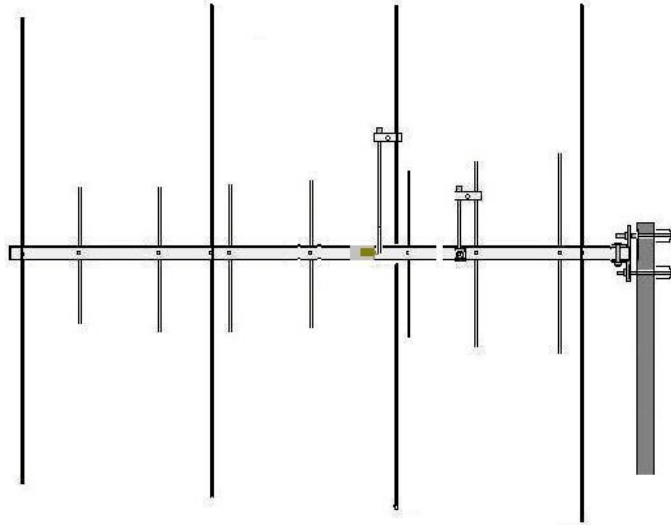


BLUE STAR ANTENNAS

MODEL DB 47 DUAL BAND 2 METER /440



POLARIZATION

You must decide on a mounting position.

Your Element 4 YAGI allows for mounting in, Vertical or Horizontal Polarization.

FEEDLINE

Pay close attention to the feedline you use at UHF frequencies. Much of the regular RG-8X coax has too much loss at UHF frequencies RG-58/U is totally out of the question. Any gain realized from the antenna could easily be lost with poor coax.

RG-213 or 9913 is Recommended.

IMPORTANT

Take all of the $\frac{1}{4}$ " Round elements and screw in one of the 4-40 x3/4" Stainless Steel screws in to the center of each element. This is to make sure all the elements are threaded properly and that the screws start easily. Lay out the elements according to size. The dimensions and position of all the elements are shown. Attach all the elements to the boom as shown.

CAUTION

Do NOT over tighten the screws this will bend the elements. Turn the screw until its just snug and then $\frac{1}{4}$ turn more

Trouble Shooting High SWR

Test the SWR with a good UHF SWR Meter and HF meter will show higher than real SWR.

