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AJC RL800

AJC Battery User Manual

Model: RL800 Compatible 12V 18Ah Lawn and Garden Battery

Brand: AJC

Introduction

This manual provides essential information for the safe and effective use of your AJC 12V 18Ah Sealed Lead Acid (SLA) replacement battery, specifically designed for compatibility with the Friendly Robotics Robomower RL800. Please read this manual thoroughly before installation and operation to ensure proper handling and longevity of your battery.

Safety Information

WARNING: Failure to follow these safety instructions may result in fire, burns, or other serious injury.

- **Avoid Short Circuit:** Do not short circuit the battery terminals.
- **Risk of Fire, Explosion, or Burns:** Do not charge in a sealed container.
- **Proper Disposal:** Must be recycled or disposed of properly. Do not dispose of with household waste.
- **Temperature:** Do not disassemble, heat above 45°C (113°F), or incinerate.
- **Personal Safety:** When replacing batteries, always remove wristwatches and jewelry such as rings. Use tools with insulated handles to prevent accidental short circuits.
- **Ventilation:** Ensure adequate ventilation during charging to prevent gas accumulation.

Product Overview

The AJC 12V 18Ah battery is a high-quality, maintenance-free, sealed lead-acid (SLA) battery. It is designed to provide reliable power for your Friendly Robotics Robomower RL800. This battery features a non-spillable design and is constructed for durability and consistent performance.



Image: The AJC 12V 18Ah battery, showcasing its label with specifications and safety warnings, alongside its red and black packaging.

