

Motorola AAH84RCS8AA1AN

Motorola Mag One BPR40 Two-Way Radio User Manual

Model: AAH84RCS8AA1AN | Brand: Motorola

1. PRODUCT OVERVIEW

The Motorola Mag One BPR40 is a 4-watt, 8-channel UHF two-way radio designed for reliable and intuitive communication. This portable device offers a high-low power option to conserve battery life and includes features such as nuisance channel delete and repeater talkaround for versatile performance. It is part of the Mag One by Motorola radio portfolio, providing quality and value suitable for business use.

Key Features:

- Up to 10 Hours of Battery Life per Charge
- Programmable for compatibility with other UHF Two Way Radios on the same frequencies and codes
- Built to Motorola's Durability Standards
- Water Resistant design
- 8 channels and 2 programmable buttons
- High-low power option for battery conservation
- Nuisance channel delete and repeater talkaround
- Squelch levels to minimize interference
- Tricolor LED for status indication
- Large, textured Push-to-Talk button for ease of use
- Single Priority Scan for monitoring higher priority channels
- Large Rotary Channel Selector for easy channel changes
- On/Off and Volume Control for quick adjustments
- Adjustable Power Level to optimize range and battery life
- Rugged, Die-Cast Chassis with Polycarbonate housing for protection



Figure 1: Motorola Mag One BPR40 Two-Way Radio

2. SETUP

2.1 Battery Installation and Charging

The BPR40 radio requires one Lithium Ion battery. Ensure the battery is correctly inserted into the radio. For initial use, fully charge the battery using the provided charging station. A red light on the charging station typically indicates charging, and it will change color or turn off when fully charged.

Video 1: Demonstrates the Motorola BPR40 radio and its charging process. The video highlights the radio's clear sound and long-lasting battery, showing it being placed into its charging dock.

Video 2: Shows the Motorola BPR40 radio being used and charged. The video emphasizes the radio's clear audio quality and ease of use, including placing it on its charging base.

2.2 Antenna Attachment

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

2.3 Power On/Off

To power on the radio, rotate the On/Off/Volume Control knob clockwise until you hear a click. To power off, rotate it counter-clockwise until it clicks.

3. OPERATING INSTRUCTIONS

3.1 Volume Control

Adjust the volume by rotating the On/Off/Volume Control knob. Turn clockwise to increase volume and counter-clockwise to decrease it.

3.2 Channel Selection

Use the Large Rotary Channel Selector knob on the top of the radio to choose one of the 8 available channels. Ensure all radios communicating are set to the same channel.

3.3 Push-to-Talk (PTT) Button

To transmit, press and hold the large, textured PTT button located on the side of the radio. Speak clearly into the microphone. Release the button to listen.

3.4 Programmable Buttons

The radio features two programmable buttons (P1 and P2) that can be customized for various functions such as high-low power selection, nuisance channel delete, or repeater talkaround. Refer to the full manual for programming details.

3.5 Status Indicator (Tricolor LED)

The Tricolor LED provides visual feedback on the radio's status, including battery level, transmission, and reception.

4. MAINTENANCE

4.1 Battery Care

To maximize battery life, fully charge the Lithium Ion battery before first use. Avoid overcharging or completely draining the battery frequently. Store the radio and battery in a cool, dry place when not in use.

4.2 Cleaning

Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the radio is dry before use or charging.

4.3 Water Resistance

The Motorola Mag One BPR40 is water resistant. However, it is not waterproof. Avoid submerging the radio in water or exposing it to heavy rain for extended periods.

5. TROUBLESHOOTING

- **No Power:** Ensure the battery is fully charged and correctly installed. Check that the On/Off knob is turned clockwise.
- **No Reception/Transmission:** Verify that all radios are on the same channel. Check the antenna connection. Ensure you are within range. Adjust squelch levels if experiencing interference.

- **Poor Audio Quality:** Check the volume level. Ensure the microphone and speaker are not obstructed. Move closer to the transmitting radio if range is an issue.
- **Interference:** Try changing to a different channel. Utilize the nuisance channel delete feature if available.

6. SPECIFICATIONS

Feature	Detail
Product Dimensions	1.46 x 2.28 x 4.21 inches (2"D x 4"W x 5"H)
Item Weight	1.85 pounds
Item Model Number	AAH84RCS8AA1AN
Batteries	1 Lithium Ion battery required
Special Features	Portable, UHF, Water Resistant
Color	Black
Manufacturer	Motorola
Number of Channels	16
Frequency Range	450 - 470 MHz
Talking Range Maximum	0.5 Mile
Voltage	3.7 Volts
Water Resistance Level	Water Resistant

7. WARRANTY INFORMATION

This product comes with a One Year Factory Warranty. For detailed terms and conditions, please refer to the warranty card included with your product or contact Motorola customer support.