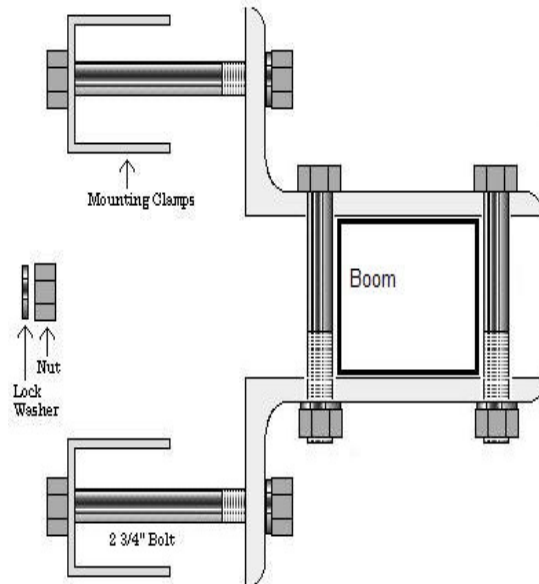
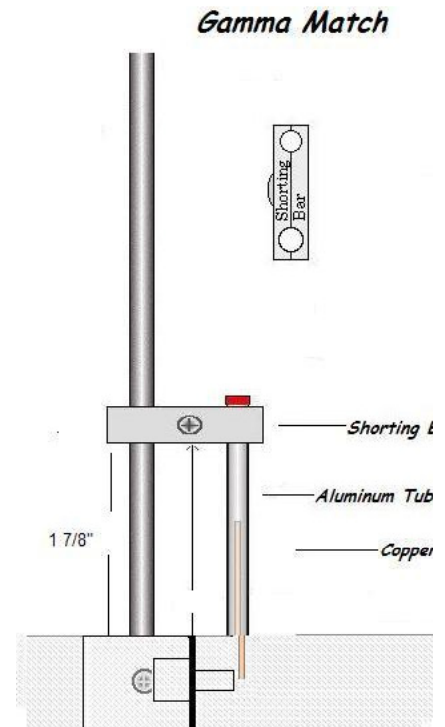
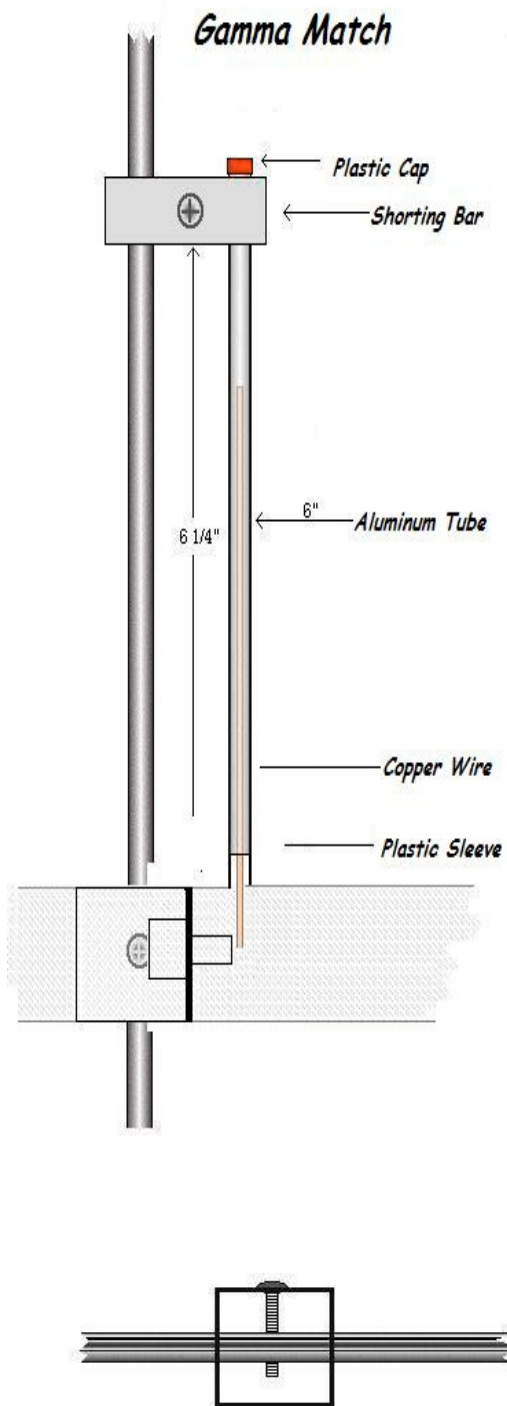
Replace the antenna with a 50-OHM dummy load.

If the swr is greater than 1.2:1 Replace the coax or connectors and test again.

Blue Star Antennas

Assumes no responsibility for injury or damage,
Resulting from the use or instillation of this antenna!

