AnyTone AT-5555N II

AnyTone AT-5555N II 10 Meter Radio User Manual

Model: AT-5555N II | Brand: AnyTone

1. Introduction and Overview

The AnyTone AT-5555N II is an upgraded 10-meter mobile radio designed for robust communication. It operates in the 28.000-29.700Mhz frequency range and features high power output for AM (60W PEP), FM (50W), and SSB (60W PEP) modes. This radio is equipped with advanced functions such as CTCSS/DCS codes, VOX, TX and RX Noise Reduction, and WX weather channel with alert capabilities. Its user-friendly design includes a large LCD for clear information display and flexible menu functions.

This manual provides detailed instructions for the setup, operation, and maintenance of your AnyTone AT-5555N II radio to ensure optimal performance and longevity.

2. Key Features

- **High Power Output:** AM 60W PEP, FM 50W, SSB 60W PEP.
- **CTCSS/DCS Code:** For enhanced privacy and selective calling.
- **VOX Function:** Voice-activated transmission for hands-free operation.
- **TX and RX Noise Reduction:** Improves audio clarity on both transmit and receive.
- **WX Weather Channel and Weather Alert:** Stay informed about weather conditions.
- **Large LCD Display:** Shows frequency and various operational information.
- **Multiple Modes:** FM, AM, USB, LSB, PA mode.
- **Frequency Tuning Steps:** 100Hz, 1KHz, 10KHz, 100KHz, 1MHz.
- **CLARLFILER Adjustment:** ±1.5KHz adjustment for fine-tuning.
- **ECHO Function:** Adds echo effect to transmitted audio.
- **PC Program Software:** Allows frequency programming via PC (downloadable from AnyTone website).
- **Power Supply Voltage Protection:** Safeguards the radio from voltage fluctuations.
- **Compatible with Electronic and Dynamic MIC types.**
- **40 Programmable Channels per band.**

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Video 2.1: Overview of AnyTone AT-5555N II 10 Meter Mobile Radio Features and Functions. This video highlights various operational capabilities and settings of the radio.

3. Product Components

The AnyTone AT-5555N II package includes the following items:

- AnyTone AT-5555N II 10 Meter Radio Unit
- Coiled Cord Microphone
- Mounting Bracket
- Power Cord
- Various small objects (screws, washers, etc. for mounting)
- Packaging Box

