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RDSJ PUCRC90

Instruction Manual: PUCRC90 Battery Replacement

For Pure Clean PUCRC90, Rotating 2713/2718, Ariete 00P271310AR0/00P271810AR0, Ecovacs Deebot DF43/DF45 Sweeping Robot Cleaners

1. Introduction

This manual provides essential information for the safe and effective use of your new 3400mAh Li-ion battery replacement. Designed for various robot vacuum cleaners, this battery offers reliable power and extended runtime. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your battery.

2. Product Overview

The RDSJ PUCRC90 replacement battery is a high-capacity Li-ion battery engineered to meet or exceed the specifications of original equipment batteries. It features multiple built-in protections to ensure safe operation.

2.1 Key Features

- **Battery Type:** Li-ion
- **Voltage:** 14.4V/14.8V
- **Capacity:** 3400mAh
- **Cells:** 4-Cell configuration
- **Safety Features:** Built-in over-temperature protection, overheating protection, anti-overcharge, and protection chip.
- **Ease of Installation:** Designed for quick and easy installation, typically within 2 minutes.
- **Fast Charging:** Lithium batteries allow for quick charging, reducing downtime.

2.2 Package Contents

- 1 x PUCRC90 Replacement Battery
- Small screwdriver (may be included for installation)
- Small cleaning brush (may be included for maintenance)

