



Manuals.plus /

› Robomow /

› Robomow RS630 Robotic Lawn Mower User Manual

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Robomow RS630 Robotic Lawn Mower User Manual

Model: RS630 | Brand: Robomow

1. INTRODUCTION

The Robomow RS630 Robotic Lawn Mower is designed to automate lawn maintenance for areas up to 3/4 acre (32,760 square feet). This battery-powered unit features dual blades and a 22-inch cutting width for efficient operation. It is capable of navigating inclines up to 20 degrees and can be programmed to manage multiple zones within your yard. The RS630 integrates with smart home systems and offers app-based control for convenient management.

Key features include:

- **Large Yard Cutting Path:** Dual blade, 22" cutting width for areas up to 3/4 acre and inclines up to 20 degrees.
- **Multi-Zone Mowing:** Can be wired to automatically travel to different zones and return to the base station.
- **Personalized Web App:** Bluetooth connectivity for managing the mower via the My Robomow app.
- **Smart Home Integration:** Compatible with Alexa for voice command operation.
- **Fast & Easy Setup:** Simple perimeter wire installation and weekly schedule setting.
- **Integrated Rain Sensor:** Mower returns to base station in rain and resumes when conditions improve.
- **Quiet Operation:** Reduced noise level for flexible mowing times.
- **Anti-Theft & Safety System:** Requires a valid code for operation and automatically shuts off if tilted or picked up.



Figure 1.1: The Robomow RS630 Robotic Lawn Mower, showcasing its green and black design.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance of your Robomow RS630.

2.1 Perimeter Wire Installation

The Robomow operates within a defined area established by a perimeter wire.

1. **Plan Your Layout:** Map out the mowing area, identifying obstacles, narrow passages, and areas requiring exclusion.
2. **Install Perimeter Wire:** Lay the boundary wire around the perimeter of the mowing area. Ensure the wire is securely pegged to the ground or buried slightly below the surface. Maintain recommended distances from edges and obstacles as specified in the full installation guide.
3. **Connect to Base Station:** Connect the ends of the perimeter wire to the designated terminals on the base station.

2.2 Base Station Placement

The base station serves as the charging point and signal emitter for the perimeter wire.

- Place the base station on a flat, level surface in an area with access to a power outlet.
- Ensure the base station is positioned within the mowing area and has clear access for the mower to dock.
- Avoid placing the base station in direct sunlight or areas prone to excessive moisture.



Figure 2.1: The Robomow RS630 docked on its charging station.

3. OPERATING THE ROBOMOW RS630

The Robomow RS630 offers various methods for operation, including manual control, scheduled mowing, and smart app integration.

3.1 Initial Start-up and Scheduling

1. **Power On:** Ensure the mower is charged and powered on.
2. **Set Weekly Schedule:** Use the mower's control panel or the My Robomow app to set your desired mowing schedule. This includes start times, days of the week, and specific zones to be mowed.
3. **Activate Mowing:** The mower will automatically begin mowing according to the set schedule.

3.2 Using the My Robomow App

The My Robomow app provides remote control and monitoring capabilities via Bluetooth.

- Download the "My Robomow" app from your device's app store.
- Pair your smartphone with the Robomow RS630 via Bluetooth.
- From the app, you can start/stop mowing, adjust settings, view mowing history, and manage zones.

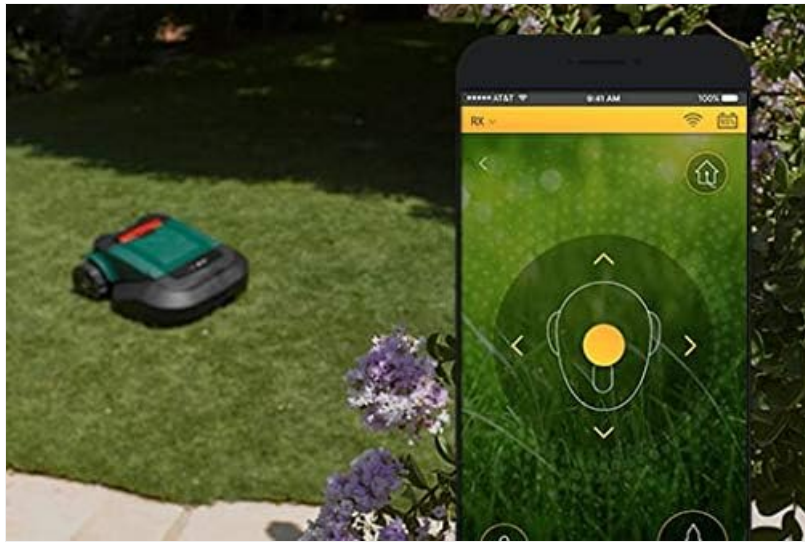


Figure 3.1: The My Robomow app interface on a smartphone, used for controlling the mower.

