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BAOFENG BF-T20

BAOFENG BF-T20 Two-Way Radio User Manual

Model: BF-T20

1. Introduction

The BAOFENG BF-T20 is a compact and reliable two-way radio designed for clear and efficient communication. This manual provides essential information for setting up, operating, and maintaining your BF-T20 radios to ensure optimal performance and longevity.

2. Package Contents

Before using your BAOFENG BF-T20 radios, please verify that all items are present in the package:

- 2 x BAOFENG BF-T20 Radios
- 2 x Mini USB Charging Cables
- 2 x 1500mAh Li-ion Batteries
- 1 x US Power Adapter
- 2 x Belt Clips
- 2 x Hand Straps
- 1 x English User Manual
- 2 x Acoustic Headsets



Image: The standard package includes two BF-T20 radios, two batteries, two USB cables, a US adapter, two belt clips, two hand straps, an English manual, and two acoustic headsets.

3. Product Overview

The BAOFENG BF-T20 features a compact and lightweight design with an integrated antenna for durability. It is equipped with essential controls for easy operation.

3.1 Components and Controls



Image: Diagram showing the labeled components of the BF-T20 radio, including the PTT key, + key, - key, loudspeaker, power/volume knob, indicator, microphone, and mic port.

1. **PTT Key:** Push-to-Talk button for transmitting your voice.
2. **+ Key:** Increases channel number or volume.
3. **- Key:** Decreases channel number or volume.
4. **Loudspeaker:** For receiving audio.
5. **Power/Volume Knob:** Turns the radio on/off and adjusts volume.
6. **Indicator:** LED light indicating status (e.g., transmitting, receiving, charging).
7. **Microphone:** For speaking into the radio.
8. **Mic Port:** Connection point for external acoustic headset.

4. Setup

4.1 Battery Installation

To install the battery:

1. Remove the battery cover from the back of the radio.
2. Align the 1500mAh Li-ion battery with the contacts inside the battery compartment.
3. Gently press the battery into place until it clicks securely.
4. Replace the battery cover.

4.2 Charging the Radio

The BF-T20 supports Mini USB charging, allowing you to recharge from various sources like a car charger, power bank, PC, or USB wall adapter.



Image: The BF-T20 radio can be charged via Mini USB from various sources including a wall adapter, power bank, or PC.

To charge:

1. Connect the Mini USB charging cable to the radio's charging port.
2. Connect the other end of the cable to a compatible USB power source (e.g., US adapter, PC, power bank).

3. The indicator light will show charging status (e.g., red for charging, green for fully charged).

Video: This video demonstrates the charging process for a similar BAOFENG walkie-talkie model, showing how to use the charging base and direct USB connection.

4.3 Attaching the Belt Clip

The durable belt clip allows for convenient carrying. To attach:

1. Align the belt clip with the designated slots on the back of the radio.
2. Slide the clip downwards until it locks securely into place.



Image: A hand demonstrating how to attach the durable belt clip to the back of the BF-T20 radio.

4.4 Connecting the Acoustic Headset

For hands-free communication, connect the acoustic headset to the 2-pin mic/speaker port on the side of the radio.

5. Basic Operation

5.1 Power On/Off

To power on or off the radio, long press the 'M' button located on the device.

5.2 Channel Selection

The BF-T20 offers 16 channels. To select a channel:

1. Short press the 'M' button until 'CH' appears on the display, indicating channel mode.
2. Use the '+' or '-' keys to navigate through the available channels.
3. Short press the 'M' button again to confirm your selection.

5.3 Volume Adjustment

To adjust the volume:

1. Short press the 'M' button until 'VL' appears on the display, indicating volume mode.
2. Use the '+' or '-' keys to increase or decrease the volume level.
3. Short press the 'M' button again to confirm your selection.

Video: This video demonstrates how to power on/off, select channels, and adjust volume using the 'M', '+' and '-' buttons on a similar mini walkie-talkie.

5.4 Transmitting and Receiving

To transmit, press and hold the PTT (Push-to-Talk) button while speaking clearly into the microphone. Release the PTT button to receive. The radio's indicator light will typically be red during transmission and green during reception.

5.5 VOX Hands-Free Mode

The BF-T20 supports VOX (Voice Operated Exchange) mode, allowing for hands-free transmission when using a compatible headset. Refer to the detailed specifications for VOX gain settings if programmable.

5.6 Flashlight Function

The radio includes a built-in flashlight for convenience in dark environments.



Image: The BF-T20 radio features a bright flashlight, providing convenience in low-light conditions.

6. Advanced Configuration

6.1 Automatic Frequency Calibration

To ensure compatibility and clear communication between different walkie-talkie models, you can perform an automatic frequency calibration:

1. Ensure both devices are powered on.
2. On the receiving radio, long press the menu button to enter channel selection.
3. Long press the scan key (often the 'M' button or a dedicated scan button) until 'F' appears on the screen, indicating frequency matching mode.
4. On the transmitting radio, long press the PTT (call) key to send a signal.
5. When the receiving radio displays 'F' and the green light shows, the frequency match is successful.
6. Press the menu button again on the receiving radio to exit frequency matching mode.

Video: This video illustrates the steps for automatic frequency calibration to enable communication between two different walkie-talkie

models.

6.2 Programming Software

For advanced users, programming software may be available to customize channel frequencies, VOX settings, and other parameters. This typically requires a programming cable (sold separately) and a computer.

Video: This video guides users on how to locate and install the programming software for BAOFENG radios from the official website.

7. Specifications

Model Number	BF-T20
Frequency Range	UHF 400-470MHz
Power Output	≤5W
Channel Capacity	16 Channels
Battery Capacity	Li-ion 1500mAh
Working Voltage	DC 3.7V
Mic/Speaker/Programming Port	2-pin plug type
Antenna	Integrated antenna
Antenna Impedance	50 Ohm
Weight (Include battery and antenna)	3.99oz (113g)
Dimensions (Not include antenna)	10.5 x 2.5 x 2 cm
Talking Range Maximum	3 Kilometers
Water Resistance Level	Not Water Resistant

8. Maintenance

To ensure the longevity and optimal performance of your BAOFENG BF-T20 radios, follow these maintenance guidelines:

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Avoid harsh chemicals or abrasive cleaners.
- **Storage:** Store the radios in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Battery Care:** Fully charge batteries before first use. Avoid overcharging or completely draining the battery to prolong its lifespan.
- **Antenna:** The integrated antenna is designed for durability. Avoid bending or applying excessive force to it.

9. Troubleshooting

If you encounter issues with your BAOFENG BF-T20 radios, refer to the following common troubleshooting steps:

- **No Power:** Ensure the battery is correctly installed and fully charged. Check if the power/volume knob is turned on.

- **Cannot Transmit or Receive:** Verify that both radios are on the same channel. Check if the battery level is sufficient. Ensure the PTT button is fully pressed when transmitting.
- **Poor Audio Quality:** Check the volume level. Ensure the microphone and speaker are not obstructed. Move closer to the other radio if range is an issue.
- **Short Range:** Obstructions like buildings, hills, or dense foliage can reduce range. Ensure you are within the maximum talking range.
- **Interference:** Move away from sources of electromagnetic interference (e.g., large electronic devices, power lines).

10. Warranty and Support

Your BAOFENG BF-T20 radios come with a **1-year warranty** provided exclusively through "Shiqun Electronics Co., Ltd". Please retain your proof of purchase for warranty claims.
For further assistance or technical support, please contact the seller or refer to the official BAOFENG website for additional resources and FAQs.

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