

Demeras Demerasocdkw3yn264264

Demeras QRP HF Portable Full Band Tuned Antenna Instruction Manual

Model: Demerasocdkw3yn264264

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the Demeras QRP HF Portable Full Band Tuned Antenna, designed for shortwave transceivers. It offers multi-band reception and communication capabilities, suitable for indoor, window, balcony, and outdoor use. The antenna is engineered to reduce interference, maintain a low standing wave ratio (SWR), and provide strong directionality across its full frequency band.

The antenna is portable and easy to set up, allowing for quick deployment for your shortwave transceiver. It is constructed from durable aluminum alloy and steel materials, ensuring longevity and reliable performance.



Figure 1.1: The Demeras QRP HF Portable Full Band Tuned Antenna, showcasing its compact design and tuning knobs.

2. SETUP INSTRUCTIONS

The Demeras QRP HF Portable Full Band Tuned Antenna is designed for quick and easy setup.

2.1 Standard Setup

1. **Connect the Antenna:** Attach the antenna unit directly to your shortwave transceiver's antenna port. Ensure the connection is secure.
2. **Extend the Whip:** Fully extend the telescopic whip antenna for optimal performance.



Figure 2.1: The antenna unit connected to a shortwave transceiver.

2.2 Extended Use Method (Optional)

For enhanced performance and increased launch efficiency, especially for certain bands, you can use an external long wire:

1. **Remove the Pull Rod:** Carefully detach the standard telescopic whip antenna (pull rod) from the main unit.
2. **Connect Long Wire:** Connect a 20-meter long wire to the designated terminal on the antenna unit.
3. **Erect the Long Wire:** Position the long wire as high as possible, ideally on a roof or another elevated structure, ensuring it is clear of obstructions.
4. **Tuning:** The tuning method remains the same as with the standard setup (refer to Section 3. Operating Instructions). This configuration can significantly improve signal transmission and reception.

QRP Shortwave Antenna

Portable small loop antenna

Easy and fast to set up antenna for your shortwave transceiver antenna



Figure 2.2: Antenna components, showing the main unit, whip, and connector, ready for standard or extended setup.

3. OPERATING INSTRUCTIONS

The antenna features two primary tuning knobs for optimal performance across various frequencies.

3.1 Tuning the Antenna

1. **Band Selection (Bottom Knob):** The bottom knob on the antenna unit adjusts the inductor. Rotate this knob to select the approximate frequency band you intend to operate on.
2. **Fine Tuning (Top Knob):** The top knob fine-tunes the variable capacitor. Adjust this knob to achieve the lowest possible Standing Wave Ratio (SWR) for your specific operating frequency within the selected band. Use your transceiver's SWR meter or an external SWR analyzer for precise tuning.



Figure 3.1: Close-up of the tuning knobs for band selection and fine-tuning.

3.2 Frequency Range and Placement

- **Wide Frequency Coverage:** This antenna supports a wide frequency range from 3.5 MHz to 470 MHz, covering multiple amateur radio bands.
- **Optimal Placement:** For best results, position the antenna in an open area with minimal obstructions. While suitable for indoor use (e.g., near windows or on balconies), optimal performance for both reception and transmission is typically achieved outdoors. The antenna is designed to reduce interference and provide strong directionality.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Demeras QRP HF Portable Full Band Tuned Antenna.

- **Cleaning:** Keep the antenna clean and dry. Use a soft, dry cloth to wipe down the unit. Avoid using harsh chemicals or abrasive materials.
- **Environmental Protection:** Avoid exposing the antenna to extreme weather conditions (heavy rain, snow, direct

prolonged sunlight) for extended periods. While durable, protecting it from harsh elements will extend its lifespan.

- **Connection Checks:** Regularly inspect all connections (antenna to transceiver, whip to unit, or long wire connection) to ensure they are tight and free from corrosion. Loose connections can degrade performance.
- **Storage:** When not in use, retract the telescopic whip (if applicable) and store the antenna in its protective case or a dry, cool place to prevent physical damage.

5. TROUBLESHOOTING

If you encounter issues with your Demeras QRP HF Portable Full Band Tuned Antenna, refer to the following troubleshooting tips:

5.1 Unable to Tune / High SWR

- **Check Connections:** Ensure all connections, including the antenna to the transceiver and any adapters, are secure and properly seated. Loose connections are a common cause of high SWR.
- **Verify Tuning:** Double-check that both the bottom (band selection) and top (fine-tuning) knobs are adjusted correctly for your desired operating frequency. Small adjustments can make a significant difference.
- **Add Counterpoise/Ground:** For improved tuning and reception, especially on lower frequency bands (e.g., below 14 MHz), consider adding a counterpoise wire or connecting the antenna to a true ground.
- **Transceiver Tuner:** If your transceiver has a built-in tuner, ensure it is either disabled or configured to work with an external antenna system to avoid conflicting tuning efforts.
- **Environmental Factors:** Ensure the antenna is not too close to large metal objects or other sources of interference that could affect tuning.

5.2 Poor Reception

- **Antenna Placement:** Move the antenna to a more open location, away from buildings, trees, or other obstructions. Outdoor placement generally yields better reception.
- **Whip Extension:** Ensure the telescopic whip antenna is fully extended.
- **Frequency Selection:** Confirm you are tuned to an active frequency and that your transceiver settings (mode, bandwidth) are appropriate for the signal you are trying to receive.

5.3 Physical Damage / Antenna Falls Apart

- **Secure Assembly:** Ensure all components are securely fastened during initial assembly and subsequent use. Avoid applying excessive force when handling or adjusting the antenna.
- **Contact Support:** If the antenna experiences structural failure despite proper handling, contact Demeras customer support for assistance.

6. SPECIFICATIONS

The following table outlines the key specifications for the Demeras QRP HF Portable Full Band Tuned Antenna:



Figure 6.1: Antenna unit displaying key specifications including frequency ranges and SWR.

Feature	Specification
Brand	Demeras
Model Number	Demerasocdkw3yn264264
Antenna Type	Radio Antenna (QRP HF Portable Full Band Tuned)
Color	Black
Impedance	50 Ohms
Frequency Range	3.5 MHz - 470 MHz (6 Channels)
Maximum Range (Extended)	20 Meters (with external long wire)
Item Weight	0.04 Kilograms
Material	Aluminum Alloy and Steel

7. WARRANTY INFORMATION

This Demeras product is covered by the manufacturer's standard warranty. For specific details regarding warranty duration, coverage, and claims procedures, please refer to the warranty card included with your product packaging or visit the official Demeras brand store. Keep your proof of purchase for warranty validation.

8. CUSTOMER SUPPORT

For technical assistance, product inquiries, or any support needs regarding your Demeras QRP HF Portable Full Band Tuned Antenna, please contact Demeras customer service. You can also find more information and contact details by visiting the official Demeras store on Amazon:

[Visit the Demeras Store on Amazon](#)