RYOBI P2312

RYOBI ONE+ HP 18V Brushless Edger User Manual

Model: P2312

Introduction

Thank you for choosing the RYOBI ONE+ HP 18V Brushless Edger. This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your new edger. The ONE+ HP Technology delivers enhanced power, runtime, and durability, making it ideal for maintaining clean edges along driveways, sidewalks, and flowerbeds. Please read this manual thoroughly before first use and keep it for future reference.





Figure 1: RYOBI ONE+ HP 18V Brushless Edger, showing the main unit with battery attached.

Safety Information

Always follow basic safety precautions when using this product to reduce the risk of fire, electric shock, and personal injury.

General Safety Rules

- **Read all instructions:** Familiarize yourself with the controls and proper use of the edger.
- **Wear appropriate personal protective equipment (PPE):** Always wear eye protection (safety glasses or goggles), hearing protection, and sturdy footwear. Long pants are recommended.
- **Keep bystanders away:** Do not allow children or untrained persons to operate the edger. Keep all bystanders, especially children and pets, at least 50 feet (15 meters) away from the operating area.
- **Inspect the work area:** Before starting, clear the area of objects such as rocks, broken glass, wire, or string that could be thrown by the blade.
- **Avoid dangerous environments:** Do not use the edger in damp or wet locations. Do not use in the rain.

- **Stay alert:** Watch what you are doing and use common sense. Do not operate the edger when you are tired, ill, or under the influence of drugs or alcohol.
- **Maintain proper footing and balance:** Do not overreach. Always keep proper footing and balance.
- **Disconnect battery:** Always remove the battery pack when not in use, before cleaning, making adjustments, or changing accessories.
- **Avoid accidental starting:** Ensure the switch is in the OFF position before inserting the battery pack.

Specific Edger Safety Warnings

- **Blade contact:** Keep hands and feet away from the blade. The blade continues to rotate for a short period after the edger is turned off.
- **Blade guard:** Never operate the edger without the blade guard properly installed.
- **Blade inspection:** Periodically inspect the blade for damage or wear. Replace worn or damaged blades immediately.
- **Secure the battery:** Ensure the battery pack is securely latched in place before operation.
- **Do not force the tool:** Allow the edger to work at its own pace. Forcing it can lead to injury or damage to the tool.

Package Contents

Verify that all items listed below are included in your package. If any parts are missing or damaged, contact customer service.

- P2302 18V ONE+ HP Brushless Edger
- PBP005 18V ONE+ 4Ah Lithium Battery
- PCG002 18V ONE+ Charger
- Blade Wrench
- Operator's Manuals

Setup

1. Assembly

1. Carefully remove all components from the packaging.
2. Attach the front handle to the shaft at a comfortable position for operation. Ensure it is securely tightened.
3. Ensure the blade guard is properly aligned and secured over the blade.

2. Charging the Battery

1. Connect the PCG002 18V ONE+ Charger to a standard electrical outlet.
2. Slide the PBP005 18V ONE+ 4Ah Lithium Battery onto the charger until it clicks into place.
3. Allow the battery to charge fully. The indicator light on the charger will signal when charging is complete.
4. Once charged, remove the battery from the charger.

3. Installing the Battery

1. Ensure the edger's power switch is in the OFF position.
2. Align the battery pack with the battery port on the edger handle.
3. Slide the battery pack into the port until it clicks securely into place.

4. Adjusting Edging Depth

The edger features an adjustable depth setting for its 8-inch steel blade, ranging from 0.5 inches to 2.25 inches.

1. Locate the depth adjustment mechanism near the blade.
2. Adjust the depth according to your desired cut. A shallower cut is suitable for light edging, while a deeper cut is for overgrown areas.
3. Utilize the blade indicator for precise depth alignment.



Figure 2: Close-up view of the edger's brushless motor housing and the 5-inch rear wheel, which aids in consistent edging.