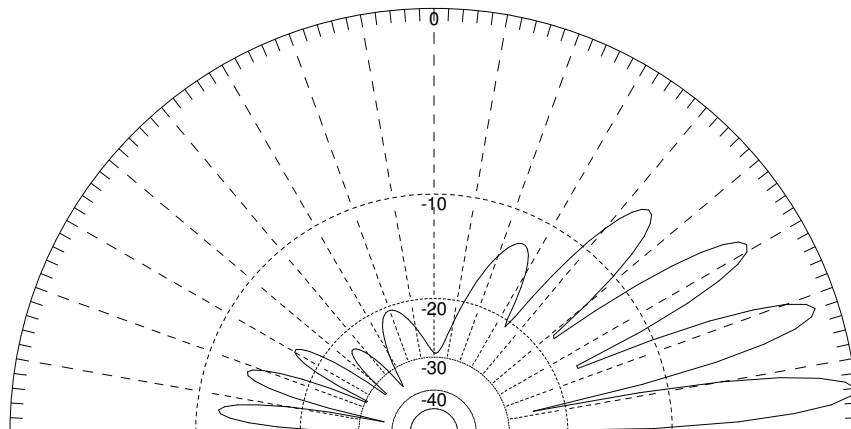
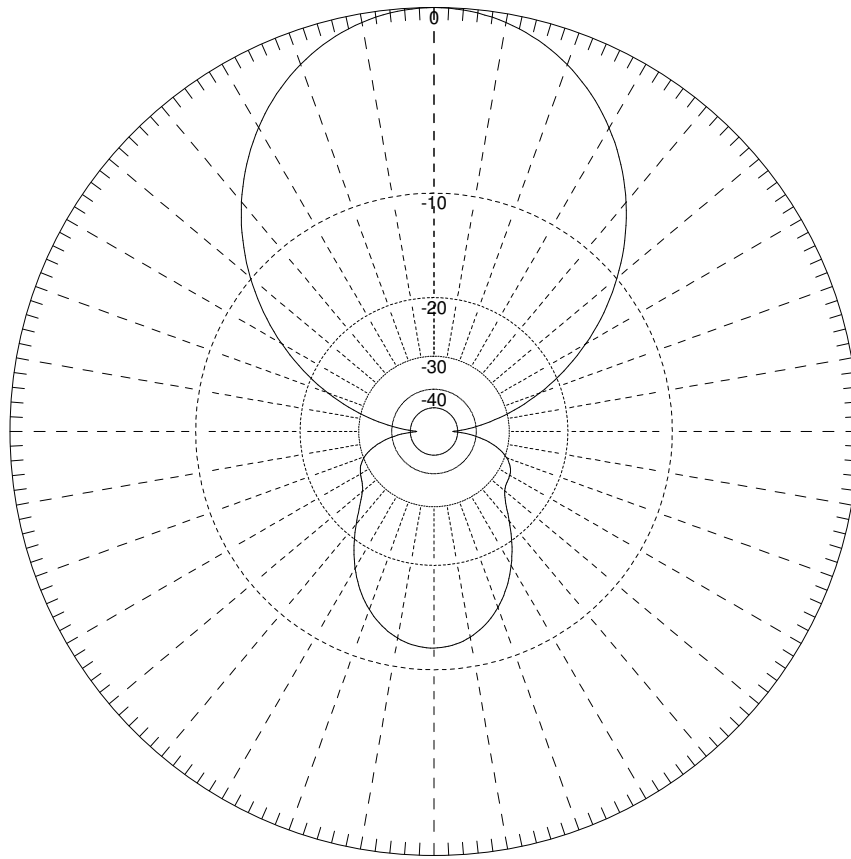
"This Antenna conducts electricity Keep away from Power lines"
All ways use safe instillation practices, don not install any antenna on a mast or tower with in 1 and $\frac{1}{2}$ times the falling distance to any electrical lines!



Some fine-tuning may be preformed by adjusting the gamma match.
And the position of the shorting bar.

