

## DEWALT DWS780

# DEWALT DWS780 12-inch Double Bevel Sliding Compound Miter Saw Instruction Manual

## 1. SAFETY INFORMATION

Always read and understand the entire instruction manual before operating this tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury. Keep this manual for future reference.

- Wear appropriate personal protective equipment, including eye protection, hearing protection, and a dust mask.
- Ensure the workpiece is securely clamped before cutting.
- Keep hands clear of the blade path.
- Disconnect power before making adjustments or changing accessories.
- Maintain a clean and well-lit work area.

## 2. PRODUCT OVERVIEW

The DEWALT DWS780 is a 12-inch double bevel sliding compound miter saw designed for precision and durability in various woodworking applications. It features an integrated XPS LED Shadow Light System for cut alignment and a powerful 15 amp motor.

### Key Features:

- Powerful 15 amp, 3,800 rpm motor for heavy-duty applications.
- Integrated cutline blade positioning system provides adjustment-free cut line indication.
- XPS LED shadow line technology projects a shadow for precise cutting alignment.
- Super-efficient dust collection system captures over 75% of dust generated.
- Tall sliding fences support crown molding up to 7-1/2 inches nested and base molding up to 6-3/4 inches vertically.
- Fence design allows cuts up to 2x14 dimensional lumber at 90° and 2x10 at 45°.
- Miters 60° to the right and 50° to the left for increased capacity.
- Adjustable stainless-steel miter detent plate with 10 positive stops.
- Oversized bevel scale for accurate and easy bevel angle adjustments.
- Cam lock miter handle with detent override for quick and accurate miter angles.
- Compact, lightweight design (58 lbs.) for easy transport and storage.

- Dual horizontal steel rails with innovative clamping mechanism and linear ball bearings for accurate, durable, and compact saw operation.
- Innovative gearbox and belt-drive design increases vertical cutting capacity.

#### Included Components:

- One DEWALT DWS780 12-inch double bevel sliding compound miter saw
- One carbide blade
- One blade wrench
- One dust bag
- One vertical material clamp



Figure 2.1: DEWALT DWS780 Miter Saw with key components labeled, including the dust chute and port, Cutline™ Blade Positioning System, and Cam Lock Miter Handle.

## KIT INCLUDES

(1) DWS780 12" DOUBLE BEVEL SLIDING MITER SAW, (1) BLADE WRENCH,  
(1) DUST BAG, (1) VERTICAL MATERIAL CLAMP, (1) 12" 60T CARBIDE BLADE



Figure 2.2: The DEWALT DWS780 Miter Saw kit includes the saw, a blade wrench, a dust bag, a vertical material clamp, and a 12-inch 60T carbide blade.

### 3. SETUP

Before initial use, ensure the saw is securely mounted to a stable workbench or a compatible miter saw stand. Verify all components are present and undamaged. Perform initial calibration checks for miter and bevel angles to ensure accuracy.

#### Initial Adjustments:

- **Miter Angle Adjustment:** Use the cam lock miter handle to set desired miter angles. The detent plate provides positive stops at common angles.
- **Bevel Angle Adjustment:** Loosen the bevel lock knob and tilt the saw head to the desired bevel angle, using the oversized bevel scale for accuracy.
- **Fence Adjustment:** The tall sliding fences can be adjusted to support various material sizes and to clear the blade during bevel cuts.



# BATTERY AND CHARGER SOLD SEPARATELY

Figure 3.1: The tall sliding fences on the DEWALT DWS780 Miter Saw can be adjusted to support crown molding and other materials.

## Video: DEWALT Double Bevel Sliding Miter Saw Overview

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Video 3.1: This video provides an overview of the DEWALT DWS780 Double Bevel Sliding Miter Saw, demonstrating its key features and basic adjustments for various cuts.

## 4. OPERATING INSTRUCTIONS

Operating the DEWALT DWS780 requires understanding its various functions for accurate and safe cuts.

### Making Miter Cuts:

1. Position the workpiece firmly against the fence and table.
2. Depress the cam lock miter handle to release the miter lock.
3. Rotate the saw table to the desired miter angle. The detent plate offers quick stops at common angles.
4. Release the cam lock miter handle to secure the angle.

