DEWALT DCS576NT-XJ

DeWalt DCS576NT-XJ 54V Brushless Cordless Circular Saw Instruction Manual

Model: DCS576NT-XJ | Brand: DEWALT

Product Overview

The DeWalt DCS576NT-XJ is a 54V XR FlexVolt cordless circular saw designed for demanding applications. It features an innovative brushless motor for enhanced performance and extended runtime. This model is supplied as a bare unit (without batteries or charger) in a TSTAK Box IV, making it ideal for users who already own DeWalt XR FlexVolt 54V batteries.

Key features include a 190mm saw blade positioned on the right for cutting thicker materials, easy and precise adjustment of cutting depth and angle (up to 57°), and a special saw shoe compatible with DeWalt guide rails. Its compact dimensions and balanced design contribute to comfortable and fatigue-free operation.



Image: DeWalt DCS576NT-XJ 54V Brushless Cordless Circular Saw shown with included accessories such as the rip fence and dust port adapter.

Safety Instructions

Always read and understand 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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool for extended periods. Wear a dust mask if operating in dusty conditions. Dress properly. Do not wear loose clothing or jewelry.
- **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 and Related Warnings:** Kickback is a sudden reaction to a pinched, bound, or misaligned saw blade. Always maintain a firm grip with both hands on the saw. Avoid cutting through nails or foreign objects.

Setup

Battery Installation

This circular saw operates on a DeWalt 54V XR FlexVolt battery (not included). Ensure the battery is fully charged before

use.

1. Align the battery pack with the receptacle in the tool handle.
2. Slide the battery pack into the tool until it clicks into place. Ensure it is securely latched.
3. To remove, press the battery release button and pull the battery pack out of the tool.

Blade Installation and Adjustment



Image: Close-up view of the DeWalt DCS576NT-XJ circular saw, highlighting the blade and guard mechanism.

1. **Blade Selection:** Use only 190mm diameter saw blades with a 30mm bore. The included HM 24-tooth saw blade is suitable for general wood cutting.
2. **Blade Change:**
    - Ensure the tool is disconnected from the battery.
    - Press the spindle lock button to prevent the blade from rotating.
    - Use the provided wrench to loosen the blade retaining screw (typically counter-clockwise for standard blades).
    - Lift the lower blade guard and remove the old blade.
    - Clean the blade flanges.
    - Place the new blade onto the spindle, ensuring the teeth are pointing in the direction of rotation (indicated by an arrow on the guard).
    - Tighten the blade retaining screw firmly.
3. **Depth Adjustment:** Loosen the depth adjustment lever, slide the shoe to the desired depth, and tighten the lever. The maximum cutting depth is 61mm (57mm with guide rail).

4. **Bevel Adjustment:** Loosen the bevel adjustment lever, tilt the shoe to the desired angle (up to 57°), and tighten the lever. Fixed notches are available for standard angles.

Operating Instructions

General Operation

1. **Starting the Saw:** Ensure the workpiece is securely clamped. Hold the saw firmly with both hands using the main handle and the auxiliary handle. Depress the trigger switch to start the saw.
2. **Making a Cut:** Allow the blade to reach full speed before entering the material. Guide the saw smoothly along the cutting line. Do not force the saw; let the blade do the work.
3. **Cutting with Guide Rail:** This saw is compatible with DeWalt guide rails. Align the saw shoe with the guide rail for precise, straight cuts.
4. **Dust Extraction:** Connect a suitable dust extraction system to the dust port for a cleaner work environment and improved visibility.

Cutting Techniques

- **Cross-cutting:** For cutting across the grain of wood. Ensure the workpiece is supported to prevent pinching.
- **Rip-cutting:** For cutting along the grain of wood. Use the rip fence (if included) or a guide rail for straight cuts.
- **Bevel Cuts:** Adjust the bevel angle as described in the Setup section. Always ensure the saw is stable before starting the cut.

Maintenance

Regular maintenance ensures the longevity and safe operation of your DeWalt circular saw.

- **Cleaning:** Keep the tool clean and free from dust and debris. Use a soft brush or compressed air to clean ventilation openings. Do not use water or chemical cleaners.
- **Blade Inspection:** Regularly inspect the saw blade for sharpness, cracks, or missing teeth. Replace dull or damaged blades immediately.
- **Guard Operation:** Ensure the lower blade guard operates freely and retracts fully. Clean any sawdust or debris that might impede its movement.
- **Brushless Motor:** The brushless motor requires no carbon brush replacement, reducing maintenance needs.
- **Storage:** Store the tool in a dry, secure location, out of reach of children. The included TSTAK Box IV provides excellent protection for storage and transport.



Image: The DeWalt TSTAK Box IV, a durable and stackable storage solution for the circular saw and accessories.



Image: Examples of the TSTAK box's internal organization and adjustable dividers for various accessories.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Saw does not start	Battery not inserted correctly or discharged.	Ensure battery is fully inserted and charged.
Saw loses power during cut	Overload, dull blade, or low battery.	Reduce cutting pressure. Replace blade. Recharge battery.
Blade binds or kicks back	Improper workpiece support, dull blade, or forcing the cut.	Ensure workpiece is properly supported. Replace blade. Do not force the saw.
Inaccurate cuts	Blade not square to shoe, loose adjustments, or worn blade.	Check and adjust blade squareness. Tighten all adjustment levers. Replace blade.

Technical Specifications

Specification	Value
Model Number	DCS576NT-XJ
Voltage	54 V XR FLEXVOLT Li-Ion
No Load Speed	5200 rpm
Blade Diameter	190 mm
Blade Bore	30 mm
Bevel Capacity	57°
Max. Cutting Depth (90°)	61 mm
Max. Cutting Depth with Guide Rail (90°)	57 mm
Weight	4.0 kg (tool only) / 5 kg (packaged)
Dimensions (L x W x H)	44 x 34 x 29 cm (packaged)
Vibration (Wood Cutting)	2.5 m/s^2
Sound Power Level	100.0 dB(A)
Included Components	Cordless Circular Saw, 24-tooth HM Saw Blade, TSTAK Box VI

Warranty and Support

DeWalt power tools are engineered to the highest standards and undergo rigorous testing. For information regarding warranty coverage, service, or technical support, please refer to the official DeWalt website or contact your local authorized DeWalt service center.

Always use genuine DeWalt replacement parts and accessories to ensure optimal performance and safety.

For further assistance, visit the official DeWalt website:www.dewalt.com

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