

SPANN CS-KSB001VX

SPANN Replacement Battery User Manual

Model: CS-KSB001VX

1. INTRODUCTION

This user manual provides essential information for the safe and effective use of your SPANN 14.4V Ni-MH replacement battery. This battery is designed for compatibility with various robotic vacuum cleaner models, including Klarstein 210XR, Cleantouch 210XR, Cleantouch KV8 210C, and Saugroboter. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your battery.

2. SAFETY INFORMATION

Your safety is paramount. Observe the following precautions:

- **Do not disassemble:** Attempting to disassemble, open, or service the battery pack may cause injury and voids the warranty.
- **Avoid short circuits:** Do not short-circuit the battery. This can cause severe damage to the battery and potential fire hazards.
- **Keep away from heat:** Do not expose the battery to high temperatures (above 60°C / 140°F) or direct sunlight.
- **Proper disposal:** Dispose of used batteries according to local regulations. Do not dispose of in general waste or by incineration.
- **Water exposure:** Do not expose the battery to water or moisture.
- **Children and pets:** Keep the battery out of reach of children and pets.
- **Use compatible charger:** Only use the charger specifically designed for your robotic vacuum cleaner model.

3. PRODUCT OVERVIEW

The SPANN replacement battery is a high-quality Ni-MH battery designed to restore the performance of your compatible robotic vacuum cleaner. It features robust construction and built-in protection mechanisms.



Front view of the SPANN 14.4V Ni-MH replacement battery, showing its compact blue casing and green pull tabs for installation.



Close-up view of the battery's contact points, essential for proper connection within the vacuum cleaner.

Key Features:

- **Battery Type:** Ni-MH
- **Voltage:** 14.4V
- **Capacity:** 2000mAh / 28.80Wh
- **Dimensions:** 91.91 x 67.35 x 44.58mm (approximately 3.62 x 2.65 x 1.76 inches)
- **Weight:** Approximately 603.9g (1.33 pounds)
- **Protection:** No memory effect, over-charge, over-discharge, over-heat, over-current, and short-circuit protection.

4. COMPATIBILITY

This SPANN replacement battery (Model: CS-KSB001VX) is compatible with the following robotic vacuum cleaner models:

- Klarstein 210XR
- Cleantouch 210XR
- Cleantouch KV8 210C
- KV8 210C
- Saugroboter (specific models may vary, verify voltage and connector type)

Always verify your vacuum cleaner's original battery specifications (voltage, capacity, and physical dimensions) against this product's specifications to ensure full compatibility before purchase and installation.

5. SETUP AND INSTALLATION

Follow these general steps to replace the battery in your robotic vacuum cleaner. Specific steps may vary slightly depending on your vacuum cleaner model. Refer to your vacuum cleaner's original user manual for detailed instructions on battery compartment access.

1. **Power Off:** Ensure your robotic vacuum cleaner is completely powered off and disconnected from its charging base or power adapter.

2. **Access Battery Compartment:** Locate the battery compartment on your vacuum cleaner. This is typically on the underside and may require unscrewing a cover.
3. **Remove Old Battery:** Carefully disconnect the old battery from its connector. Note the orientation of the connector. Gently lift out the old battery.
4. **Insert New Battery:** Align the new SPANN battery with the compartment. Connect the battery plug firmly into the vacuum cleaner's socket, ensuring correct polarity.
5. **Secure Compartment:** Place the battery neatly within the compartment and reattach the cover, securing any screws removed earlier.
6. **Initial Charge:** Place the vacuum cleaner back on its charging base or connect it to its power adapter. Allow the battery to fully charge before its first use. This initial charge may take several hours.

6. OPERATING AND USAGE TIPS

To maximize the performance and lifespan of your new battery:

- **Full Charge Before First Use:** Always fully charge the battery before its initial operation.
- **Regular Use:** Ni-MH batteries benefit from regular use. Avoid leaving the vacuum cleaner unused for extended periods.
- **Avoid Deep Discharge:** While the battery has over-discharge protection, try to recharge the vacuum cleaner before the battery is completely depleted.
- **Optimal Temperature:** Operate and charge the vacuum cleaner in a moderate temperature environment (typically 0°C to 40°C / 32°F to 104°F).

7. MAINTENANCE

Proper maintenance can extend the life of your battery:

- **Clean Contacts:** Periodically inspect and clean the battery contacts on both the battery and the vacuum cleaner with a dry cloth to ensure good connection.
- **Storage:** If storing the vacuum cleaner for an extended period (more than a month), remove the battery and store it in a cool, dry place at approximately 50% charge. Recharge it every 3-6 months to prevent deep discharge.
- **Avoid Extreme Temperatures:** Do not store the battery in extremely hot or cold environments.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Battery not charging	Loose connection, faulty charger, dirty contacts, battery not fully inserted.	Ensure battery is fully inserted and connected. Clean battery and vacuum contacts. Test charger with another device if possible.
Short operating time	Battery not fully charged, battery degradation (unlikely for new battery), vacuum cleaner issues.	Ensure battery is fully charged. Perform a few full charge/discharge cycles. Check vacuum cleaner for blockages or excessive motor strain.

Problem	Possible Cause	Solution
Vacuum cleaner not turning on	Battery not connected, battery completely discharged, vacuum cleaner fault.	Verify battery connection. Place on charger for an extended period. Consult your vacuum cleaner's manual for specific power-on troubleshooting.

If problems persist after attempting these solutions, please contact customer support.

9. SPECIFICATIONS

Attribute	Value
Battery Type	Ni-MH
Voltage	14.4V
Capacity	2000mAh / 28.80Wh
Product Dimensions	2.65 x 1.76 x 3.62 inches (91.91 x 67.35 x 44.58mm)
Item Weight	1.33 pounds (603.9g)
Model Number	CS-KSB001VX
Manufacturer	SPANN
Date First Available	August 28, 2023

10. WARRANTY AND SUPPORT

Your SPANN replacement battery comes with a**365-day warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its stated specifications.

If you have any questions, concerns, or require assistance with your product, please do not hesitate to contact our customer support team. Provide your purchase details and model number (CS-KSB001VX) for faster service.

For support, please refer to the contact information provided by your retailer or on the official SPANN website.

