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1. INTRODUCTION

The GOOZEEZOO MRA-821 is a portable shortwave radio loop antenna designed to enhance reception for shortwave (SW) and FM bands. It features a built-in signal amplification circuit and noise suppression capabilities to improve listening quality. This manual provides instructions for the proper setup, operation, and maintenance of your MRA-821 antenna.

2. SAFETY INFORMATION

- **Outdoor Installation:** If installing outdoors, ensure proper waterproofing for all connections and components to prevent water damage.
- **Lightning Protection:** For outdoor installations, implement appropriate lightning protection measures to safeguard the antenna and connected equipment.
- **Power Source:** Use only the specified power source for the antenna's amplification circuit.
- **Handling:** Handle the antenna components with care to avoid damage.

3. PACKAGE CONTENTS

Please verify that all components are present in your package:

- MRA-821 Main Antenna Unit (with tuning box)
- Loop Element
- Coaxial Cable (for connecting to radio)
- Power Cable/Adapter (if applicable, for amplifier)

4. SETUP INSTRUCTIONS

Follow these steps to set up your MRA-821 antenna:

1. **Assemble the Loop:** Connect the loop element to the main antenna unit's designated connectors. Ensure a secure

connection.

2. **Position the Antenna:** For optimal reception, it is recommended to install the antenna outdoors. Choose a location free from obstructions and away from sources of electrical interference. If outdoor installation is not feasible, position it near a window.

