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RDSJ Lefant M301

RDSJ 3400mAh Replacement Battery User Manual

For Lefant M301, M501A, M501-B, M520 Series Robot Vacuum Cleaners

1. Introduction

Thank you for choosing the RDSJ 3400mAh Li-ion Replacement Battery. This manual provides essential information for the safe and effective use of your new battery, designed specifically for compatible Lefant robot vacuum cleaner models. Please read this manual thoroughly before installation and use.



Image: The RDSJ 3400mAh Li-ion Replacement Battery, showing the battery pack, connector, and small installation tools (screwdriver and brush).

2. Product Features

This replacement battery is engineered to provide reliable power and performance for your robot vacuum cleaner. Key features include:

- **High Capacity:** 3400mAh/48.96Wh Li-ion battery with 4-cells for extended runtime.
- **Optimal Voltage:** Operates at 14.4V/14.8V, matching original specifications.
- **Advanced Protection:** Built-in protection chip safeguards against over-temperature, overheating, over-charge, over-discharge, over-current, over-voltage, and short-circuit conditions.
- **Easy Installation:** Designed for a precise fit and quick replacement, typically within 2 minutes.
- **Fast Charging:** Lithium-ion technology allows for quick charging, minimizing downtime.



Image: Visual representation of the battery's multiple protection features, including over-charge, over-discharge, over-voltage, over-current, over-temperature, and short-circuit protection.

3. Compatibility

This replacement battery is compatible with the following Lefant Robot Vacuum Cleaner models:

- Lefant M301
- Lefant M501A
- Lefant M501-B
- Lefant M520

It is crucial to verify that the connector type of your original battery matches the connector on this replacement battery before installation. Refer to the image below for the connector type.



Image: A visual guide displaying the compatible Lefant robot vacuum models (M301, M501A, M501-B, M520) alongside the replacement battery.



Image: Detailed view of the battery's white two-pin connector, emphasizing the importance of matching it with the original vacuum's connector.

4. Safety Information and Warnings

Please observe the following safety precautions to prevent injury, fire, or damage to the battery and your device:

- **Dry Location Use Only:** Do not expose the battery to moisture or liquids.
- **Fire Hazard:** The battery may explode if disposed of in fire.
- **Read User's Manual:** For safe operation, carefully read your robot vacuum's user manual regarding battery handling and replacement.
- **Avoid Contact:** Do not allow metal objects to contact battery terminals.
- **Special Charger Only:** Use only with a special charger designed for Li-ion batteries at room temperature 50-104°F (10-40°C).
- **Do Not Disassemble:** Do not disassemble, crush, or puncture the battery.
- **Avoid Short Circuits:** Do not short external contacts.
- **Proper Disposal:** Dispose of used batteries according to local regulations. Do not dispose of with household waste.



Image: The reverse side of the battery, displaying a caution label with important safety warnings regarding dry use, fire hazards, and proper charging/handling.

5. Setup and Installation

The battery is designed for easy installation. Please follow these general steps. Refer to your specific robot vacuum cleaner's manual for detailed instructions on accessing the battery compartment.

1. **Power Off:** Ensure your robot vacuum cleaner is completely powered off and disconnected from its charging base.
2. **Locate Battery Compartment:** Typically, the battery compartment is located on the underside of the robot vacuum. You may need a screwdriver (one is often included with the battery) to open the cover.
3. **Remove Old Battery:** Carefully disconnect the old battery's connector from the vacuum's port. Remove the old battery from its compartment.
4. **Insert New Battery:** Place the new RDSJ battery into the compartment, ensuring it fits snugly.
5. **Connect Battery:** Align the new battery's connector with the vacuum's port and push firmly until it clicks into place. Ensure the connection is secure.
6. **Close Compartment:** Replace the battery compartment cover and secure it with screws if applicable.
7. **Initial Charge:** Place the robot vacuum back on its charging base to allow the new battery to fully charge before its first use.

The installation process is typically completed within 2 minutes.

6. Operating the Battery

Once installed, the battery operates seamlessly with your robot vacuum cleaner. Here are some operational considerations:

- **First Use:** It is recommended to fully charge the battery before its initial use to optimize performance and lifespan.
- **Charging:** The battery supports fast charging, allowing your robot vacuum to be ready for use quickly. Always use the original charging base or adapter provided with your robot vacuum.
- **Runtime:** The 3400mAh capacity provides ample runtime for your robot vacuum's cleaning cycles. Actual runtime may vary based on vacuum model, floor type, and cleaning mode.
- **Storage:** If storing the robot vacuum for an extended period, ensure the battery is partially charged (around 50%) and store it in a cool, dry place. Avoid storing a fully depleted or fully charged battery for long periods.



Image: A collage of robot vacuums actively cleaning different types of debris (water stains, dust, hair, rubbish) on various floor surfaces, illustrating the battery's role in powering effective cleaning.

7. Maintenance

Proper maintenance can extend the life of your battery:

- **Regular Use:** Use your robot vacuum regularly to keep the battery active.
- **Avoid Extreme Temperatures:** Do not expose the battery or robot vacuum to extreme heat or cold, as this can degrade battery performance.
- **Clean Contacts:** Periodically check and clean the charging contacts on both the vacuum and the charging base to ensure efficient charging.
- **Proper Storage:** If the vacuum will not be used for an extended period, charge the battery to approximately 50% and store it in a cool, dry place. Recharge every 3-6 months to prevent deep discharge.

8. Troubleshooting

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

Battery Not Charging:

- **Check Connections:** Ensure the battery is securely connected inside the vacuum and the vacuum is properly seated on its charging base.
- **Verify Charger:** Confirm that the charging base/adapter is functioning correctly. Try plugging another device into the outlet or testing the charger with a known working battery if possible.
- **Clean Contacts:** Dust or debris on the charging contacts can prevent charging. Clean them with a dry cloth.
- **Temperature:** Ensure the charging environment is within the recommended temperature range (50-104°F / 10-40°C).

Battery Not Fitting / Incorrect Model:

While this battery is listed as compatible with Lefant M301, M501A, M501-B, and M520 models, it is crucial to double-check your specific robot vacuum model number and the connector type of your original battery. Some models, even within the same series, may have variations. Refer to the connector image in the Compatibility section (Section 3) to ensure a match. If the battery does not fit or the connector is different, please contact customer support.

Reduced Runtime:

- **Full Charge:** Ensure the battery is fully charged before each cleaning cycle.
- **Vacuum Condition:** A dirty or clogged vacuum (e.g., full dustbin, tangled brushes) can increase power consumption and reduce runtime. Clean your vacuum regularly.
- **Battery Age:** All rechargeable batteries degrade over time. If the battery has been in use for a long period, its capacity may naturally decrease.

For further assistance, please contact RDSJ customer support.

9. Specifications

Attribute	Value
Battery Type	Li-ion
Voltage	14.4V / 14.8V
Capacity	3400mAh / 48.96Wh
Cells	4-Cell
Battery Cell Composition	Lithium Ion

Attribute	Value
Item Model Number	Lefant M301 (compatible series)
Package Dimensions	5.4 x 4.6 x 1.68 inches
Item Weight	1.41 pounds
Manufacturer	RDSJ
Recommended Uses	Vacuum Cleaner



Image: A detailed graphic outlining the key product parameters of the rechargeable Li-ion battery pack, including voltage and capacity.

10. Warranty and Support

For any questions, concerns, or technical support regarding your RDSJ replacement battery, please contact the seller or manufacturer directly through the platform where you purchased the product. Please retain your proof of purchase for warranty claims.

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