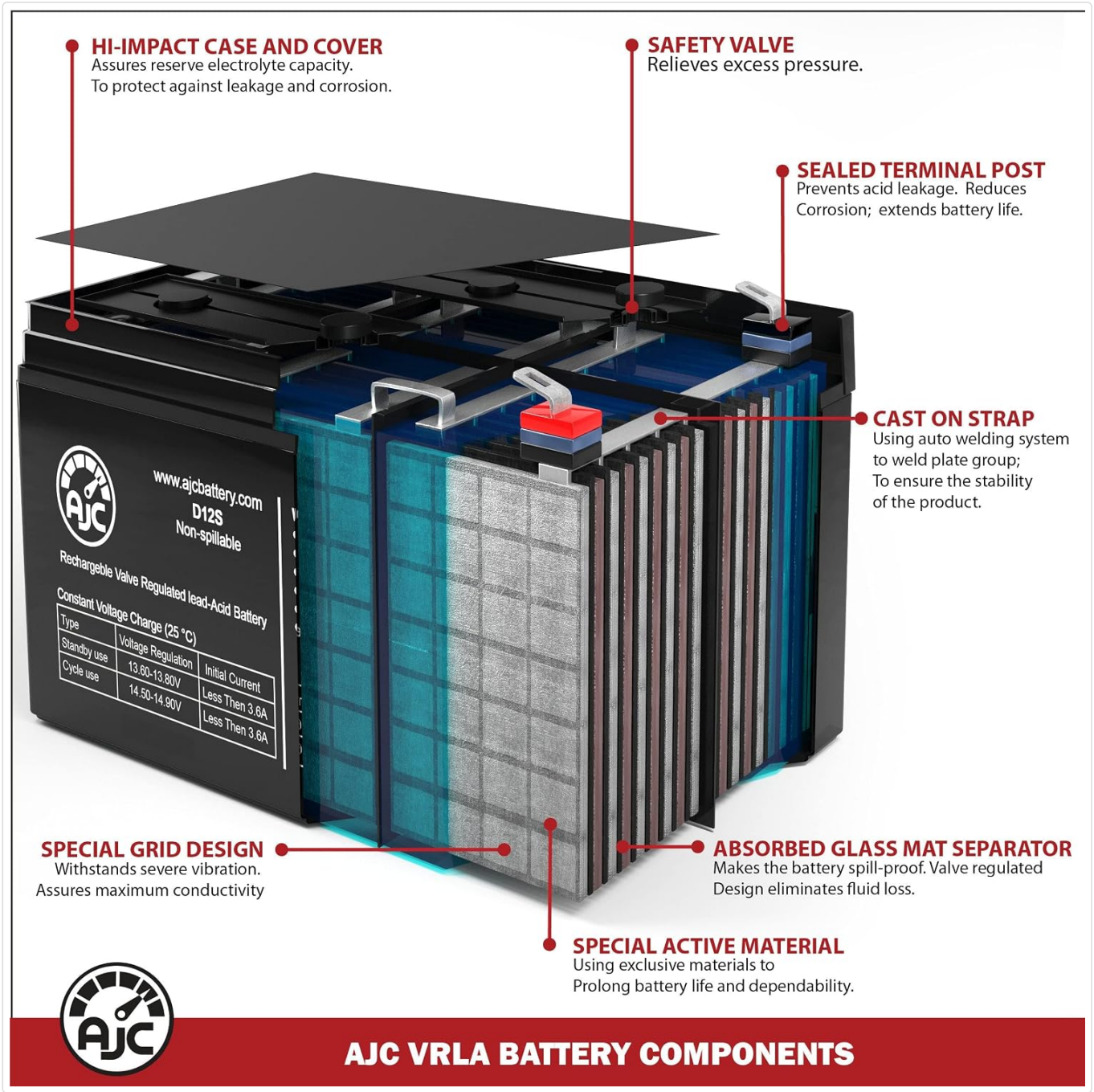


Image: An exploded diagram illustrating the internal components of an AJC VRLA battery, highlighting features like the hi-impact case, safety valve, sealed terminal post, cast on strap, special grid design, absorbed glass mat separator, and special active material.

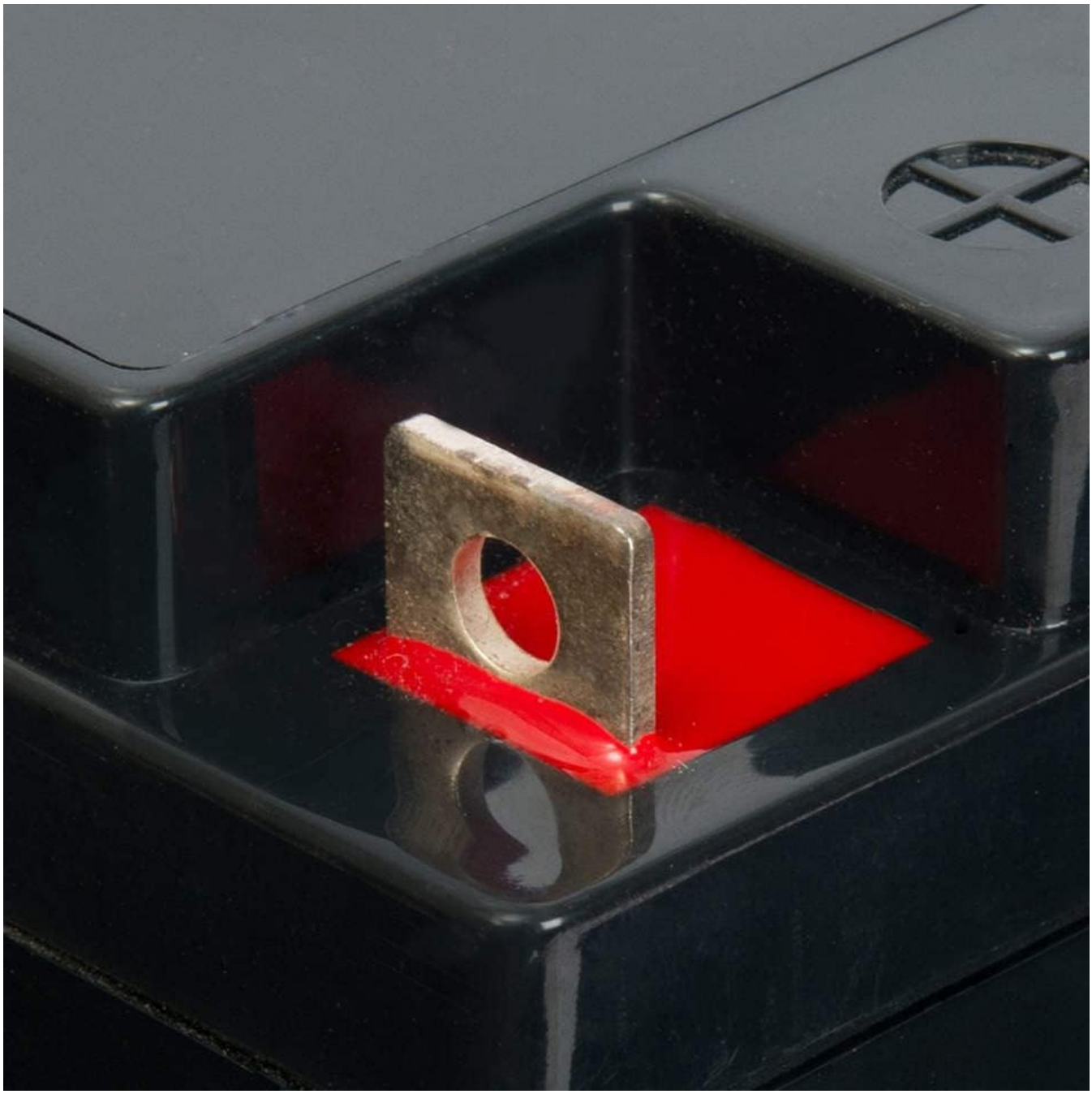


Image: A close-up view of the positive (red) terminal of the AJC battery, showing the flat terminal with a bolt hole.

