

Empire BNH-4495

Empire 2-Way Radio Battery User Manual

Model: BNH-4495

INTRODUCTION

Thank you for choosing the Empire 2-Way Radio Battery. This high-capacity Ni-MH battery is designed to provide reliable power for your compatible Motorola 2-way radios, including the EP450, CP150, and CP200 models, and is a compatible replacement for the Motorola NNTN4851 battery. This manual provides essential information for the safe and effective use, installation, and maintenance of your new battery.

SAFETY INFORMATION

Please read and understand all safety precautions before using this battery. Failure to follow these instructions may result in fire, electric shock, injury, or damage to the battery or radio.

- **Do not** short-circuit the battery terminals.
- **Do not** expose the battery to extreme temperatures (above 60°C / 140°F or below -10°C / 14°F), direct sunlight, or fire.
- **Do not** disassemble, crush, puncture, or modify the battery.
- **Do not** immerse the battery in water or other liquids.
- Keep the battery away from children.
- Dispose of used batteries properly according to local regulations. Do not dispose of in household waste.
- Use only chargers specified for Ni-MH batteries.

SETUP

Initial Charge

For optimal performance, it is recommended to fully charge the battery before its first use. A new battery may not be fully charged out of the box. Refer to your radio's or charger's manual for specific charging instructions.

Battery Installation

To install the Empire 2-Way Radio Battery into your compatible Motorola radio:

1. Ensure the radio is turned off.
2. Align the battery with the battery compartment on the back of the radio.
3. Slide the battery into place until it clicks securely. Ensure the battery latch engages properly.
4. To remove, disengage the battery latch and slide the battery out.



Image: Rear view of the Empire 2-Way Radio Battery. The image displays the three gold contact points at the top, which connect to the radio. Below the contacts is a label with the 'EMPIRE' logo, part number 'BNH-4495', and specifications including 'FOR MOTOROLA CP150/200', '7.5V / 1650mAh', 'NI-MH BATTERY', and 'MADE IN CHINA JAPAN CELLS'.

Warning and important disposal symbols are also visible.

OPERATING INSTRUCTIONS

Charging the Battery

Always use a charger compatible with Ni-MH batteries. Overcharging or using an incompatible charger can damage the battery and pose a safety risk. The charging time will vary depending on the charger and the battery's discharge level.

Battery Life and Performance

The actual operating time of the battery depends on the radio's power consumption, transmission frequency, and environmental conditions. To maximize battery life:

- Avoid frequent partial discharges; occasional full discharge and recharge cycles can help maintain battery capacity.
- Do not leave the battery on the charger indefinitely after it is fully charged, unless the charger is specifically designed for trickle charging.

MAINTENANCE

Proper care and maintenance will extend the life of your Empire 2-Way Radio Battery.

- **Cleaning:** Periodically clean the battery contacts with a clean, dry cloth to ensure good connection with the radio and charger.
- **Storage:** If storing the battery for an extended period, store it in a cool, dry place (ideally between 10°C and 25°C / 50°F and 77°F) with approximately 50% charge. Avoid storing fully charged or fully discharged batteries for long periods.
- **Temperature:** Do not expose the battery to extreme heat or cold, as this can degrade performance and shorten its lifespan.

TROUBLESHOOTING

If you experience issues with your battery, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Battery not charging	Dirty contacts, faulty charger, battery fully discharged	Clean battery and charger contacts. Try a different charger. Allow battery to charge for a longer period.
Short operating time	Battery not fully charged, battery nearing end of life, high power consumption by radio	Ensure full charge. Consider replacing battery if it's old. Reduce radio's power output if possible.
Battery not fitting radio	Incorrect model, improper alignment	Verify battery compatibility with your radio model. Re-align and ensure proper insertion.

SPECIFICATIONS

- **Brand:** Empire
- **Model:** BNH-4495
- **Battery Type:** Nickel-Metal Hydride (Ni-MH)
- **Voltage:** 7.5V
- **Capacity:** 1650 mAh
- **Compatibility:** Motorola EP450, CP150, CP200 2-Way Radios; Compatible with Motorola NNTN4851 Battery
- **Manufacturing:** Made in China with Japan Cells

WARRANTY INFORMATION

This Empire 2-Way Radio Battery is covered by a manufacturer's warranty. Please refer to the warranty information provided at the time of purchase or contact Empire customer support for details regarding warranty terms and conditions.

CUSTOMER SUPPORT

For further assistance, technical support, or warranty claims, please contact the retailer where you purchased the battery or visit the official Empire website for contact information.

