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› AnyTone AT-588Max VHF Mobile Ham Radio Instruction Manual

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1. PRODUCT OVERVIEW

The AnyTone AT-588Max is a professional mobile ham radio designed for reliable communication in various environments. It features a powerful 70W VHF output, 510 programmable channels, and advanced AI noise cancelling technology for clear audio transmission and reception. Its robust design and wireless PTT functionality make it suitable for use in cars, trucks, off-road vehicles, and emergency situations.

AnyTone® AT-588MAX



Figure 1.1: Front view of the AnyTone AT-588Max Mobile Ham Radio with attached microphone.

2. WHAT'S IN THE BOX

Verify that all items listed below are included in your package:

- AT-588MAX VHF Mobile Radio
- Microphone
- DC Power Cable with Fuse Holder
- BT Wireless PTT
- User Manual

AT-588MAX

Complete Package Contents Include:



Microphone



DC Power Cable with Fuse Holder



Hardware Kit for Bracket



BT wireless PTT



AT-588MAX Transceiver



Mobile Mounting Bracket

Figure 2.1: All components included in the AnyTone AT-588Max package.

3. SETUP AND INSTALLATION

3.1 Power Connection

Connect the supplied DC Power Cable with Fuse Holder to the radio's power input. Ensure correct polarity (red to positive, black to negative) and connect to a stable 13.8V power source. The fuse holder provides protection against overcurrent.

3.2 Antenna Connection

Attach a suitable VHF antenna to the SO-239 connector on the rear of the radio. Ensure the antenna is properly tuned for the operating frequency range (144-148MHz) to prevent damage to the transceiver.



Figure 3.1: Side view of the radio highlighting the antenna connector.

3.3 Microphone and Wireless PTT

Connect the microphone to the front panel RJ45 port. The included BT Wireless PTT can be paired for hands-free operation. Refer to the pairing instructions in the full user manual for detailed steps.

3.4 Mounting

Use the provided mobile mounting bracket and hardware kit to securely install the radio in your vehicle or at a base station. Ensure adequate ventilation around the heat sink and fan for optimal performance.



Figure 3.2: Example of the AnyTone AT-588Max installed in a vehicle.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off and Volume

Press the PWR button to turn the radio on or off. Rotate the VOL knob to adjust the audio output level.

4.2 Channel and Frequency Selection

Use the large rotary knob on the left to select channels or adjust frequency. The V/M button switches between VFO (Frequency Mode) and Memory Mode. The MHz button allows for larger frequency steps.

4.3 AI Noise Cancelling

The AT-588Max features AI-powered noise cancellation for both transmit (TX) and receive (RX) paths. This function helps to maintain clear communication even in noisy environments. The noise reduction level can be adjusted through the radio's menu settings.

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Video 4.1: Demonstration of the AM function on the AT-588Max.

4.4 Wireless PTT Operation

The included BT Wireless PTT allows for convenient hands-free communication. Ensure the PTT is paired with the radio. Press the PTT button to transmit and release to receive.

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Video 4.2: Overview of Bluetooth PTT, Earpiece, and Microphone accessories.

5. FEATURES

5.1 High Power Output (70W)

The AT-588Max delivers a robust 70W output on VHF, ensuring extended communication range and strong signal penetration, even in challenging terrain or dense foliage.



Figure 5.1: Visual representation of the radio's 70W high power output and 510 channels.

5.2 510 Programmable Channels

With 510 customizable channels, the radio offers extensive flexibility for various communication needs, from personal use to team coordination and emergency services.

5.3 Air Band (AM) Reception

The radio supports Air Band (AM) reception, allowing users to monitor aviation communications for enhanced situational awareness.

5.4 Efficient Cooling System & LCD Display

An integrated fan and heat sink ensure the radio remains cool during prolonged operation. The large LCD screen features 32 adjustable brightness levels for clear visibility in any lighting condition.



Figure 5.2: The radio's efficient cooling fan and large, bright LCD display.

6. SPECIFICATIONS

| Specification | Value |
|------------------------|--|
| Item Weight | 2.21 pounds (35.3 Ounces) |
| Product Dimensions | 5.5 x 7.4 x 1.61 inches |
| Model Number | AT-588 |
| Brand | AnyTone |
| Color | Black |
| Number of Channels | 510 |
| Special Feature | Digital Display, Long Range, Noise Reduction |
| Frequency Range | Amateur Radio Operation: 144–148MHz |
| Talking Range Maximum | 60 Mile |
| Voltage | 13.8 Volts |
| Water Resistance Level | Not Water Resistant |

7. MAINTENANCE

Regularly inspect all cables and connectors for wear or damage. Keep the radio clean and free from dust and moisture. Ensure the cooling fan is unobstructed to prevent overheating.

8. TROUBLESHOOTING

8.1 No Power

- Check power cable connections and fuse.
- Verify power source voltage (13.8V).

8.2 Poor Audio Quality

- Adjust squelch level.
- Ensure AI Noise Cancelling is properly configured.
- Check microphone connection.

8.3 Limited Range

- Verify antenna connection and tuning.
- Check power output setting (ensure it's set to 70W for maximum range).
- Ensure clear line-of-sight to other stations or repeaters.

9. WARRANTY & SUPPORT

The AnyTone AT-588Max comes with an 18-Month Warranty. For technical support, programming software, or warranty claims, please contact AnyTone customer service through their official channels. The programming cable is not included and must be purchased separately.

