

ABBREE AR-771C

ABBREE AR-771C GMRS Antenna Instruction Manual

Model: AR-771C

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your ABBREE AR-771C GMRS Antenna. This antenna is designed to enhance the communication range and signal quality of compatible GMRS (General Mobile Radio Service) radios.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1 x ABBREE AR-771C GMRS Antenna (SMA-Female)
- 1 x Rubber Gasket



The ABBREE AR-771C GMRS antenna sealed in its clear plastic retail packaging.

3. FEATURES

The ABBREE AR-771C GMRS Antenna offers several key features for improved radio performance:

- **Frequency Range:** Optimized for GMRS frequencies, with a center frequency of 155/462MHz. It also supports receiving frequencies of 136-174MHz and 400-520MHz.
- **Connector Type:** SMA-Female, ensuring compatibility with a wide range of GMRS radios.
- **High Gain:** Provides 2.15dBi gain, which significantly increases communication distance and signal clarity compared to standard antennas.
- **Maximum Power:** Supports up to 10 Watts of power.
- **Length:** Approximately 15.35 inches (39 cm), offering an optimal balance between performance and portability.
- **Design:** Lightweight and flexible whip design, making it suitable for outdoor and portable use.



The ABBREE AR-771C GMRS antenna, a 15.35-inch whip antenna, shown with its product identification tag.

4. COMPATIBILITY

The ABBREE AR-771C GMRS Antenna is compatible with various GMRS radios featuring an SMA-Female connector. Known compatible models include:

- Baofeng UV-5R (GMRS version)
- Baofeng GM-15Pro
- Baofeng WP-31
- Baofeng UV-9G
- Radioddity TD-H5
- Other GMRS radios with SMA-Female antenna connections

ABBREE AR-771 15.35inch GMRS Antenna SMA-Female for Baofeng GM-15Pro UV-5R(GMRS frequency) WP-31 GMRS Radio etc



An illustration showing several GMRS radios, including Baofeng models, demonstrating the compatibility of the ABBREE AR-771C antenna with different devices.

5. SETUP AND INSTALLATION

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

1. **Identify Connector:** Locate the SMA-Female connector on the base of your ABBREE AR-771C antenna and the corresponding SMA-Male connector on your GMRS radio.
2. **Prepare Gasket:** Place the included rubber gasket over the SMA-Male connector on your radio. This gasket helps protect the antenna connector base from dust and moisture.
3. **Attach Antenna:** Carefully align the SMA-Female connector of the antenna with the SMA-Male connector on your radio. Gently screw the antenna onto the radio in a clockwise direction until it is finger-tight. Do not overtighten.
4. **Verify Connection:** Ensure the antenna is securely attached and stands upright.

ABBREE AR-771 GMRS High Gain Soft Whip Antenna



Detailed view of the SMA-Female connector on the ABBREE AR-771C antenna and the corresponding port on a radio, illustrating the connection mechanism.

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Soft Antenna SMA-Female 39cm/15.35Inch



The ABBREE AR-771C GMRS antenna attached to a compatible Baofeng handheld radio, highlighting its SMA-Female connector.

6. OPERATING PRINCIPLES

The ABBREE AR-771C is a high-gain whip antenna designed to optimize your radio's performance. Generally, a longer antenna with higher gain provides a stronger ability to receive and transmit signals. This antenna's 15.35-inch length and 2.15dBi gain contribute to improved signal propagation and reception, especially in outdoor environments, offering better performance than shorter, standard antennas.



The ABBREE AR-771C GMRS antenna mounted on a radio, illustrating its full 15.35-inch length.



A hand holding the ABBREE AR-771C GMRS antenna, showcasing its flexible whip design.

7. MAINTENANCE

To ensure the longevity and optimal performance of your ABBREE AR-771C GMRS Antenna, follow these simple maintenance guidelines:

- **Cleaning:** Wipe the antenna periodically with a soft, damp cloth to remove dust and dirt. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the antenna in a clean, dry place away from extreme temperatures and direct sunlight.
- **Handling:** Avoid excessive bending or sharp impacts to the antenna, as this may damage the internal elements or the connector.
- **Connector Inspection:** Periodically check the SMA-Female connector for any signs of corrosion or damage. Ensure it remains clean and free of debris.


