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DEWALT DCMPS520N-XJ

DEWALT 18V Cordless Pruning Saw DCMPS520N-XJ User Manual

Model: DCMPS520N-XJ

1. Introduction

Thank you for choosing the DEWALT 18V Cordless Pruning Saw, model DCMPS520N-XJ. This powerful and versatile tool is designed for efficient pruning tasks, capable of cutting branches up to 15 cm in diameter. It features an 18V brushless motor for extended battery life and reduced maintenance, automatic chain lubrication, and a 20 cm guide bar. The metal tip protection minimizes kickback risk and protects the chain from damage when encountering hard surfaces. For optimal control and safety, the saw is equipped with a two-hand grip and hand guard. This manual provides essential information for safe operation, proper setup, and routine maintenance.



Image 1.1: The DEWALT 18V Cordless Pruning Saw DCMPS520N-XJ, showcasing its compact design and 20cm guide bar.

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.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, hearing protection, gloves, and sturdy footwear. Consider head protection and leg protection (chainsaw chaps) when operating.
- **Work Area Safety:** Keep the work area clean and well-lit. Do not operate chainsaws in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Keep children and bystanders away while operating a power tool.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **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:** Be aware of kickback. Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Avoid contact with the guide bar tip.
- **Proper Grip:** Always hold the chainsaw firmly with both hands when the engine is running. A firm grip is essential to maintain control.
- **Maintenance:** Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.

3. Setup

3.1 Battery Installation

The DEWALT 18V Cordless Pruning Saw requires an 18V XR Li-ion battery (not included). Ensure the battery is fully charged before use. To install, align the battery with the tool's battery port and slide it in until it clicks securely into place. To remove, press the battery release button and slide the battery out.

3.2 Filling the Chain Oil Reservoir

This saw features an automatic chain lubrication system. Before first use and regularly during operation, the oil reservoir must be filled with appropriate chainsaw bar and chain oil (not included). Locate the oil cap, unscrew it, and carefully fill the reservoir. Do not overfill. Ensure the cap is securely tightened before operation.



Image 3.1: Side view of the saw, indicating the location of the oil reservoir cap for filling chain lubricant.

3.3 Adjusting Chain Tension

Proper chain tension is crucial for safe and efficient operation. The chain tension is adjusted laterally using the provided tool. Refer to the diagram below for the tensioning mechanism. The chain should be snug against the guide bar but still able to be pulled freely by hand. A chain that is too loose can derail, while a chain that is too tight can cause excessive wear and reduce cutting performance.



Image 3.2: Side view of the saw, highlighting the lateral chain tensioning adjustment point.

4. Operating Instructions

4.1 Starting and Stopping the Saw

To start the saw, ensure the battery is installed and the oil reservoir is filled. The saw incorporates a safety feature requiring two controls to be activated simultaneously. Engage the safety switch (typically a button or lever) and then press the trigger. Release the trigger to stop the saw.

4.2 Cutting Techniques

- **Grip:** Always maintain a firm grip with both hands on the designated handles.
- **Positioning:** Position the saw correctly before starting a cut. Ensure stable footing and balance.
- **Cutting Action:** Allow the saw to do the work. Do not force the saw through the wood. Apply light pressure and let the chain cut efficiently.
- **Avoid Obstacles:** The metal tip protection reduces kickback risk, but always avoid contact with metal fences, masonry, or other hard objects that could damage the chain or cause kickback.
- **Branch Support:** When cutting branches, ensure they are properly supported to prevent pinching the guide bar and chain.



Image 4.1: A user demonstrating the proper two-hand grip while operating the pruning saw.



Image 4.2: The pruning saw in action, cutting a branch, highlighting its maneuverability.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your DEWALT Pruning Saw.

5.1 Cleaning

After each use, disconnect the battery and clean the saw. Remove sawdust, debris, and sap from the guide bar, chain, and motor housing. Use a brush or compressed air. Do not use solvents that could damage plastic parts.

5.2 Chain and Guide Bar Care

- **Chain Inspection:** Regularly inspect the saw chain for sharpness, damage, and proper tension. A dull chain will cut poorly and increase the risk of kickback.
- **Chain Sharpening/Replacement:** Sharpen the chain as needed or replace it if it is severely damaged or worn. Refer to DEWALT guidelines for proper chain sharpening techniques or consult a qualified service technician.
- **Guide Bar Maintenance:** Clean the guide bar groove to ensure proper chain movement. Flip the guide bar periodically to ensure even wear.
- **Oil Reservoir:** Continuously monitor the chain oil level during operation and refill as necessary to ensure automatic lubrication functions correctly.

5.3 Battery Care

Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not store batteries in a discharged state for extended periods. Follow the charging instructions provided with your DEWALT battery charger.

6. Troubleshooting

This section addresses common issues you might encounter with your pruning saw.

Problem	Possible Cause	Solution
Saw does not start	Battery not charged or improperly installed; Safety switch not engaged; Tool malfunction.	Ensure battery is fully charged and correctly inserted. Engage safety switch before pressing trigger. If problem persists, contact DEWALT service.
Chain does not move or moves slowly	Chain too tight; Guide bar pinched; Debris in chain groove; Motor issue.	Adjust chain tension. Clear any debris from guide bar and chain. Ensure the guide bar is not pinched by the material being cut.
Poor cutting performance	Dull chain; Incorrect chain tension; Insufficient chain lubrication.	Sharpen or replace chain. Adjust chain tension. Check and refill chain oil reservoir.
Excessive vibration	Damaged chain or guide bar; Loose components.	Inspect chain and guide bar for damage and replace if necessary. Check all fasteners for tightness.

7. Specifications

Key technical specifications for the DEWALT 18V Cordless Pruning Saw DCMPS520N-XJ:

Feature	Specification
Model Number	DCMPS520N-XJ
Brand	DEWALT
Power Source	Battery Powered (18V XR Li-ion)
Guide Bar Length	20 cm (8 inches)
Motor Type	Brushless
Chain Lubrication	Automatic
Weight	1 Kilogram
Dimensions (L x W x H)	29L x 14W x 57H Centimeters
Components Included	Cordless Pruning Saw DCMPS520N-XJ
Battery/Charger	Not included, required

8. Warranty and Support

DEWALT provides a commitment to quality and durability. For the DCMPS520N-XJ model, spare parts availability is guaranteed for 1 year from the date of purchase. This ensures that necessary components for repair and maintenance are accessible.

For detailed warranty information, 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 to maintain product performance and validity of any warranty.

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