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DEWALT DCS573B

DEWALT DCS573B 20V MAX* 7-1/4 inch Brushless Cordless Circular Saw User Manual

Model: DCS573B

1. Introduction

Thank you for choosing the DEWALT DCS573B 20V MAX* 7-1/4 inch Brushless Cordless Circular Saw. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your tool. Please read all instructions carefully before use and retain this manual for future reference.

The DEWALT DCS573B is a powerful cordless circular saw designed for various cutting applications in wood. Featuring brushless motor technology and FLEXVOLT Advantage, it delivers enhanced performance when paired with DEWALT FLEXVOLT batteries. This tool is sold without a battery or charger.

2. General Safety Instructions

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

Work Area Safety

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

Personal Safety

- Always wear eye protection. Use safety glasses with side shields or goggles.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.

Circular Saw Specific Safety

- Keep hands away from cutting area and the blade. Keep your second hand on the auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.
- Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade should be visible below the workpiece.
- Never hold the workpiece in your hands or across your leg while cutting. Secure the workpiece to a stable platform.
- Always use blades of correct size and shape (diamond as opposed to round) for the arbor hole. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specifically designed for your saw, for optimum performance and safety of operation.

3. Product Overview

The DEWALT DCS573B circular saw is designed for precision and power. Familiarize yourself with its components and features for optimal use.

Included Components

- (1) DCS573 20V MAX* 7-1/4 in. Brushless Cordless Circular Saw with FLEXVOLT® Advantage™
- (1) DWA171424 Saw Blade
- (1) Blade Change Wrench
- (1) Dust Port

Key Features

- **FLEXVOLT Advantage:** Up to 77% more power when paired with FLEXVOLT batteries.
- **Brushless Motor:** Delivers 5,500 RPM for faster cutting.
- **Electric Brake:** Stops the blade quickly after the trigger is released.
- **Bright LED:** Increases visibility and cut accuracy.
- **Integrated Rafter Hook:** For quick and easy storage.
- **Dust Port:** Compatible with DEWALT AirLock system or standard 35mm dust extractors.
- **Tool Connect Chip Ready:** Chip pocket accepts Tool Connect Chip DCE042 (sold separately) for asset management.

Product Views



Figure 3.1: Front view of the DEWALT DCS573B 7-1/4 inch Brushless Cordless Circular Saw, highlighting the blade, motor housing, and handle.

