BAOFENG 3b4da87f-f2e7-4686-b1e0-1de1c3f7092e

BAOFENG AR-152 Ham Radio Instruction Manual

Your comprehensive guide to operating and maintaining your BAOFENG AR-152 Two-Way Radio.

1. Introduction

The BAOFENG AR-152 is a high-power, long-range handheld ham radio designed for robust and reliable two-way communication. Featuring a 10W output, a large 12000mAh rechargeable battery, and multiple charging options, this military-grade radio is built to perform in challenging environments. Its advanced capabilities include tri-power switching (High/Mid/Low), compatibility with tactical antennas for extended range, and versatile programming options.



Figure 1.1: BAOFENG AR-152 Ham Radio Full Set

2. Safety Information

FCC Compliance: This device complies with part 15 of the FCC Rules. FCC ID: 2AJGM-AR152. Operation is subject to the condition that this device does not cause harmful interference.
Legal Disclaimer: Restricted to occupational use to satisfy FCC RF exposure limits. Modification of this device to receive cellular radiotelephone service signals is prohibited under FCC rules and federal law.
Users are advised to obtain the necessary amateur radio license for transmitting with this device in the United States. Listening to frequencies does not require a license.

3. What's in the Box

Upon opening your BAOFENG AR-152 package, you will find the following components:

- 2 x Portable Radio Units
- 2 x 12000mAh Li-ion Battery Packs
- 2 x Wall Adapters
- 2 x Standard Antennas
- 2 x 18.89" Tactical Antennas
- 1 x Programming Cable
- 2 x Lanyards
- 2 x User Manuals

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Video 3.1: Unboxing and initial components of the BAOFENG AR-152 radio.

4. Product Overview

The BAOFENG AR-152 features a robust design with user-friendly controls and a clear display.

4.1 Key Features and Components

- **Large Numeric Keypad:** Designed for easy operation, even with gloves.
- **LCD Display:** A non-color, large LCD display provides clear readability indoors and outdoors, with a backlight for low-light conditions.
- **1 Watt Speaker:** Delivers loud and clear audio, overcoming high ambient noise.
- **Side Buttons:** Dedicated buttons for Push-to-Talk (PTT), mode changing, and flashlight activation.
- **SMA-Female Antenna Interface:** Compatible with various antennas, including the included 18.89" tactical antennas for enhanced range.
- **K-Port (2-Pin):** Allows connection of external accessories such as headsets, speaker microphones, and programming cables.
- **High Power Output:** Up to 10W output with High/Medium/Low power switching.
- **Long-Lasting Battery:** Equipped with a 12000mAh Li-ion battery for extended operation.



Figure 4.1: Product Details and Features



Figure 4.2: Radio Dimensions and Dual Band Information



Figure 4.3: Highlighting 10W Power and 12000mAh Battery



Figure 4.4: 12000mAh Large Capacity Battery

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Video 4.1: Detailed overview of the radio's physical features, including keypad, side buttons, and power/volume knob.

5. Setup

5.1 Attaching the Antenna

Carefully screw the desired antenna (standard or tactical) into the SMA-Female connector at the top of the radio until it is finger-tight. Do not overtighten.

5.2 Installing the Battery

Align the 12000mAh battery pack with the battery compartment on the back of the radio. Slide the battery upwards until it clicks securely into place.

5.3 Initial Charging

Before first use, fully charge the battery. The BAOFENG AR-152 offers three convenient charging methods:

- **Wall Charger:** Use the included wall adapter by plugging it into the 2.5mm charging port on the battery.
- **USB Charger:** Connect a USB charging cable (not standard, may require separate purchase) to the 2.5mm port and a USB power source.
- **Car Charger:** Utilize a car charger (not standard, may require separate purchase) connected to the 2.5mm port for on-the-go charging.



Figure 5.1: Available Charging Methods

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Video 5.1: Demonstrates battery and antenna attachment, along with various charging methods.

6. Operating Modes

6.1 Power On/Off and Volume Control

To power on the radio, rotate the top knob clockwise until you hear a click. Continue rotating to adjust the volume. Rotate counter-clockwise to decrease volume and power off.

