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RYOBI RY40LM10-Y

RYOBI RY40LM10-Y 21 in. 40-Volt Brushless Lithium-Ion Cordless Smart Trek Self-Propelled Walk Behind Mower

Model: RY40LM10-Y

1. Introduction and Overview

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your RYOBI RY40LM10-Y 21-inch 40-Volt Brushless Lithium-Ion Cordless Smart Trek Self-Propelled Walk Behind Mower. This mower is designed for residential lawn care, offering cordless convenience and self-propelled functionality for ease of use.
Please read this manual thoroughly before operating the mower to ensure proper use and to prevent injury or damage.

2. Safety Information

Always prioritize safety when operating power equipment. Failure to follow safety instructions can result in serious injury or property damage.

- **Read the Manual:** Understand all instructions and warnings before operation.
- **Personal Protective Equipment (PPE):** Always wear eye protection, hearing protection, long pants, and sturdy, non-slip footwear.
- **Clear the Area:** Before mowing, remove all objects such as rocks, sticks, wires, and toys from the lawn.
- **Keep Bystanders Away:** Ensure children, pets, and other people are at a safe distance (at least 50 feet) from the mowing area.
- **Slope Operation:** Exercise extreme caution when mowing on slopes. Mow across the face of slopes, never up and down. Avoid mowing excessively steep slopes.
- **Blade Safety:** Keep hands and feet away from rotating parts. Do not attempt to clear the discharge chute or remove grass catcher while the motor is running.
- **Battery Safety:** Use only the specified battery and charger. Do not expose batteries to water or extreme temperatures.
- **Maintenance:** Disconnect the battery before performing any maintenance, cleaning, or when clearing a clogged

chute.

3. Components and Features

Familiarize yourself with the main components of your RYOBI lawn mower:



Figure 3.1: The RYOBI RY40LM10-Y 21-inch 40-Volt Brushless Lithium-Ion Cordless Smart Trek Self-Propelled Walk Behind Mower, shown with its included 6.0Ah battery and charger.

- **Handle Assembly:** Ergonomic handle for comfortable operation, featuring controls for starting and self-propel. The handle can be folded for compact storage.
- **40-Volt Battery:** Provides cordless power to the mower. The 6.0Ah battery offers extended runtime.

- **Charger:** Used to recharge the 40-Volt Lithium-Ion battery.
- **Brushless Motor:** Delivers efficient power and longer motor life.
- **21-inch Cutting Deck:** Wide cutting path for efficient mowing.
- **Smart Trek Self-Propelled System:** Automatically adjusts to your walking speed for effortless mowing.
- **Cutting Height Adjustment:** Single-point lever to easily adjust cutting height across 7 positions (1 to 4 inches).
- **Grass Bag:** Collects grass clippings for a clean finish.
- **Mulching Plug (if included):** Allows for mulching of grass clippings back into the lawn.
- **Side Discharge Chute (if included):** Directs clippings out the side of the mower.



Figure 3.2: A front view of the RYOBI mower, highlighting the 21-inch cutting deck and front wheel design.



Figure 3.3: The RYOBI mower being operated on a lawn, demonstrating its walk-behind functionality.



Figure 3.4: A side view of the RYOBI mower, showing the handle assembly and wheel structure.



Figure 3.5: The RYOBI mower in its folded position, illustrating its compact design for storage.

4. Setup

4.1 Unpacking

Carefully remove all contents from the packaging. Inspect for any damage. Retain packaging for future storage or transport if needed.

4.2 Handle Assembly

1. Unfold the handle assembly from its storage position.
2. Secure the handle in the operating position using the quick-release levers or knobs provided. Ensure both sides are securely locked.
3. Adjust the handle height if your model features this option, securing it at a comfortable level for operation.

