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Empire BF490210

Empire BF490210 NiMH Cordless Phone Battery User Manual

COMPATIBLE WITH RAYOVAC RAY72 CORDLESS PHONES

1. Introduction

This manual provides essential instructions for the safe and effective use of your Empire BF490210 NiMH Cordless Phone Battery. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of your battery.

2. Product Overview

The Empire BF490210 is a high-capacity Nickel-Metal Hydride (NiMH) rechargeable battery designed for use with compatible cordless telephones, including the Rayovac RAY72 model. It provides reliable power with a voltage of 2.4V and a capacity of 1500 mAh.



Figure 2.1: Empire BF490210 NiMH Cordless Phone Battery. The label clearly indicates the 2.4V / 1500mAh rating and important safety cautions regarding disassembly, disposal, temperature limits, and charger compatibility.

3. Safety Information

Observe the following safety precautions to prevent damage to the battery, phone, or personal injury:

- **Do Not Disassemble:** Attempting to disassemble the battery can lead to short circuits, overheating, or chemical leaks.
- **Do Not Dispose of in Fire:** Batteries can explode or leak when exposed to high heat or fire.
- **Avoid High Temperatures:** Do not store the battery in temperatures exceeding 60°C (140°F). High temperatures can reduce battery life and pose safety risks.
- **Use Specified Charger Only:** Always charge the battery using the original or a compatible charger designed for your cordless phone. Using an incorrect charger can damage the battery or phone.
- **Keep Away from Water:** Do not expose the battery to water or moisture.
- **Proper Disposal:** Dispose of used batteries according to local regulations. Do not discard with household waste.

4. Setup and Installation

Follow these steps to correctly install the battery into your cordless phone:

1. **Locate Battery Compartment:** Turn your cordless phone handset over and locate the battery compartment cover.
2. **Remove Old Battery (if applicable):** If replacing an old battery, carefully remove the compartment cover and disconnect the old battery's connector from the phone's socket.
3. **Connect New Battery:** Align the connector of the Empire BF490210 battery with the socket inside the phone's battery compartment. Ensure the connector is inserted firmly and correctly. Do not force it.



Figure 4.1: Side view of the Empire BF490210 battery, illustrating the two metal contact points that connect to the phone's internal terminals.

4. **Position Battery:** Place the battery into the compartment, ensuring it fits snugly without bending or forcing.



Figure 4.2: Angled view of the Empire BF490210 battery, showing the positive (+) and negative (-) terminal markings for correct orientation during installation.

5. **Close Compartment:** Replace the battery compartment cover and secure it.

5. Operating (Charging)

For optimal performance, follow these charging guidelines:

- **Initial Charge:** After installing the new battery, place the phone handset on its charging base for a continuous 12-16 hours. This initial charge is crucial for conditioning the NiMH battery and achieving its full capacity.
- **Regular Charging:** For daily use, return the handset to the charging base when not in use. This ensures the battery remains charged and ready.

- **Charging Indicator:** Refer to your phone's user manual for specific charging indicators (e.g., LED lights, screen icons).
- **Use Original Charger:** Always use the charging base and AC adapter that came with your cordless phone.

6. Maintenance

Proper maintenance can extend the life of your battery:

- **Avoid Deep Discharge:** While NiMH batteries are less prone to memory effect than NiCd, it's best to avoid completely draining the battery regularly.
- **Clean Contacts:** Periodically clean the metal contacts on both the battery and the phone's charging base with a dry, soft cloth to ensure good connection.
- **Storage:** If storing the battery for an extended period, charge it to about 50% capacity and store it in a cool, dry place. Recharge every 3-6 months to prevent over-discharge.

7. Troubleshooting

If you encounter issues with your battery, try the following solutions:

Problem	Possible Cause	Solution
Phone not powering on after battery installation.	Battery not properly connected or discharged.	Ensure battery connector is firmly seated. Place phone on charging base for initial charge.
Short talk time or battery not holding charge.	Insufficient initial charge, battery not fully conditioned, or aging battery.	Perform a full 12-16 hour initial charge. If issue persists, the battery may need to be cycled (fully discharge then fully charge a few times).
Phone not charging when on base.	Dirty contacts on battery or charging base, faulty charger.	Clean battery and charging base contacts with a dry cloth. Ensure the charging base is powered. Test with another known-good battery or charger if possible.

8. Specifications

Feature	Detail
Brand	Empire
Model Number	BF490210
Compatible Phone Model	Rayovac RAY72
Battery Cell Type	NiMH (Nickel-Metal Hydride)
Voltage	2.4 Volts
Capacity	1500 Milliampere Hour (mAh)
Reusability	Rechargeable

Feature	Detail
Product Dimensions	2 x 2 x 2 inches
Item Weight	1.62 Ounces
UPC	724327792409

9. Warranty and Support

Empire batteries are manufactured to high-quality standards. For information regarding warranty coverage, returns, or technical support, please refer to the retailer's policy where the product was purchased or contact Empire customer service directly. Keep your purchase receipt as proof of purchase.

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