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› [Seilylanka 4/5SC 3000mAh Ni-MH Battery Pack Instruction Manual for Black & Decker 4.8V Vacuum Cleaners \(Model RD-BD4.8VA\(Z\)\)](#)

Seilylanka RD-BD4.8VA(Z)

Seilylanka 4/5SC 3000mAh Ni-MH Battery Pack Instruction Manual

Model: RD-BD4.8VA(Z)

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your Seilylanka 4/5SC 3000mAh Ni-MH Battery Pack. This battery pack is designed for self-installation as a replacement for 4.8V Ni-MH batteries in compatible devices, such as Black & Decker vacuum cleaners (e.g., model BD405R, replacing part number 792247). Please read this manual thoroughly before installation and use, and retain it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the battery and device:

- Do not disassemble, crush, puncture, or short-circuit the battery pack.
- Do not expose the battery to extreme temperatures (above 60°C / 140°F or below -20°C / -4°F), direct sunlight, or fire.
- Keep the battery away from water and moisture.
- Use only chargers specifically designed for Ni-MH batteries.
- Do not mix new and old batteries, or batteries of different types.
- If the battery leaks, avoid contact with skin and eyes. Rinse immediately with water and seek medical attention.
- Dispose of used batteries according to local regulations. Do not dispose of in household waste.
- Ensure correct polarity when installing the battery.

3. PRODUCT OVERVIEW

The Seilylanka 4/5SC 3000mAh Ni-MH Battery Pack is a high-capacity replacement battery designed for various 4.8V cordless tools and vacuum cleaners, particularly those from Black & Decker. It consists of four 4/5 Sub C Ni-MH cells, offering reliable power and extended run-time.



Image 1: Seilylanka 4/5SC 3000mAh Ni-MH Battery Pack. This image shows the blue cylindrical battery pack with metal tabs at each end, indicating its design for self-installation into compatible devices.

Key Features:

- **Voltage:** 4.8 Volts
- **Capacity:** 3000 Milliampere Hour (mAh)
- **Cell Type:** Ni-MH (Nickel-Metal Hydride)
- **Cell Configuration:** 4x 4/5 Sub C cells (approx. 33mm x 23mm per cell)
- **Compatibility:** Replaces Black & Decker 792247, BD405R, and similar 4.8V Ni-MH battery packs.

4. SETUP AND INSTALLATION

This battery pack is designed for self-installation. It is crucial to exercise caution and follow proper procedures to ensure safety and correct functionality. If you are unsure about any step, consult a qualified technician.

Required Tools (Not Included):

- Screwdriver set (appropriate for your device)
- Soldering iron and solder (if original battery is soldered)
- Wire cutters/strippers (if necessary)
- Heat shrink tubing or electrical tape (for insulation)
- Safety glasses and gloves

Installation Steps:

1. **Prepare Your Workspace:** Ensure you have a clean, well-lit, and static-free work area. Gather all necessary tools.
2. **Disconnect Power:** Ensure the device (e.g., vacuum cleaner) is completely powered off and disconnected from any charging source.
3. **Access Battery Compartment:** Carefully open the device's casing or battery compartment. Refer to your device's original manual for specific instructions on how to access its internal battery.
4. **Identify Old Battery:** Locate the existing 4.8V Ni-MH battery pack. Note its orientation and how it is connected (e.g., via tabs, wires, or a connector).
5. **Remove Old Battery:**
 - If connected via tabs, carefully desolder the tabs from the device's terminals.
 - If connected via a plug, gently disconnect the plug.
 - Remove the old battery pack from its housing.
6. **Prepare New Battery:** The Seilylanka battery pack comes with metal tabs for soldering. If your device uses a different connection method, you may need to adapt the tabs or transfer the original connector. Ensure the new battery's tabs align with the device's terminals.
7. **Install New Battery:**
 - Place the new battery pack into the device's battery housing, ensuring correct orientation.
 - Carefully solder the battery tabs to the device's terminals, matching positive (+) to positive and negative (-) to negative. Ensure strong, clean solder joints. If using a connector, plug it in securely.
 - Insulate any exposed connections with heat shrink tubing or electrical tape to prevent short circuits.
8. **Reassemble Device:** Carefully close the device's casing or battery compartment, ensuring all screws are tightened and no wires are pinched.
9. **Initial Charge:** Before first use, fully charge the new battery pack using a compatible Ni-MH charger.

