BAOFENG 5RM

BAOFENG 5RM Ham Radio User Manual

Model: 5RM

1. Introduction

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your BAOFENG 5RM Ham Radio. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

The BAOFENG 5RM is an advanced handheld two-way radio designed for versatile communication. It features multi-band support (VHF, VHF2, UHF, AM/FM receiver), a 1.77" TFT large screen, and a robust 2500mAh battery. Key functionalities include one-key frequency matching, NOAA weather reception, and 999 memory channels, making it suitable for various applications from outdoor activities to professional use.

2. Package Contents

Upon opening the package, verify that all items listed below are present and in good condition:

- BAOFENG 5RM Radio with Antenna x 1
- 2500mAh Rechargeable Battery x 1
- Earpiece x 1
- Desktop Charger x 1
- Belt Clip x 1
- Hand Strap x 1
- User's Manual x 1



Figure 2.1: Contents of the BAOFENG 5RM package.

3. Setup

3.1 Battery Installation

To install the 2500mAh Lithium-Ion battery:

1. Align the battery with the battery compartment on the back of the radio.
2. Slide the battery upwards until it clicks securely into place.
3. Ensure the battery release latch is engaged to prevent accidental detachment.



Figure 3.1: BAOFENG 5RM radio and its 2500mAh battery.

3.2 Antenna Attachment

To attach the antenna:

1. Screw the antenna clockwise into the antenna connector on the top of the radio until it is finger-tight. Do not overtighten.

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Video 3.1: Demonstrates the attachment of the antenna to the BAOFENG 5RM radio and basic power-on sequence.

3.3 Charging the Battery

The BAOFENG 5RM offers two charging methods:

- **USB-C Direct Charging:** Connect a USB-C cable directly to the port on the battery pack.
- **Desktop Charger:** Place the radio (with battery installed) into the desktop charging cradle. Ensure the charging contacts align.

The charging indicator light on the radio or charger will show the charging status. A full charge typically takes several hours.



Figure 3.2: Two charging methods for the BAOFENG 5RM radio.

4. Operating Instructions

4.1 Power On/Off and Volume Control

To power on the radio, rotate the top knob clockwise. Continue rotating to adjust the volume. Rotate counter-clockwise until a click is heard to power off.

4.2 Display and Navigation

The 1.77" TFT large screen displays current frequencies, channel numbers, battery status, and other operational indicators. Use the keypad and navigation buttons (up/down arrows) to navigate menus and select options.



Figure 4.1: The 1.77" large screen of the BAOFENG 5RM.

4.3 One-Key Frequency Match

This feature allows for quick pairing and grouping by copying channel configuration parameters from another radio.

1. Press and hold the green "scan" key to activate the one-touch frequency matching function.
2. Press the "#" key to switch between bands during the matching process.



Figure 4.2: One-Key Frequency Match function.

4.4 Multi-Band Operation

The radio supports multiple frequency bands:

- VHF (136-174 MHz)
- VHF2 (220-260 MHz)
- UHF (400-480 MHz)
- AM (108-136 MHz) - Aviation Band Receiving
- FM (88-108 MHz) - Broadcast Radio



Figure 4.3: Multi-Band Frequency Ranges.



Figure 4.4: AM Aviation Band Receiving.

4.5 NOAA Weather Receiver

The radio supports NOAA weather reception to keep you informed about severe weather conditions.

1. Press and hold the "0" key to activate the NOAA Weather function.



Figure 4.5: NOAA Weather Receiver function.

4.6 Advanced Features

The BAOFENG 5RM includes a variety of advanced features for enhanced communication and utility:

- **999 Memory Channels:** Store a large number of frequencies for quick access.
- **Power-on Password Management:** Secure your radio with a password.
- **DTMF (Dual-Tone Multi-Frequency):** For signaling and control.
- **VOX (Voice Operated Exchange):** Hands-free transmission.
- **Stopwatch & Alarm:** Built-in utility functions.
- **LED Flashlight:** For illumination in low-light conditions.
- **Squelch:** Eliminates background noise.
- **Battery Save:** Extends battery life.
- **Repeater Function:** For extending communication range.
- **CTCSS (Continuous Tone-Coded Squelch System) & DCS (Digital Coded Squelch):** For selective signaling.

- **Scan:** Scans through frequencies or channels.
- **TOT (Time-Out Timer):** Prevents excessively long transmissions.
- **BCL (Busy Channel Lockout):** Prevents transmission on an occupied channel.

5. Maintenance

5.1 Battery Care

- Always use the original BAOFENG charger and battery.
- Avoid overcharging or completely draining the battery.
- Store the battery in a cool, dry place when not in use for extended periods.

5.2 Cleaning

- Clean the radio's surface with a soft, damp cloth.
  - Do not use harsh chemicals or abrasive cleaners.
- Ensure the radio is dry before use or charging.

5.3 Storage

When storing the radio for a long time, remove the battery and store both separately in a cool, dry place. Avoid extreme temperatures and direct sunlight.

6. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery; improperly installed battery.	Charge the battery; ensure battery is correctly installed.
Cannot transmit or receive	Incorrect frequency/channel; antenna not properly attached; out of range.	Verify frequency settings; check antenna connection; move closer to other radios or repeater.
Poor audio quality	Low volume; squelch level too high; interference.	Adjust volume; lower squelch level; move away from sources of interference.
Battery not charging	Charger/cable faulty; poor contact with charging cradle.	Try a different charger/cable; ensure radio is seated correctly in the cradle.

For more detailed troubleshooting, please refer to the comprehensive user manual included in your package or contact customer support.

7. Specifications

Feature	Detail
Brand	BAOFENG
Model Number	5RM
Item Weight	1.37 pounds
Package Dimensions	7.99 x 4.69 x 4.29 inches
Country of Origin	China
Batteries	1 Lithium Ion battery required (included)
Number of Channels	999
Special Features	Long Range, Multi-Bands, Type-C Charging, NOAA weather reception, One Key Frequency Match
Frequency Range	VHF/UHF
Talking Range Maximum	8 Kilometer
Tuner Technology	AM/FM
Voltage	3.33 Volts (DC)
Water Resistance Level	Not Water Resistant

8. Warranty and Support

8.1 Warranty Information

The BAOFENG 5RM Ham Radio comes with a 12-month warranty. We also offer 30 days return and exchange policy.

8.2 Customer Support

If you encounter any problems with your walkie-talkie or have questions not covered in this manual, please feel free to contact us via Amazon. Our support team is ready to assist you.

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Example: How do I reset this device or fix this error?

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