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DEWALT DCMW220P2

DEWALT 20V MAX* 3-in-1 Cordless Lawn Mower User Manual

Model: DCMW220P2 | Brand: DEWALT

Important Safety Information

Always read and understand all safety warnings and instructions before operating this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury. Keep this manual for future reference.
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- Always wear appropriate personal protective equipment, including eye protection and sturdy footwear, when operating the lawn mower.
- Ensure the area is clear of debris, rocks, and other objects that could be thrown by the blades.
- Never operate the mower in wet conditions or on excessively steep slopes.
- Keep hands and feet away from rotating parts.
- Disconnect batteries before performing any maintenance or clearing blockages.

Product Overview

The DEWALT 20V MAX* 3-in-1 Cordless Lawn Mower (Model DCMW220P2) is designed for efficient lawn care, offering mulching, bagging, and rear clipping discharge capabilities. It features a durable metal deck and is powered by two 20V MAX* batteries.



Figure 1: Front-right view of the DEWALT 20V MAX* 3-in-1 Cordless Lawn Mower, showcasing its yellow and black design with the battery compartment visible.

Key Features:

- **Power Source:** Operates on two 20V MAX* DEWALT batteries (included).
- **Motor:** High-output brushless motor for powerful performance.
- **Cutting Deck:** Heavy-duty 20-inch metal deck.
- **Cutting Modes:** 3-in-1 functionality for mulching, bagging, and rear clipping discharge.
- **Height Adjustment:** Single lever adjusts cutting height from 1.5 inches to 3.4 inches.
- **Storage:** Folding handle and lift handles for easy transport and compact upright storage.

Setup and Assembly

Before first use, ensure all components are present and properly assembled. Refer to the included assembly guide for detailed steps.

Battery Installation:

1. Open the battery compartment cover located on top of the mower deck.
2. Insert two fully charged 20V MAX* DEWALT batteries into their respective slots until they click into place.
3. Close the battery compartment cover securely.



Figure 2: A person installing two 20V MAX* batteries into the designated compartment on the DEWALT lawn mower, ensuring a secure fit for operation.

Handle Assembly:

The mower features folding handles for compact storage. To prepare for use, unfold the handles and secure them in the upright operating position using the quick-release levers or knobs provided. Ensure all connections are tight before operation.

Operating Instructions

Starting the Mower:

1. Ensure the safety key is fully inserted into its slot.
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 blades will begin to spin.
4. Release the safety button once the mower is running.



Figure 3: A direct front view of the DEWALT 20V MAX* 3-in-1 Cordless Lawn Mower, highlighting its compact design and the central battery housing.

Adjusting Cutting Height:

The cutting height can be easily adjusted using the single lever mechanism. There are multiple height settings ranging from 1.5 inches to 3.4 inches. Select the appropriate height for your lawn conditions. For optimal battery life and cut quality, avoid cutting more than one-third of the grass blade length at a time.

Mowing Techniques (3-in-1 Functionality):

- **Mulching:** For returning fine grass clippings to the lawn as natural fertilizer. Ensure the mulching plug is installed and the grass bag is removed.
- **Bagging:** For collecting grass clippings. Attach the grass collection bag securely to the rear discharge opening. Remove the mulching plug if installed.
- **Rear Discharge:** For expelling clippings directly from the rear of the mower. Ensure the mulching plug is removed and the grass bag is not attached. Note that clippings will discharge towards the operator's feet.



Figure 4: Side view of the DEWALT 20V MAX* 3-in-1 Cordless Lawn Mower, showing the attached grass collection bag and the adjustable handle.



Figure 5: A man operating the DEWALT lawn mower in tall grass, demonstrating its capability in challenging conditions. The grass bag is attached, indicating bagging mode.

Maintenance

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

Cleaning:

- After each use, clean the underside of the mower deck to prevent grass buildup, which can affect cutting performance.
- Wipe down the exterior surfaces with a damp cloth. Do not use water jets or high-pressure washers directly on the mower.
- Empty and clean the grass collection bag regularly.

Blade Care:

Inspect the blade regularly for sharpness and damage. A sharp blade ensures a clean cut and reduces strain on the motor. If the blade is dull or damaged, it should be sharpened or replaced by a qualified service technician.

Battery Storage:

Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, ensure batteries are partially charged (around 50%).

Troubleshooting

Problem	Possible Cause	Solution
Mower does not start.	Safety key not inserted; batteries not charged or improperly installed; bail lever not engaged.	Ensure safety key is fully inserted. Check battery charge and proper installation. Engage bail lever fully.
Short battery runtime.	Batteries not fully charged; mowing excessively tall or wet grass; blade is dull.	Fully charge batteries before use. Avoid mowing very tall or wet grass. Sharpen or replace blade. Consider higher capacity batteries (e.g., 9Ah).
Poor cutting performance / Motor bogs down.	Grass too tall or wet; deck clogged with clippings; dull blade.	Raise cutting height. Clear grass buildup from under the deck. Sharpen or replace blade. Mow at a slower pace.
Excessive vibration.	Damaged or unbalanced blade; loose components.	Inspect blade for damage and replace if necessary. Check all fasteners for tightness.

Specifications

Feature	Detail
Brand	DEWALT
Model Name	DCMW220P2
Power Source	Battery Powered (2x 20V MAX*)
Cutting Width	20 Inches
Cutting Height Range	1.5 inches to 3.4 inches
Operation Mode	Automatic
Product Dimensions (LxWxH)	48"D x 22"W x 20"H
Material	Blend (Metal deck)

Feature	Detail
Color	Yellow/Black
UPC	885911543903
Included Components	2x20V MAX DEWALT BRUSHLESS MOWER (includes 2 batteries)

Warranty and Support

For detailed warranty information, please refer to the official DEWALT warranty statement included with your product or visit the DEWALT website.
An official User Manual in PDF format is available for download: DEWALT DCMW220P2 User Manual (PDF).
For customer support or service inquiries, please contact DEWALT directly or refer to the customer support information provided at the point of purchase.

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