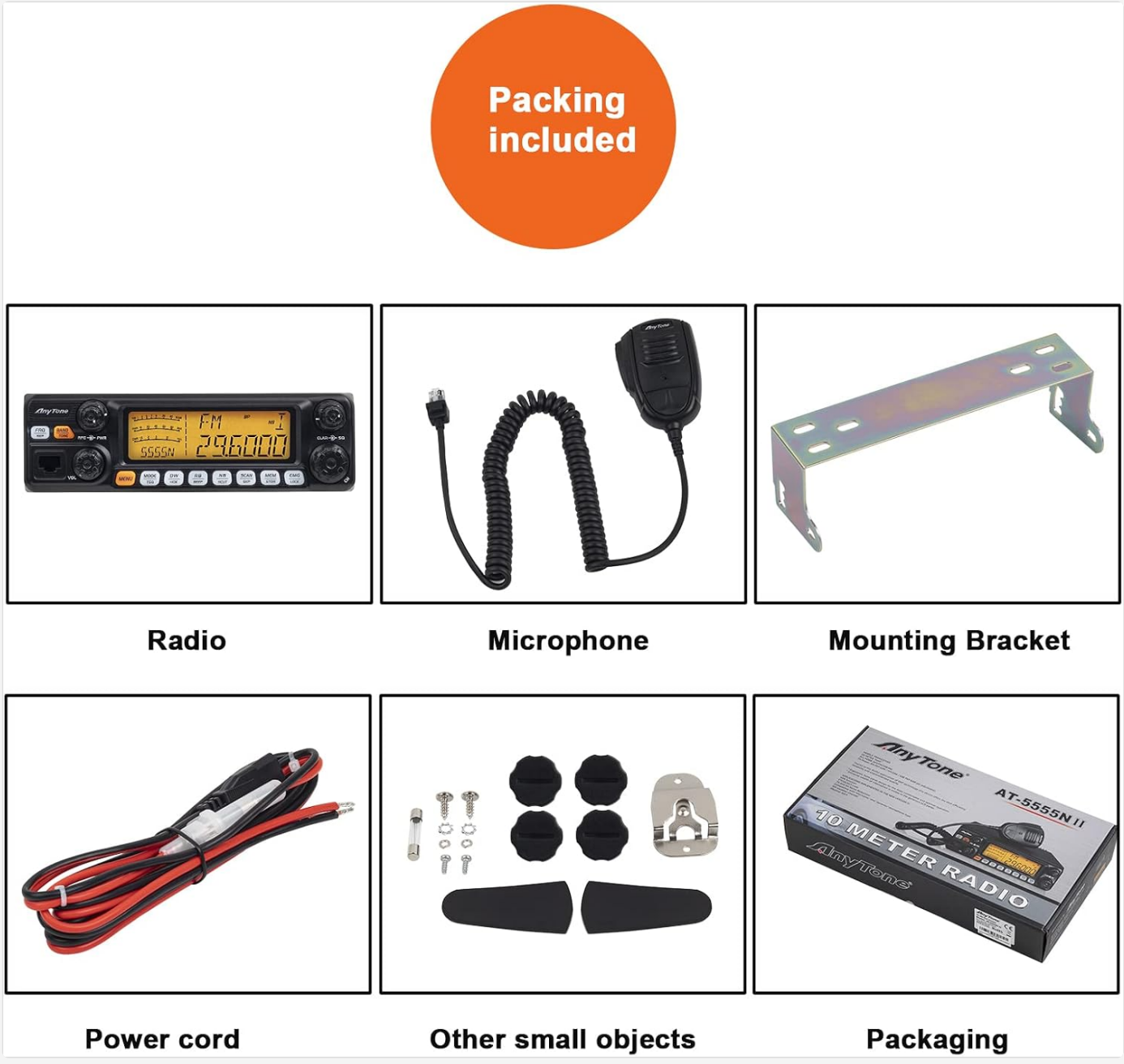


Figure 3.1: Contents included in the AnyTone AT-5555N II package. This image displays the main radio unit, microphone, mounting bracket, power cord, and other small accessories.

4. Setup and Installation

4.1 Front and Back Panel Overview

Familiarize yourself with the radio's front and back panels for proper connection and operation.

