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ABBREE AR-152

ABBREE SMA-Female Ham Radio Orange Antenna User Manual

Model: AR-152

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your ABBREE SMA-Female Ham Radio Orange Antenna. Please read this manual thoroughly before using the antenna to ensure optimal performance and longevity.



Image 1.1: The ABBREE SMA-Female Ham Radio Orange Antenna shown in its compact, folded configuration, highlighting its portability.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x ABBREE SMA-Female Orange Tactical Antenna
- 1 x Gasket

Original Abbree Antenna package Better quality ,with gaskets



Image 2.1: Contents of the ABBREE antenna package, including the orange tactical antenna, a gasket, and a securing strap.

3. SETUP GUIDE

3.1 Unfolding the Antenna

The antenna features a detachable and foldable dual structure design for enhanced portability. To prepare for use, gently unfold the antenna from its compact state until it reaches its full length of approximately 18.8 inches (48 cm).

Adjustable&Foldable

Detachable + folding dual structure design,

50% shorter after storage, easily tucked into the side pocket of a backpack or a tactical undershirt.



Image 3.1: Visual representation of the antenna's dimensions in both folded (18.5cm/7.28in) and unfolded (48cm/18.89in) states, demonstrating its adjustable and foldable design.

3.2 Attaching to Your Radio

The ABBREE antenna is equipped with an SMA-Female connector. To attach it to your compatible ham radio (e.g., Baofeng UV-5R, BF-F8HP, Quansheng K6), carefully align the antenna's connector with the radio's SMA-Male port and screw it on clockwise until secure. Do not overtighten.

Tactical Antenna SMA-Female 48cm/18.89in



Image 3.2: The SMA-Female connector of the antenna shown attached to a compatible ham radio, illustrating the connection point.

4. OPERATING INSTRUCTIONS

4.1 Frequency and Gain

This antenna operates on dual frequency bands: 144 MHz (VHF) and 430 MHz (UHF). It provides a gain of 2.15dBi, which significantly improves signal reception and transmission range for your ham radio. Ensure your radio is set to the correct frequency within these bands for optimal performance.

4.2 Maximizing Performance

- **Antenna Orientation:** For best results, ensure the antenna is as vertical as possible during operation.
- **Clear Line of Sight:** Operate in areas with minimal obstructions (buildings, dense foliage) to maximize signal propagation.
- **Power Limit:** Do not exceed the maximum input power of 10W to prevent damage to the antenna.



Image 4.1: Key features of the antenna: High Gain, Foldable, and Durable, contributing to enhanced communication.

5. MAINTENANCE

5.1 Cleaning

Wipe the antenna with a soft, damp cloth to remove dirt or dust. Avoid using harsh chemicals or abrasive cleaners, as they may damage the antenna's material or finish.

5.2 Storage

When not in use, fold the antenna to its compact size. This protects the antenna and makes it easy to store in a backpack side pocket or tactical undershirt. Store in a cool, dry place away from direct sunlight and extreme temperatures.



Image 5.1: The antenna held in a hand, demonstrating its compact, folded form factor for easy storage and transport.

6. TROUBLESHOOTING

6.1 Poor Signal Quality

- **Check Connection:** Ensure the antenna is securely screwed onto the radio's SMA-Female port. A loose connection can significantly degrade performance.
- **Verify Frequency:** Confirm that your radio is operating on the 144 MHz or 430 MHz band.
- **Environmental Factors:** Large obstacles (buildings, hills) can block signals. Try moving to an open area.

6.2 Antenna Not Folding Properly

- **Inspect for Damage:** Check for any bends or damage to the flexible parts of the antenna that might impede folding.
- **Clear Obstructions:** Ensure no debris is caught in the folding mechanism.

7. SPECIFICATIONS

Feature	Specification
Model Number	AR-152
Frequency Range	144/430 MHz (VHF/UHF)
Connector Type	SMA-Female
Gain	2.15dBi
Max Input Power	10W
Antenna Length (Unfolded)	18.8 inches (48 cm)
Antenna Length (Folded)	7.28 inches (18.5 cm)
Item Weight	3.2 ounces
Color	Orange / Black

8. WARRANTY AND SUPPORT

For information regarding warranty coverage and technical support, please refer to the documentation provided with your purchase or contact ABBREE customer service directly. Keep your proof of purchase for warranty claims.

Manufacturer: ABBREE