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BAOFENG F22

BAOFENG F22 FRS Two-Way Radio User Manual

Comprehensive guide for setup, operation, and maintenance of your BAOFENG F22 Walkie Talkies.

1. Introduction

The BAOFENG F22 FRS Two-Way Radio is designed for reliable and clear communication over various distances. Featuring 22 FRS channels, NOAA weather scan, VOX function, and a built-in flashlight, these radios are suitable for a wide range of activities including hiking, camping, and general outdoor use. This manual provides detailed instructions to help you get the most out of your device.



Figure 1.1: BAOFENG F22 FRS Two-Way Radios in orange and green, emphasizing clear sound and long-range communication.

Your browser does not support the video tag.

Video 1.1: Overview of BAOFENG F22 walkie talkies, showcasing different colors and highlighting long-range and rechargeable features.

2. Safety Information

Please read and understand all safety precautions before using your BAOFENG F22 radio. Failure to do so may result in injury or damage to the device.

- **Battery Safety:** Use only recommended batteries (3x AA, not included) or compatible rechargeable battery packs. Do not mix old and new batteries. Do not dispose of batteries in fire.
- **Water Resistance:** The device is water resistant, but not waterproof. Avoid submersion in water. Ensure battery

compartment is securely closed to maintain water resistance.

- **Antenna:** Do not touch the antenna during transmission.
- **Hearing Protection:** Do not hold the radio too close to your ear when the volume is set high.
- **Flammable Environments:** Do not operate the radio in environments with flammable gases or explosives.

3. Product Overview

3.1 Components

The BAOFENG F22 package includes two walkie talkies. Familiarize yourself with the main components and controls:



Figure 3.1: Labeled diagram of the BAOFENG F22 radio components.

3.2 Key Features



Figure 3.2: Visual representation of the BAOFENG F22's key features.

- **22 FRS Channels:** Provides a wide range of communication options.
- **NOAA (National Oceanic and Atmospheric Administration) Weather Scan:**Access 12 NOAA weather channels for real-time weather alerts (USA only).
- **VOX (Voice Operated Exchange):** Allows hands-free communication.
- **Built-in LED Flashlight:** For illumination in low-light conditions.
- **Backlit LCD Display:** Ensures high visibility, especially at night.
- **Type-C USB Charging:** Convenient and modern charging interface.
- **Kenwood Headset Jack:** Compatible with 2-pin Kenwood headsets for private communication.



Figure 3.3: Detailed views of the radio's ports and features.

4. Setup

4.1 Battery Installation

The BAOFENG F22 radios require 3x AA batteries (not included) or a compatible rechargeable battery pack.

1. Locate the battery compartment on the back of the radio.
2. Press the battery release latch and slide the battery cover downwards to open.
3. Insert 3x AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Replace the battery cover by sliding it upwards until it clicks securely into place.



Figure 4.1: Steps for battery installation and belt clip attachment.

4.2 Attaching the Belt Clip

To attach the belt clip:

1. Align the belt clip with the grooves on the back of the radio.
2. Slide the belt clip upwards until it locks into place with an audible click.
3. To remove, press the belt clip lock tab and slide the clip downwards.

5. Operating Instructions

5.1 Power On/Off and Volume Adjustment

1. **Power On:** Press and hold the **Power/Call** button until the LCD screen illuminates.
2. **Power Off:** Press and hold the **Power/Call** button until the LCD screen turns off.
3. **Volume Adjustment:** Use the **UP** and **DOWN** arrow buttons to adjust the listening volume.

Your browser does not support the video tag.

Video 5.1: Demonstrates turning on the radio, adjusting volume, and navigating through 22 FRS channels.

5.2 Channel Selection

The BAOFENG F22 has 22 FRS channels.

1. Press the **MENU** button to enter channel selection mode.
2. Use the **UP** and **DOWN** arrow buttons to select your desired channel.
3. Press **MENU** again to confirm your selection.

5.3 Transmitting and Receiving

- **To Transmit:** Press and hold the **PTT (Push-To-Talk)** button on the side of the radio. Speak clearly into the microphone. Release the PTT button when finished speaking.
- **To Receive:** Ensure the PTT button is not pressed. The radio will automatically receive signals on the selected channel.

