

Hy-Gain AV640 (Patriot) Antenna and Guests

(Updated 06 November 2007)

I hope to have links to larger photos soon

The AV640 like all multi-band antennas, or all antennas for that matter, is a collection of compromises. As there are no traps the vertical is surprisingly wide band on each of the bands it covers (40 through 6-meters including all the new WARC bands.) It's about 200KHz or a tad more on 40 while giving full band coverage on the others. The antenna is designed to operate without a radial system, but it does have a small counterpoise at the base. The recommendation is to keep this counterpoise at least 5 feet away from metal objects such as rain gutters and other antennas. One note, although the adds say the antenna is rated for the full legal limit of 1500 watts it has a limit of 300 watts on 6-meters.

Assembly is relatively straight forward with a good set of directions. However there are a lot of parts so the assembly is not a 5 minute job. Lay out the parts in order to make sure they are all there, follow the directions step-by-step and expect a couple of hours for the assembly.



Tophats and loading coils



Matching network and base of stubs



Base of stubs

Tune up will, or should be relatively close using their figures and each band can be tuned individually without affecting the tuning on the other bands. 40 meters is set by adjusting the length of the top most tube piece, or overall length of the antenna. This let me easily set the 40 meter band to favor the CW portion, yet operate in the bottom of the voice section with a bit over 200 KHz of bandwidth less than a 2:1 SWR. 20 and 15 are set by trimming the length of the appropriate "top hats" while setting the other bands for the center (by adjusting the stub lengths) gave full band operation. If the AV640 is placed on a 10' mast to check, the resonant frequencies and minimum SWR for each band should be very close to

Hy Gain Av 640 User Guide

M Mosston

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CQ ,2003 The ARRL Antenna Book American Radio Relay League,2003 The ultimate reference for amateur radio antennas transmission lines and propagation Extensively revised readers will find the latest antenna theory and a wealth of practical how to construction projects CD ROM included with the complete fully searchable text **Amateur Radio** ,1999

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Country Guide and Nor'west Farmer ,1920 **Popular Science** ,1944-03 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

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