Operating Instructions

1. Starting the Edger

1. Ensure the battery is fully charged and securely installed.
2. Hold the edger firmly with both hands, maintaining proper balance.
3. Press the safety lock-out button (if present) and then squeeze the variable speed trigger to start the edger.

2. Edging Technique

For best results, maintain a steady pace and allow the blade to do the work.

- Position the edger so the blade is aligned with the edge of the driveway, sidewalk, or flowerbed.
- Slowly push the edger forward, guiding it along the desired line. The 5-inch rear wheel helps maintain a consistent depth.
- The variable speed trigger allows for ultimate control over the blade speed, adapting to different grass densities and edging needs.
- For accurate edging, keep the blade indicator aligned with the edge you are following.



Figure 3: User operating the RYOBI edger, demonstrating the comfortable front handle and variable speed trigger for increased control.

3. Stopping the Edger

Release the variable speed trigger to stop the edger. The blade will continue to spin for a few seconds before coming to a complete stop. Always wait for the blade to stop before setting the tool down.

Maintenance

1. Cleaning

- Always remove the battery pack before cleaning.
- Use a clean, damp cloth to wipe down the exterior of the edger.
- Remove any grass clippings, dirt, or debris from the blade guard and around the blade. Do not use solvents or harsh chemicals.

2. Blade Inspection and Replacement

Regularly inspect the 8-inch steel edging blade for signs of wear, cracks, or damage. A dull or damaged blade can reduce performance and increase the risk of injury.

1. **Remove Battery:** Ensure the battery pack is removed from the edger.
2. **Secure Blade:** Use the spindle lock to hold the blade in place.
3. **Remove Blade:** Using the provided blade wrench, loosen and remove the blade nut. Carefully remove the old blade.
4. **Install New Blade:** Place the new blade onto the spindle, ensuring it is correctly oriented.
5. **Tighten Nut:** Reinstall the blade nut and tighten it securely with the blade wrench.



Figure 4: Detailed view of the 8-inch steel edging blade, highlighting the spindle lock mechanism for quick and convenient blade changes.

3. Storage

- Store the edger in a dry, well-ventilated area, out of reach of children.
- Remove the battery pack before storing for extended periods.
- Protect the blade from corrosion by lightly oiling it if storing in a humid environment.

Troubleshooting

This section provides solutions to common problems you might encounter. If the issue persists, contact customer support.

Problem	Possible Cause	Solution
Edger does not start.	Battery not charged or not properly installed. Safety lock-out not engaged. Blade is jammed or touching an object.	Ensure battery is fully charged and securely clicked into place. Press the safety lock-out button before squeezing the trigger. Clear any obstructions from the blade area. Ensure blade is not touching ground or object when starting.
Reduced cutting performance.	Dull or damaged blade. Excessive debris around blade. Incorrect edging depth.	Inspect and replace the blade if necessary. Clean the blade and blade guard. Adjust the edging depth for optimal performance.
Motor stops during operation.	Overload protection activated. Battery charge low.	Reduce pressure on the edger. Allow the tool to cool down. Recharge or replace the battery.

Specifications

Feature	Detail
Model Number	P2312
Power Source	18V ONE+ HP Lithium-Ion Battery
Blade Diameter	8 inches (Steel)
Edging Depth	0.5 inches to 2.25 inches (Adjustable)
Rear Wheel Size	5 inches
Item Weight	7 pounds
Package Dimensions	35.5 x 13 x 10.5 inches
Manufacturer	RYOBI

Warranty and Support

RYOBI products are manufactured to high quality standards and are backed by a limited warranty. For specific warranty details, please refer to the warranty card included with your product or visit the official RYOBI website.

Customer Support

If you have any questions about the operation, maintenance, or troubleshooting of your RYOBI ONE+ HP 18V Brushless Edger, please contact RYOBI customer support.

Website: www.ryobitools.com

Phone: Refer to your product registration or the RYOBI website for regional contact numbers.

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