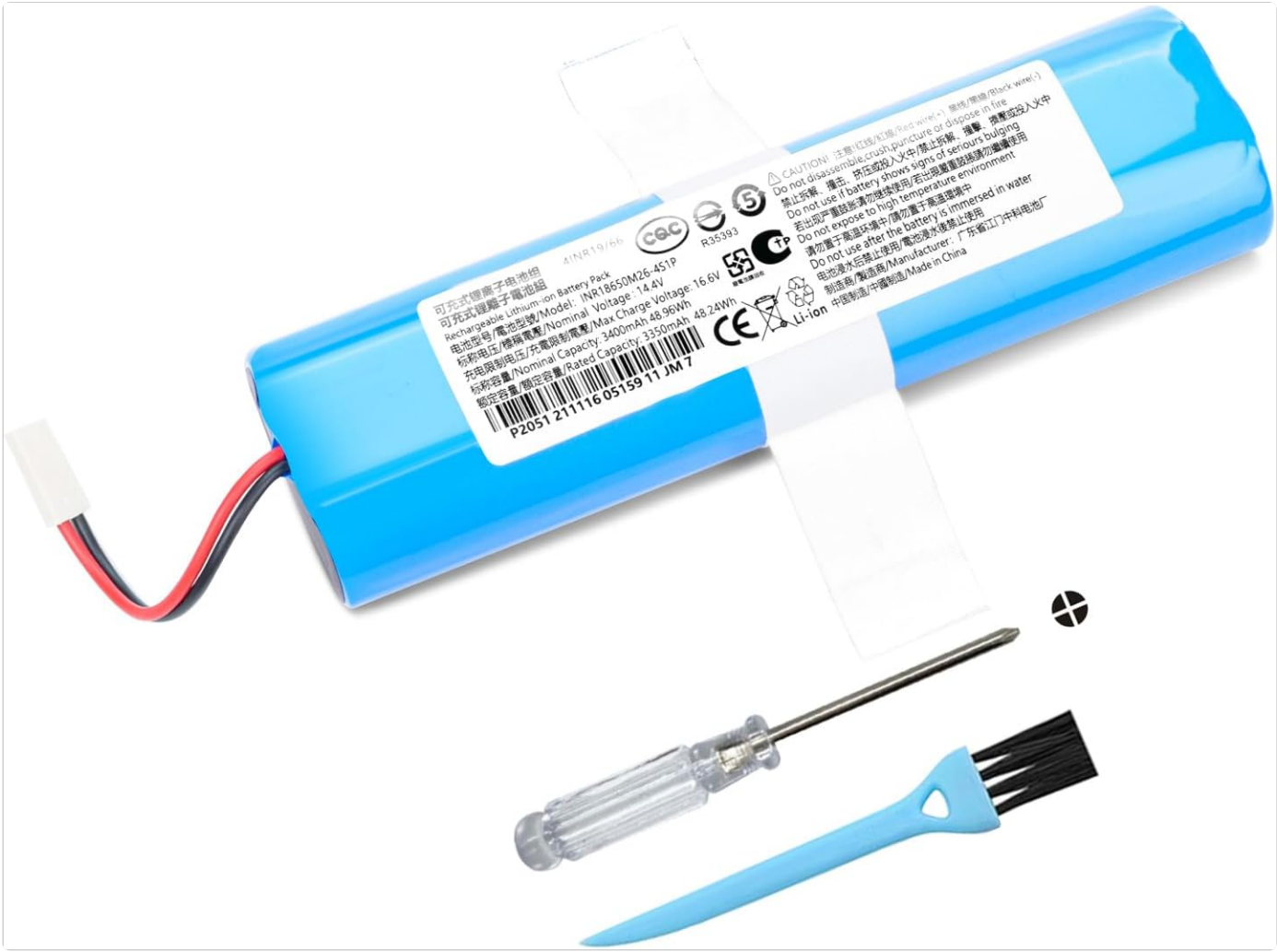


Image: The PUCRC90 replacement battery shown alongside a small screwdriver and cleaning brush, which are often included for convenience during installation and maintenance.

3. Specifications

Specification	Value
Product Dimensions	5.21 x 1.47 x 0.82 inches
Item Weight	8 ounces
Battery Type	Lithium Ion
Nominal Voltage	14.4V / 14.8V
Battery Capacity	3400 mAh
Number of Batteries	1 (included)
Manufacturer	RDSJ
Model Number	PUCRC90