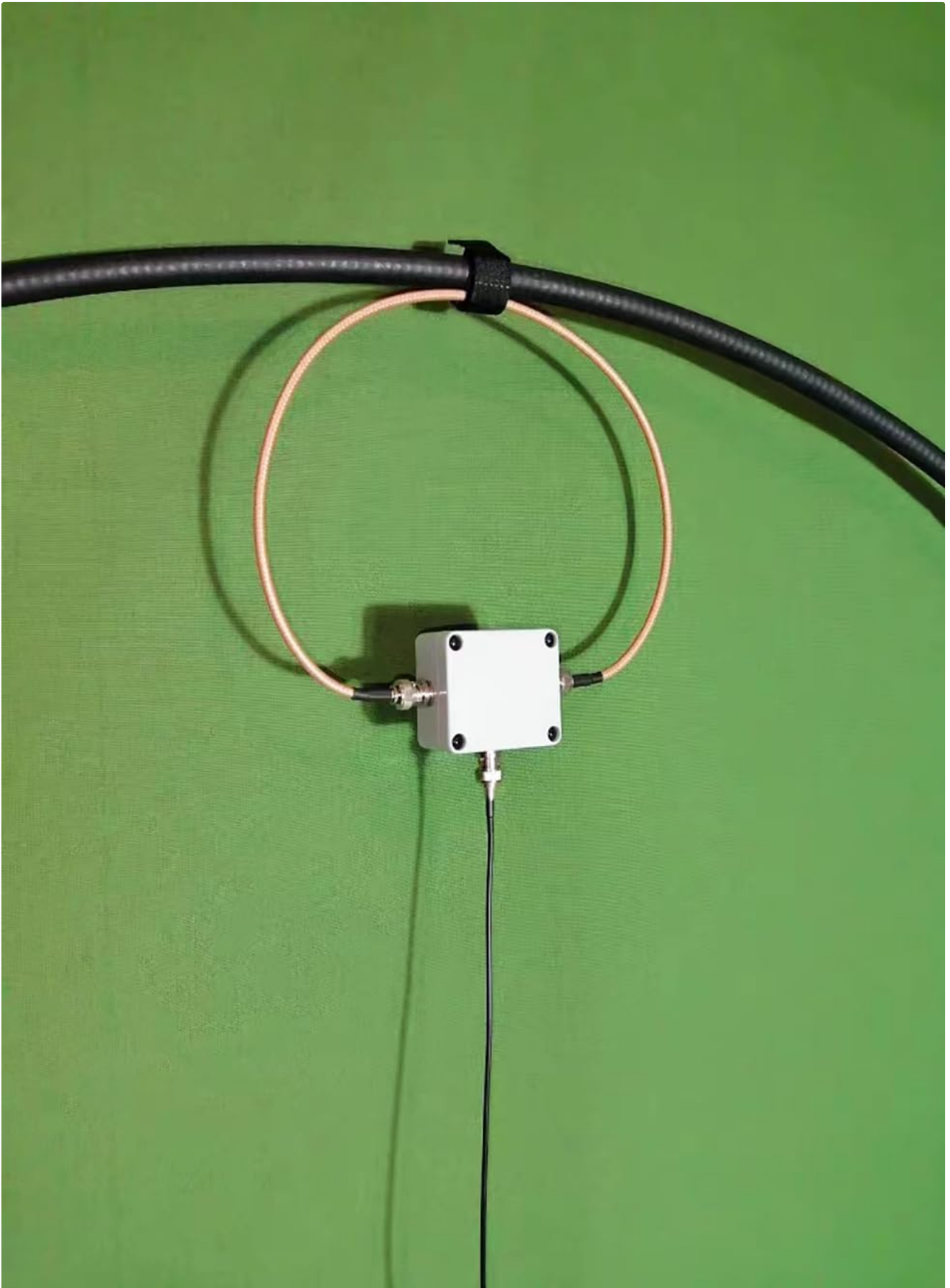


Figure 4.1: Assembled MRA-821 antenna mounted on a stand. The loop element is connected to the main unit, which is then connected to a coaxial cable.

3. **Connect to Radio:** Connect one end of the coaxial cable to the main antenna unit's coaxial connector (typically an SO-239 or BNC type).

