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› ABBREE AR-806 Mini Antenna Instruction Manual

ABBREE AR-806

ABBREE AR-806 Mini Antenna Instruction Manual

Model: AR-806

1. INTRODUCTION

The ABBREE AR-806 is a compact, dual-band SMA-Female VHF/UHF stubby short antenna designed to enhance the performance and portability of compatible ham radios. Its robust construction and optimized design make it suitable for various communication needs, especially in outdoor and portable scenarios.



Figure 1.1: ABBREE AR-806 Mini Antennas (2-Pack)

2. KEY FEATURES

- **Dual Band Operation:** Supports both VHF (144MHz) and UHF (430MHz) frequencies.
- **SMA-Female Connector:** Ensures broad compatibility with a wide range of ham radios.
- **Compact Design:** With a length of 3.14 inches (8cm), it offers superior portability compared to standard antennas.
- **Enhanced Portability:** Ideal for outdoor activities such as camping, hiking, and hunting due to its small size.
- **Durable Construction:** Built to withstand various environmental conditions.
- **Optimized Performance:** Provides 2dBi gain for effective short-range communication.
- **Low VSWR:** Value less than 1.5 for efficient signal transmission.

**The Antenna Length is only 8CM
very short and easy to carry**



Figure 2.1: Compact Size of the AR-806 Antenna

3. COMPATIBILITY

The ABBREE AR-806 antenna features an SMA-Female connector, making it compatible with a wide range of ham radios that utilize an SMA-Male antenna interface. This includes, but is not limited to, popular models from Baofeng and Quansheng.

Compatible Radio Models:

- Baofeng: UV-5R, 5RM, BF-F8HP/Pro, K5PLUS, DM32, UV32, UV-21R, AR-152, BF-888S, UV-82, UV-25, UV-5G Plus, GM-15 PRO
- Quansheng: K6, UVK5(8), TD-H8
- And other radios with SMA-Female antenna ports.

Compatible with SMA-Female Connector Radio



Equipment Interface



SMA-Female Interface



Figure 3.1: SMA-Female Connector Compatibility

ABBREE AR-806+ Mini Antenna



Compatible with Baofeng:
UV-5R 5RM BF-F8HP/Pro,UV-21R,
AR-152,K5 Plus,UV-K5,UV-25,BF-888S,
TD-H8,TD-H3 etc. Two Way Radio

Figure 3.2: Antenna Mounted on a Baofeng Radio

4. PACKAGE CONTENTS

Each package of the ABBREE AR-806 Mini Antenna includes the following items:

- 2 x ABBREE AR-806 Mini Antennas
- 2 x Rubber Shims (for gap adjustment)



Figure 4.1: Package Contents

5. SETUP INSTRUCTIONS

1. **Identify Antenna Port:** Locate the SMA-Male antenna port on your compatible ham radio. This is typically found on the top of the radio.
2. **Align Connector:** Carefully align the SMA-Female connector of the ABBREE AR-806 antenna with the radio's antenna port.
3. **Screw On Antenna:** Gently screw the antenna onto the radio's port in a clockwise direction. Ensure it is finger-tight. Do not overtighten, as this can damage the connector.
4. **Use Shim (Optional):** If you notice a slight gap between the base of the antenna and the radio body after tightening, you can use the included rubber shim. Unscrew the antenna, place the shim over the radio's antenna port, and then re-screw the antenna on top of the shim. This helps ensure a secure fit and protects the connection.



Figure 5.1: SMA-Female Connector Detail



Figure 5.2: Antenna in Hand

Your browser does not support the video tag.

Video 5.1: Official ABBREE AR-806 Mini Antenna Overview. This video demonstrates the antenna's features and compatibility.

6. OPERATING GUIDELINES

Once the ABBREE AR-806 antenna is securely attached to your radio, it is ready for use. As a passive component, the antenna does not require specific operational steps beyond proper installation. Its primary function is to receive and

transmit radio signals efficiently.

- Ensure your radio is tuned to the correct VHF or UHF frequency for optimal performance.
- For best signal reception and transmission, operate your radio in an open area with minimal obstructions.
- While the antenna is designed for short-range communication, environmental factors (e.g., buildings, terrain) can affect signal range.



Figure 6.1: Antenna in Use During Outdoor Activity



Figure 6.2: Suitable for Various Scenarios

7. MAINTENANCE

The ABBREE AR-806 antenna requires minimal maintenance to ensure its longevity and optimal performance.

- **Cleaning:** Wipe the antenna with a soft, dry cloth to remove dust and dirt. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the antenna in a cool, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check the SMA-Female connector for any signs of damage or corrosion. Ensure the connection remains secure when attached to the radio.
- **Avoid Bending:** While durable, avoid excessive bending or forceful impacts to prevent internal damage to the antenna element.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor Signal Reception/Transmission	Antenna not securely connected. Incorrect frequency selected on radio. Environmental obstructions (e.g., buildings, dense foliage). Damaged antenna or radio port.	Ensure antenna is tightly screwed onto the radio. Use the shim if there's a gap. Verify radio frequency settings. Move to an open area or higher ground. Inspect antenna and radio port for damage. Try a different antenna if available.
Antenna feels loose after tightening	Gap between antenna base and radio. Worn out radio antenna port threads.	Use the included rubber shim to fill the gap. Consult radio manufacturer for port repair if threads are damaged.

9. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	AR-806
Connector Type	SMA-Female
Frequency Range	VHF/UHF Dual Band (144/430MHz)
Gain	2dBi
Maximum Power	10W
V.S.W.R.	Less than 1.5
Impedance	50 Ohm
Length	3.14 inches (8cm)
Weight	1.44 ounces (per 2-pack)

10. WARRANTY AND SUPPORT

For warranty information and customer support regarding your ABBREE AR-806 Mini Antenna, please refer to the official ABBREE website or contact their customer service directly. Details are typically provided with your product packaging or on the manufacturer's official online channels.

As per Amazon's return policy, this product typically has a 30-day refund/replacement period from the date of purchase. Please check your specific purchase details for the most accurate return policy.

Manufacturer: ABBREE

