DEWALT DWS777-QS

DEWALT DWS777-QS Radial Miter Saw

Instruction Manual

Introduction Safety Components Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides essential information for the safe and effective use of your DEWALT DWS777-QS Radial Miter Saw. Please read and understand all instructions before operating the tool. This 1800W radial miter saw is designed for precise cutting of various materials including wood, plastic, and aluminum, featuring an XPS system for accurate cut line projection.



Figure 1.1: DEWALT DWS777-QS Radial Miter Saw. This image shows the overall design of the saw, including the motor housing, blade guard, and base.

2. General Safety Information

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

2.1. Work Area Safety

- Keep the 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.
- Keep children and bystanders away while operating a power tool.

2.2. 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.
- Do not expose power tools to rain or wet conditions.

2.3. Personal Safety

- Always wear eye protection (safety glasses or goggles) and hearing protection.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.
- Use appropriate dust extraction if available.

3. Components Overview

Familiarize yourself with the main parts of your DEWALT DWS777-QS miter saw.



Figure 3.1: Overview of the DEWALT DWS777-QS Miter Saw. This image highlights the main components such as the motor, blade, fence, and base.

- **Motor Housing:** Contains the 1800W motor.
- **Blade Guard:** Retracts automatically during cutting to expose the blade.
- **Blade:** 216mm diameter carbide blade (24 teeth included).
- **Base:** Provides stability and mounting points.
- **Fence:** Supports the workpiece during cutting.

- **Miter Scale:** For setting miter angles.
- **Bevel Scale:** For setting bevel angles (up to 48°).
- **XPS System:** Projects a shadow of the blade onto the workpiece for accurate cut line indication.
- **Clamping Device:** Secures the workpiece.
- **Dust Port:** For connecting to a dust extraction system.

4. Setup and Initial Adjustments

4.1. Unpacking and Assembly

1. Carefully remove the saw and all accessories from the packaging.
2. Inspect the tool for any damage that may have occurred during shipping.
3. Ensure all listed components are present: miter saw, 24-tooth carbide blade, 2 mounting bolts, clamping device, service wrench.
4. Mount the saw securely to a stable workbench using the provided mounting bolts.

4.2. Blade Installation (if not pre-installed)

1. Disconnect the saw from the power supply.
2. Lift the lower blade guard.
3. Press the spindle lock button to prevent the blade from rotating.
4. Using the service wrench, loosen the blade retaining bolt.
5. Remove the outer flange and old blade.
6. Install the new 216mm blade, ensuring the rotation direction matches the arrow on the guard.
7. Replace the outer flange and tighten the blade retaining bolt securely.



Figure 4.1: Close-up view of the blade area with the guard raised. This illustrates the blade, spindle, and retaining bolt for blade changes.

4.3. Adjusting the Fence and Stops

The sliding and graduated stop on the left provides enhanced material support and guidance. Ensure it is properly aligned and secured before operation.

5. Operating Instructions

Always ensure the workpiece is securely clamped before making any cuts.

5.1. Basic Straight Cuts (Crosscuts)

1. Place the workpiece firmly against the fence and on the saw table.
2. Secure the workpiece with the clamping device.

3. Lower the saw head slightly to engage the XPS system and align the shadow line with your desired cut mark.
4. Start the motor and allow the blade to reach full speed.
5. Slowly and steadily lower the saw head through the workpiece.
6. Once the cut is complete, release the trigger and allow the blade to stop before raising the saw head.



Figure 5.1: The DEWALT DWS777-QS Miter Saw performing a cut on a wooden workpiece. This image demonstrates the saw in its operational state.

5.2. Miter Cuts

1. Loosen the miter lock handle.
2. Rotate the turntable to the desired miter angle (e.g., 45°).
3. Tighten the miter lock handle.
4. Proceed with the cut as described for basic straight cuts.

5.3. Bevel Cuts

1. Loosen the bevel lock knob.
2. Tilt the saw head to the desired bevel angle (up to 48°).
3. Tighten the bevel lock knob.
4. Proceed with the cut as described for basic straight cuts.

5.4. XPS System for Cut Line Projection

The XPS system utilizes an LED light to cast a shadow of the blade onto the workpiece, indicating the exact cut line. This eliminates the need for laser adjustments and provides high accuracy.

Figure 5.2: Illustration of the XPS system projecting a shadow line onto a workpiece. This feature aids in precise alignment of the cut.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your miter saw.

6.1. Cleaning

- Always disconnect the saw from the power supply before cleaning.
- Use a soft brush or compressed air to remove dust and debris from the motor vents, blade guard, and table.
- Do not use solvents or harsh chemicals.
- Regularly clean the XPS light lens to maintain clear projection.

6.2. Blade Replacement

Refer to section 4.2 for detailed instructions on how to replace the blade. Always use 216mm diameter blades with a 30mm bore, suitable for the material being cut.

6.3. General Inspection

- Check all screws and fasteners for tightness.
- Inspect the power cord for damage.
- Ensure the blade guard operates smoothly and retracts fully.

7. Troubleshooting

This section addresses common issues you might encounter with your DEWALT DWS777-QS miter saw.

Problem	Possible Cause	Solution
Saw does not start	No power supply; Damaged power cord; Faulty switch	Check power outlet and circuit breaker; Inspect power cord for damage; Contact authorized service center if switch is faulty.
Blade not cutting cleanly	Dull or incorrect blade; Improper feed rate; Workpiece not secured	Replace blade with a sharp, appropriate one; Adjust feed rate; Secure workpiece firmly with clamp.
Excessive vibration	Loose blade; Damaged blade; Unstable mounting	Tighten blade retaining bolt; Replace damaged blade; Ensure saw is securely mounted to workbench.
XPS line is dim or absent	Dirty lens; LED malfunction	Clean the XPS light lens; Contact authorized service center if LED is faulty.

8. Specifications

Technical data for the DEWALT DWS777-QS Radial Miter Saw.

Feature	Value
Model Number	DWS777-QS
Power Input	1800 Watts
No Load Speed	6300 rpm
Blade Diameter	216 mm
Blade Bore	30 mm

Feature	Value
Max. Cutting Depth (90°)	62 mm
Max. Crosscut Capacity (90°/90°)	270 x 62 mm
Bevel Capacity	48°
Sound Level	93 dB
Weight	12.5 Kilograms
Dimensions (L x W x H)	50 x 44 x 39 cm
Power Source	Corded Electric
Material Compatibility	Aluminum, Wood, Plastic

9. Warranty and Support

DEWALT products are manufactured to high quality standards. For warranty information, please refer to the warranty card included with your product or visit the official DEWALT website. For technical support, spare parts, or service, please contact your local authorized DEWALT service center. Always provide the model number (DWS777-QS) and serial number when seeking support.

© 2024 DEWALT. All rights reserved. This manual is for informational purposes only.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question