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› ABBREE AR-805S Ham Radio Antenna User Manual

ABBREE AR-805S

ABBREE AR-805S Ham Radio Antenna User Manual

Dual Band VHF/UHF 144/430Mhz Stubby Short Antenna

1. INTRODUCTION

This manual provides essential information for the proper use, installation, and maintenance of your ABBREE AR-805S Dual Band Ham Radio Antenna. Please read this manual thoroughly before using the antenna to ensure optimal performance and safety.



Figure 1.1: Two ABBREE AR-805S antennas, showcasing their compact design and SMA-Female connector.

2. PRODUCT FEATURES

- **Dual Band Operation:** Supports both VHF (144MHz) and UHF (430MHz) frequencies.
- **High Gain:** Designed to increase communication distance with 2.15dBi (VHF) and 3.0dBi (UHF) gain.

- **Compact Size:** At 1.96 inches (5cm) in length, it is highly portable and discreet.
- **SMA-Female Connector:** Ensures broad compatibility with various ham radios.
- **Durable Construction:** Built for reliable performance.



Figure 2.1: Detailed view of the AR-805S antenna with its key specifications.

3. SPECIFICATIONS

Parameter	Value
Model	ABBREE AR-805S
Frequency Range	144/430MHz (VHF/UHF)
Gain (MAX)	2.15dBi (VHF) / 3.0dBi (UHF)
Max Power	10W
Impedance	50 OHM

Connector Type	SMA-Female
Antenna Length	1.96 inches (5 cm)
Color	Black

4. COMPATIBILITY

The ABBREE AR-805S antenna is compatible with a wide range of ham radios featuring an SMA-Female connector. Common compatible models include, but are not limited to:

- Baofeng UV-5R series (UV-5R, UV-5RM, BF-F8HP PRO, K5 Plus)
- Baofeng AR-152, DM32, UV-21R, GM21, UV-K5, TD-H8, TD-H3
- Baofeng BF-888S, GM-15 PRO
- Other radios with SMA-Female antenna ports.

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Compatible with most SMA-Female Ham Radio:
Baofeng UV-5R 5RM BF-F8HP PRO,K5 Plus,
DM32,UV32,AR-152,GM21 BF-888S

Figure 4.1: The AR-805S antenna shown with a compatible radio and a list of supported models.



Figure 4.2: Various Baofeng radio models equipped with the AR-805S antenna, illustrating its versatility.

5. SETUP AND INSTALLATION

Installing the ABBREE AR-805S antenna is a straightforward process. Follow these steps for proper attachment to your compatible radio:

1. **Identify the Antenna Port:** Locate the SMA-Female antenna port on your ham radio. This is typically on the top of the radio.
2. **Align the Connector:** Carefully align the SMA-Male connector of the AR-805S antenna with the SMA-Female port on your radio.
3. **Screw On:** 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 on either the antenna or the radio.
4. **Check Connection:** Verify that the antenna is securely attached and there is no wobble. A secure connection is crucial for optimal signal transmission and reception.
5. **Use Gasket (Optional):** If there is a small gap between the antenna and the transceiver, use the provided rubber gasket (if included in your package) to seal the connection and prevent dust or moisture ingress.

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Connector



Figure 5.1: Proper alignment and connection of the AR-805S antenna to a radio's SMA-Female port.



Figure 5.2: The antenna package showing the optional rubber gasket for a secure fit.

6. OPERATING GUIDELINES

Once installed, the AR-805S antenna operates passively with your radio. Ensure your radio is configured for the correct frequency band (VHF or UHF) for optimal performance. The antenna is designed to provide enhanced signal reception and transmission within its specified frequency ranges.

- Always ensure the antenna is securely attached before transmitting.
- Avoid bending or forcefully twisting the antenna, as this can damage the internal components or the connector.
- For best performance, operate your radio in an open area with minimal obstructions.

7. MAINTENANCE AND CARE

The ABBREE AR-805S antenna requires minimal maintenance. Following these guidelines will help prolong its lifespan and ensure continued performance:

- **Cleaning:** Wipe the antenna with a soft, dry cloth to remove dust or dirt. Do not use 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 inspect the connector for any signs of corrosion or damage. Ensure the connection remains tight.

when attached to your radio.

- **Protection:** While durable, avoid dropping the antenna or subjecting it to severe impacts.

8. TROUBLESHOOTING

If you experience issues with your ABBREE AR-805S antenna, consider the following common troubleshooting steps:

- **Poor Signal Quality:**

- Ensure the antenna is securely screwed onto the radio. A loose connection can significantly degrade performance.
- Verify that your radio is set to the correct frequency band (VHF or UHF) for the communication you are attempting.
- Check for environmental obstructions (e.g., buildings, dense foliage) that might be blocking the signal.
- Test with another known-good antenna to rule out radio issues.

- **Antenna Not Fitting:**

- Confirm your radio has an SMA-Female connector. This antenna is designed specifically for SMA-Female ports.
- Do not force the connection. If it doesn't screw on easily, re-check alignment or verify connector type.

- **Physical Damage:**

- If the antenna has been dropped or subjected to impact, internal components may be damaged. Inspect for visible cracks or bends.

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

9. WARRANTY AND SUPPORT

ABBREE products are manufactured to high quality standards. For warranty information and customer support, please refer to the documentation included with your purchase or visit the official ABBREE website. Keep your proof of purchase for warranty claims. For technical assistance or inquiries, please contact ABBREE customer service through their official channels. Provide your product model (AR-805S) and a detailed description of the issue for efficient support.