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**Empire 360125-EM-BNH-8971**

# Empire Compatible Battery for Motorola KEBT-047-1 2-Way Radio (Ni-MH 4.8V 1200mAh) - Instruction Manual

## 1. Introduction

This manual provides essential instructions for the safe and effective use, installation, charging, and maintenance of your Empire compatible Ni-MH 4.8V 1200mAh battery. This battery, model 360125-EM-BNH-8971, is designed for use with Motorola KEBT-047-1 and NNTN4190 2-way radios. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

## 2. Safety Information

**WARNING: Failure to follow these safety instructions may result in fire, electric shock, injury, or damage to the battery or radio.**

- Do not disassemble, open, crush, bend, deform, puncture, or shred the battery.
- Do not modify or remanufacture the battery, attempt to insert foreign objects into the battery, or immerse or expose it to water or other liquids.
- Do not expose the battery to fire, explosion, or other hazards.
- Avoid dropping the battery or subjecting it to severe impacts.
- Only use the battery with compatible Motorola 2-way radios and approved charging equipment.
- Keep the battery away from children.
- Do not short-circuit the battery terminals.
- Dispose of used batteries according to local regulations. Do not dispose of in household waste.

## 3. Product Overview

The Empire compatible Ni-MH 4.8V 1200mAh battery is a rechargeable power source for your Motorola 2-way radio. It provides reliable performance for extended communication. Below are images illustrating the general physical characteristics of a compatible battery.

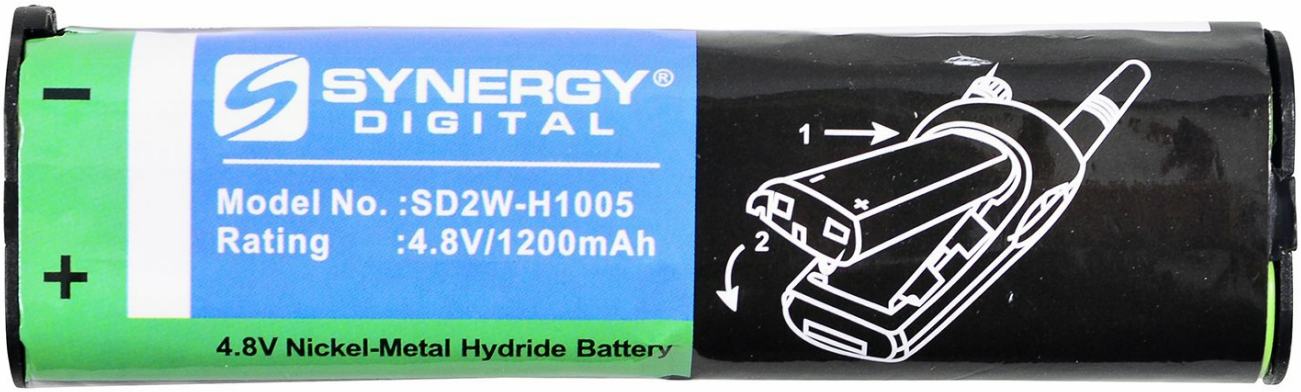



Image 3.1: Front view of a compatible battery showing its dimensions (4.1 inches / 104 mm length, 1.1 inches / 31 mm height) and specifications like "SYNERGY DIGITAL Model No. :SD2W-H1005 Rating :4.8V/1200mAh 4.8V Nickel-Metal Hydride Battery".




Image 3.2: Angled view of a compatible battery, illustrating its overall shape and form factor.




Image 3.3: Bottom view of a compatible battery, displaying the electrical contact points for connection to the radio and charger.

## 4. Setup and Installation

Follow these steps to properly install the battery into your compatible Motorola 2-way radio:

1. Ensure the radio is powered off before installation.
2. Locate the battery compartment on the back of your radio.
3. If an old battery is present, remove it by releasing any latches or clips and sliding it out.
4. Align the new Empire battery with the battery compartment, ensuring the electrical contacts on the battery match the contacts in the radio.
5. Gently slide the battery into the compartment until it clicks securely into place. Ensure it is fully seated and does not wobble.
6. Close the battery compartment cover, if applicable, and secure any latches.

