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BEEBEST 3 Pro

BEEBEST 3 Pro GMRS Radio Instruction Manual

Model: 3 Pro

1. Introduction

The BEEBEST 3 Pro GMRS Radio is a 5W handheld two-way radio designed for reliable communication in various environments. It features a 1.6-inch LCD, a 3000mAh battery, Bluetooth headset support, app programming, dual watch functionality, FM radio, and USB-C charging. This manual provides detailed instructions for setting up, operating, and maintaining your radio.

2. Product Overview and Controls

Familiarize yourself with the components and controls of your BEEBEST 3 Pro GMRS Radio.



Figure 2.1: Labeled diagram of the BEEBEST 3 Pro GMRS Radio components.



Figure 2.2: Close-up of the radio's top and side controls.

Key Components:

- **Antenna:** For transmitting and receiving signals.
- **Power/Volume Knob:** Turns the radio on/off and adjusts volume.
- **PTT Button (Push-to-Talk):** Press and hold to transmit, release to listen.
- **Display:** 1.6-inch LCD screen showing channel, frequency, and status.
- **Navigation Buttons (Left, Middle, Right, Up/Down):** Used for menu navigation and settings adjustment.
- **Speaker:** For audio output.
- **Headset Jack:** 3.5mm port for compatible headsets.
- **USB-C Charging Port:** For charging the radio.
- **Belt Clip:** For attaching the radio to clothing or gear.
- **Removable Battery:** Houses the 3000mAh lithium-ion battery.

3. Initial Setup

3.1 Battery Installation and Charging

The BEEBEST 3 Pro GMRS Radio comes with a 3000mAh removable lithium-ion battery. Ensure the battery is fully charged before first use.

1. To install the battery, align the battery pack with the compartment on the back of the radio and slide it into place until it clicks securely.
2. To charge, connect the provided USB-C cable to the radio's USB-C port and a standard 5V USB power source (e.g., wall adapter, power bank, car charger). The charging indicator on the display will show charging status.

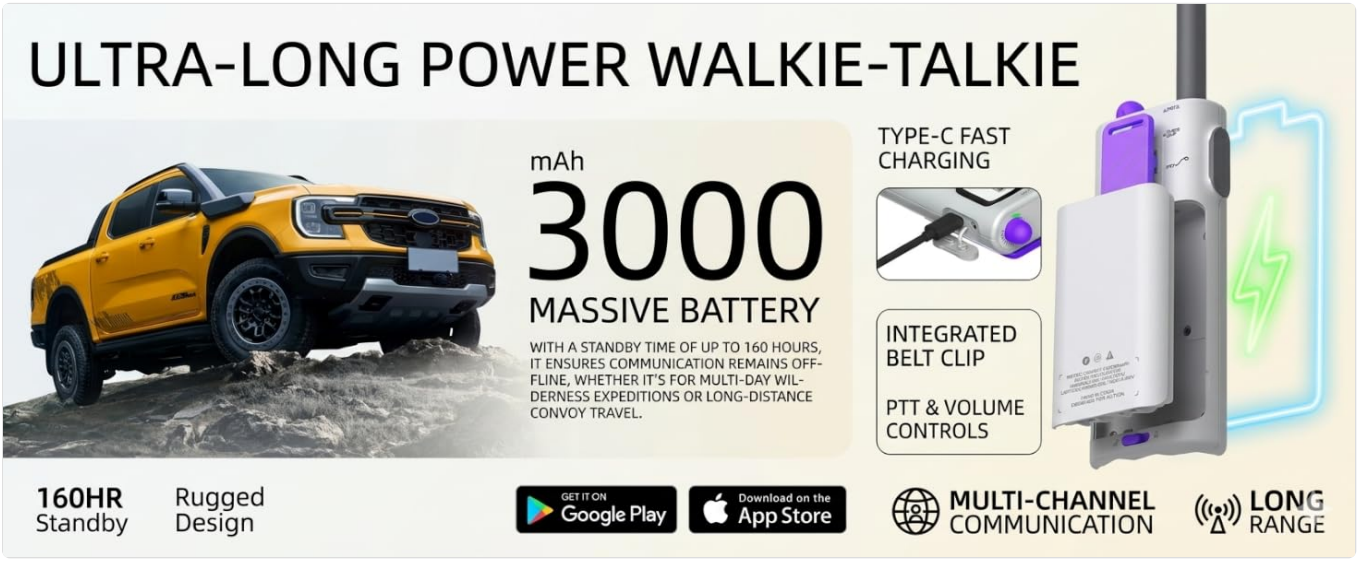

Figure 3.1: Illustration of the 3000mAh battery and USB-C charging port.

3.2 Powering On/Off and Channel Selection

1. To power on, rotate the Power/Volume knob clockwise until you hear a click and the display illuminates.
2. To power off, rotate the Power/Volume knob counter-clockwise until you hear a click and the display turns off.
3. The radio comes pre-loaded with 22 standard GMRS channels and 8 pre-configured repeater channels (30 total). Use the Up/Down buttons to select your desired channel.

