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› Ryobi RY40180 40V Brushless Lithium-Ion Cordless Electric Mower Kit User Manual

RYOBI RY40180

Ryobi RY40180 40V Brushless Lithium-Ion Cordless Electric Mower Kit User Manual

Model: RY40180

1. INTRODUCTION

This manual provides essential instructions for the safe operation, assembly, maintenance, and troubleshooting of your Ryobi RY40180 40V Brushless Lithium-Ion Cordless Electric Mower Kit. Please read this manual thoroughly before operating the mower to ensure proper use and to prevent injury or damage.

The Ryobi RY40180 is a 20-inch 40-Volt brushless electric mower designed for efficient lawn care. It features an intelligent brushless motor with load-sensing technology, which adjusts power output based on grass conditions. The mower offers mulching and bagging options, a push-button start, and a 7-position single-point height adjustment. For convenient storage, the telescoping handle includes quick-release knobs, allowing the mower to be stored vertically. It also includes high-intensity LED headlights for visibility and operates quietly.

2. SAFETY INFORMATION

Always observe basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

- **Read All Instructions:** Familiarize yourself with the controls and proper use of the mower.
- **Personal Protective Equipment:** Always wear eye protection, long pants, and sturdy footwear when operating the mower. Hearing protection is recommended.
- **Clear the Area:** Before mowing, clear the area of objects such as rocks, toys, wires, or other debris that could be thrown by the blade.
- **Keep Bystanders Away:** Do not allow children or bystanders near the mower during operation.
- **Avoid Wet Grass:** Do not operate the mower in wet grass, as this can cause slipping and reduce cutting efficiency.
- **Maintain a Safe Distance:** Keep hands and feet away from the cutting area and discharge opening.
- **Battery Safety:** Use only the specified battery and charger. Do not expose batteries to water or extreme temperatures.
- **Inspect Before Use:** Before each use, inspect the mower for damaged parts, loose fasteners, or worn

blades.

- **Disconnect Power:** Always remove the battery pack before cleaning, performing maintenance, or when leaving the mower unattended.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- Ryobi RY40180 40V Brushless Electric Mower Unit
- 40V Lithium-Ion High Capacity Battery (5.0 Ah)
- Battery Charger
- Grass Bag Assembly
- Operator's Manual

4. SETUP

4.1 Handle Assembly

The mower features a telescoping handle for adjustable height and compact storage. To assemble, unfold the handle until it locks into position. Use the quick-release knobs to secure the handle at your desired operating height.

4.2 Battery Installation

1. Open the battery compartment cover, typically located on the top of the mower deck.
2. Align the battery pack with the battery port in the compartment.
3. Slide the battery into the port until it clicks securely into place.
4. Close the battery compartment cover.



Image: The Ryobi RY40180 electric mower with its battery compartment open, showing the slot for battery insertion. The 40V Lithium-Ion battery is visible inside the compartment.

4.3 Grass Bag Attachment

For bagging clippings, lift the rear discharge door and hook the grass bag onto the mower's frame. Ensure it is securely attached to prevent clippings from escaping. For mulching, remove the grass bag and ensure the mulching plug (if included separately) is installed.

4.4 Cutting Height Adjustment

The mower features a 7-position single-point height adjustment lever. Locate the lever on the side of the mower deck. Pull the lever outwards and move it forward or backward to select the desired cutting height. Release the lever to lock it into position.

5. OPERATING INSTRUCTIONS

5.1 Starting the Mower

1. Ensure the battery is fully charged and properly installed.
2. Press and hold the safety button, then pull the bail switch lever towards the handle. The mower will start.
3. Release the safety button once the mower is running.

5.2 Mowing Techniques

For optimal results, mow in straight, overlapping lines. Avoid cutting more than one-third of the grass blade length at a time. The load-sensing technology will automatically adjust motor speed for consistent cutting performance. For areas with thicker grass, a slower pace may be beneficial.



Image: A side view of the Ryobi RY40180 electric mower, showing the grass bag attached to the rear discharge chute, ready for collecting clippings.

5.3 Using LED Headlights

The mower is equipped with high-intensity LED headlights for improved visibility in low-light conditions. These lights activate automatically or can be manually controlled depending on the model variant. Refer to the specific controls on your unit for activation.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your mower. Always remove the battery before performing any maintenance.

6.1 Cleaning

- After each use, clean the mower deck and exterior with a damp cloth.
- Remove any grass clippings or debris from the underside of the deck to prevent buildup and ensure proper cutting.
- Do not use water hoses or high-pressure washers directly on the mower, as this can damage electrical components.

6.2 Blade Care

Periodically inspect the cutting blade for sharpness and damage. A dull or damaged blade can lead to an uneven cut and increased battery drain. If necessary, have the blade sharpened or replaced by a qualified service technician. Always wear heavy gloves when handling the blade.

6.3 Battery and Charger Care

- Store batteries in a cool, dry place away from direct sunlight and moisture.
- Charge batteries fully before storage and periodically during extended storage periods to maintain battery health.
- Use only the Ryobi-approved charger for your 40V battery.

6.4 Storage

For compact storage, the telescoping handle can be folded down using the quick-release knobs. The mower is designed to be stored vertically, saving floor space. Ensure the mower is clean and dry before storing.



Image: The Ryobi RY40180 electric mower shown in its vertical storage position, demonstrating its space-saving design with the handle folded.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Mower does not start	Battery not installed correctly Battery discharged Safety button/bail switch not engaged	Ensure battery is fully seated Charge battery fully Engage safety button then pull bail switch
Reduced run time	Battery not fully charged Mowing thick or wet grass Blade dull or damaged	Charge battery completely Mow at a slower pace or raise cutting height Inspect and sharpen/replace blade
Uneven cut	Dull or bent blade Cutting height set too low Mower wheels not level	Inspect and sharpen/replace blade Adjust cutting height Check for damaged wheels or axles
Excessive vibration	Bent or unbalanced blade Loose fasteners	Inspect and replace blade Check and tighten all fasteners

8. SPECIFICATIONS

Key technical specifications for the Ryobi RY40180 mower:

- **Model Number:** RY40180
- **Power Source:** 40V Lithium-Ion Battery
- **Battery Type:** 5.0 Ah Lithium-Ion (included)
- **Cutting Width:** 20 Inches
- **Item Weight:** 45 Pounds
- **Product Dimensions (LxWxH):** 40.75"D x 19.88"W x 22.68"H (Operating)
59 x 21.5 x 39 inches (Shipping)
- **Material:** Plastic
- **Color:** Yellow
- **Operation Mode:** Automatic (Load-Sensing)
- **UPC:** 046396014658

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The Ryobi RY40180 40V Brushless Lithium-Ion Cordless Electric Mower Kit is covered by a **5-year warranty**. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or visit the official Ryobi website.

9.2 Customer Support

For technical assistance, replacement parts, or warranty service, please contact Ryobi customer support. Contact information can typically be found on the product packaging, the official Ryobi website, or in the warranty documentation.