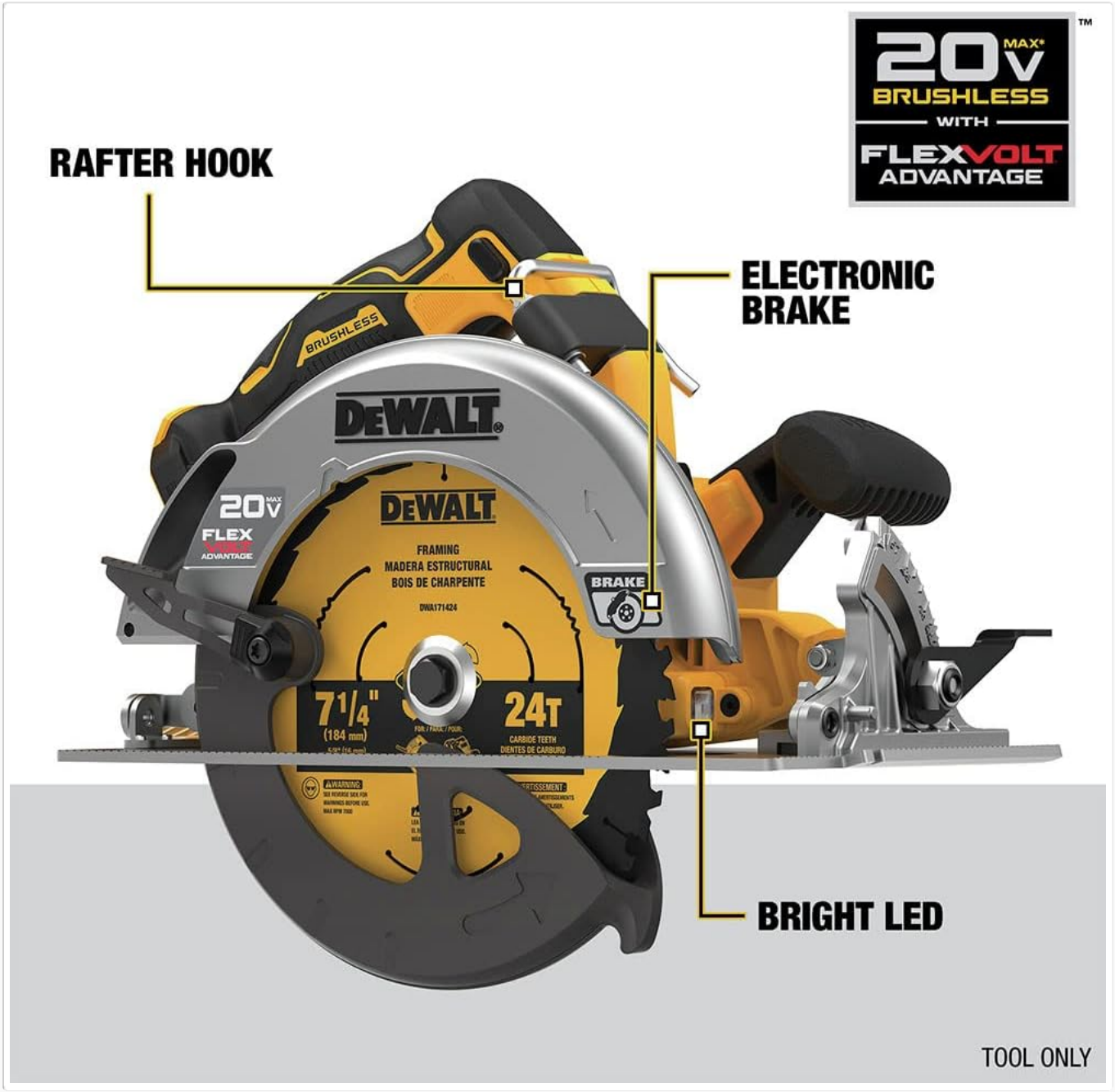

Figure 3.2: Side view of the DEWALT DCS573B circular saw, with key features such as the rafter hook, electronic brake, and bright LED light clearly labeled.



Figure 3.3: Close-up view of the integrated rafter hook on the DEWALT DCS573B, designed for convenient storage.

4. Setup

4.1 Battery Installation and Removal

The DEWALT DCS573B operates with DEWALT 20V MAX* and FLEXVOLT batteries (sold separately). Ensure the battery is fully charged before use.

1. To install the battery: Align the battery with the tool's battery port and slide it in until it clicks securely into place.
2. To remove the battery: Press the battery release button and slide the battery out of the tool.

Note: Using FLEXVOLT batteries will provide up to 77% more power compared to standard 20V MAX batteries.*

4.2 Blade Installation and Removal

Always disconnect the battery before installing or removing the saw blade.

1. Ensure the saw is unplugged (if applicable) and the battery is removed.

2. Press and hold the spindle lock button.
3. Using the provided blade change wrench, loosen the arbor bolt by turning it counter-clockwise.
4. Remove the outer washer and the old blade.
5. Install the new DWA171424 saw blade, ensuring the teeth are pointing in the direction of the arrow on the blade guard.
6. Replace the outer washer and tighten the arbor bolt clockwise with the wrench while holding the spindle lock. Do not overtighten.