3.3 Smart Home Integration (Alexa)

The Robomow RS630 can be integrated with Amazon Alexa for voice-activated commands.

- Enable the Robomow skill in your Alexa app.
- Link your Robomow account with Alexa.
- Use voice commands such as "Alexa, tell Robomow to start mowing" or "Alexa, ask Robomow to return to base."

3.4 Safety Features

The RS630 is equipped with safety mechanisms to protect users and the unit.

- **Child Lock:** Prevents unauthorized operation.
- **Lift and Tilt Sensors:** The blades immediately pause if the unit is lifted from the ground or tilted.
- **Anti-Theft System:** Requires a valid code for operation.
- **Rain Sensor:** Automatically returns the mower to the base station during rain and resumes operation when conditions improve.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Robomow RS630.

4.1 Blade Care

- **Inspection:** Regularly inspect the blades for sharpness and damage. Dull or damaged blades can affect cutting quality.
- **Sharpening/Replacement:** Sharpen blades as needed or replace them if they are bent, chipped, or excessively worn. Always use genuine Robomow replacement parts.
- **Cleaning:** Before inspecting or replacing blades, ensure the mower is powered off and the safety key is removed. Clean grass clippings from around the blade area.

4.2 General Cleaning

- Periodically clean the exterior of the mower with a damp cloth.
- Remove any accumulated grass, dirt, or debris from the wheels, chassis, and sensors.
- Do not use high-pressure washers or immerse the mower in water.

4.3 Battery Maintenance

- The Robomow RS630 uses high-performance lithium ferrum batteries.
- Ensure the mower is regularly charged by allowing it to return to its base station.
- For long-term storage, ensure the battery is fully charged and store the mower in a cool, dry place.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Robomow RS630.

5.1 Mower Not Starting or Stopping Unexpectedly

- **Check Battery:** Ensure the battery is sufficiently charged. Allow the mower to fully charge at the base station.
- **Safety Key:** Verify the safety key is fully inserted.
- **Error Messages:** Check the mower's display or the My Robomow app for any error codes or messages. Refer to the full manual for specific error code explanations.
- **Perimeter Wire Signal:** Ensure the perimeter wire is intact and properly connected to the base station. A broken wire or signal interference can cause the mower to stop.

5.2 Poor Mowing Performance

- **Dull Blades:** Inspect and sharpen or replace the cutting blades.
- **Grass Height:** Ensure the grass is not excessively long. For very tall grass, it may be necessary to raise the cutting height or perform multiple mowing passes.
- **Mowing Schedule:** Adjust the mowing frequency and duration to match your lawn's growth rate.
- **Obstructions:** Clear any debris or obstacles from the mowing area that might impede the mower's movement.

5.3 Mower Not Returning to Base Station

- **Base Station Signal:** Confirm the base station is powered on and emitting a signal.
- **Perimeter Wire:** Check for breaks or disconnections in the perimeter wire, especially near the base station.
- **Obstacles:** Ensure the path to the base station is clear of obstructions.

5.4 App Connectivity Issues

- **Bluetooth Range:** Ensure your device is within Bluetooth range of the mower.
- **App Restart:** Close and restart the My Robomow app.
- **Device Bluetooth:** Toggle your device's Bluetooth off and on.
- **Mower Restart:** If issues persist, try restarting the mower by removing and reinserting the safety key.

6. SPECIFICATIONS

Feature	Specification
Brand	Robomow
Model Number	RS630
Power Source	Battery Powered (26V Lithium)
Material	Plastic
Color	Green
Recommended Lawn Size	Up to 3/4 acre (32,760 sq. ft)
Item Weight	87 Pounds
Cutting Width	22 Inches
Operation Mode	Automatic
Product Dimensions (L x W x H)	29 x 26 x 12 inches
Charging Time	90 - 110 min
Mowing Time	80 - 100 min
Max Incline	20 degrees
UPC	043033589531

7. WARRANTY AND SUPPORT

The Robomow RS630 is backed by a **1-year warranty** provided upon registration within 30 days from first use. For technical assistance, troubleshooting, or warranty claims, please contact Robomow Customer Support.

- Refer to the official Robomow website for the most up-to-date contact information and support resources.
- Have your model number (RS630) and purchase details ready when contacting support.

