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RYOBI RLM13E33S, RAC420

Ryobi Electric Lawnmower RLM13E33S & RAC420 Blade Pack User Manual

Model: RLM13E33S, RAC420

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Ryobi Electric Lawnmower RLM13E33S and the accompanying 33cm RAC420 blade. Please read this manual thoroughly before first use and keep it for future reference.

2. Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- **Read the Manual:** Familiarize yourself with all controls and proper use.
- **Wear Protective Gear:** Always wear safety glasses, sturdy footwear, and hearing protection.
- **Inspect Area:** Clear the area of objects that can be thrown by the blade.
- **Disconnect Power:** Always disconnect the power supply before cleaning, adjusting, or performing maintenance.
- **Avoid Wet Conditions:** Do not operate the lawnmower in wet grass or rain.
- **Maintain Control:** Always maintain a firm grip on the handles.

3. Package Contents

Ensure all items are present upon unpacking:

- Ryobi Electric Lawnmower RLM13E33S (1300W, 33cm cut)
- 33cm Lawnmower Blade RAC420
- 35L Semi-rigid Grass Catcher Bag
- Mulching Plug
- User Manual (this document)



Figure 1: Ryobi Electric Lawnmower RLM13E33S with the 33cm RAC420 blade. This image shows the complete product package, including the main lawnmower unit and the separate blade.

4. Setup

4.1 Handle Assembly

1. Unfold the handle assembly and secure it in place using the provided fasteners.
2. Adjust the handle height to one of the 3 available positions for comfortable operation.



Figure 2: Close-up view of the ergonomic handle with dual controls. This image highlights the comfortable grip and accessible controls for operating the lawnmower.

4.2 Grass Catcher Bag Assembly

1. Assemble the semi-rigid grass catcher bag according to the diagrams in the quick start guide (if provided).
2. Attach the assembled grass catcher bag to the rear of the lawnmower. Ensure it is securely latched.

4.3 Mulching Plug Installation (Optional)

To use the mulching function, remove the grass catcher bag and insert the mulching plug into the discharge chute until it clicks into place.

5. Operating Instructions

5.1 Before Starting

- Ensure the power cord is in good condition and properly connected to a suitable outdoor power outlet. (Extension cord not supplied)
- Adjust the cutting height using the centralized height adjustment lever. There are multiple positions to choose from to achieve your desired grass length.

5.2 Starting the Lawnmower

1. Press and hold the safety button.
2. Pull the bail lever towards the handle. The motor will start.
3. Release the safety button once the motor is running.

5.3 Mowing Techniques

- Mow in straight, overlapping lines for an even cut.
- Utilize the EasyEdge grass comb to guide grass towards the blade for precise cutting near borders and edges.
- The grass catcher bag features a mechanical fill indicator to show when it needs emptying.



Figure 3: A user operating the Ryobi electric lawnmower on a lawn. This image demonstrates the mower's maneuverability and ease of use in a typical garden setting.



Figure 4: A user mowing grass close to a building with the Ryobi electric lawnmower. This illustrates the mower's ability to cut precisely

along edges and obstacles.

6. Maintenance

6.1 Cleaning

- Always disconnect the power cord before cleaning.
- Clean the exterior of the mower with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Remove grass clippings from the underside of the deck and around the blade using a brush or scraper.

6.2 Blade Care

- Regularly inspect the blade for sharpness and damage. A dull blade can tear grass, leading to an unhealthy lawn.
- Replace the blade (RAC420) if it is bent, cracked, or excessively worn. Refer to the blade replacement instructions in the full manual (if available).



Figure 5: Front view of the Ryobi electric lawnmower, highlighting the cutting deck and wheels. This perspective is useful for understanding blade access for maintenance.

7. Troubleshooting

Problem	Possible Cause	Solution
Mower does not start	Power cord not connected; Safety switch not engaged; Circuit breaker tripped.	Check power connection; Ensure safety button and bail lever are fully engaged; Reset circuit breaker.
Poor cutting performance	Dull or damaged blade; Cutting height too low for grass type; Grass catcher bag full.	Sharpen or replace blade; Adjust cutting height; Empty grass catcher bag.
Excessive vibration	Bent or unbalanced blade; Loose fasteners.	Inspect and replace blade if necessary; Tighten all fasteners.

8. Specifications

Feature	Specification
Model	RLM13E33S

Feature	Specification
Power	1300 W
Cutting Width	33 cm
Drive Mechanism	Push
Mulching Function	Yes
Grass Catcher Capacity	35 L
Weight	9 kg
Blade Model	RAC420 (33 cm)
Sound Power Level (Lwa)	89.17 dB
Vibration Level	2.4 m/s²

9. Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official Ryobi website. For technical support or spare parts, contact Ryobi customer service. Please have your model number (RLM13E33S) and serial number ready when contacting support.
Manufacturer: Ryobi
Model Reference: 5133002343-5132002771

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