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RYOBI P1109BTL

RYOBI ONE+ HP 18V Brushless 16 in. Cordless Battery Walk Behind Push Lawn Mower

Model: P1109BTL | Brand: RYOBI

Important Safety Information

Always read and understand all instructions before operating this product. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

- **Eye Protection:** Always wear eye protection with side shields marked to comply with ANSI Z87.1.
- **Hearing Protection:** Wear hearing protection during operation.
- **Foot Protection:** Wear sturdy, non-slip footwear.
- **Clear Area:** Keep children, bystanders, and pets at least 50 feet away from the operating area.
- **Inspect Before Use:** Before each use, inspect the mower for loose parts, damage, or wear. Do not operate if damaged.
- **Battery Safety:** Use only RYOBI 18V ONE+ batteries and chargers. Do not expose batteries to water or extreme temperatures.
- **Blade Safety:** Disconnect the battery before performing any maintenance, cleaning, or clearing debris from the mower deck. Never place hands or feet near the rotating blade.
- **Slope Operation:** Mow across the face of slopes, never up and down. Exercise extreme caution when changing direction on slopes.

Product Overview

The RYOBI 18V ONE+ HP Cordless 16 in. Brushless Mower is designed for efficient lawn care, offering a convenient, battery-powered solution. It features a brushless motor for enhanced power and runtime, and a lightweight design for easy maneuverability and storage.



Figure 1: Front-side view of the RYOBI 18V ONE+ HP 16 in. Cordless Battery Walk Behind Push Lawn Mower, highlighting its compact design and battery compartment.



Figure 2: Front view of the RYOBI 18V ONE+ HP 16 in. Cordless Battery Walk Behind Push Lawn Mower, showing the blade housing and wheel design.

Key Features:

- High Performance Brushless Motor for Increased Power and Efficiency
- Easy Lift Bag Removal for convenient grass disposal
- Lightweight and Compact Design for easy handling
- Folding Handles for vertical, compact storage
- 2-in-1 Mulching and Bagging Functions
- Single Point Height Adjustment for quick cutting height changes

Assembly and Setup

Before operating your new RYOBI lawn mower, follow these steps for proper assembly and initial setup.

Handle Assembly:

1. Unfold the lower handle section until it locks into place.
2. Attach the upper handle section to the lower handle using the provided knobs and bolts. Ensure all connections are secure.
3. Adjust the handle height to a comfortable operating position, if applicable, and secure it.

Grass Bag Assembly (if applicable):

1. Assemble the grass bag frame and fabric according to the instructions in the separate grass bag manual.
2. Lift the rear discharge flap and hook the grass bag onto the mower's rear discharge opening. Ensure it is securely seated.

Battery Installation:

1. Ensure the mower is turned off and the key (if present) is removed.
2. Open the battery compartment cover, typically located on top of the mower deck.
3. Insert a fully charged RYOBI 18V ONE+ battery into the battery port, ensuring it clicks firmly into place.
4. Close the battery compartment cover securely.

Operating Instructions

Follow these steps to safely operate your RYOBI cordless lawn mower.

Starting the Mower:

1. Ensure a fully charged battery is installed and the battery compartment cover is closed.
2. Insert the safety key (if provided) into its slot.
3. Press and hold the start button, then pull the bail switch lever towards the handle. The motor will start.
4. Release the start button once the motor is running.

Stopping the Mower:

- Release the bail switch lever. The motor will stop, and the blade will cease rotation.
- For extended stops or maintenance, remove the safety key and the battery.

Adjusting Cutting Height:

The mower features a single point height adjustment lever, typically located near one of the rear wheels.

1. Ensure the mower is off and the blade has stopped rotating.
2. Pull the height adjustment lever outwards and move it to the desired cutting height setting.
3. Release the lever to lock it into position. Ensure all four wheels are at the same height setting.

Mulching and Bagging:

- **Bagging:** Attach the grass bag as described in the Assembly section. The mower will collect grass clippings in the bag. Empty the bag frequently for optimal performance.
- **Mulching:** Remove the grass bag and ensure the mulching plug (if included) is securely inserted into the rear discharge opening. The mower will finely cut and redistribute grass clippings back onto the lawn.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your RYOBI lawn mower. Always disconnect the battery before performing any maintenance.

- **Cleaning:** After each use, clean the mower deck, wheels, and exterior with a damp cloth. Remove any grass clippings or debris from the underside of the deck to prevent buildup. Do not use water hoses or pressure washers directly on the motor or electrical components.
- **Blade Care:** Periodically inspect the blade for sharpness and damage. A dull or damaged blade can lead to poor cutting performance and excessive battery drain. Sharpen or replace the blade as needed. Refer to the blade replacement instructions in the full manual or consult a qualified service technician.
- **Storage:** Store the mower in a dry, well-ventilated area, away from direct sunlight and extreme temperatures. The folding handles allow for compact, vertical storage. Remove the battery before storing for extended periods.
- **Battery Storage:** Store batteries in a cool, dry place, away from moisture and heat. For long-term storage, charge batteries to approximately 50% capacity.

Troubleshooting

This section addresses common issues you might encounter with your lawn mower.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Mower does not start	• Battery not fully charged or improperly installed. • Safety key not inserted. • Bail switch not engaged. • Overload protection activated.	• Ensure battery is fully charged and properly seated. • Insert the safety key completely. • Pull the bail switch lever towards the handle while pressing the start button. • Allow the mower to cool down if it has been overloaded.
Short runtime / Battery drains quickly	• Battery not fully charged. • Mowing tall or wet grass. • Dull or damaged blade. • Battery is old or worn out.	• Fully charge the battery before use. • Avoid mowing excessively tall or wet grass. Raise cutting height if necessary. • Sharpen or replace the blade. • Consider replacing the battery if it no longer holds a charge.
Uneven cut	• Dull or bent blade. • Wheels not set to the same cutting height. • Mower deck clogged with grass.	• Inspect and replace or sharpen the blade. • Ensure all wheels are set to the same cutting height. • Clean the underside of the mower deck.
Excessive vibration	• Bent or unbalanced blade. • Loose components.	• Inspect the blade for damage; replace if bent or unbalanced. • Check all fasteners and tighten any loose components.

Specifications

- **Brand:** RYOBI
- **Model:** P1109BTL
- **Power Source:** Battery Powered (RYOBI 18V ONE+ System)
- **Cutting Width:** 16 Inches
- **Operation Mode:** Manual Push
- **Item Weight:** Approximately 36 Pounds
- **Minimum Adjustable Cutting Height:** 1.5 Centimeters
- **Maximum Adjustable Cutting Height:** 10.16 Centimeters
- **UPC:** 046396034977
- **Color:** Black, Green

Warranty and Support

This RYOBI 18V ONE+ HP Cordless 16 in. Brushless Mower is backed by a**3-year warranty** from the date of purchase. This warranty covers defects in material and workmanship under normal use.
For warranty claims, technical support, or to purchase replacement parts, please contact RYOBI customer service. Keep your proof of purchase for warranty validation.
For more information, visit the official RYOBI website or contact their customer support line.

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