5.4 NOAA (National Oceanic and Atmospheric Administration) Weather Channels (USA Only)

The radio can access 12 NOAA weather channels to receive weather alerts.

1. Press the **MONI (Monitor)** button (cloud icon) to switch to NOAA weather channel mode.
2. Use the **UP** and **DOWN** arrow buttons to cycle through the 12 NOAA channels.
3. Press **MONI** again to exit NOAA mode.



Figure 5.1: NOAA Service feature for weather alerts.

5.5 Flashlight Function

The radio includes a built-in LED flashlight.

- Press the **Flashlight Emergency Button** on the side of the radio to turn the flashlight on/off.

5.6 VOX (Voice Operated Exchange)

VOX allows you to transmit without pressing the PTT button. The radio will automatically transmit when it detects your voice.

1. Press **MENU** repeatedly until "VOX" appears on the display.
2. Use the **UP** and **DOWN** arrow buttons to select the VOX sensitivity level (1-5, 5 being most sensitive) or "OF" to turn off.
3. Press **MENU** to confirm.

5.7 Sub-Codes (CTCSS/DCS)

Sub-codes help filter out unwanted conversations on a channel, ensuring privacy.

1. Press **MENU** repeatedly until "CTCSS" or "DCS" appears.
2. Use the **UP** and **DOWN** arrow buttons to select a sub-code.
3. Press **MENU** to confirm. Both radios must use the same channel and sub-code to communicate.

5.8 Call Tone

Send an audible alert to other radios on the same channel.

- Press the **CALL** button to send a call tone.

5.9 SOS Mode

Activates an emergency alert sound.

- Press and hold the **Flashlight Emergency Button** for a few seconds to activate SOS mode. Press again to deactivate.

5.10 Roger Beep

An audible tone indicating the end of your transmission.

1. Press **MENU** repeatedly until "BP" (Beep) appears.
2. Use the **UP** and **DOWN** arrow buttons to turn the Roger Beep "ON" or "OF".
3. Press **MENU** to confirm.

5.11 Dual Watch

Monitors two channels simultaneously.

1. Press **MENU** repeatedly until "DU" (Dual Watch) appears.
2. Use the **UP** and **DOWN** arrow buttons to turn Dual Watch "ON" or "OF".
3. Press **MENU** to confirm.

5.12 Range Information

The effective range of your walkie talkies can vary significantly based on terrain, weather conditions, and obstructions. Optimal range is achieved in open, unobstructed areas.



Figure 5.2: Typical communication range in different environments.

6. Maintenance

- **Cleaning:** Wipe the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Remove batteries if the radio will not be used for an extended period to prevent leakage.
- **Storage:** Store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- **Antenna:** Do not bend or modify the antenna.

7. Troubleshooting

Problem	Possible Cause	Solution
No Power	Batteries are dead or incorrectly installed.	Replace batteries or ensure correct polarity.
Cannot Transmit or Receive	Different channels or sub-codes; out of range.	Ensure both radios are on the same channel and sub-code. Move closer to the other radio.
Static or Poor Sound Quality	Weak signal; interference; low battery.	Move to an open area; check for obstructions; replace or recharge batteries.
Battery Drains Quickly	Constant transmission; old batteries; "ghost drain" (as reported by some users).	Reduce transmission time; use fresh or high-quality rechargeable batteries; remove batteries when not in use for extended periods.

8. Specifications

- **Model:** F22
- **Channels:** 22 FRS Channels
- **Frequency Range:** 462 MHz - 467 MHz
- **Talking Range (Maximum):** 3 Miles (varies by terrain)
- **Tuner Technology:** UHF
- **Power Source:** 3x AA Batteries (not included) / Compatible Rechargeable Battery Pack
- **Voltage:** 4.5 Volts
- **Water Resistance Level:** Water Resistant
- **Included Components:** 2 x Walkie Talkies
- **Compatible Devices:** FRS radios, Kenwood headsets
- **Item Weight:** Approximately 13.1 ounces (per radio)
- **Package Dimensions:** 8.54 x 7.01 x 2.13 inches

9. Warranty and Support

For warranty information and customer support, please refer to the contact details provided by BAOFENG at the point of purchase or visit the official BAOFENG website. Keep your purchase receipt as proof of purchase for warranty

claims.

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