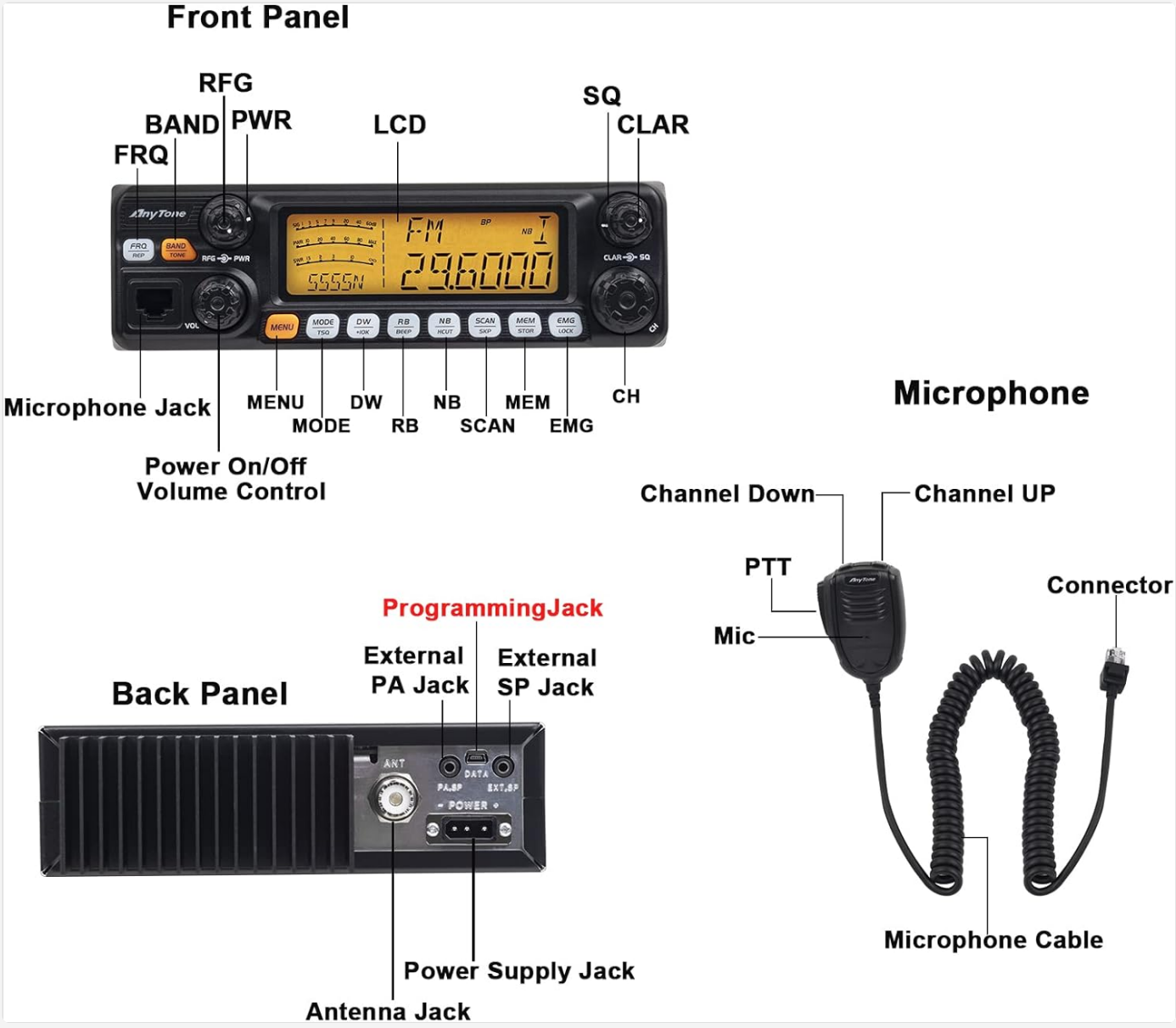


Figure 4.1: Detailed diagram showing the front panel controls (FRQ, BAND, RFG, PWR, LCD, SQ, CLAR, MENU, MODE, DW, NB, SCAN, MEM, EMG, CH, VOL) and back panel connections (Microphone Jack, Programming Jack, External PA Jack, External SP Jack, Antenna Jack, Power Supply Jack).

4.2 Dimensions

The radio unit measures approximately 250mm (L) x 200mm (W) x 60mm (H) [9.84 x 7.87 x 2.36 inches]. The microphone measures approximately 9cm (H) x 6cm (W) [3.5 x 2.4 inches]. Ensure adequate space for installation and ventilation.



Figure 4.2: Dimensional drawing of the AnyTone AT-5555N II radio and its microphone, indicating length, width, and height for installation planning.

4.3 Initial Setup

1. **Mounting:** Use the provided mounting bracket to securely install the radio in your desired location (e.g., vehicle dashboard, desk).
2. **Power Connection:** Connect the supplied power cord to the Power Supply Jack on the back panel. Ensure correct polarity (red to positive, black to negative) and connect to a stable 13.8V DC power source. The radio features power supply voltage protection.
3. **Antenna Connection:** Connect a suitable 10-meter antenna to the Antenna Jack. Proper antenna tuning is crucial for optimal performance and to prevent damage to the radio.
4. **Microphone Connection:** Plug the coiled cord microphone into the Microphone Jack on the front panel.
5. **External Speaker/PA (Optional):** If desired, connect an external speaker to the External SP Jack or a PA system to the External PA Jack.