5. Engage the XPS LED Shadow Light System to preview the cut line.
6. Depress the trigger and slowly lower the blade through the material. For wider materials, utilize the sliding feature by pulling the saw head forward before lowering and pushing it back through the cut.



## CAM LOCK MITER HANDLE

Figure 4.1: The Cam Lock Miter Handle allows for quick and secure adjustment of miter angles.

### Making Bevel Cuts:

1. Ensure the workpiece is stable on the saw table.
2. Loosen the bevel lock knob located at the rear of the saw.
3. Tilt the saw head to the desired bevel angle (0° to 49° left and right). The oversized bevel scale provides clear readings.
4. Tighten the bevel lock knob to secure the saw head.
5. Proceed with the cut as described for miter cuts.





Figure 4.2: The DEWALT DWS780 Miter Saw features double bevel capability, allowing the saw head to tilt left and right for versatile cuts.

### Using the XPS LED Shadow Light System:

The XPS LED Shadow Light System projects a precise shadow of the blade onto the workpiece, indicating the exact cut line. This system does not require recalibration when changing blades.



Figure 4.3: The XPS LED Shadow Line Technology projects a clear shadow of the blade, providing an accurate visual guide for the cut line.



Figure 4.4: The Cutline™ Blade Positioning System on the DEWALT DWS780 Miter Saw ensures precise cut alignment without manual adjustments.

### Video: General Usage of DEWALT Miter Saw

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Video 4.1: This video demonstrates the general usage and versatility of the DEWALT DWS780 Miter Saw for various cutting tasks.

### Video: Ease of Use with DEWALT Miter Saw

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Video 4.2: This video highlights the user-friendly design and ease of operation of the DEWALT DWS780 Miter Saw, showcasing its intuitive controls.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your DEWALT DWS780 Miter Saw.

### Blade Changing:

Always disconnect the saw from the power source before attempting to change the blade. Use the provided blade wrench for safe removal and installation.

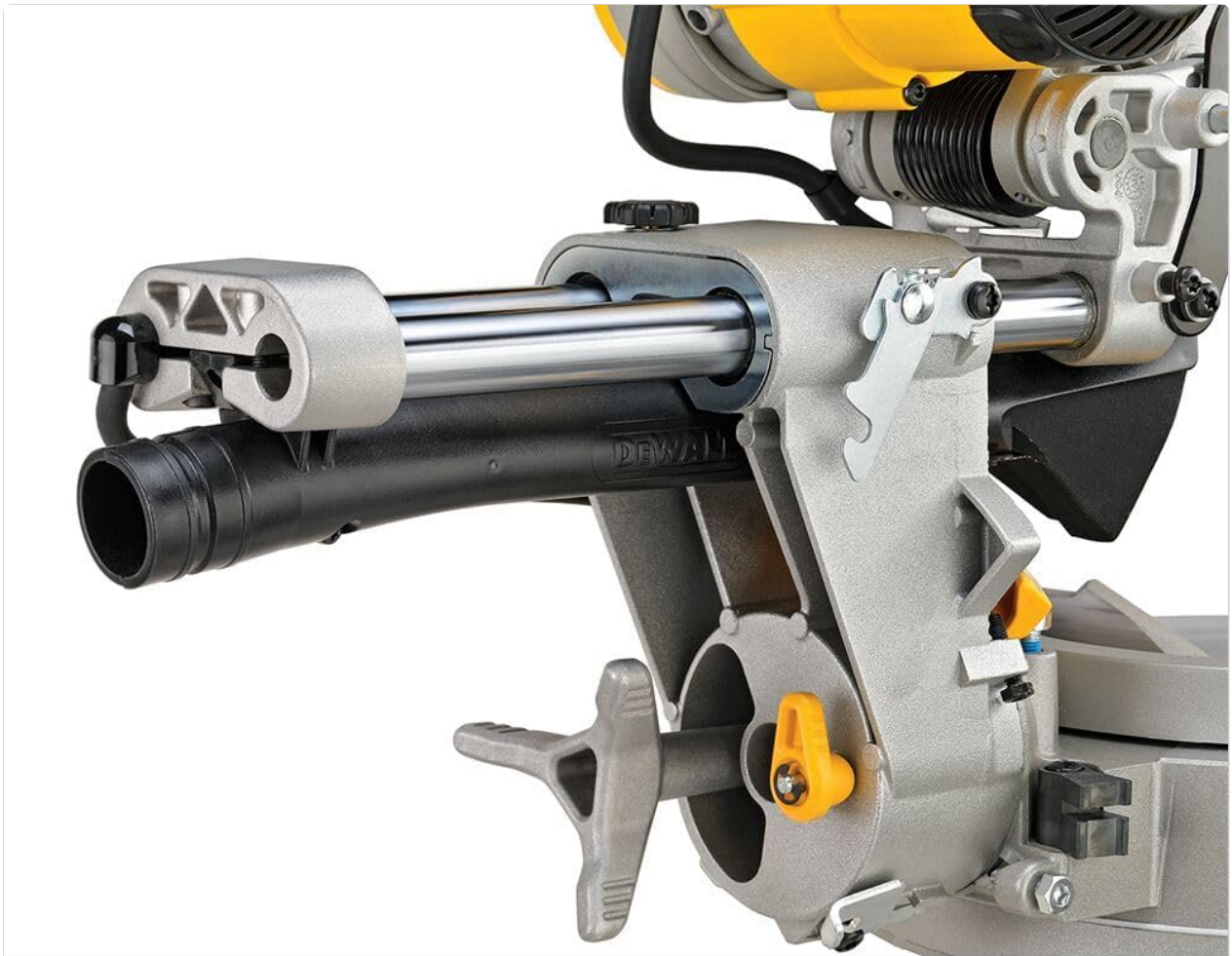
### Video: How to Change Blade on DEWALT Miter Saw