4.3 Depth and Bevel Adjustments

- **Depth Adjustment:** Loosen the depth adjustment lever, move the shoe up or down to the desired cutting depth, and then securely tighten the lever. The maximum depth of cut is 2-9/16 inches at 90 degrees.
- **Bevel Adjustment:** Loosen the bevel adjustment lever, tilt the shoe to the desired angle (up to 45 degrees), and then securely tighten the lever. The maximum depth of cut is 2 inches at 45 degrees.

5. Operating Instructions

5.1 Powering On/Off

- To turn on: Depress the trigger switch. The bright LED light will illuminate the cutting area.
- To turn off: Release the trigger switch. The electric brake will stop the blade quickly.

5.2 Making a Cut

1. Ensure the workpiece is securely clamped and stable.
2. Set the desired cutting depth and bevel angle.
3. Position the saw with the front of the shoe resting on the workpiece, ensuring the blade is clear of the material.
4. Depress the trigger to start the saw, allowing the blade to reach full speed before engaging the material.
5. Guide the saw smoothly through the workpiece, maintaining a firm grip with both hands. Do not force the saw.
6. Once the cut is complete, release the trigger and allow the blade to stop completely before lifting the saw from the workpiece.

5.3 Dust Extraction

To minimize dust during cutting, attach a dust extractor to the integrated dust port. The dust port is compatible with the DEWALT AirLock system or a standard 35mm dust extractor.

6. Maintenance

6.1 Cleaning

- Regularly clean the ventilation slots to prevent overheating.
- Use a soft brush or compressed air to remove dust and debris from the tool, especially around the blade guard and motor housing.
- Do not use water or chemical cleaners.

6.2 Blade Care

- Inspect the saw blade before each use for sharpness and damage. Replace dull or damaged blades immediately.
- Keep blades clean and free of resin buildup for optimal cutting performance.

6.3 General Inspection

- Check all screws and fasteners for tightness.
- Ensure the blade guard operates freely and returns to its closed position automatically.
- Inspect the battery and charger (if applicable) for any damage.

7. Troubleshooting

Problem	Possible Cause	Solution
Saw does not start or stops unexpectedly.	Battery not installed correctly or discharged. Overload protection activated.	Ensure battery is fully charged and properly seated. Allow tool to cool down if overloaded.
Saw binds or cuts slowly.	Dull blade. Incorrect cutting depth. Forcing the saw. Using a lower capacity battery.	Replace with a sharp blade. Adjust cutting depth. Do not force the saw; allow the blade to do the work. Use a higher capacity 20V MAX* or FLEXVOLT battery.
Excessive vibration or noise.	Loose blade. Damaged blade.	Check blade for tightness and damage. Replace damaged blades.
Blade guard sticks or does not retract.	Accumulation of sawdust or debris. Damaged guard mechanism.	Clean the blade guard area thoroughly. If damaged, seek professional service.

If you encounter issues not listed here or if solutions do not resolve the problem, contact DEWALT customer service or an authorized service center.

8. Specifications

Feature	Specification
Model Number	DCS573B
Voltage	20V MAX*
Blade Diameter	7-1/4 inches (184 mm)
No-Load Speed	5500 RPM
Max Depth of Cut (90°)	2-9/16 inches
Max Depth of Cut (45°)	2 inches
Arbor Size	5/8 inch
Power Source	Battery Powered (Lithium Ion)
Item Weight	8.2 pounds
Product Dimensions	15.25"L x 9.75"W x 8.25"H
Blade Material	High Speed Steel (DWA171424 Saw Blade included)

Feature	Specification
Special Feature	Brushless Motor, Electric Brake, LED Light, Rafter Hook, FLEXVOLT Advantage

9. Warranty and Support

Warranty Information

This DEWALT product comes with a limited warranty. For detailed information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official DEWALT website.

Customer Support

For technical assistance, service, or to locate an authorized service center, please contact DEWALT customer support. Contact information can typically be found on the DEWALT website or on the product packaging.

You can visit the official DEWALT website for more information:www.dewalt.com

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