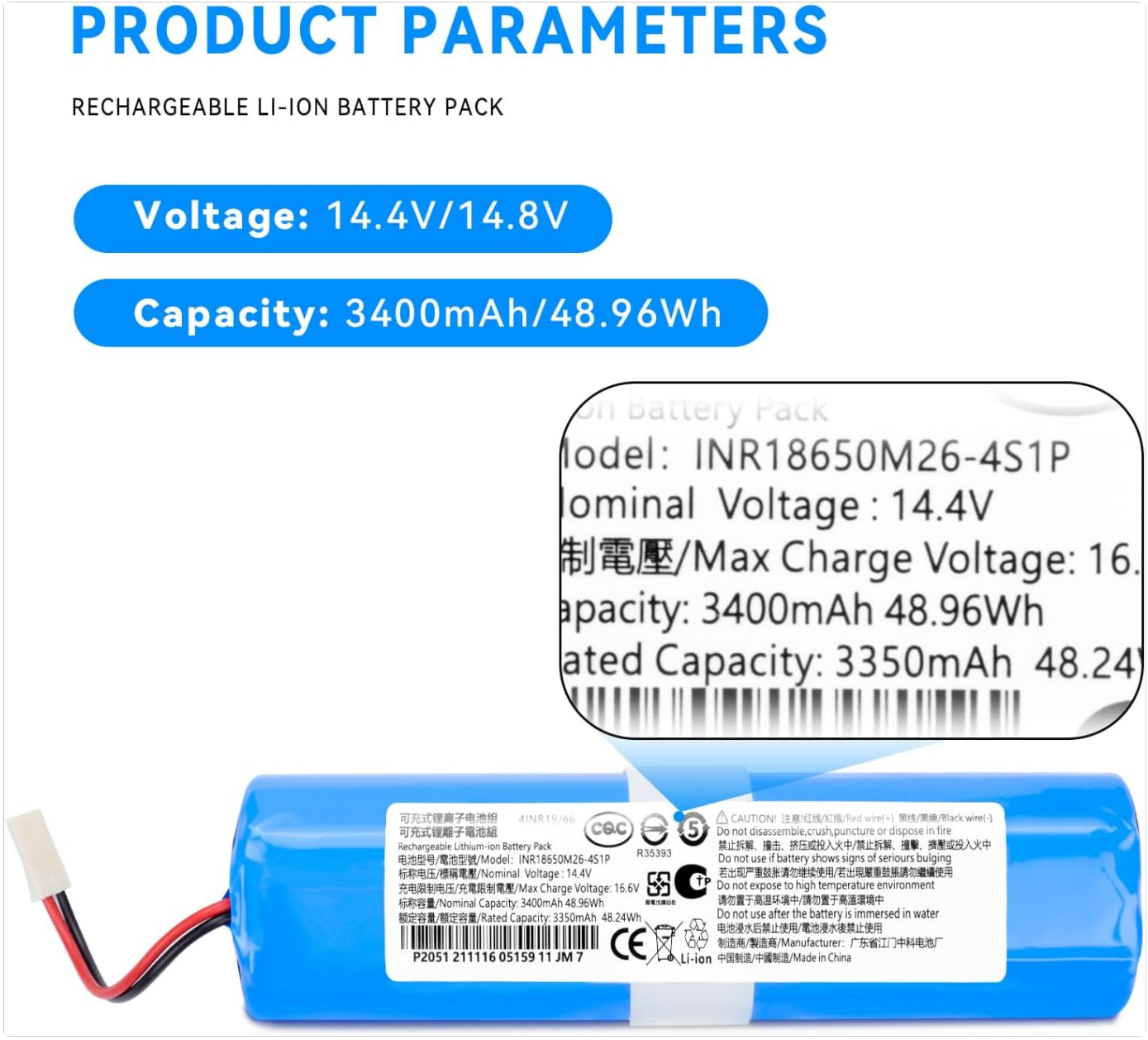


Image: A close-up view of the battery label highlighting its voltage (14.4V/14.8V) and capacity (3400mAh/48.96Wh).

4. Compatibility

This replacement battery is compatible with a range of robot vacuum cleaner models. Please verify your vacuum cleaner's model number before purchasing and installing.

Compatible Models:

- Pure Clean PUCRC90
- Rotating 2713
- Rotating 2718
- Ariete 00P271310AR0
- Ariete 00P271810AR0
- Ecovacs Deebot DF43
- Ecovacs Deebot DF45

Part Numbers: 18650B4-4S1P-AGX-2, AT5186033510, M26-4S1P-AGX-2, HJ08, HA15, P20082101050054801TW1

PUCRC90

COMPATIBLE MACHINES



Pure Clean PUCRC90 2713 2718 00P271310AR0 00P271810AR0
Rotating 2713 Rotating 2718
Ecovacs Deebot DF43 Deebot DF45

Image: Visual representation of various robot vacuum cleaner models compatible with the PUCRC90 battery, including Pure Clean PUCRC90, Ecovacs Deebot DF43, and Ecovacs Deebot DF45.



Image: Close-up views of the battery connector, emphasizing the need to confirm it matches the original battery's connector type for proper fit and function.

5. Installation Guide

Replacing the battery in your robot vacuum cleaner is a straightforward process. Always ensure the device is powered off and unplugged before beginning.

1. **Power Off:** Turn off your robot vacuum cleaner and disconnect it from its charging base or power adapter.
2. **Locate Battery Compartment:** Most robot vacuums have the battery compartment on the underside. Refer to your vacuum cleaner's original manual if you cannot locate it.
3. **Remove Screws:** Use a suitable screwdriver (often a Phillips head, or the one provided with the battery) to remove

the screws securing the battery compartment cover.

4. **Remove Old Battery:** Carefully lift the cover and disconnect the old battery's connector from the vacuum cleaner's port. Gently remove the old battery.
5. **Install New Battery:** Connect the new PUCRC90 battery to the vacuum cleaner's port, ensuring the connector is firmly seated. Place the new battery into the compartment.
6. **Secure Cover:** Replace the battery compartment cover and secure it with the screws.
7. **Initial Charge:** Place your robot vacuum cleaner back on its charging base or connect it to the power adapter for an initial full charge before first use.