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Video 5.1: This video provides a step-by-step guide on how to safely change the blade on your DEWALT Miter Saw.

### Dust Collection:

The saw is equipped with a super-efficient dust collection system. Regularly empty the dust bag or connect to an external dust extractor to maintain optimal performance and a clean work environment.



## DUST CHUTE AND PORT

Figure 5.1: The dust chute and port on the DEWALT DWS780 Miter Saw are designed for efficient dust collection, reducing airborne particles.



## 6. TROUBLESHOOTING

If you encounter issues with your DEWALT DWS780 Miter Saw, refer to the following common troubleshooting tips:

- **Saw not powering on:** Check the power connection, ensure the outlet is functional, and verify the safety trigger is fully engaged.
- **Inaccurate cuts:** Verify that the miter and bevel angles are correctly set and locked. Check the blade for damage or dullness and replace if necessary. Ensure the workpiece is securely clamped.
- **Excessive dust:** Empty the dust bag or check the connection to the dust extractor. Ensure the dust port is not clogged.
- **Blade binding:** Ensure the workpiece is properly supported and not twisting during the cut. Check for any obstructions in the blade path.

For more detailed troubleshooting, consult the full product manual or contact DEWALT customer support.

## 7. SPECIFICATIONS

Specification	Value
Brand	DEWALT
Model Number	DWS780
Power Source	Corded Electric
Voltage	110 Volts
Wattage	1675.0 W
Item Weight	54.6 pounds (24.8 Kilograms)
Product Dimensions	32.57"L x 23"W x 19.5"H
Blade Length	12 Inches
Speed	3800 RPM
Cutting Angle	90 Degrees (Miter 60° Right / 50° Left, Bevel 0° to 49° Left / Right)
Blade Material	High Speed Steel
Surface Recommendation	Wood
Special Features	Bevel Capability, Spindle Lock, XPS LED Shadow Light System

## 8. WARRANTY AND SUPPORT

The DEWALT DWS780 Miter Saw comes with a Manufacturer's Limited Warranty. For specific details regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official DEWALT website.

For technical assistance, parts, or service, please contact DEWALT customer support through their official channels. Ensure you have your product model number (DWS780) and purchase information available when seeking support.