

DEWALT DCS571N-XJ

DEWALT DCS571N XR Brushless Compact Circular Saw 115mm 18V User Manual

Model: DCS571N-XJ | Brand: DEWALT

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and setup of your DEWALT DCS571N XR Brushless Compact Circular Saw. Designed for precision and durability, this 115mm 18V bare unit features a brushless motor for extended runtime and an ergonomic design for enhanced user comfort. Please read this manual thoroughly before using the tool.

2. GENERAL SAFETY INFORMATION

Always follow basic safety precautions when using power tools to reduce the risk of fire, electric shock, and serious personal injury.

- **Work Area Safety:** Keep your 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.
- **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.
- **Personal Safety:** Always wear eye protection. Use safety glasses, goggles, or a face shield. Wear hearing protection when operating noisy tools. Dress properly; do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Kickback Prevention:** Maintain a firm grip with both hands on the saw. Keep your body and arm positioned to allow you to resist kickback forces.

3. COMPONENTS OVERVIEW

Familiarize yourself with the main parts of your circular saw for safe and efficient operation.

- **Blade:** The cutting disc for various materials.
- **Blade Guard:** Retracts during cutting and covers the blade when not in use for safety.
- **Handle with Rubber Overmold:** Provides a secure and comfortable grip.
- **Depth Adjustment Lever:** Allows setting the desired cutting depth.
- **Bevel Adjustment Lever:** Enables angled cuts up to 50 degrees.
- **Trigger Switch:** Activates the saw. Features a two-stage mechanism for safety.
- **Dust Extraction Port:** Connects to a dust collection system for a cleaner work area.



Figure 1: Overall view of the DEWALT DCS571N XR Brushless Compact Circular Saw.



Figure 2: Side view highlighting the blade guard and ergonomic handle.

4. SETUP

4.1. Blade Installation

Ensure the saw is disconnected from the battery before installing or changing the blade.

1. Press and hold the spindle lock button to prevent the blade from rotating.
2. Use the provided wrench to loosen the arbor nut by turning it counter-clockwise.
3. Remove the outer washer and the old blade.
4. Clean any sawdust or debris from the blade area.
5. Place the new 115mm blade onto the arbor, ensuring the teeth are pointing in the direction of the arrow on the blade guard.
6. Reinstall the outer washer and tighten the arbor nut securely with the wrench, turning clockwise. Do not overtighten.
7. Release the spindle lock button.

Your browser does not support the video tag.

Video 1: This video demonstrates the general process of installing a saw blade on a compact circular saw, similar to the DEWALT DCS571N model. It shows how to secure the blade and attach the necessary guards.

4.2. Battery Insertion

The DEWALT DCS571N is a bare unit and requires an 18V DEWALT XR Lithium-Ion battery (sold separately).

1. Align the battery pack with the battery port on the saw handle.
2. Slide the battery pack into the port until it clicks securely into place.
3. To remove the battery, press the release button on the battery pack and slide it out.

5. OPERATING INSTRUCTIONS

5.1. Starting and Stopping the Saw

The saw features a two-stage trigger for safety.

1. To start: Push the safety lock-off button (usually located near the trigger) and then depress the trigger switch.
2. To stop: Release the trigger switch. The blade will stop quickly due to the electric brake.

5.2. Adjusting Cutting Depth

Adjust the cutting depth to be slightly deeper than the material being cut (approximately 1/8 inch or 3mm deeper) to ensure a clean cut and reduce strain on the motor.

1. Loosen the depth adjustment lever.
2. Raise or lower the saw base to achieve the desired cutting depth.
3. Tighten the depth adjustment lever securely.

5.3. Adjusting Bevel Angle

The saw can make angled cuts up to 50 degrees.

1. Loosen the bevel adjustment lever.

2. Tilt the saw base to the desired angle, indicated on the bevel scale.
3. Tighten the bevel adjustment lever securely.

5.4. Cutting Techniques

Always ensure the workpiece is securely clamped before cutting. Use a straight edge or guide for accurate cuts.

- **Straight Cuts:** Align the saw's sight line with your cutting mark. Start the saw before engaging the material and maintain a steady, consistent feed rate.
- **Angled Cuts:** Set the desired bevel angle. Be aware that the effective cutting depth will be reduced at angles other than 90 degrees.



Figure 3: Worker demonstrating proper handling and cutting technique with the circular saw.



Figure 4: Close-up view of the saw blade engaging with the material during a cut.

6. MAINTENANCE

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

- **Cleaning:** Keep the tool's ventilation slots clean to prevent overheating. Regularly remove sawdust and debris from the blade guard and base plate. Use a soft brush or compressed air.
- **Blade Inspection:** Periodically inspect the saw blade for sharpness, cracks, or missing teeth. Replace dull or damaged blades immediately.
- **Battery Care:** Store battery packs in a cool, dry place away from direct sunlight. Do not store discharged batteries for extended periods.
- **General Inspection:** Check all screws and fasteners for tightness. Ensure all moving parts operate smoothly.

7. TROUBLESHOOTING

If you encounter issues with your saw, refer to the following common troubleshooting steps:

- **Saw Not Starting:** Ensure the battery is fully charged and properly inserted. Check that the safety lock-off button is fully depressed before pulling the trigger.
- **Poor Cut Quality/Slow Cutting:** The blade may be dull or dirty. Replace or clean the blade. Ensure the cutting depth is set correctly.
- **Excessive Vibration:** Check if the blade is properly installed and secured. Inspect the blade for damage or

warping.

- **Overheating:** Ensure ventilation slots are clear of debris. Avoid forcing the saw through material; maintain a consistent feed rate.

For persistent issues, contact DEWALT customer service.

8. SPECIFICATIONS

Feature	Specification
Manufacturer	DEWALT
Part Number	DEWD571N
Item Model Number	DCS571N-XJ
Power Source	Battery Powered
Voltage	18 Volts
Wattage	750 watts
Speed	4500 RPM
Blade Length	115 Millimeters
Blade Material	Alloy Steel
Max Bevel Capacity	50 Degrees
Sound Level	102 Decibels
Handle Material	Rubber
Item Weight	1 kg
Product Dimensions	1 x 1 x 1 cm
Included Components	Bare Tool (Battery and Charger Not Included)

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official DEWALT website or contact their customer service department. Keep your proof of purchase for any warranty claims.

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