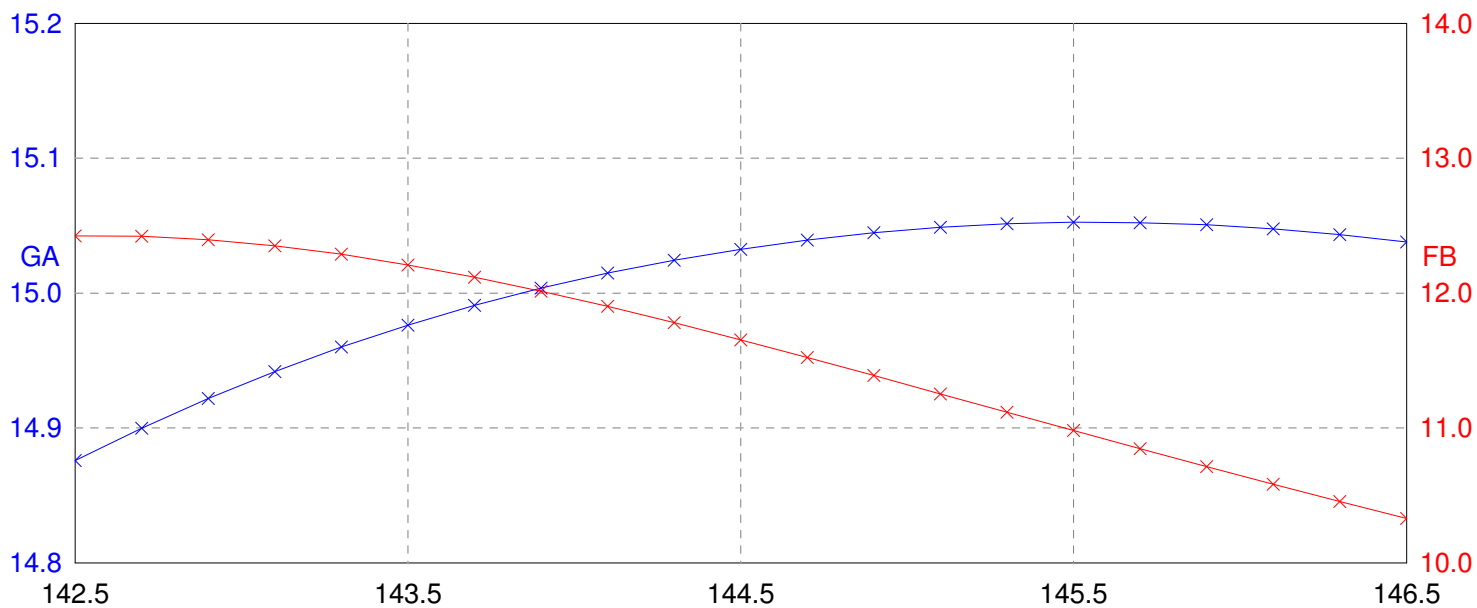
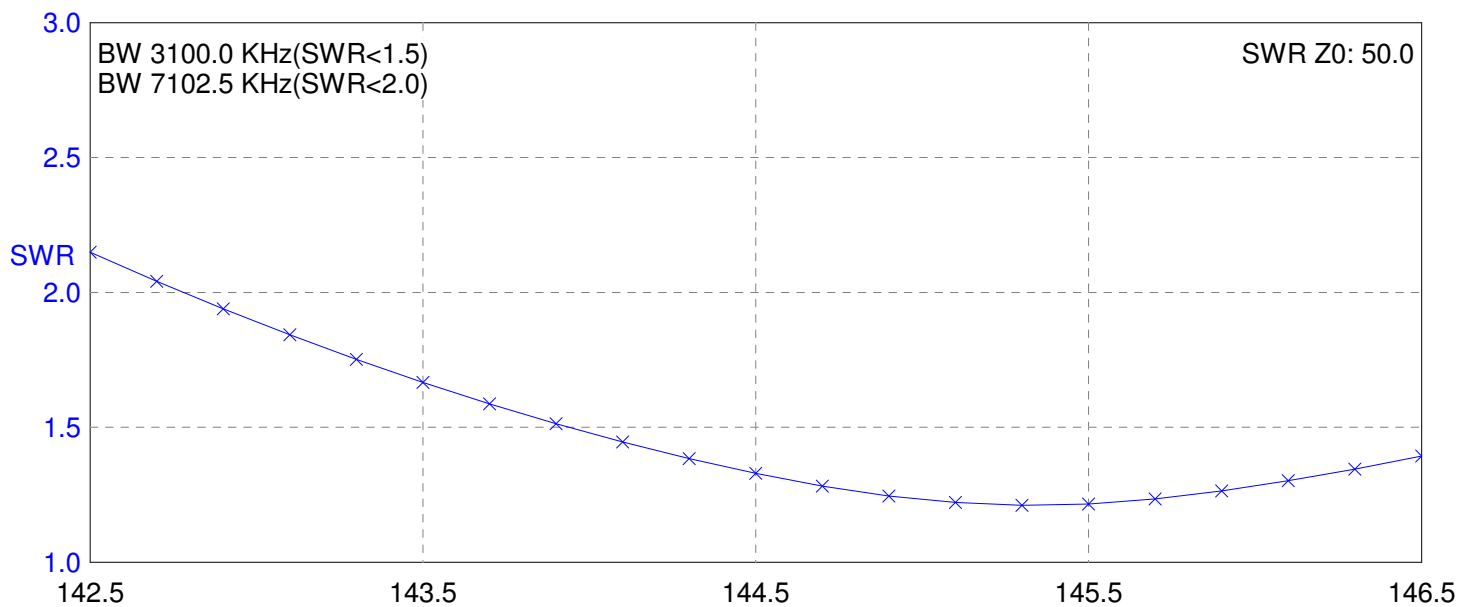
