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ABBREE AR-771C

ABBREE AR-771C GMRS Antenna Instruction Manual

Model: AR-771C | Brand: ABBREE

1. Introduction

The ABBREE AR-771C is a high-gain GMRS (General Mobile Radio Service) antenna designed to significantly improve the transmission and reception capabilities of compatible two-way radios. With its 15.3-inch whip design and SMA-Female connector, it offers enhanced range and signal clarity, making it an essential accessory for GMRS radio users seeking optimal performance in various environments.

2. Product Overview

2.1 Features

- **GMRS Frequency Optimization:** Center frequency at 155/462MHz, with receiving frequency range of 136-174MHz and 400-520MHz.
- **High Gain:** Provides 2.15dBi gain, increasing communication distance and ensuring smoother conversations.
- **SMA-Female Connector:** Compatible with a wide range of GMRS radios including Baofeng UV-5R (GMRS), GM-15Pro, WP-31, UV-9G, TD-H5, and other radios with SMA-Female connections.
- **Durable and Flexible Design:** Approximately 15.35 inches (39cm) in length, lightweight, and designed for outdoor and camping usage. Includes a rubber gasket for connector protection.
- **Enhanced Performance:** Offers superior performance compared to standard short antennas, especially in conditions where longer range is desired.

2.2 Package Contents

The ABBREE AR-771C GMRS Antenna package includes:

- 1 x GMRS & SMA-Female Antenna
- 1 x Rubber Gasket

2.3 Product Visuals



Figure 1: The ABBREE AR-771C GMRS Antenna in orange, showcasing its full length and design.



Figure 2: The antenna's flexible design allows it to be bent without damage, ideal for portability and durability.

3. Setup and Installation

Follow these steps to properly install your ABBREE AR-771C GMRS Antenna onto your compatible radio:

1. **Identify the Connector:** Ensure your radio has an SMA-Female connector port. The AR-771C antenna features an SMA-Female connector.
2. **Prepare the Radio:** If your radio has an existing antenna, carefully unscrew it by turning counter-clockwise.
3. **Attach the Rubber Gasket:** Place the included rubber gasket onto the base of the antenna or around the radio's antenna port. This gasket helps protect the connector base from dust and moisture.
4. **Connect the Antenna:** Align the SMA-Female connector of the AR-771C antenna with the SMA-Male port on your radio. Gently screw the antenna onto the radio by turning clockwise until it is finger-tight. Do not overtighten.
5. **Verify Connection:** Ensure the antenna is securely attached and stands upright.



Figure 3: Detailed view of the SMA-Female antenna connector and the radio's SMA-Male port for proper attachment.



Figure 4: The AR-771C antenna properly installed on a compatible GMRS radio.

4. Operating Instructions

Once the ABBREE AR-771C antenna is securely installed, your radio is ready for operation. This antenna is designed to optimize performance on GMRS frequencies (155/462MHz) and also supports receiving frequencies in the 136-174MHz and 400-520MHz bands.

- **Frequency Compatibility:** Ensure your radio is set to the appropriate GMRS frequencies for optimal performance with this antenna.
- **Power Output:** The antenna is rated for a maximum power of 10 Watts. Ensure your radio's output power does not exceed this limit to prevent damage to the antenna or radio.
- **Antenna Orientation:** For best signal reception and transmission, keep the antenna as vertical as possible during operation.
- **Environmental Factors:** Performance can vary based on terrain, obstacles, and atmospheric conditions. The high

gain of this antenna helps mitigate some of these challenges.

5. Maintenance

Proper maintenance will ensure the longevity and optimal performance of your ABBREE AR-771C GMRS Antenna.

- **Cleaning:** Wipe the antenna periodically with a soft, damp cloth to remove dirt and grime. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly inspect the antenna for any signs of physical damage, such as cracks in the whip or damage to the connector. Check the rubber gasket for wear and tear.
- **Storage:** When not in use, store the antenna in a clean, dry place away from extreme temperatures and direct sunlight. Its flexible design allows for easier storage.
- **Connector Care:** Keep the SMA-Female connector clean and free of debris to ensure a good electrical connection with your radio.

6. Troubleshooting

If you experience issues with your ABBREE AR-771C GMRS Antenna, consider the following common troubleshooting steps:

- **Poor Signal Quality/Range:**
  - Ensure the antenna is securely tightened to the radio's connector. A loose connection can significantly degrade performance.
  - Verify that your radio is operating on the correct GMRS frequencies (155/462MHz).
  - Consider environmental factors such as large buildings, dense foliage, or hilly terrain which can obstruct signals.
  - Test the antenna with another compatible radio if available, to rule out issues with the radio itself.
- **Antenna Not Fitting Radio:**
  - Confirm your radio has an SMA-Male connector. This antenna is designed for SMA-Female connections.
  - While compatible with many Baofeng models, some specific models like the Baofeng UV-9G may have a slightly different base design that prevents the antenna's plastic base from seating flush. If this occurs, the antenna may still function electrically if the pin connection is made, but the physical fit might not be perfect.
  - Do not force the connection. If it does not screw on smoothly, re-check alignment or compatibility.
- **Physical Damage:**
  - If the antenna whip is bent or broken, or the connector is damaged, the antenna may need to be replaced.

