

MFJ-16010 Random Wire Antenna Tuner

Thank you for purchasing the MFJ-16010 Random Wire Antenna Tuner.

GENERAL INFORMATION

The MFJ-16010 is a variable L-network designed to match the low output impedance of your transmitter to the high impedance of a random wire (or vice versa). It will match almost any random length of wire to any transmitter from 160 thru 10 meters. The transmitter may have an output RF power up to 200 watts. For best results, the random wire should be as long, high, and clear of surrounding objects as possible. Do not ground the random wire antenna.

The connectors are labeled properly to match a transmitter to a higher impedance. This is the normal connection.

To match impedances that are lower than your transmitter impedance (such as a mobile whip), simply interchange the normal transmitter and antenna connections to the MFJ-16010.

Remember the MFJ-16010 is designed to match a single random wire and not a coaxial line, even though coaxial connectors are used for both antenna and transmitter connections (these connectors make it easy to interchange antenna and transmitter connections).

A standard banana plug will fit nicely into the center of the SO-239 coaxial connector and can be used to connect the single random wire in lieu of a coaxial plug (PL-239).

A standard coaxial cable having an impedance that matches your transmitter output impedance, should be used to connect your transmitter to the MFJ16010. Make sure the MFJ-16010 is well grounded to the transmitter.

If you are using the MFJ-16010 to match a vertical or mobile whip, the tuner needs to be at the feed point of the antenna and not at the transmitter end of the coaxial transmission line.

USING THE MFJ-16010

To match high impedances, the transmitter connector of the MFJ-16010 should be connected to your transmitter or receiver and the random wire connected to the antenna connector. The Inductance switch of the MFJ16010 presents a minimum inductance when pointed straight up. Low inductance is for high frequency operation and high inductance is for low frequency operation. The capacitor is completely closed (maximum capacitance) when the control is pointed straight to the left. When tuning up

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Amateur Radio ,1988 *Ham Radio Magazine* ,1987-07 **Ham Radio** ,1987 **73 Magazine for Radio Amateurs**
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Table of Contents Mfj 16010 Manual

1. Understanding the eBook Mfj 16010 Manual
 - The Rise of Digital Reading Mfj 16010 Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mfj 16010 Manual
 - 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 Mfj 16010 Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mfj 16010 Manual
 - Personalized Recommendations
 - Mfj 16010 Manual User Reviews and Ratings
 - Mfj 16010 Manual and Bestseller Lists

5. Accessing Mfj 16010 Manual Free and Paid eBooks
 - Mfj 16010 Manual Public Domain eBooks
 - Mfj 16010 Manual eBook Subscription Services
 - Mfj 16010 Manual Budget-Friendly Options
6. Navigating Mfj 16010 Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mfj 16010 Manual Compatibility with Devices
 - Mfj 16010 Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mfj 16010 Manual
 - Highlighting and Note-Taking Mfj 16010 Manual
 - Interactive Elements Mfj 16010 Manual
8. Staying Engaged with Mfj 16010 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mfj 16010 Manual
9. Balancing eBooks and Physical Books Mfj 16010 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mfj 16010 Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mfj 16010 Manual
 - Setting Reading Goals Mfj 16010 Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mfj 16010 Manual
 - Fact-Checking eBook Content of Mfj 16010 Manual
 - 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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