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Dewalt DWS771-QS

DEWALT DWS771 Miter Saw User Manual

Model: DWS771-QS

Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DEWALT DWS771 Miter Saw. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.



Image: The DEWALT DWS771 Miter Saw, showcasing its main components including the saw blade, motor housing, and miter table.

Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

- **Read all instructions:** Familiarize yourself with the controls and proper use of the tool.
- **Wear appropriate safety gear:** Always wear eye protection, hearing protection, and a dust mask.
- **Ensure work area is clear:** Keep the work area clean, well-lit, and free from obstructions.
- **Secure workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during cutting.
- **Disconnect power:** Always disconnect the saw from the power supply before making adjustments, changing accessories, or performing maintenance.

- **Avoid accidental starting:** Ensure the switch is in the OFF position before plugging in the tool.
- **Maintain proper footing and balance:** Do not overreach.
- **Use the right tool for the job:** Do not force the tool or use it for purposes not intended.

Product Overview and Components

The DEWALT DWS771 Miter Saw is designed for precise cross-cutting and miter cutting of wood, plastics, and non-ferrous metals. Key components include:

- **Motor Housing:** Contains the 1600 Watt motor.
- **Saw Blade:** 216 mm diameter HM-blade for various materials.
- **Miter Table:** Adjustable for precise angle cuts.
- **Fence:** Supports the workpiece during cutting.
- **Blade Guard:** Retracts during cutting for safety.
- **XPS Cut Line Display:** Patented system for accurate cut line indication.
- **AirLock Connection:** For effective dust extraction.
- **Spindle Lock:** For easy blade changes.



Image: Side view of the DEWALT DWS771 Miter Saw, illustrating the adjustable miter table and the blade guard mechanism.

Setup

Unpacking and Assembly

1. Carefully remove all components from the packaging.
2. Inspect the saw for any damage that may have occurred during shipping. Do not operate if damaged.
3. Mount the saw securely to a stable workbench using appropriate fasteners. Ensure the mounting surface is level.
4. Attach any accessories, such as material supports or clamps, as per the included accessory instructions.

Blade Installation/Removal

1. **Disconnect the saw from the power supply.**
2. Raise the blade guard.
3. Press and hold the spindle lock button.
4. Using the provided wrench, loosen the blade bolt by turning it counter-clockwise.
5. Remove the outer flange and the old blade.

6. Install the new 216mm blade, ensuring the teeth are pointing in the direction of rotation (indicated by an arrow on the guard).
7. Replace the outer flange and tighten the blade bolt clockwise while holding the spindle lock. Do not overtighten.
8. Lower the blade guard.

Dust Extraction Connection

Connect a compatible dust extractor or vacuum system to the AirLock port on the saw. This will significantly reduce airborne dust during operation, improving visibility and safety.

Operating Instructions

Basic Operation

1. Ensure the saw is securely mounted and connected to a suitable power supply (230 Volt).
2. Place the workpiece firmly against the fence and secure it with clamps if necessary.
3. Align the cut line using the XPS Cut Line Display.
4. Hold the handle firmly and depress the trigger to start the motor. Allow the blade to reach full speed before cutting.
5. Slowly lower the blade through the workpiece, maintaining a steady, controlled motion.
6. Once the cut is complete, release the trigger and allow the blade to stop completely before raising it from the workpiece.

Miter and Bevel Cuts

The DWS771 allows for quick and accurate adjustment of miter and bevel angles. Refer to the markings on the miter table and bevel scale for precise settings. Always ensure locking levers are tightened before making a cut.

Maintenance

Regular maintenance ensures the longevity and safe operation of your DEWALT DWS771 Miter Saw.

- **Cleaning:** After each use, disconnect the saw and clean off dust and debris from the motor vents, blade guard, and table. Use a soft brush or compressed air.
- **Blade Inspection:** Regularly inspect the saw blade for sharpness, cracks, or missing teeth. Replace dull or damaged blades immediately.
- **Lubrication:** Periodically lubricate moving parts as indicated in the detailed service manual (not provided here).
- **Carbon Brushes:** Check carbon brushes periodically. Replace them when they are worn down to approximately 6mm (1/4 inch) or if the motor sparks excessively.
- **Cord Inspection:** Inspect the power cord for damage. Do not use the saw if the cord is frayed or damaged.

Troubleshooting

Problem	Possible Cause	Solution
Saw does not start	No power supply; Faulty switch; Worn carbon brushes	Check power connection; Test switch; Replace carbon brushes
Excessive sparking from motor	Worn carbon brushes; Dirty commutator	Replace carbon brushes; Have commutator cleaned by qualified service personnel

Problem	Possible Cause	Solution
Blade not cutting cleanly or burning wood	Dull blade; Incorrect blade for material; Improper feed rate	Replace or sharpen blade; Use appropriate blade; Adjust feed rate
Dust extraction ineffective	Dust port clogged; Dust extractor not powerful enough; Hose disconnected	Clear dust port; Use higher capacity extractor; Reconnect hose securely

For problems not listed or if solutions do not resolve the issue, contact an authorized DEWALT service center.

Specifications

Feature	Specification
Model Number	DWS771-QS
Power Input	1600 Watt
Voltage	230 Volt
Blade Diameter	216 mm
Weight	14.5 kg
Dimensions (L x W x H)	54.5 x 45 x 44 cm
Special Features	XPS Cut Line Display, AirLock Compatible, Spindle Lock

Warranty and Support

DEWALT products are manufactured to high quality standards and are guaranteed for a professional lifetime against defects in materials or workmanship. For detailed warranty information, including terms and conditions, please refer to the warranty card included with your product or visit the official DEWALT website.
For technical support, service, or to locate an authorized service center, please visitwww.dewalt.com or contact your local DEWALT representative.

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