7. Specifications

Detailed technical specifications for the ABBREE AR-771C GMRS Antenna:

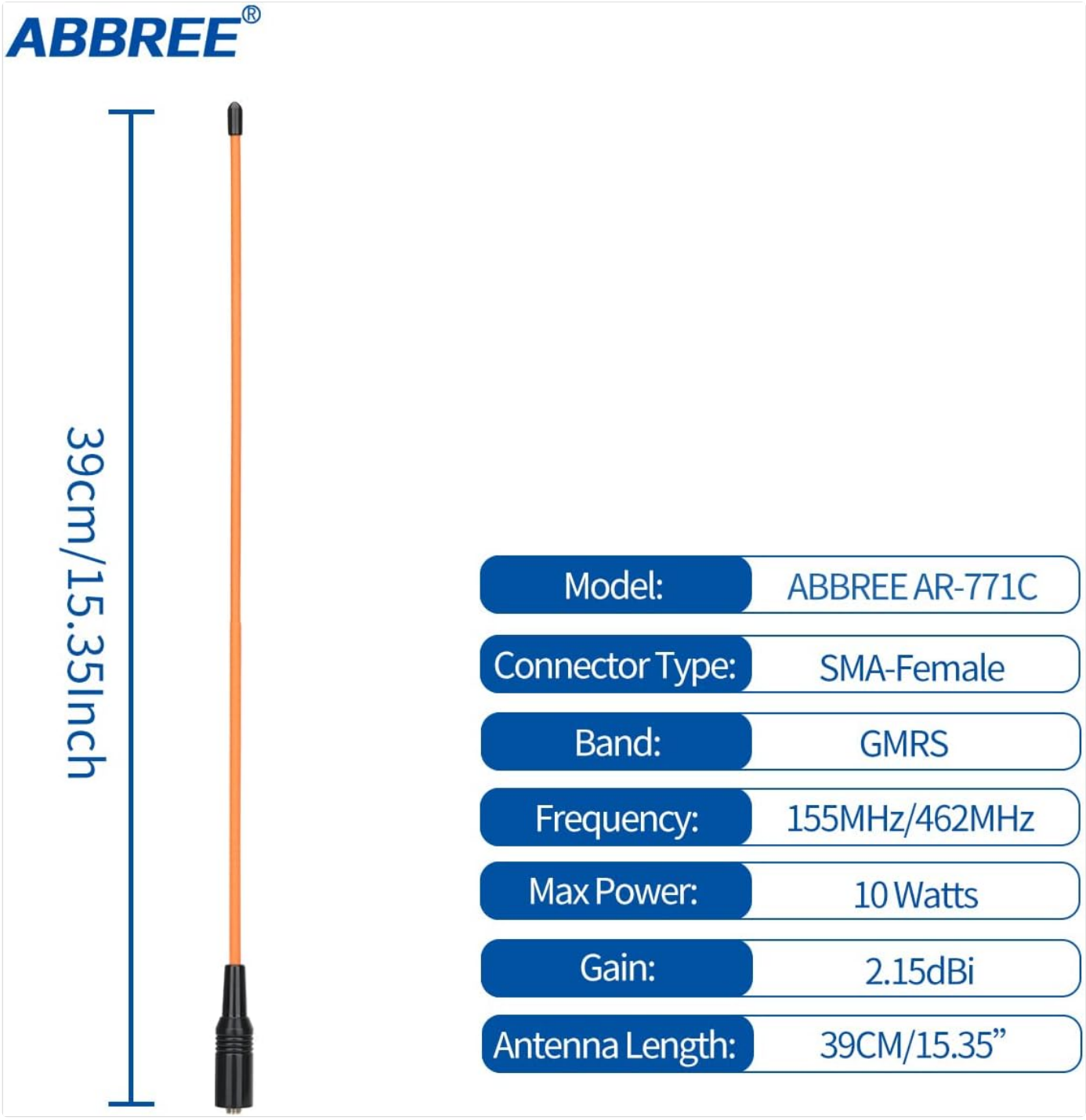


Figure 5: Key specifications of the ABBREE AR-771C GMRS Antenna.

Specification	Value
Model	ABBREE AR-771C
Antenna Type	Whip Antenna
Connector Type	SMA-Female
Frequency Band	GMRS (155/462MHz)
Receiving Frequency	136-174MHz, 400-520MHz
Gain	2.15dBi
Max Power	10 Watts

Specification	Value
Antenna Length	15.35 inches (39cm)
Item Weight	1.65 ounces
Impedance	50 Ohm

8. Warranty and Support

For warranty information or technical support regarding your ABBREE AR-771C GMRS Antenna, please refer to the purchase documentation or contact ABBREE customer service directly. Contact details can typically be found on the product packaging or the official ABBREE website.

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