4.3 Battery Installation and Charging

1. Before first use, fully charge the 40-Volt Lithium-Ion battery using the supplied charger. Refer to the charger's instruction manual for specific charging procedures.
2. Once charged, open the battery compartment cover on the mower.
3. Slide the battery into the battery port until it clicks securely into place.
4. Close the battery compartment cover.

4.4 Grass Bag / Mulching Plug / Side Discharge Installation

- **For Bagging:** Lift the rear discharge door and hook the grass bag onto the mower.
- **For Mulching:** Insert the mulching plug firmly into the rear discharge opening.
- **For Side Discharge:** Lift the side discharge cover and slide the side discharge chute into place.
- *Note: Do not operate the mower without either the grass bag, mulching plug, or side discharge chute properly installed.*

5. Operating Instructions

5.1 Adjusting Cutting Height

The mower features a single-point height adjustment lever. To adjust the cutting height:

1. Ensure the mower is off and the battery is removed.
2. Locate the height adjustment lever on the side of the mower.
3. Pull the lever outwards and move it forward or backward to select one of the 7 available cutting height positions (from 1 inch to 4 inches).
4. Release the lever to lock it into the desired position.

5.2 Starting the Mower

1. Ensure the battery is fully charged and properly installed.
2. Stand behind the mower.
3. Press and hold the safety button (usually located on the handle).
4. While holding the safety button, pull the bail lever towards the handle. The mower will start.
5. Release the safety button once the mower is running.

5.3 Engaging Self-Propel (Smart Trek)

The Smart Trek system allows the mower to match your walking speed.

1. With the mower running, engage the self-propel lever (typically a second bail lever on the handle).
2. The mower will begin to move. Adjust your walking speed, and the mower will automatically adapt.
3. To disengage self-propel, release the self-propel lever.

5.4 Stopping the Mower

To stop the mower, simply release the bail lever. The blade will stop rotating, and the motor will shut off.

6. Maintenance

Regular maintenance ensures optimal performance and extends the life of your mower. Always disconnect the battery before performing any maintenance.

- **Cleaning:** After each use, clean the underside of the cutting deck to prevent grass buildup. Use a brush or cloth; avoid using water directly on electrical components.
- **Blade Inspection:** Regularly inspect the blade for sharpness and damage. A dull or damaged blade can lead to poor cutting performance and excessive vibration. Replace or sharpen the blade as needed.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully discharged batteries for extended periods. Charge them periodically if not in use.
- **Storage:** For long-term storage, clean the mower thoroughly, remove the battery, and store it in a dry, protected area. The handle can be folded for compact storage.

7. Troubleshooting

Problem	Possible Cause	Solution
Mower does not start	Battery not charged or improperly installed. Safety button/bail lever not engaged.	Ensure battery is fully charged and seated correctly. Fully engage safety button and bail lever.
Poor cutting performance	Dull or damaged blade. Cutting height too low for grass conditions. Grass buildup under deck.	Sharpen or replace blade. Raise cutting height. Clean underside of deck.
Excessive vibration	Bent or unbalanced blade. Loose blade bolt.	Inspect blade for damage; replace if bent. Tighten blade bolt securely.
Self-propel not engaging	Self-propel lever not fully engaged. Obstruction in drive system.	Ensure lever is fully pulled. Check for debris around wheels or drive components.

If problems persist after attempting these solutions, contact RYOBI customer support or an authorized service center.

8. Specifications

Brand: RYOBI

Model: RY40LM10-Y

Power Source: 40-Volt Lithium-Ion Battery

Cutting Width: 21 Inches

Cutting Height Positions: 7 (1 to 4 Inches)

Operation Mode: Automatic (Smart Trek Self-Propelled)

Material: Alloy Steel

Item Weight: 79 Pounds

UPC: 046396026958

9. Warranty and Support

Your RYOBI RY40LM10-Y mower is covered by a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms, conditions, and registration information.
For technical assistance, replacement parts, or warranty claims, please contact RYOBI customer support. Contact information can typically be found on the product packaging, the RYOBI website, or your purchase receipt.

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