

DEWALT D27112-QS

DEWALT D27112-QS Radial Miter Saw with Upper Table - User Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your DEWALT D27112-QS Radial Miter Saw with Upper Table. Please read these instructions carefully before using the tool to ensure optimal performance and user safety. This saw is designed for general cross-cutting and ripping applications, suitable for tasks such as laying parquet, sizing baseboards, and interior carpentry.

2. SAFETY INSTRUCTIONS

Always adhere to general power tool safety guidelines to prevent injury and damage. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- **Wear Eye Protection:** Always wear appropriate eye protection, such as safety glasses or goggles, when operating the saw.
- **Hearing Protection:** Use hearing protection during operation, as the saw can produce high noise levels.
- **Disconnect Power:** Always disconnect the saw from the power source before making any adjustments, changing blades, or performing maintenance.
- **Secure Workpiece:** Ensure the workpiece is firmly clamped or held against the fence and table before cutting. Never hold small pieces by hand.
- **Keep Hands Clear:** Keep hands and fingers away from the blade path. Use a push stick or pusher when operating the upper table.
- **Maintain Blade Guards:** Ensure all blade guards are in place and functioning correctly before each use.
- **Proper Ventilation:** Operate the saw in a well-ventilated area to minimize dust inhalation.
- **Stable Work Surface:** Place the saw on a stable, level surface to prevent tipping during operation.

3. SETUP

3.1 Unpacking and Inspection

Carefully remove the saw and all accessories from the packaging. Inspect all components for any signs of damage

that may have occurred during shipping. If any parts are damaged or missing, do not operate the tool and contact DEWALT customer service.

3.2 Blade Installation

Your DEWALT D27112-QS uses a 305mm diameter blade. Refer to the included service wrench and Allen key for proper blade removal and installation. Ensure the blade is installed with the teeth pointing in the correct direction for cutting and that it is securely fastened.

3.3 Power Connection

Connect the saw to a suitable 220V power outlet. Ensure the power cord is free from damage and positioned to avoid tripping hazards or contact with the blade.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

To start the saw, press the power switch. Allow the blade to reach full speed (3300 rpm) before beginning a cut. Guide the saw smoothly through the material. The 1600W motor provides ample power for various materials.



Figure 1: Cross-cutting operation with the DEWALT D27112-QS radial miter saw.

4.2 Miter and Bevel Adjustments

The saw features stainless steel miter detents for quick and precise angle adjustments. The blade can be inclined up to 45° for bevel cuts. Use the appropriate levers and scales to set your desired miter and bevel angles. Ensure all adjustments are locked securely before cutting.

4.3 Using the Upper Table

The integrated upper table allows for ripping applications. The precision base and cast aluminum table ensure high-precision cuts in both miter and rip modes. A high and stable rear fence enhances accuracy for miter applications. The all-metal cam clamp on the upper guide can be used to optimize precision.



Figure 2: Ripping operation using the upper table of the DEWALT D27112-QS.

4.4 Cutting Capacity

The saw offers a maximum cutting capacity of 285 x 90 mm at 90°/90°. The sliding mechanism further increases the cross-cutting capacity, allowing you to handle large section materials with ease.

5. MAINTENANCE

5.1 Blade Replacement

Regularly inspect the blade for sharpness and damage. A dull or damaged blade can lead to poor cut quality and increased kickback risk. Always disconnect power before replacing the blade. Follow the instructions in Section 3.2 for safe blade installation.

5.2 Cleaning

After each use, clean the saw to remove sawdust and debris. Pay particular attention to the blade guard, miter scale, and sliding mechanisms. A dust bag is included to help manage sawdust during operation. Ensure the dust bag is emptied regularly.

5.3 General Inspection

Periodically check all fasteners for tightness. Inspect the power cord for any signs of wear, cuts, or damage. Ensure all moving parts operate smoothly. If any issues are found, have the saw serviced by a qualified technician.

6. TROUBLESHOOTING

- **Saw Not Starting:** Check power connection, ensure the switch is on, and verify that the circuit breaker has not tripped.
- **Inaccurate Cuts:** Verify that the miter and bevel angles are correctly set and locked. Check the blade for damage or dullness. Ensure the workpiece is securely clamped.
- **Excessive Vibration:** Check if the blade is properly installed and tightened. Inspect the blade for damage or imbalance. Ensure the saw is on a stable surface.
- **Smoke or Burning Smell:** Immediately turn off the saw and disconnect power. This could indicate a dull blade, improper cutting technique, or motor issue. Seek professional service.

7. SPECIFICATIONS

Feature	Specification
Model Number	D27112-QS
Power Input	1600 Watts
Voltage	220 Volts
No-load Speed	3300 rpm
Blade Diameter	305 mm
Blade Inclination	45 Degrees
Max Cutting Capacity (90°/90°)	285 x 90 mm
Max Cutting Capacity (45°/90° Left Inclination)	200 x 90 mm
Max Cutting Capacity (45°/45°)	200 x 50 mm
Dimensions (L x W x H)	55 x 46 x 94 cm
Weight	27.76 Kilograms
Blade Material	High-speed steel
Power Source	Electric Cable
Special Feature	Depth Adjustment

8. INCLUDED COMPONENTS

The DEWALT D27112-QS Radial Miter Saw comes with the following accessories:

- Pusher (1)
- Carbide blade (1)

- Blade guard (1)
- Clamping vice (1)
- Service wrench (1)
- Allen key (1)
- Parallel guide (1)

9. WARRANTY AND SUPPORT

Your DEWALT D27112-QS Radial Miter Saw is covered by a limited warranty. Please refer to the warranty card included with your product for specific terms and conditions. For technical assistance, spare parts, or warranty claims, please contact DEWALT customer support through their official website or authorized service centers.

DEWALT has been designing, manufacturing, and marketing robust, durable, and powerful machines for professionals and expert DIYers for over 90 years, ensuring quality, power, solidity, and reliability in every product.