5. Operating Instructions

5.1 Basic Operation

1. **Power On/Off and Volume:** Turn the VOL knob clockwise to power on the radio and adjust the volume.

2. **Frequency Selection:** Use the main tuning knob or FRQ/BAND buttons to select your desired operating frequency. The large LCD will display the current frequency.
3. **Mode Selection:** Press the MODE button to cycle through available modes: FM, AM, USB, LSB, PA.
4. **Squelch (SQ):** Adjust the SQ knob to eliminate background noise when no signal is present.
5. **Transmit:** Press and hold the PTT (Push-To-Talk) button on the microphone to transmit. Release to receive.

5.2 Advanced Functions

- **CTCSS/DCS:** Access the menu to set CTCSS (Continuous Tone-Coded Squelch System) or DCS (Digital Coded Squelch) codes for private group communication.
- **VOX:** Enable the VOX function in the menu for voice-activated transmission. Adjust VOX sensitivity as needed.
- **Noise Reduction (NB/ANL):** Use the NB (Noise Blanker) and ANL (Automatic Noise Limiter) functions to reduce impulse noise and static.
- **Scan Function:** Press the SCAN button to initiate frequency scanning.
- **Memory Channels:** Store frequently used frequencies into memory channels using the MEM button. The radio supports 6 groups of memory channels.
- **ECHO Function:** Activate the ECHO function via the menu for a reverberation effect on your transmitted audio.
- **PC Programming:** For advanced frequency management and customization, connect the radio to a PC via the Programming Jack and use the dedicated software available on the AnyTone website.

6. Maintenance

To ensure the longevity and optimal performance of your AnyTone AT-5555N II radio, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the radio's exterior with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Connections:** Periodically check all cable connections (power, antenna, microphone) to ensure they are secure and free from corrosion.
- **Ventilation:** Ensure the radio's heat sinks and ventilation slots are clear of dust and obstructions to prevent overheating.
- **Storage:** When not in use for extended periods, store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- **Antenna SWR:** Regularly check your antenna's SWR (Standing Wave Ratio) to ensure it is within acceptable limits. High SWR can damage the radio's final amplifier.

7. Troubleshooting

This section provides solutions to common issues you might encounter with your AnyTone AT-5555N II radio. If the problem persists, please contact customer support.

Problem	Possible Cause	Solution
Radio does not power on.	No power supply; incorrect wiring; blown fuse.	Check power cable connection and polarity; inspect power source; check and replace fuse if necessary.

Problem	Possible Cause	Solution
No audio from speaker.	Volume too low; squelch set too high; external speaker not connected properly.	Increase volume; lower squelch level; check external speaker connection.
Cannot transmit or low transmit power.	Antenna not connected; high SWR; microphone issue; incorrect mode.	Ensure antenna is connected; check SWR; verify microphone connection; select appropriate mode (FM/AM/SSB).
Poor receive audio / excessive noise.	Squelch too low; strong interference; noise reduction not enabled.	Increase squelch; enable NB/ANL functions; check antenna for interference sources.

8. Specifications

Specification	Value
Model Number	AT-5555N II
Frequency Range	28.000-29.700Mhz (Default, Programmable)
Power Output (PEP)	AM 60W, FM 50W, SSB 60W
Number of Channels	40 channels (programmable) in each band
Display Type	LCD
Product Dimensions (L x W x H)	250mm x 200mm x 60mm (9.84 x 7.87 x 2.36 inches)
Item Weight	1.75kg (4.4 pounds)
Voltage	13.8 Volts
Special Features	Power Supply Voltage Protection, CTCSS/DCS Code, VOX Function
Talking Range Maximum	50 Kilometers (approx. 31 miles)
Tuner Technology	UHF
Water Resistance Level	Not Water Resistant

9. Warranty and Support

AnyTone provides customer support for their products. If you have any questions or require assistance with your AnyTone AT-5555N II radio, please contact the seller directly. They are committed to providing prompt replies and support for product-related queries.
For further information or to download PC programming software, please visit the official AnyTone website.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

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

Details

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

Submit question