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> CUSHYBITE RY401180 40V HP Brushless 20-inch Cordless Electric Self-Propelled Lawn Mower User Manual

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Model: RY401180

1. IMPORTANT SAFETY INSTRUCTIONS

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

- **Personal Safety:** Always wear appropriate personal protective equipment, including eye protection, long pants, and sturdy footwear. Do not operate the mower barefoot or in open-toed sandals.
- **Work Area Safety:** Keep the work area clean and well-lit. Do not operate the mower in wet conditions or on steep slopes where you might lose your footing. Keep children, bystanders, and pets away from the mowing area.
- **Electrical Safety:** Disconnect the battery pack from the mower before making any adjustments, changing accessories, or storing the appliance. Avoid accidental starting.
- **Mower Operation:** Never place hands or feet near or under rotating parts. Always ensure the discharge chute is clear before starting. Do not operate the mower without the grass catcher or discharge guard in place.
- **Battery Care:** Use only the specified battery pack and charger. Do not charge the battery in damp or wet locations. Do not incinerate the battery pack even if it is severely damaged.

2. PRODUCT OVERVIEW

The CUSHYBITE RY401180 is a 40V HP Brushless 20-inch Cordless Electric Self-Propelled Lawn Mower designed for efficient lawn care. It combines powerful performance with the convenience of cordless operation, featuring a robust brushless motor and a 40V battery system.

Key features include:

- **High-Performance Brushless Motor:** Delivers gas-like power for effective cutting.
- **20-inch Steel Deck:** Durable cutting deck for a wide path.
- **3-in-1 Mowing System:** Offers mulching, bagging, and side discharge capabilities.

- **Self-Propelled Rear-Wheel Drive:** Reduces effort during operation.
- **Load-Sensing Technology:** Automatically adjusts power based on grass thickness.
- **6.0 Ah Battery and Rapid Charger:** Provides extended runtime and quick recharging.



Image 1: The CUSHYBITE RY401180 lawn mower, accompanied by its 40V 6.0 Ah battery and rapid charger.

3. SETUP AND ASSEMBLY

Before first use, some assembly is required. Ensure all components are present and undamaged.

3.1 Handle Assembly

1. Unfold the upper handle and lower handle sections.
2. Align the holes and secure the handle sections using the provided knobs and bolts. Ensure the cables are not pinched.
3. Adjust the handle height to a comfortable operating position if applicable, and lock it in place.

3.2 Battery Charging and Installation

1. Insert the 40V 6.0 Ah battery into the rapid charger. Plug the charger into a standard electrical outlet.
2. Allow the battery to fully charge before first use. The indicator lights on the charger will show the charging status.
3. Once charged, remove the battery from the charger. Open the battery compartment cover on the mower.
4. Slide the charged battery pack into the battery port until it clicks securely into place. Close the battery compartment cover.

3.3 Grass Catcher / Mulch Plug / Side Discharge Chute Installation

1. **For Bagging:** Lift the rear discharge door and hook the grass catcher onto the mower frame.
2. **For Mulching:** Ensure the mulch plug is securely inserted into the rear discharge opening.
3. **For Side Discharge:** Lift the side discharge cover and slide the side discharge chute into the opening.

3.4 Cutting Height Adjustment

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 deck.
3. Pull the lever outwards and move it forward or backward to select the desired cutting height. Refer to the height indicators on the deck.
4. Release the lever to lock it into position. Ensure all wheels are at the same height setting.



Image 2: Detail of the single-point height adjustment lever, allowing easy modification of cutting height.

4. OPERATION

Follow these steps for safe and effective operation of your lawn mower.

4.1 Starting the Mower

1. Ensure the battery is fully charged and securely installed.
2. Stand behind the mower, grasp the handle firmly.
3. Press and hold the safety button (if present).
4. While holding the safety button, pull the bail lever towards the handle. The motor will start. Release the safety button once the motor is running.

4.2 Engaging Self-Propel

To engage the self-propelled function:

1. With the mower running, engage the self-propel lever (usually located on the handle).
2. The mower will begin to move forward. Adjust your walking speed to match the mower's pace.

4.3 Mowing Techniques

- **Overlap Passes:** For an even cut, overlap each mowing pass by a few inches.
- **Avoid Overloading:** Do not attempt to cut excessively tall or wet grass, as this can strain the motor and reduce battery life.
- **Mulching:** For best mulching results, cut only a small amount of grass at a time and mow frequently.
- **Bagging:** Empty the grass catcher frequently to maintain optimal bagging performance and prevent clogging.



Image 3: A user demonstrating the mower in action, highlighting its runtime of up to 45 minutes for areas up to 1/2 acre.

4.4 Stopping the Mower

To stop the mower, release the bail lever. The motor and blade will stop rotating. Always remove the battery pack when leaving the mower unattended or before performing any maintenance.

5. MAINTENANCE

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

5.1 Cleaning

- After each use, remove the battery pack and clean the underside of the mower deck to prevent grass buildup. Use a stiff brush or scraper.
- Wipe down the exterior surfaces with a damp cloth. Do not use water hoses or pressure washers directly on the mower.

5.2 Blade Care

- Inspect the blade regularly for sharpness and damage. A dull or damaged blade can lead to poor cutting performance and excessive vibration.
- If the blade is dull, it can be sharpened by a qualified service technician. If it is bent or cracked, it must be replaced.
- Always wear heavy gloves when handling the blade.

5.3 Battery and Charger Storage

- Store the battery pack in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not store the battery pack in the mower for extended periods.
- Store the charger in a dry indoor location.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Mower does not start	Battery not charged or improperly installed; Safety button/bail lever not engaged; Blade obstructed.	Ensure battery is fully charged and properly seated. Engage safety button and bail lever simultaneously. Remove battery and clear any obstructions from the blade area.
Poor cutting performance	Dull or damaged blade; Cutting height too low; Grass too tall or wet; Deck clogged.	Inspect and sharpen/replace blade. Raise cutting height. Mow when grass is dry and not excessively tall. Clean the underside of the deck.
Self-propel not engaging	Self-propel lever not engaged; Drive belt issue.	Ensure the self-propel lever is fully engaged. If the issue persists, contact customer support for service.
Excessive vibration	Bent or unbalanced blade; Loose components.	Remove battery and inspect blade for damage. Replace bent blades. Check for any loose nuts or bolts and tighten them.

7. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model Number	RY401180
Brand	CUSHYBITE
Motor Type	40V HP Brushless
Deck Size	20 inches
Mowing System	3-in-1 (Mulching, Bagging, Side Discharge)
Battery Included	6.0 Ah 40V Lithium-Ion
Charger Included	Rapid Charger
Drive Type	Self-Propelled Rear-Wheel Drive

8. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official CUSHYBITE website. If you require technical assistance, replacement parts, or have questions regarding the operation of your RY401180 lawn mower, please contact CUSHYBITE customer support.

Manufacturer: CUSHYBITE

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