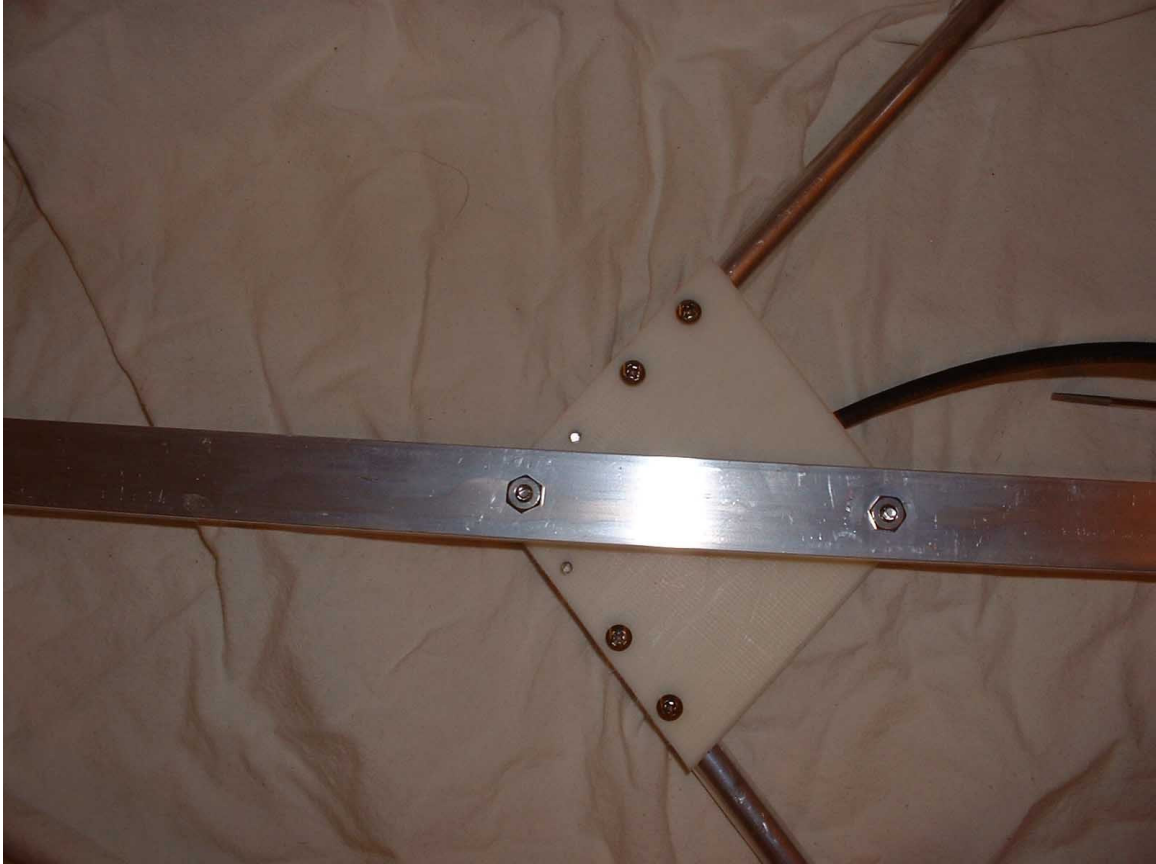


Fig. 5

8. Install the reflector elements next in the same fashion. (NOTE: The reflector is the plate which has your serial number of the antenna.)
9. Install the director elements next.
10. Mount the boom elements on the spreader boom with the element located farthest apart from one another as shown in Fig. Additionally this figure shows the Vertical polarization. The antenna open side of the "V".



Fig. 6

11. Mount antenna on mast.

NOTE: For SSB the spreader boom would be rotated 90 degrees and a mast to spreader mounting plate and boom would be required (this is not provided by Degen Designs). Additionally for permanent SSB operation the antenna can be mounted directly to the boom with the cross boom used temporarily to set the spacing.