4. Operating Instructions

4.1 Basic Communication

To communicate, ensure your radio is on the same channel as the other party. Press and hold the PTT button to speak, then release it to listen.

4.2 Dual Watch Function

The dual watch feature allows you to monitor two channels simultaneously. The 1.6-inch LCD screen will display both channels. If activity is detected on either channel, the radio will switch to that channel for communication.



Figure 4.1: Dual-watch monitoring on the 1.6-inch LCD screen.

4.3 VOX Hands-Free Communication

The Voice Operated Exchange (VOX) function allows you to transmit without pressing the PTT button. When VOX is enabled, the radio will automatically transmit when it detects your voice. Refer to the radio's menu for VOX activation and sensitivity settings.

4.4 FM Radio

The BEEBEST 3 Pro includes an FM radio function. Consult the radio's menu or quick start guide for instructions on how to access and tune FM radio stations.

4.5 Bluetooth Headset Support

The radio supports Bluetooth headsets for receiving audio. For transmitting, the PTT button on the radio itself is required.

5. App Bluetooth Programming

The BEEBEST 3 Pro GMRS Radio can be programmed wirelessly using the BEEBEST App, eliminating the need for a PC or programming cables.



Figure 5.1: Bluetooth Smart Sync for app-based programming.

Programming Steps:

1. **Step 1: Pair**
   Download the BEEBEST App from the App Store (iOS) or Google Play Store (Android). Turn on Bluetooth on your smartphone and within the app, add your BEEBEST 3 Pro device.
2. **Step 2: Program**
   Enter the control interface within the app. You can view or modify transmit/receive frequencies and select channel parameters. Sync these settings to the radio with a single tap.
3. **Step 3: Secure**
   Set sub-codes (Analog CTCSS or Digital DCS) for privacy. The radio supports 258 codes to help block unwanted interference. For teams, the app allows for batch configuration and remote frequency copy to sync multiple radios instantly.

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Video 5.1: BEEBEST 3 Pro Guide: Setup, GMRS/PMR446 channels & Bluetooth. This video demonstrates the setup process, GMRS/PMR446 channel configuration, and Bluetooth functionality.

6. Repeater Functionality

The BEEBEST 3 Pro GMRS Radio is repeater capable, featuring 8 pre-configured repeater channels in addition to the 22 standard GMRS channels. Connecting to local repeater stations can significantly extend your communication range, which is beneficial for emergency situations, disaster preparedness, or off-grid communication.



Figure 6.1: 5W High-Power GMRS signal penetration across various terrains.



Figure 6.2: Comparison of signal strength and coverage between 5W repeater-capable radio and standard walkie-talkies.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your radio.

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Avoid harsh chemicals or abrasive cleaners.
- **Battery Care:** Store the battery in a cool, dry place when not in use. Avoid fully discharging the battery frequently to prolong its lifespan.
- **Storage:** When storing the radio for extended periods, remove the battery and store both separately.
- **Water Resistance:** The radio has an IP54 waterproof rating, meaning it is protected from dust and splashing water. Do not submerge the radio in water.

8. Troubleshooting

If you encounter issues with your BEEBEST 3 Pro GMRS Radio, refer to the following common troubleshooting tips:

- **No Power:** Ensure the battery is properly installed and charged. Rotate the Power/Volume knob clockwise to turn on the radio.
- **Cannot Transmit or Receive:** Verify that both radios are on the same channel and privacy codes (CTCSS/DCS) are

correctly set. Check antenna connection.

- **Poor Audio Quality:** Adjust the volume. Ensure the speaker is not obstructed. Move closer to the other radio or try a different channel.
- **App Connection Issues:** Ensure Bluetooth is enabled on your smartphone and the radio. Restart both the app and the radio if connection fails.
- **Limited Range:** Ensure you are within the effective range. Obstacles like buildings, hills, and dense foliage can reduce range. Consider using repeater channels if available.

9. Specifications

Feature	Specification
Brand	BEEBEST
Model Number	3 Pro
Color	Mecha Gray
Number of Channels	30 (22 GMRS + 8 Repeater)
Frequency Range	462 MHz
Talking Range Maximum	3.5 kilometers
Power Output	5W
Battery Capacity	3000mAh Lithium Polymer
Battery Average Life	160 hours (standby)
Charging Port	USB-C
Display	1.6-inch LCD
Water Resistance Level	IP54 Waterproof
Connectivity Protocol	Bluetooth
Compatible Devices	Bluetooth Headset (receiving voice only)
Item Weight	120 g
Special Features	APP Programming, Dual Watch, Channel Scan, VOX Hands-Free, FM Radio, Repeater Capable

10. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or contact BEEBEST customer support. If you require technical assistance or have questions not covered in this manual, please reach out to the manufacturer's support channels.

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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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