8. TROUBLESHOOTING

If you encounter issues with your ABBREE AR-771C GMRS Antenna, consider the following:

- **Antenna Not Screwing On Smoothly:** Some radio models may have a shroud around the SMA-Male connector that prevents the antenna from fully seating. If the antenna does not screw on completely or feels obstructed, carefully inspect the radio's connector area. In rare cases, a small amount of material (e.g., 4mm) from the antenna's shroud might need to be carefully trimmed to allow for a proper connection. Exercise caution if attempting this, or consult a professional.
- **Poor Signal Reception/Transmission:**
 - Ensure the antenna is securely and correctly attached to the radio.
 - Verify that your radio is set to the correct GMRS frequencies.
 - Check for environmental obstructions (e.g., buildings, terrain) that might be blocking the signal.
 - Test the antenna with another compatible radio if available, to rule out a radio-specific issue.

9. SPECIFICATIONS

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39cm/15.35inch

Model:	ABBREE AR-771C
Connector Type:	SMA-Female
Band:	GMRS
Frequency:	155MHz/462MHz
Max Power:	10 Watts
Gain:	2.15dBi
Antenna Length:	39CM/15.35"

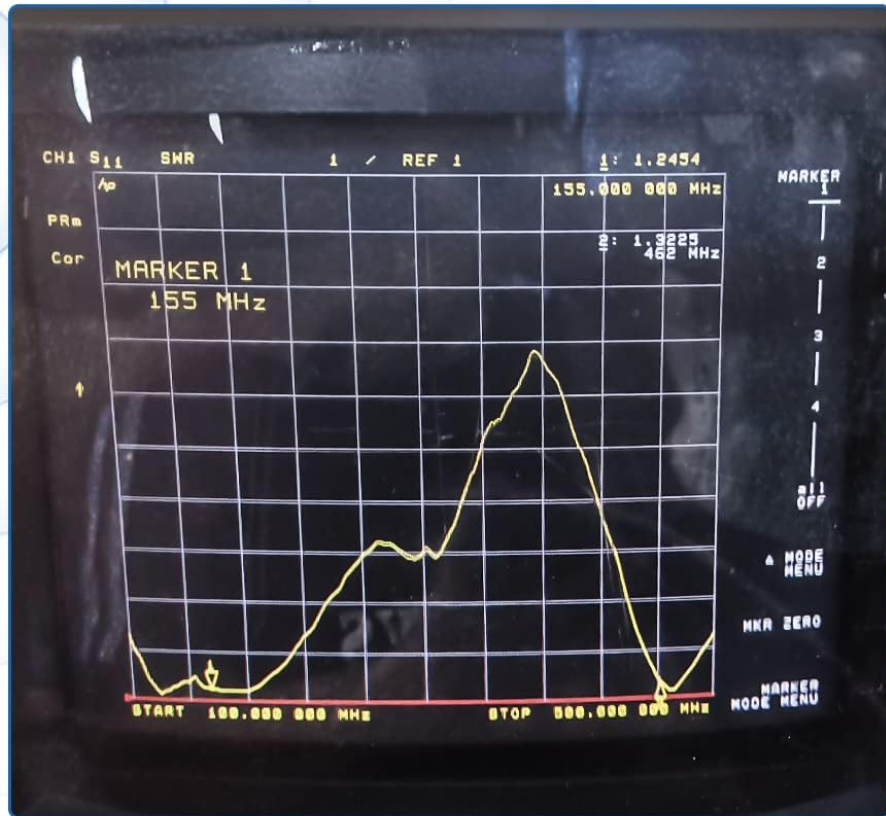
A visual representation of the ABBREE AR-771C antenna's key specifications, including model, connector type, band,

frequency, max power, gain, and length.

Specification	Detail
Model	ABBREE AR-771C
Connector Type	SMA-Female
Band	GMRS
Center Frequency	155/462MHz
Receiving Frequency	136-174MHz, 400-520MHz
Gain	2.15dBi
Max Power	10 Watts
Antenna Length	39 cm (15.35 inches)
Impedance	50 Ohm
Item Weight	1.76 ounces
Package Dimensions	17.04 x 3.94 x 0.47 inches

High Gain Soft Whip Antenna

Each high gain antenna has been strictly tested during the production process, which greatly guarantees their quality and function.



A screen displaying SWR (Standing Wave Ratio) test results for the ABBREE AR-771C antenna, indicating its performance across different frequencies.

10. SUPPORT

For further assistance, technical support, or inquiries regarding your ABBREE AR-771C GMRS Antenna, please contact the manufacturer directly through their official support channels. Refer to the product packaging or the ABBREE website for contact information.