RYOBI #RY401210

RYOBI 40V HP BRUSHLESS WHISPER SERIES SELF-PROPELLED 21" LAWN MOWER

Model: #RY401210
Brand: RYOBI

Introduction

Thank you for choosing the RYOBI 40V HP Brushless 21" Whisper Series Self-Propelled Lawn Mower. This manual provides important information for the safe operation, assembly, maintenance, and troubleshooting of your new lawn mower. Please read this manual thoroughly before operating the product and keep it for future reference.
This mower combines the power of gas with the convenience of cordless operation, featuring a premium HP brushless motor for extended runtime and motor life. Its all-wheel drive and SMART TREK technology adapt to your pace, making lawn care efficient and effortless.



Image: The RYOBI 40V HP Brushless 21" Self-Propelled Lawn Mower, showcasing its black and lime green design, large rear wheels, and

ergonomic handle.

Safety Information

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

- Read all instructions before operating the appliance.
- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and sturdy footwear.
- Keep children and bystanders away from the operating area.
- Do not operate the mower in wet conditions or rain.
- Inspect the area to be mowed and remove any objects that could be thrown by the blades.
- Ensure the battery is removed before performing any maintenance or cleaning.
- Use only RYOBI recommended batteries and chargers.

Package Contents

Verify that all items are included in your package:

- (1) RY401012 - 40V HP Brushless WHISPER SERIES Self-Propelled 21" Lawn Mower
- (2) OP40604 - 40V 6Ah Battery
- (1) OP406A - 40V Rapid Charger
- Mulch Plug (integrated)
- Side Discharge Chute
- Grass Bag
- Operator's Manual

Setup

1. Handle Assembly

The ONE-Touch aluminum handles are designed for easy folding and compact storage. To set up for operation, unfold the handles until they lock securely into place. Ensure all locking mechanisms are engaged before use.

2. Battery Charging and Installation

1. **Charge Batteries:** Connect the 40V Rapid Charger (OP406A) to a power outlet. Insert the 40V 6Ah batteries (OP40604) into the charger. The rapid charger charges batteries up to 4 times faster than standard chargers. Allow batteries to fully charge before first use.
2. **Install Batteries:** Locate the dual active battery ports on the mower. Insert the charged batteries firmly into the ports

until they click into place. The mower is designed to draw power from both batteries for extended runtime.

3. Mowing Function Setup (Bagging, Mulching, Side Discharge)

- **Mulching:** The integrated mulch plug allows switching to mulching by pulling a lever. Ensure the grass bag is removed and the side discharge chute is closed.
- **Bagging:** Attach the grass bag securely to the rear discharge opening. Ensure the mulch plug is disengaged.
- **Side Discharge:** Attach the side discharge chute to the side opening. Ensure the grass bag is removed and the mulch plug is disengaged.

Operating Instructions

1. Starting the Mower

The mower features a push-button start for hassle-free operation.

1. Ensure batteries are installed and fully charged.
2. Press and hold the safety button on the handle.
3. While holding the safety button, pull the bail lever towards the handle. The mower will start.
4. Release the safety button once the mower is running.

2. Adjusting Cutting Height

The 21" deck features a 7-position single point height adjustment.

- Locate the height adjustment lever on the mower deck.
- Pull the lever outwards and move it to the desired position. The cutting height can be adjusted between 1 and 4 inches.
- Release the lever to lock it into place. Ensure all wheels are at the same height setting.

3. Using Self-Propelled Feature (SMART TREK Technology)

The SMART TREK technology matches the mower's speed to your pace.

- With the mower running, engage the self-propel lever on the handle.
- The mower will automatically adjust its speed based on your walking pace.
- Release the lever to disengage the self-propel function.

4. Mowing Tips

- For best results, avoid cutting more than one-third of the grass blade length at a time.
- Overlap cutting swaths slightly to ensure even coverage.
- Check the on-board fuel gauge regularly to monitor battery life.
- When bagging, empty the grass bag frequently for optimal performance. The easy lift bag removal system simplifies this process.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your lawn mower.

1. Cleaning

- Always remove batteries before cleaning.
- Clean the mower deck after each use to prevent grass buildup. Use a damp cloth or soft brush. Do not use a pressure washer or hose directly on electrical components.
- Wipe down the exterior surfaces with a clean, damp cloth.

2. Blade Care

The CROSS CUT Multi blade System offers two blades for superior cutting performance. Inspect blades regularly for sharpness and damage.

- **Blade Inspection:** Check blades for nicks, bends, or excessive wear. Dull blades can tear grass, leading to an unhealthy lawn.
- **Blade Sharpening/Replacement:** If blades are dull or damaged, have them sharpened or replaced by a qualified service technician. Always use genuine RYOBI replacement parts.

3. Storage

- Remove batteries from the mower before storing.
- Clean the mower thoroughly.
- The ONE-Touch aluminum handles fold for compact, vertical storage, saving space in your garage or shed.
- Store the mower in a dry, secure location, away from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Mower does not start	Batteries not charged or improperly installed. Safety button/bail lever not engaged correctly.	Ensure batteries are fully charged and securely inserted. Confirm safety button is pressed before pulling bail lever.
Reduced cutting performance	Dull or damaged blades. Grass buildup under deck.	Inspect and sharpen/replace blades. Clean the underside of the mower deck.
Mower stops during operation	Battery charge low. Overload protection activated.	Check battery gauge and recharge if necessary. Reduce load by raising cutting height or mowing smaller sections.
Self-propel not engaging	Self-propel lever not fully engaged.	Ensure the self-propel lever is pulled completely towards the handle.

Specifications

Model Number	#RY401210
Power Source	Battery Powered (40V)
Cutting Width	21 Inches
Cutting Height Adjustment	7 Positions (1 to 4 Inches)
Mowing Functions	Bagging, Mulching, Side Discharge
Weight	77 Pounds
Deck Material	Polymer Composite
Wheel Size	11" High Wheel
UPC	046396040244

Warranty and Support

The RYOBI 40V HP Brushless 21" Whisper Series Self-Propelled Lawn Mower is backed by a 5-Year Tool Warranty. The 21" deck is covered by a limited lifetime warranty.
For warranty claims, technical support, or to purchase replacement parts, please contact RYOBI Customer Service:

- **Website:** www.ryobitools.com
- **Phone:** Refer to the RYOBI website or your product registration card for the most current contact number.

Please have your model number (#RY401210) and serial number (if applicable) ready when contacting support.

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Example: How do I reset this device or fix this error?

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