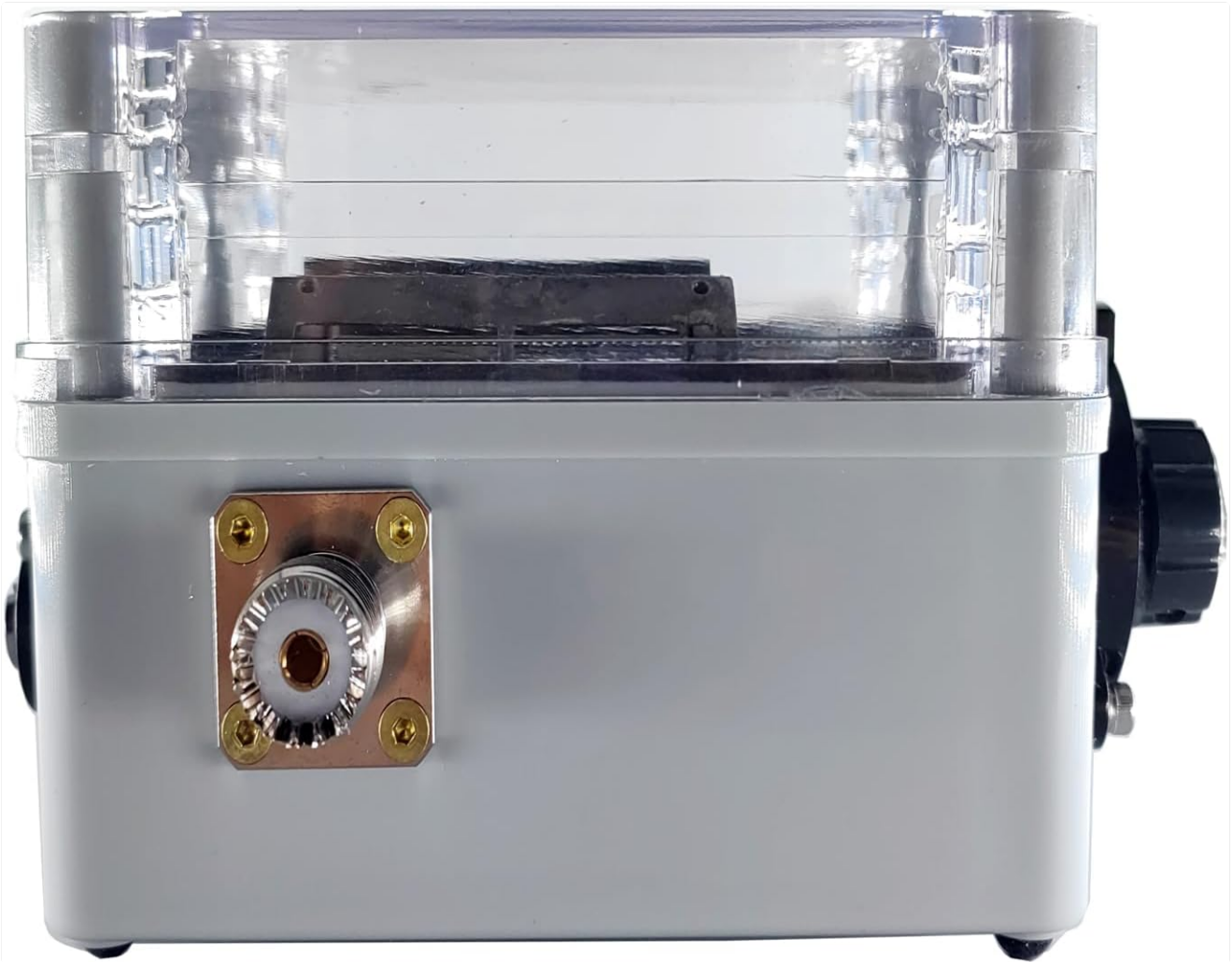


Figure 4.2: Side view of the MRA-821 main unit, highlighting the coaxial connector for radio connection.

4. Connect the other end of the coaxial cable to the antenna input of your shortwave radio receiver.
5. **Power On:** If your antenna unit requires external power for its amplifier, connect the power cable/adaptor and turn it on.

5. OPERATING INSTRUCTIONS

To achieve the best reception with your MRA-821 antenna:

1. **Tune Your Radio:** Select the desired frequency band on your shortwave radio receiver.
2. **Tune the Antenna:** The MRA-821 features a tuning knob on the main unit. Slowly rotate this knob to fine-tune the antenna to the specific frequency you are listening to. You will notice an improvement in signal strength and clarity as you approach the optimal tuning point.



Figure 5.1: Front view of the MRA-821 main unit, showing the tuning knob used to adjust the antenna for optimal reception.



Figure 5.2: Side view of the MRA-821 main unit, showing the clear cover over internal components and the tuning knob on top.

3. **Optimize Orientation:** For loop antennas, rotating the antenna horizontally can sometimes help reduce noise or improve signal directionality. Experiment with the antenna's orientation for best results.
4. **Noise Suppression:** The built-in noise suppression circuit works automatically to reduce interference. Proper tuning and placement will further enhance its effectiveness.

6. SPECIFICATIONS

Model	MRA-821
Frequency Range (SW)	3.5 - 22 MHz (operates on 7, 10, 14, 21 meter bands)
Frequency Range (FM)	76 - 108 MHz
Antenna Type	Portable Shortwave Radio Loop Antenna
Features	Built-in signal amplification, noise suppression circuit
Product Dimensions	5"L x 5"W x 2"H (Main Unit)

7. MAINTENANCE

- **Cleaning:** Wipe the antenna unit with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion, especially for outdoor installations.
- **Storage:** When not in use for extended periods, store the antenna in a dry, cool place, protected from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

- **Poor Reception:**
 - Ensure the antenna is properly tuned to the desired frequency using the tuning knob.
 - Check all cable connections between the antenna and the radio.
 - Relocate the antenna to a higher position or away from potential interference sources (e.g., computers, fluorescent lights).
 - If installed indoors, try moving it closer to a window or outdoors.
- **Excessive Noise:**
 - Adjust the antenna's tuning knob carefully.
 - Try rotating the antenna to find an orientation that minimizes noise.
 - Identify and eliminate local sources of electrical noise.
- **No Signal:**
 - Verify that the antenna's amplifier (if applicable) is powered on.
 - Confirm that the coaxial cable is securely connected to both the antenna and the radio.
 - Test with a different coaxial cable if available.

9. WARRANTY AND SUPPORT

The GOOZEEZOO MRA-821 antenna comes with a **1-year manufacturer's warranty**. For warranty claims or technical support, please contact GOOZEEZOO customer service through the retailer where the product was purchased or visit the official GOOZEEZOO website for contact information.