After installation, the battery should be charged before first use.

## 5. Charging the Battery

For optimal performance and battery longevity, follow these charging guidelines:

1. Use only a charger compatible with Motorola Ni-MH batteries and your specific radio model.
2. Insert the radio with the installed battery into the charging cradle or connect the charging cable.

3. Ensure the charging indicator light on the charger or radio illuminates, indicating that charging has begun.
4. Allow the battery to charge completely. Charging times may vary depending on the charger and the battery's discharge level. Refer to your radio's manual for specific charging durations.
5. Do not overcharge the battery. Once fully charged, remove the radio from the charger.
6. It is recommended to fully discharge and recharge Ni-MH batteries periodically (e.g., once a month) to maintain their capacity.

## 6. Operation

Once the battery is installed and fully charged, your radio is ready for operation. Refer to your Motorola 2-way radio's instruction manual for specific operating procedures. The battery provides power for transmitting and receiving signals. Monitor your radio's battery indicator to determine remaining power. Recharge the battery when the indicator shows low power to avoid interruption during use.

## 7. Maintenance and Storage

Proper maintenance and storage can extend the life of your battery:

- **Cleaning:** Periodically clean the battery contacts and the radio's contacts with a clean, dry cloth to ensure good electrical connection. Do not use liquids or abrasive cleaners.
- **Temperature:** Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures. Ideal storage temperature is between 0°C and 25°C (32°F and 77°F).
- **Long-Term Storage:** If storing the battery for an extended period, charge it to approximately 50% capacity. Recharge it every 3-6 months to prevent deep discharge, which can damage Ni-MH cells.
- **Disposal:** Do not dispose of batteries in general waste. Recycle them at an authorized recycling facility.

## 8. Troubleshooting

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

| Problem | Possible Cause | Solution |
|---|---|---|
| Battery not charging | Improperly seated battery<br>Dirty contacts<br>Faulty charger<br>Battery fully discharged (deep discharge) | Re-seat the battery firmly in the radio and charger.<br>Clean battery and charger contacts with a dry cloth.<br>Try a different compatible charger.<br>Attempt to charge for an extended period (up to 24 hours) to revive a deeply discharged Ni-MH battery. If it still doesn't charge, the battery may be damaged. |
| Short operating time after full charge | Battery not fully charged<br>Battery nearing end of life<br>Extreme operating temperatures | Ensure battery is fully charged before use.<br>Perform a full discharge/recharge cycle. If performance does not improve, consider replacing the battery.<br>Operate the radio within recommended temperature ranges. |

| Problem | Possible Cause | Solution |
|---|---|---|
| Battery does not fit radio | Incorrect battery model or radio model incompatibility. | Verify the battery model number (360125-EM-BNH-8971) and radio compatibility (Motorola KEBT-047-1, NNTN4190). Ensure proper alignment during installation. |

## 9. Specifications

| Feature | Detail |
|---|---|
| Model Number | 360125-EM-BNH-8971 (Compatible with Motorola KEBT-047-1, NNTN4190) |
| Battery Cell Composition | Nickel-Metal Hydride (Ni-MH) |
| Voltage | 4.8V |
| Capacity | 1200 mAh |
| Brand | Empire |
| Item Weight | 3.24 ounces (approx. 91.85 grams) |
| Package Dimensions | 5.98 x 1.61 x 0.71 inches |
| Recommended Uses | 2-Way Radio |

## 10. Warranty and Support

For warranty information or technical support regarding your Empire compatible battery, please refer to the retailer or manufacturer's official website where the product was purchased. Keep your proof of purchase for warranty claims.
For specific operational questions about your Motorola 2-way radio, please consult the radio's original instruction manual or the Motorola support resources.


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