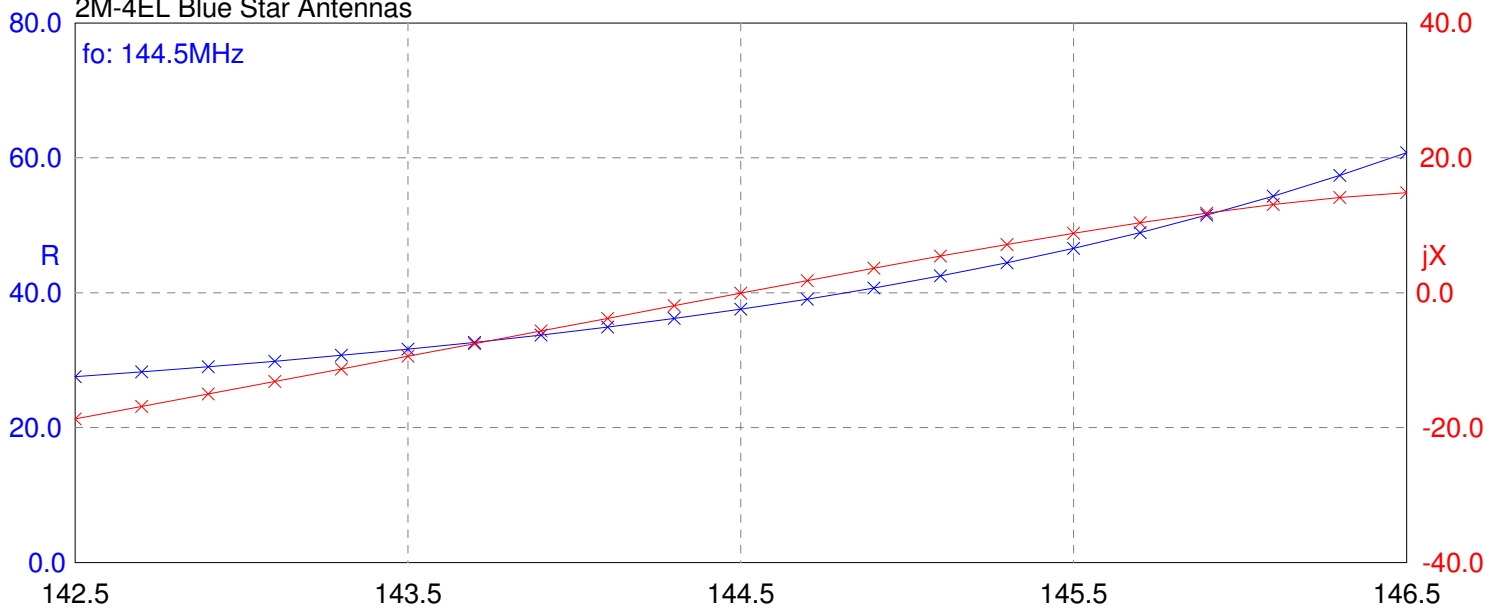
MMANA-GAL v. 1.1.0.10