6.2 Frequency Mode

In Frequency Mode, you can directly input desired frequencies using the numeric keypad. This mode allows for flexible tuning across the supported VHF (144-148MHz) and UHF (420-450MHz) bands.

6.3 Channel Mode

Channel Mode allows you to store and quickly access pre-programmed frequencies. Use the up/down arrow keys to navigate through stored channels. This is ideal for frequently used frequencies.

6.4 FM Radio Function

The radio includes an FM broadcast receiver. Press the 'MODE' button (often a side button or a dedicated key) to switch to FM radio mode. You can then tune into local FM stations.

6.5 Power Transmission Modes

The AR-152 supports three power output levels: High, Medium, and Low. This allows you to conserve battery life when long-range communication is not required. Use the designated button (often '#' or a function key) to cycle through these power modes.

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Video 6.1: Demonstrates the radio's power output capabilities.

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Video 6.2: Shows how to operate the radio's FM function, switch between frequency and channel modes, and adjust power levels.

7. Advanced Features

7.1 Programming the Radio

The BAOFENG AR-152 can be programmed via its keypad or through a computer using the included programming cable. Special firmware from 'radio shared' is available for advanced customization. Note that once a channel memory space is used, it cannot be overwritten until that channel memory is deleted. Be cautious when using third-party software like Chirp, as some versions may cause irreversible power output malfunctions.



Figure 7.1: Programming the Radio with Cable

7.2 External Headset/Microphone Connection

The radio features a Kenwood K-type (2-pin) port on the side, allowing connection of external headsets, speaker microphones, or data cables for enhanced functionality and convenience.

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Video 7.1: Demonstrates the use of the K-port for external accessories.

7.3 Flashlight Function

A built-in LED flashlight is available for illumination. Press the designated side button once to turn it on, a second time to make it flash, and a third time to turn it off.

7.4 Alarm Function

The radio includes an alarm feature for emergencies. Press and hold the designated side button to activate the alarm. Press it again to deactivate.

8. Maintenance

8.1 Battery Care

To maximize the lifespan of your 12000mAh Li-ion battery, avoid fully discharging it regularly. Recharge the battery when the low battery indicator appears. Store the radio and battery in a cool, dry place when not in use for extended periods.

8.2 Cleaning

Wipe the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure all ports are covered when not in use to prevent dust and moisture ingress.

9. Troubleshooting

If you encounter issues with your BAOFENG AR-152, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on.	Battery is not installed correctly or is discharged.	Ensure battery is securely attached. Charge the battery fully.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not connected, or out of range.	Verify frequency/channel settings. Check antenna connection. Move closer to the other radio. Ensure you have a valid license for transmission.
Poor audio quality.	Low volume, interference, or damaged speaker/microphone.	Adjust volume. Move away from sources of interference. If problem persists, contact support.
Programming issues with PC software.	Incorrect software version, driver issues, or corrupted firmware.	Use official BAOFENG CPS software or recommended versions. Ensure correct drivers are installed. Refer to online forums for specific software issues.

10. Specifications

Feature	Value
Brand	BAOFENG
Model Number	3b4da87f-f2e7-4686-b1e0-1de1c3f7092e
Output Power	10W (High/Mid/Low Tri-Power Switching)
Battery Capacity	12000mAh Li-ion
Frequency Range	VHF: 144-148MHz, UHF: 420-450MHz
Channels	Up to 128
Antenna Type	SMA-Female
Speaker Output	1 Watt
Connectivity	Kenwood K-type (2-Pin) for accessories
Charging Methods	2.5mm port (Wall, USB, Car charger compatible)
FCC ID	2AJGM-AR152
Item Weight	4.11 pounds
Package Dimensions	11.38 x 7.64 x 5.2 inches
Water Resistance Level	Not Water Resistant

11. Warranty and Support

11.1 Warranty Information

Please refer to the product packaging or the manufacturer's official website for specific warranty details and duration. Typically, electronic devices come with a limited manufacturer's warranty covering defects in materials and workmanship.

11.2 Customer Support

For technical guidance, after-sales service, or any inquiries not covered in this manual, please contact BAOFENG customer support through their official channels. Contact information can usually be found on the product packaging or the manufacturer's website.

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

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Model number, symptoms, what you tried, or the section of the manual you are using.

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