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› HQRP Rechargeable Ni-MH Battery Instruction Manual for Cobra PR Series Radios

HQRP PR350-WX, vPR550-WX, PR560-WX, PR590, PR650-WX, PR900-DX, PR945-DX (Compatible Models)

HQRP Rechargeable Ni-MH Battery Instruction Manual

For Cobra PR350-WX, vPR550-WX, PR560-WX, PR590, PR650-WX, PR900-DX, PR945-DX Two-Way Radios

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your HQRP rechargeable Ni-MH batteries. These batteries are designed as a replacement power source for various Cobra two-way radio models, ensuring reliable communication.

Product Compatibility:

- Cobra PR350-WX
- Cobra vPR550-WX
- Cobra PR560-WX
- Cobra PR590
- Cobra PR650-WX
- Cobra PR900-DX
- Cobra PR945-DX

Please note: This is an HQRP branded replacement product and is not an Original Equipment Manufacturer (OEM) product. All brand names and logos mentioned are registered trademarks of their respective owners and are used solely for demonstrating compatibility.

2. SETUP AND INSTALLATION

Follow these steps to properly install your new HQRP Ni-MH battery pack into your compatible Cobra two-way radio.

1. **Unpack the Batteries:** Carefully remove the batteries from their packaging.
2. **Locate Battery Compartment:** Refer to your Cobra radio's original manual to locate and open the battery compartment. This is typically on the back of the radio.
3. **Remove Old Batteries (if applicable):** If replacing existing batteries, remove them and dispose of

them according to local regulations.

4. **Insert New Batteries:** Insert the HQRP Ni-MH battery pack into the compartment, ensuring the contacts align correctly with the radio's terminals. The battery pack is designed to fit in one orientation. Do not force it.
5. **Close Compartment:** Securely close the battery compartment cover.
6. **Initial Charge:** For optimal performance, fully charge the battery pack before its first use. Refer to the 'Operating' section for charging instructions.



Image 1: Front view of the HQRP Ni-MH battery pack, displaying its label with voltage, capacity, and safety warnings.

3. OPERATING

Once installed, your HQRP Ni-MH battery pack operates like the original battery. Proper charging is crucial for battery longevity and performance.

3.1 Charging the Batteries

Always use the charger provided with your Cobra two-way radio or a compatible charger designed for Ni-

MH batteries. Do not use chargers intended for other battery chemistries (e.g., Ni-Cd, Li-ion).

1. **Connect Charger:** Plug your radio's charger into a power outlet.
2. **Place Radio in Charger:** Place the radio with the installed HQRP battery pack into the charging cradle or connect the charging cable to the radio. Ensure a secure connection.
3. **Monitor Charging Indicator:** Observe the charging indicator light on your radio or charger. This light typically changes color or turns off when charging is complete. Refer to your radio's manual for specific indicator behavior.
4. **Full Charge:** Allow the batteries to charge fully. Overcharging Ni-MH batteries for extended periods (days) can reduce their lifespan, though modern chargers often have overcharge protection.

3.2 General Usage

The battery pack provides power to your radio. When the radio indicates low battery, recharge the pack promptly to avoid deep discharge, which can shorten battery life.



Image 2: Top-down view of the HQRP Ni-MH battery pack, highlighting the electrical contacts for proper connection.

4. MAINTENANCE

Proper maintenance extends the life and performance of your HQRP Ni-MH batteries.

- **Regular Charging:** Recharge batteries when they are low, but avoid frequent partial charges if possible. Ni-MH batteries benefit from occasional full discharge/recharge cycles to prevent memory effect, though it is less pronounced than in Ni-Cd batteries.
- **Storage:** If storing the batteries for an extended period, charge them to about 50-70% capacity and store them in a cool, dry place. Avoid extreme temperatures.
- **Cleaning Contacts:** Periodically clean the battery contacts on both the battery pack and the radio with a clean, dry cloth to ensure good electrical connection.
- **Avoid Physical Damage:** Do not drop, crush, or puncture the battery pack. Physical damage can lead to internal short circuits or leakage.

5. SAFETY INFORMATION

Adhere to the following safety guidelines to prevent injury or damage to the battery and radio.

- **Do not attempt to open or disassemble the battery pack.** This can expose internal components and lead to electric shock or chemical burns.
- **Do not crush, puncture, or short external contacts.** Short-circuiting can cause overheating, fire, or explosion.
- **Do not dispose of in fire or water.** Batteries can explode or leak harmful substances when exposed to fire or water.
- **Do not expose to temperatures above 60°C (140°F).** High temperatures can damage the battery and pose a risk of fire or explosion.
- **Replace only with the battery pack designed for this product.** Using incompatible batteries may result in damage to the radio or personal injury.
- **Keep out of reach of children.**
- **Recycle responsibly.** Dispose of used batteries according to local regulations.

WARNING for California residents pursuant to CA Proposition 65: This product may expose you to chemicals known to the State of California to cause: WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

6. TROUBLESHOOTING

If you encounter issues with your HQRP Ni-MH battery pack, consider the following common solutions:

- **Battery not charging:**
 - Ensure the battery pack is correctly seated in the radio and the radio is properly placed in the charger.
 - Verify that the charger is plugged into a working power outlet.
 - Clean the battery and charger contacts with a dry cloth.
- **Short operating time after full charge:**
 - The battery may not be fully charged. Ensure it charges until the indicator shows completion.
 - If the battery is old, its capacity may have degraded over time. Consider replacing it.
 - Ensure the radio is not operating in a high-power consumption mode unnecessarily.
- **Radio not powering on:**
 - Check if the battery is installed correctly and fully charged.

- Ensure the radio's power button is functioning.

If problems persist after attempting these solutions, consult the original Cobra radio manual or contact HQRP customer support.

7. SPECIFICATIONS

Feature	Detail
Brand	HQRP
Battery Cell Composition	NiMH
Battery Capacity	700 Milliampere Hour (mAh)
Voltage	4.8 Volts
Reusability	Rechargeable
HQRP Model Number	887774003181613
UPC	884667430949

8. WARRANTY AND SUPPORT

Your HQRP Ni-MH battery pack comes with a warranty to ensure your satisfaction.

- **Warranty Period:** This product includes a 200-day warranty from the date of purchase.
- **Warranty Claims:** For warranty claims or technical support, please contact HQRP customer service through the retailer where the product was purchased.
- **Disclaimer:** This product is a replacement part and is not manufactured by Cobra. HQRP is an independent brand.