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› ABBREE AR-771 Tri-Band Antenna User Manual

ABBREE AR-771

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Model: AR-771

INTRODUCTION

This manual provides detailed instructions for the proper use, setup, and maintenance of your ABBREE AR-771 Tri-Band Antenna. Please read this manual thoroughly before using the antenna to ensure optimal performance and safety.

SAFETY INFORMATION

- Ensure the antenna is securely connected to your radio before operation.
- Avoid bending the antenna excessively beyond its natural flexibility to prevent damage.
- Do not attempt to disassemble the antenna.
- Keep the antenna away from extreme temperatures and direct sunlight for prolonged periods.

PACKAGE CONTENTS

The ABBREE AR-771 Tri-Band Antenna package includes the following items:

- 1 x ABBREE AR-771 Tri-Band Antenna
- 1 x Rubber Gasket

PRODUCT OVERVIEW

The ABBREE AR-771 is a 15.1-inch flexible whip antenna designed for tri-band radio operation. It features an SMA-Female connector for broad compatibility.



Figure 1: ABBREE AR-771 Tri-Band Antenna. This image shows the full length of the antenna, highlighting its slender whip design and the base with the SMA-Female connector.



Figure 2: Antenna Dimensions and Connector Type. This image illustrates the antenna's length (38cm) and clearly shows the SMA-Female connector at its base.



Figure 3: Close-up of SMA-Female Connector. A detailed view of the antenna's base, showing the threaded SMA-Female connector for attachment to compatible radios.

SETUP

1. **Identify Radio Connector:** Ensure your radio has an SMA-Male connector to be compatible with the AR-771's SMA-Female connector.
2. **Attach Gasket (Optional):** If provided and necessary for your radio model, place the rubber gasket onto the antenna's base.
3. **Screw Antenna On:** Carefully align the antenna's SMA-Female connector with the radio's SMA-Male connector. Gently screw the antenna onto the radio clockwise until it is finger-tight. Do not overtighten.
4. **Verify Connection:** Ensure the antenna is seated properly and feels secure. A loose connection can affect performance.

OPERATING

The ABBREE AR-771 antenna is designed to operate across three frequency bands: VHF, 1.25M, and UHF. Its performance is optimized for these ranges.



Figure 4: Tri-Band Frequency Coverage. This image visually represents the three frequency bands supported by the antenna: VHF (136-174MHz), 1.25M (220-225MHz), and UHF (400-520MHz).

- **Frequency Compatibility:** This antenna is compatible with radios operating on 144MHz (VHF), 222MHz (1.25M), and 435MHz (UHF) bands.
- **Optimal Performance:** For best results, ensure your radio is configured to transmit and receive within the antenna's specified frequency ranges.
- **Flexibility:** The antenna's flexible design allows for easy storage and reduces the risk of damage during transport.



Figure 5: Antenna Flexibility. This image demonstrates the antenna's flexible material, showing it bent into a loop, which aids in portability and durability.

MAINTENANCE

- **Cleaning:** Wipe the antenna with a soft, dry cloth to remove dust and dirt. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the antenna in a cool, dry place when not in use. Its flexible nature allows for compact storage.
- **Inspection:** Periodically inspect the antenna for any signs of wear, damage, or corrosion, especially around the

connector.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor signal reception/transmission	Loose antenna connection; Antenna not suited for current frequency; Damaged antenna.	Ensure antenna is securely tightened; Verify radio frequency matches antenna's supported bands; Inspect antenna for damage and replace if necessary.
Antenna does not fit radio	Incorrect connector type; Obstruction around radio's antenna port.	Confirm your radio has an SMA-Male connector; Check for any plastic molding or obstructions around the radio's antenna port that might prevent full seating.

SPECIFICATIONS

Feature	Detail
Model	AR-771
Frequency Range	VHF (136-174MHz), 1.25M (220-225MHz), UHF (400-520MHz)
Gain	2.5dBi
Max Power	20 Watts
V.S.W.R	Less than 1.5
Impedance	50 Ohm
Connector Type	SMA-Female
Antenna Length	15.1 inches (approx. 38 cm)
Material	Soft and Flexible
Weight	1.58 ounces

WARRANTY AND SUPPORT

For warranty information or technical support, please contact ABBREE customer service through their official website or the retailer from whom you purchased the product. Please have your product model number (AR-771) and purchase details ready when contacting support.

For more information, visit the [ABBREE Brand Store on Amazon](#).

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