

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

VM Jensen



Hy Gain Av 640 User Guide:

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Table of Contents Hy Gain Av 640 User Guide

1. Understanding the eBook Hy Gain Av 640 User Guide
 - The Rise of Digital Reading Hy Gain Av 640 User Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Hy Gain Av 640 User Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hy Gain Av 640 User Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hy Gain Av 640 User Guide
 - Personalized Recommendations
 - Hy Gain Av 640 User Guide User Reviews and Ratings
 - Hy Gain Av 640 User Guide and Bestseller Lists
5. Accessing Hy Gain Av 640 User Guide Free and Paid eBooks
 - Hy Gain Av 640 User Guide Public Domain eBooks
 - Hy Gain Av 640 User Guide eBook Subscription Services
 - Hy Gain Av 640 User Guide Budget-Friendly Options

6. Navigating Hy Gain Av 640 User Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Hy Gain Av 640 User Guide Compatibility with Devices
 - Hy Gain Av 640 User Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hy Gain Av 640 User Guide
 - Highlighting and Note-Taking Hy Gain Av 640 User Guide
 - Interactive Elements Hy Gain Av 640 User Guide
8. Staying Engaged with Hy Gain Av 640 User Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hy Gain Av 640 User Guide
9. Balancing eBooks and Physical Books Hy Gain Av 640 User Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hy Gain Av 640 User Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hy Gain Av 640 User Guide
 - Setting Reading Goals Hy Gain Av 640 User Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hy Gain Av 640 User Guide
 - Fact-Checking eBook Content of Hy Gain Av 640 User Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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