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- › [Motorola](#) /
- › [Motorola CP185 UHF Handheld Two-Way Radio Transceiver User Manual](#)

## Motorola AAH03RDF8AA7AN

# Motorola CP185 UHF Handheld Two-Way Radio Transceiver User Manual

Model: AAH03RDF8AA7AN

## INTRODUCTION

The Motorola CP185 UHF Handheld Two-Way Radio Transceiver is designed for reliable and clear communication in demanding professional environments. This robust device features built-in voice scrambling, VOX capability, programmable buttons, and X-Pand Technology to ensure strong audio quality. This manual provides essential information for the proper setup, operation, and maintenance of your CP185 radio.



Figure 1: Motorola CP185 UHF Handheld Two-Way Radio Transceiver. This image shows the front view of the black radio with its antenna, channel knob, volume knob, display showing 'CH 001', and three programmable buttons labeled P1, P2, P3.

## SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of fire, electric shock, or injury:

- Do not operate the radio in explosive atmospheres (e.g., flammable gases, dust particles, metallic powders).
- Use only Motorola-approved batteries and chargers.
- Do not disassemble or modify the radio. Servicing should be performed by qualified personnel only.
- Avoid exposing the radio to extreme temperatures or direct sunlight for extended periods.
- Keep the radio away from medical devices that may be affected by RF energy.

## SETUP

### 1. Battery Installation and Charging

The CP185 radio uses a Lithium Ion battery. Ensure the battery is fully charged before first use.

1. Align the battery with the grooves on the back of the radio.
2. Slide the battery upwards until it clicks into place.
3. To charge, place the radio in the approved Motorola charger. The charging indicator will show the charging status.

### 2. Antenna Attachment

Screw the antenna clockwise into the connector on top of the radio until it is finger-tight. Do not overtighten.

### 3. Radio Programming

The CP185 radio requires programming for channel frequencies. The first 16 channels can be programmed free of charge by the seller. If a specific frequency list is not provided, 16 random frequencies will be programmed. Contact your vendor for programming needs.

## OPERATING INSTRUCTIONS

### 1. Power On/Off and Volume Control

Rotate the On/Off/Volume knob (located on top of the radio) clockwise to turn the radio on and increase the volume. Rotate counter-clockwise to decrease volume and turn off.

### 2. Channel Selection

Rotate the Channel Selector knob (located on top of the radio, next to the volume knob) to select one of the 16 available channels. The selected channel number will be displayed on the screen.

### 3. Transmitting and Receiving (Push-to-Talk - PTT)

To transmit, press and hold the PTT button on the side of the radio. Speak clearly into the microphone. Release the PTT button to receive. The radio is VOX capable for hands-free communication, allowing transmission when voice is detected.

### 4. Programmable Buttons

The CP185 features 5 programmable buttons (P1, P2, P3 on the front, and two on the side) that can be configured for one-touch access to various functions such as voice scrambling, adjustable power levels (high/low), repeater/talkaround capability, and more. Refer to your specific radio's programming for

assigned functions.

## 5. Voice Announcement and Channel Alias

The radio provides voice announcements for battery level and current channel when powered on or when the channel is changed. This feature allows users to know the operational status without looking at the display. Additionally, channels can be assigned custom names (aliases) for easier identification, such as 'Security' or 'Stockroom'.

Video 1: Motorola Solutions - RM Series Business Radios. This video demonstrates features like voice announcement for battery level and channel, and channel alias for easy identification of communication groups (e.g., 'Security', 'Stockroom', 'Office'). It highlights how these features enhance communication efficiency in various business settings.

## 6. NOAA Weather Alert

For models equipped with a channel selector knob, the NOAA Weather Alert feature allows you to monitor weather channels and receive automatic notifications for unexpected weather conditions. This helps ensure safety and preparedness in outdoor or critical work environments.

## MAINTENANCE

### 1. Cleaning

Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure all ports are closed to prevent moisture ingress.

### 2. Battery Care

To maximize battery life, avoid overcharging and fully discharging the battery. Store the battery in a cool, dry place when not in use. Replace batteries that show signs of damage or reduced performance.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery	Charge or replace the battery.
Cannot transmit or receive	Incorrect channel/frequency; Out of range; Antenna not properly attached	Verify channel selection; Move closer to other radios or repeater; Re-attach antenna securely.
Poor audio quality	Low battery; Obstructions; Interference	Charge battery; Move to an open area; Check for sources of interference.

## SPECIFICATIONS

- **Brand:** Motorola
- **Model Number:** AAH03RDF8AA7AN
- **Frequency Range:** 435-480 MHz (UHF)
- **Number of Channels:** 16
- **Power Output:** 4 Watts (UHF)
- **Dimensions:** 1.5"D x 2.3"W x 4.7"H

- **Item Weight:** 12 ounces
- **Battery:** 1 Lithium Ion battery required
- **Special Features:** Adjustable power, Lightweight, UHF, Voice Scrambling, VOX, Programmable Buttons, X-Pand Technology, Repeater Capability, Talkaround Capability, NOAA Weather Alert (on models with channel selector knob)
- **Military Standards:** Meets Military 810 C, D, E and F standards

## WARRANTY AND SUPPORT

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This Motorola CP185 UHF Handheld Two-Way Radio Transceiver comes with a **2-Year Manufacturer Warranty**. For warranty claims, technical support, or programming assistance, please contact your authorized Motorola dealer or the seller directly. Ensure to provide your model number (AAH03RDF8AA7AN) for efficient service.