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ABBREE AR-771

ABBREE AR-771 Dual Band Ham Radio Antenna User Manual

Model: AR-771 | Brand: ABBREE

1. INTRODUCTION

The ABBREE AR-771 is a high-performance dual-band VHF/UHF SMA-Female soft whip antenna designed to enhance the communication range and signal stability of compatible ham radios. Its optimized length and flexible design make it suitable for various outdoor activities and professional use.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Enhanced Signal Performance:** The 15.15-inch length is optimized to maximize signal gain, significantly extending communication distance compared to shorter antennas.
- **Dual Band Capability:** Operates on both VHF (144MHz) and UHF (430MHz) frequencies.
- **Flexible and Portable:** Constructed from durable, bendable material, making it lightweight and easy to transport in a backpack or pocket.
- **Wide Compatibility:** Features an SMA-Female connector for broad compatibility with many ham radio models.
- **Connector Protection:** Includes a rubber gasket to protect the radio's antenna connector base from damage.

2.2 Compatibility

This antenna is compatible with Baofeng ham radios including, but not limited to, UV-5R, BF-F8HP PRO, 5RM, K5PLUS, AR-152, GM-15PRO, UV-5G PLUS, BF-888S, UV-82HP, UV-82, UV-K5 series, and all other radios equipped with SMA-Female connectors.

2.3 Product Visuals

VS

ABBREE AR-771 antenna is a stronger antenna.
It can expand frequency range, perfect signal
stability and greatly increased
communication distance.

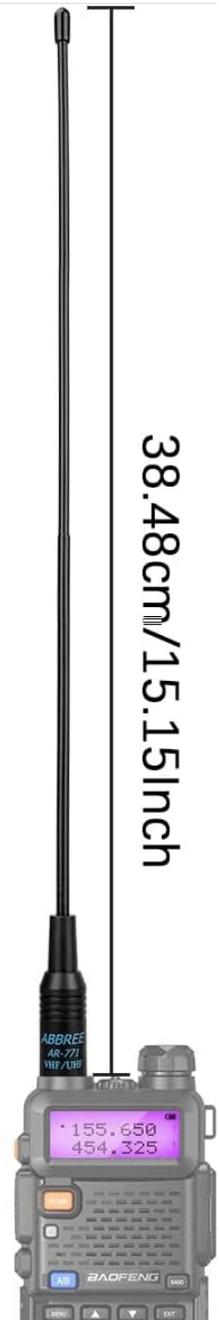


Figure 1: Visual comparison demonstrating the length difference between a standard short antenna (17cm/6.69") and the ABBREE AR-771 antenna (38.48cm/15.15"), indicating improved signal stability and communication distance.

ABBREE®

38.48cm/15.15Inch



Model: ABBREE AR-771

Connector Type: SMA-Female

Band: Dual band VHF/UHF

Frequency: 144MHz/430MHz

Max Power: 10 Watts

Gain: 2.15dBi

Antenna Length: 38.48cm/15.15Inch

Figure 2: Detailed specifications of the ABBREE AR-771 antenna, including its model number, SMA-Female connector type, dual band VHF/UHF operation, 144MHz/430MHz frequency, 10W max power, 2.15dBi gain, and 15.15-inch length.

ABBREE AR-771 High Gain Soft Whip Antenna



Figure 3: Illustration of the SMA-Female connector on the antenna and the male connector on a radio, showing the connection point for secure attachment.

ABBREE®

Soft Antenna SMA-Female

38.48cm/15.15Inch



Figure 4: The ABBREE AR-771 antenna attached to a ham radio, held by a user, providing a visual reference for its installed appearance and length.



Figure 5: An ABBREE AR-771 antenna shown with a spectrum analyzer display, illustrating the antenna's tested performance and quality control during manufacturing.

ABBREE AR-771 14.96" SMA-Female Dual Band VHF/UHF 2M/70CM High Gain Soft Whip Antenna for Baofeng UV-5R BF-F8HP BF-888S Kenwood TYT Two Way Radio



Figure 6: A lineup of various ham radio models, each fitted with an ABBREE AR-771 antenna, demonstrating its broad compatibility.

3. SETUP AND INSTALLATION

1. **Unpack:** Carefully remove the ABBREE AR-771 antenna and any included accessories from its packaging.
2. **Inspect:** Check the antenna for any visible damage. Ensure the SMA-Female connector is clean and free of debris.
3. **Prepare Radio:** Locate the antenna connector on your compatible ham radio. Ensure the radio is powered off before attaching the antenna.
4. **Attach Gasket:** Place the provided rubber gasket over the radio's antenna connector base. This gasket helps protect the connector from dust and moisture.
5. **Connect Antenna:** Align the SMA-Female connector of the ABBREE AR-771 antenna with the male connector on your radio. Gently screw the antenna clockwise until it is finger-tight. **Do not overtighten**, as this can damage the connectors.
6. **Verify Connection:** Ensure the antenna is securely attached and stands upright.

4. OPERATION

Once the ABBREE AR-771 antenna is securely installed, your ham radio is ready for operation. The antenna is designed to provide optimal performance across both VHF and UHF bands without requiring additional tuning for general use. For specific frequency operations, refer to your radio's user manual.

- **Signal Improvement:** Expect a noticeable improvement in signal reception and transmission range compared to shorter, stock antennas.
- **Positioning:** For best results, operate your radio with the antenna positioned vertically and unobstructed.
- **Environmental Factors:** Performance may vary based on terrain, obstacles, and atmospheric conditions.

5. MAINTENANCE

Proper care and maintenance will ensure the longevity and optimal performance of your ABBREE AR-771 antenna.

- **Cleaning:** Wipe the antenna with a soft, damp cloth to remove dirt or dust. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the antenna in a clean, dry place. Its flexible design allows for easy coiling, but avoid sharp bends near the base to prevent permanent deformation.
- **Inspection:** Periodically inspect the antenna and its connector for any signs of wear, damage, or corrosion. Ensure the rubber gasket is still in place and providing adequate protection.
- **Connector Care:** Keep the SMA-Female connector clean and dry. If exposed to moisture, ensure it is thoroughly dried before reattaching to a radio.

6. TROUBLESHOOTING

If you experience issues with your ABBREE AR-771 antenna, consider the following troubleshooting steps:

- **Poor Signal/Range:**
 - Ensure the antenna is securely tightened to the radio's connector. A loose connection can significantly degrade performance.
 - Check for any physical damage to the antenna, such as kinks or breaks in the whip.
 - Verify that your radio is set to the correct frequency band (VHF or UHF) for the intended communication.
 - Consider environmental factors like dense foliage, buildings, or hills that might obstruct the signal path.
- **Antenna Not Fitting:**
 - Confirm your radio has an SMA-Male connector. This antenna is designed for SMA-Female connections.
 - Ensure there are no obstructions around the radio's connector preventing the antenna from screwing on completely.
- **Intermittent Connection:**
 - Remove and reattach the antenna, ensuring a firm but not overtightened connection.
 - Inspect both the antenna and radio connectors for dirt, corrosion, or bent pins.

If problems persist after attempting these steps, contact customer support for further assistance.

7. SPECIFICATIONS

Feature	Specification
Model	AR-771
Frequency Range	Dual Band VHF/UHF (144MHz/430MHz)
Connector Type	SMA-Female
Gain	2.15dBi
Max Power	10W
Antenna Length	38.48 cm (15.15 inches)
Impedance	50 Ohms
Product Dimensions	2 x 1 x 15.35 inches (approximate)
Item Weight	2.89 ounces

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your ABBREE AR-771 antenna, please refer to the documentation provided at the time of purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.