The battery is designed to fit perfectly and connect easily, just like the original. Installation typically takes less than 2 minutes.

6. Operating and Charging

Once installed, the battery operates seamlessly with your robot vacuum. For optimal performance and battery life, follow these guidelines:

- **First Use:** Fully charge the battery before its first use.
- **Regular Charging:** Allow your robot vacuum to return to its charging base after each cleaning cycle. Lithium-ion batteries benefit from frequent, partial charges rather than deep discharges.
- **Charging Time:** Lithium batteries are known for fast charging. The exact charging time will depend on your vacuum cleaner's charging system.
- **Storage:** If storing the vacuum for an extended period, charge the battery to about 50% and store it in a cool, dry place. Recharge every 3-6 months to prevent deep discharge.

7. Maintenance and Care

Proper care extends the life of your battery and ensures consistent performance.

- **Keep Contacts Clean:** Periodically inspect and clean the battery contacts on both the battery and the vacuum cleaner with a dry cloth to ensure good electrical connection.
- **Avoid Extreme Temperatures:** Do not expose the battery to extreme heat or cold. Operate and store the vacuum within recommended temperature ranges.
- **Regular Vacuum Maintenance:** Ensure your robot vacuum is regularly cleaned (dustbin, brushes, filters) to prevent excessive strain on the motor, which can impact battery life.
- **Low Self-Discharge:** This battery is designed to retain approximately 80% of its capacity after one year of non-use, provided it is stored correctly.

8. Safety Information and Protections

Your RDSJ replacement battery is equipped with multiple protection features to ensure safe operation. Adhere to the following safety guidelines:

- **Over-Charge Protection:** Prevents the battery from being charged beyond its safe voltage limit.
- **Over-Discharge Protection:** Prevents the battery from being discharged below its safe voltage limit, protecting cell integrity.
- **Over-Current Protection:** Protects against excessive current draw that could damage the battery or device.
- **Over-Temperature Protection:** Monitors battery temperature and shuts down if it exceeds safe operating limits.
- **Short-Circuit Protection:** Automatically cuts off power in case of a short circuit.

- **Over-Voltage Protection:** Safeguards against input voltage spikes.

Important Safety Warnings:

- **DO NOT** disassemble, crush, puncture, or dispose of in fire.
- **DO NOT** expose to high temperatures or direct sunlight.
- **DO NOT** immerse in water or other liquids.
- **DO NOT** use if the battery is damaged or leaking.
- Dispose of batteries according to local regulations.



Image: Icons illustrating the various protection mechanisms built into the battery, including over-charge, over-discharge, over-current, over-temperature, short-circuit, and over-voltage protection.

9. Troubleshooting

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

Problem	Possible Cause	Solution
Vacuum not powering on after battery replacement.	Battery not properly connected; Battery not charged.	Ensure the battery connector is fully seated. Place the vacuum on its charging base for a full charge.
Reduced runtime compared to expectations.	Battery not fully charged; Vacuum cleaner components (brushes, filters) are dirty, causing increased power draw; Battery degradation over time.	Ensure a full charge. Clean vacuum components thoroughly. If the battery is old, consider replacement.
Battery not charging.	Charging contacts are dirty; Charger/charging base malfunction; Battery fault.	Clean charging contacts on both the vacuum and the base. Test the charger/base with another device if possible. If issues persist, the battery may be faulty.
Vacuum stops unexpectedly.	Low battery; Overheating; Obstruction.	Charge the battery. Check for blockages in brushes or wheels. Allow the vacuum to cool down if it feels hot.

If troubleshooting steps do not resolve the issue, please contact customer support.

10. Warranty and Support

Specific warranty details for this product are not provided in this manual. For warranty claims or technical support, please refer to the seller's information on the product listing or contact the manufacturer, RDSJ, directly.
For further assistance, please visit the product page where you purchased the battery or contact the seller directly.

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