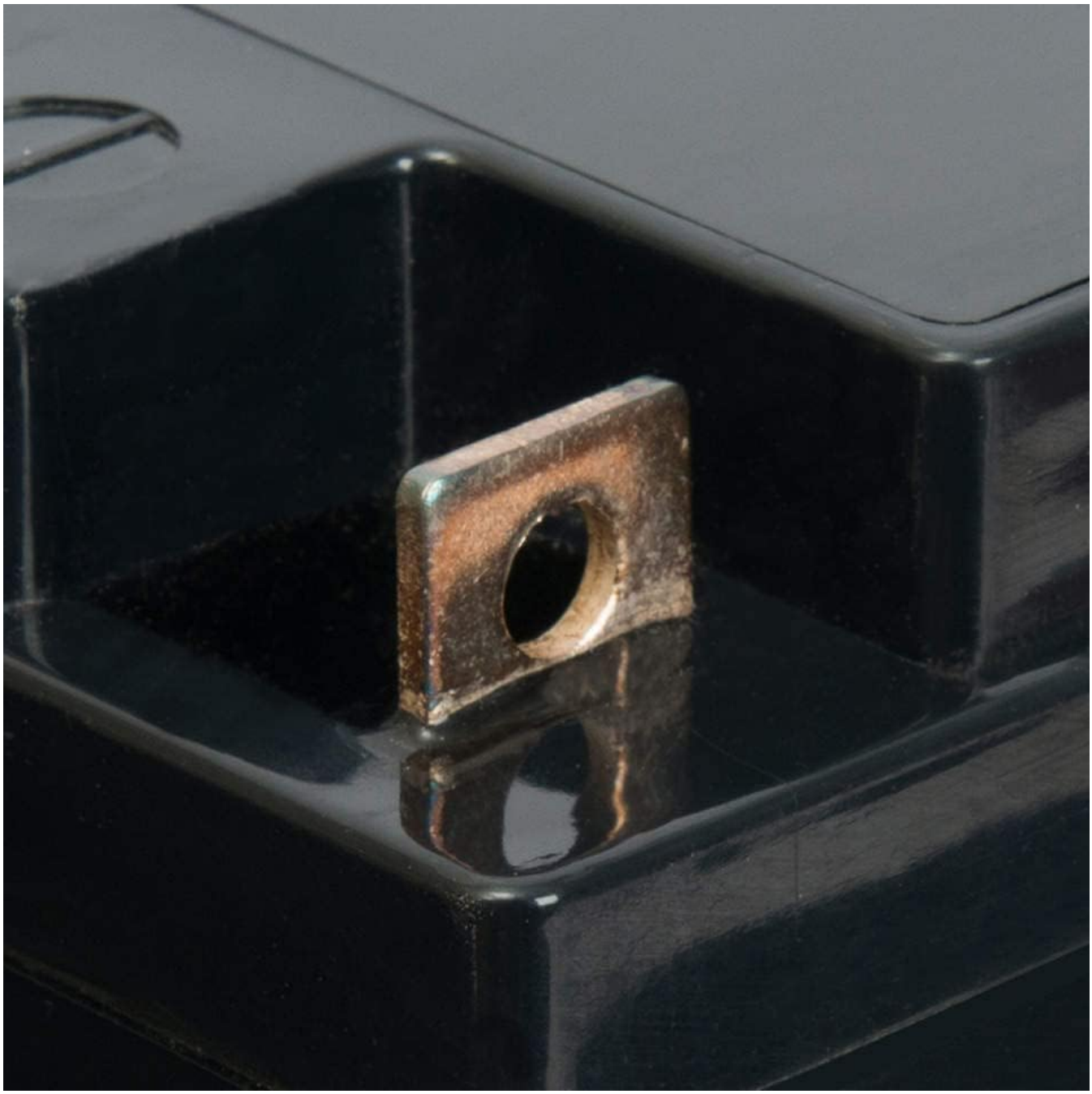


Image: A close-up view of the negative (black) terminal of the AJC battery, showing the flat terminal with a bolt hole.