2M-4EL Blue Star Antennas



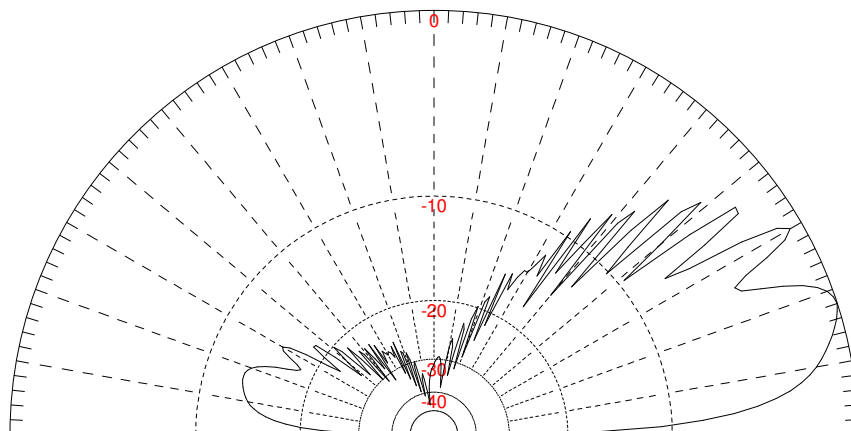
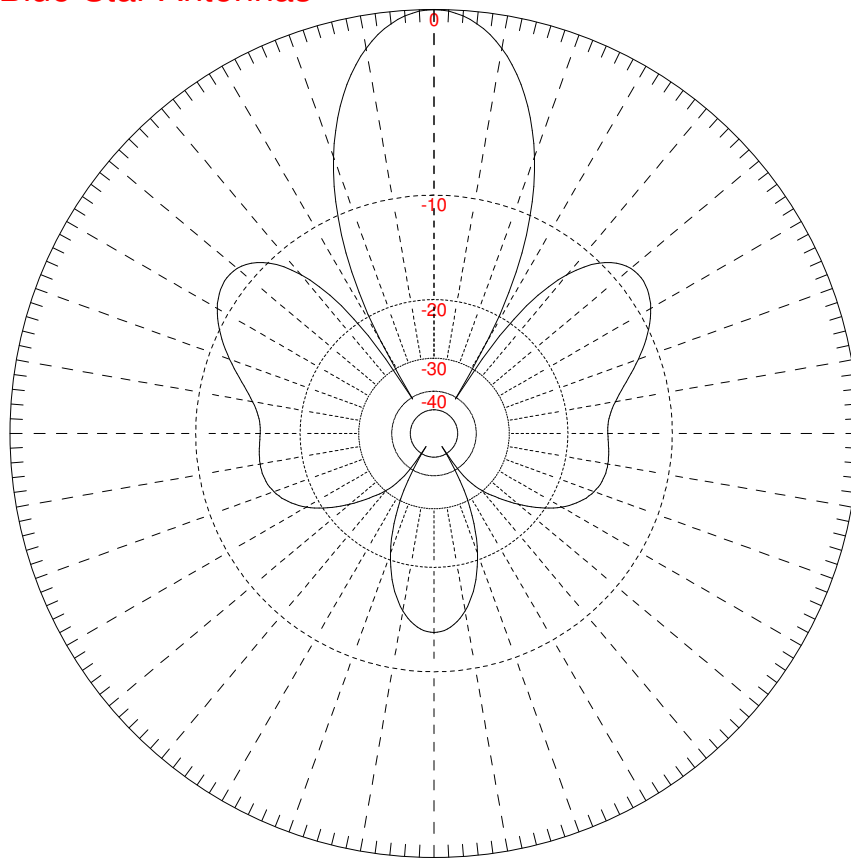
Ga : 15.03 dBi = 0 dB (Horizontal polarization)
F/B: 11.65 dB; Rear: Azim. 120 dg, Elev. 60 dg
Freq: 144.500 MHz
Z: 37.591 - j0.004 Ohm
SWR: 1.3 (50.0 Ohm), 16.0 (600 Ohm)
Elev: 5.8 dg (Real GND :5.00 m height)

MMANA-GAL v. 1.1.0.10
2M-4EL Blue Star Antennas



MMANA-GAL v. 1.1.0.10

dB47 7el 435MHz Blue Star Antennas



Ga : 11.94 dBi = 0 dB (Vertical polarization)
F/B: 13.10 dB; Rear: Azim. 120 dg, Elev. 60 dg
Freq: 435.000 MHz
Z: 61.559 + j0.110 Ohm
SWR: 1.2 (50.0 Ohm), 9.7 (600 Ohm)
Elev: 18.1 dg (Real GND :20.00 m height)

MMANA-GAL v. 1.1.0.10
dB47 7el 435MHz Blue Star Antennas