Warning: Incorrect installation or polarity can damage the battery, the device, and pose a fire hazard. If you are not experienced with electronics repair, seek professional assistance.

5. OPERATING INSTRUCTIONS

Charging the Battery:

- Use only a charger designed for Ni-MH batteries with a 4.8V output. Using an incompatible charger can damage the battery or cause overheating.

- Connect the device containing the battery pack to its charger.
- Allow the battery to charge fully. Charging times vary depending on the charger's output and the battery's state of discharge. Refer to your device's original manual for typical charging durations.
- Avoid overcharging for extended periods, as this can reduce battery life. Most modern Ni-MH chargers have automatic shut-off features.

Discharging and Use:

- For optimal performance and to mitigate the "memory effect" common in Ni-MH batteries, it is recommended to fully discharge the battery before recharging it, especially during the first few cycles.
- Operate your device as usual until the battery power is depleted or the device indicates a low battery.
- Avoid deep discharge for prolonged periods, as this can also harm battery life. Recharge the battery promptly after it is depleted.

6. MAINTENANCE

- **Cleaning:** Keep the battery and its contacts clean and dry. Use a soft, dry cloth to wipe away any dust or debris.
- **Storage:** If storing the battery for an extended period, charge it to about 50-70% capacity. Store it in a cool, dry place, away from direct sunlight and extreme temperatures. Recharge it every 3-6 months to prevent deep discharge.
- **Cycle Life:** Ni-MH batteries have a finite number of charge/discharge cycles. Following proper charging and discharging practices will help maximize the battery's lifespan.
- **Inspection:** Periodically inspect the battery pack for any signs of damage, swelling, or leakage. Discontinue use immediately if any issues are observed.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Battery not charging	<ul style="list-style-type: none"> • Charger not connected properly • Faulty charger • Battery terminals are dirty • Incorrect battery installation • Battery is severely depleted or damaged 	<ul style="list-style-type: none"> • Ensure charger is securely plugged in. • Test with another compatible charger if available. • Clean battery and device contacts with a dry cloth. • Re-check battery installation for correct polarity and connections. • If battery is damaged, replace it.

Problem	Possible Cause	Solution
Short run-time after full charge	<ul style="list-style-type: none"> Battery not fully charged Battery "memory effect" Battery nearing end of life Device drawing excessive power 	<ul style="list-style-type: none"> Ensure battery is charged until the charger indicates completion. Perform 2-3 full discharge/recharge cycles to recondition the battery. Consider replacing the battery if it's old. Check device for any malfunctions that might increase power consumption.
Battery pack gets hot during charging/use	<ul style="list-style-type: none"> Normal for Ni-MH to get warm Overcharging Internal short circuit or damage Using an incompatible charger 	<ul style="list-style-type: none"> Slight warmth is normal. Excessive heat is not. Disconnect charger once battery is full. Discontinue use immediately if battery becomes excessively hot or swells. Ensure charger is compatible with Ni-MH 4.8V batteries.

8. SPECIFICATIONS

Brand	Seilylanka
Model Number	RD-BD4.8VA(Z)
Battery Type	Ni-MH (Nickel-Metal Hydride)
Voltage	4.8 Volts
Capacity	3000 mAh (Milliampere Hour)
Cell Configuration	4x 4/5 Sub C cells
Approximate Cell Dimensions	33mm (Height) x 23mm (Diameter) per cell
Compatible with	Black & Decker 4.8V devices, including models replacing 792247, BD405R
Recommended Use	Vacuum Cleaner battery replacement

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Seilylanka battery pack, please contact

the seller or manufacturer directly through the platform where the purchase was made. Keep your purchase receipt as proof of purchase.

Please note that self-installation requires technical proficiency. Damage resulting from improper installation is typically not covered under warranty.