▶ **Watch video online**
AJC AGM Batteries

Video: An informational video about AJC AGM Batteries, highlighting their durability, safety, maintenance-free nature, and suitability for various applications including lawn and garden equipment.

Setup and Installation

This section outlines the general steps for replacing your battery. Always refer to your Friendly Robotics Robomower RL800's official instruction manual for specific, detailed installation procedures and safety warnings unique to your equipment.



Image: A graphic illustrating five steps for replacing a battery, including referring to manufacturer's instructions, removing jewelry, locating the battery compartment, disconnecting wires, and inserting the new battery.

1. **Consult Manufacturer's Instructions:** Always refer to the specific instructions provided by Friendly Robotics for your Robomower RL800.
2. **Safety First:** To avoid injury, remove wristwatches and jewelry such as rings when replacing batteries. Use tools with insulated handles.
3. **Locate Battery Compartment:** Identify and open the battery compartment on your Robomower RL800.
4. **Disconnect Old Battery:** Carefully disconnect the wires from the old battery terminals (typically negative first, then positive) and remove the old battery.
5. **Install New Battery:** Insert the new AJC 12V 18Ah battery into the compartment. Connect the wires to the battery terminals (typically positive first, then negative). Ensure connections are secure.

Note: Two (2) AJC 12V 18Ah batteries are required for a full replacement in the Friendly Robotics Robomower RL800.

Operating the Battery

The AJC 12V 18Ah battery is designed to function as a direct replacement for your Robomower RL800's original battery. Once properly installed, the battery will power your device as intended. For instructions on operating your Friendly Robotics Robomower RL800, please refer to the mower's specific user manual.
This battery is a Sealed Lead Acid (SLA) type, which means it is maintenance-free and does not require adding water or electrolyte.

Maintenance

While AJC SLA batteries are largely maintenance-free, following these guidelines will help ensure optimal performance and lifespan:

- **Keep Terminals Clean:** Periodically inspect battery terminals for corrosion. If corrosion is present, clean with a wire brush and a solution of baking soda and water. Rinse with clean water and dry thoroughly.
- **Secure Connections:** Ensure all cable connections to the battery terminals remain tight and secure. Loose connections can lead to power loss and heat buildup.
- **Charging:** For optimal battery life, maintain a constant voltage charge at 25°C (77°F). The recommended voltage regulation for standby use is 13.60-13.80V, with an initial current of less than 5.4A. For cycle use, the recommended voltage regulation is 14.50-14.90V, with an initial current of less than 5.4A. Avoid overcharging or deep discharging.
- **Storage:** If the battery will not be used for an extended period, store it in a cool, dry place and ensure it is fully

charged. Recharge every 3-6 months to prevent self-discharge.

- **Temperature:** Avoid exposing the battery to extreme temperatures, as this can affect its performance and lifespan.

Troubleshooting

If you experience issues with your AJC battery, consider the following common troubleshooting steps:

- **Device Not Powering On:**
  - Check all battery connections to ensure they are clean and tight.
  - Verify that the battery is fully charged.
  - Ensure the Robomower's power switch is in the 'ON' position.
- **Battery Not Holding Charge:**
  - Confirm that the charging system of your Robomower is functioning correctly.
  - Check the charger's output voltage and current.
  - If the battery is old, its capacity may have naturally diminished over time.
- **Reduced Run Time:**
  - This can indicate a partially charged battery or a battery nearing the end of its service life.
  - Ensure the battery is being fully charged before each use.

If problems persist after performing these checks, please contact AJC Battery customer support or a qualified technician.

Specifications

Feature	Specification
Voltage	12 Volts
Capacity	18 Amp Hours (18Ah)
Terminals	NB
Battery Cell Composition	Sealed Lead Acid (SLA)
Product Dimensions (L x W x H)	7.09 x 3.03 x 6.57 inches
Item Weight	12.1 pounds
Model Number	RL800 (Compatible)
UPC	740737269751
Required for Full Replacement	2 Batteries

Warranty Information

For specific warranty details regarding your AJC battery, please refer to the warranty documentation included with your purchase or visit the official AJC Battery website. Keep your proof of purchase for any warranty claims.

Support

If you have any questions, require technical assistance, or need further support, please contact AJC Battery customer service through their official website or the contact information provided with your product.

AJC Battery Official Website: www.ajcbattery.com

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