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## DEWALT D24000

# DEWALT D24000 10-Inch Wet Tile Saw Instruction Manual

Model: D24000

## 1. PRODUCT OVERVIEW

The DEWALT D24000 is a 1.5-horsepower, 10-inch wet tile saw designed for precise and efficient cutting of various tile materials, including porcelain and stone. Its robust design and integrated features facilitate accurate and clean cuts for professional and DIY applications.



Figure 1.1: The DEWALT D24000 10-Inch Wet Tile Saw, showing its main components and cutting platform.

### Key Features:

- **Cantilevering Rail/Cart System:** Provides a 24-inch ripping capacity and accommodates 18-inch tiles for diagonal cuts.
- **Integrated Stainless Steel Rail System:** Ensures accurate cuts and enhanced durability.
- **Miter Feature:** Integrated 45/22.5-degree miter stops for quick angled cuts.

- **Plunge Feature:** Allows for quick plunge cuts, ideal for electrical outlets and A/C registers.
- **Adjustable Dual Water Nozzles:** Optimizes water placement on the blade to minimize overspray.
- **Removable Cutting Cart:** Facilitates easy cleaning and maintenance.
- **Compact and Portable:** Weighs 69 lbs, designed for single-person transport and setup.

## 2. SAFETY INFORMATION

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Always adhere to fundamental safety practices when operating power tools to prevent personal injury and damage to the equipment. This section outlines general safety guidelines. Refer to the full safety manual provided with your tool for comprehensive instructions.

- **Personal Protective Equipment (PPE):** Always wear safety glasses, hearing protection, and appropriate work gloves. A dust mask may be necessary depending on the material being cut.
- **Work Area:** Ensure the work area is clean, well-lit, and free from obstructions. Keep children and bystanders away.
- **Electrical Safety:** Do not operate the saw in wet or damp conditions. Ensure the power cord is in good condition and avoid using extension cords that are not rated for outdoor use or heavy-duty applications.
- **Blade Safety:** Always ensure the blade guard is in place and functioning correctly. Never attempt to remove material or adjust the saw while the blade is rotating. Disconnect power before changing blades or performing maintenance.
- **Material Handling:** Securely support the workpiece. Avoid cutting materials that are too small to be safely held or supported.
- **Proposition 65 Warning:** This product may expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## 3. SETUP AND ASSEMBLY

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Proper setup is crucial for the performance and safety of your DEWALT D24000 wet tile saw. Follow these steps for initial assembly and preparation.

### 3.1 Unpacking and Inspection

- Carefully remove all components from the packaging.
- Inspect the saw for any damage that may have occurred during shipping. Report any damage immediately to your supplier.
- Ensure all listed components are present.

### 3.2 Assembling the Water Pan and Cart

The saw features a removable cutting cart and a 5-gallon water pan for efficient water management.



**Figure 3.1:** The DEWALT D24000 with its water trays detached, illustrating the removable components for cleaning and setup.

- Place the main water pan securely on a stable surface or an optional saw stand.
- Position the removable cutting cart onto the integrated rail system. Ensure it slides smoothly.
- Attach any rear and side water attachments to help contain water run-off and blade spray.



Figure 3.2: The DEWALT D24000 with all water trays and the cutting cart properly assembled and ready for use.

### 3.3 Water Supply Setup

- Fill the water pan with clean water. The 5-gallon capacity ensures sufficient cooling for extended operation.
- Ensure the water pump (if included or externally supplied) is submerged and connected to the saw's water nozzles.
- Adjust the dual water nozzles to direct water flow optimally onto the blade.
- **Tip:** For cleaner operation and reduced mist, consider placing the water pump in a separate 4-5 gallon bucket. This helps circulate fresh water and can be placed below the saw to reduce water pressure and mist.

### 3.4 Blade Installation and Alignment

- **Always disconnect power before installing or changing the blade.**
- Use the provided wrench (stored on the saw, see Figure 3.3) to loosen the blade arbor nut.
- Install the 10-inch diamond blade, ensuring the rotation arrow on the blade matches the direction of rotation indicated on the saw.
- Tighten the arbor nut securely.
- **Alignment Check:** Verify that the blade is perpendicular to the cutting surface (90 degrees). Adjust if necessary using a square.

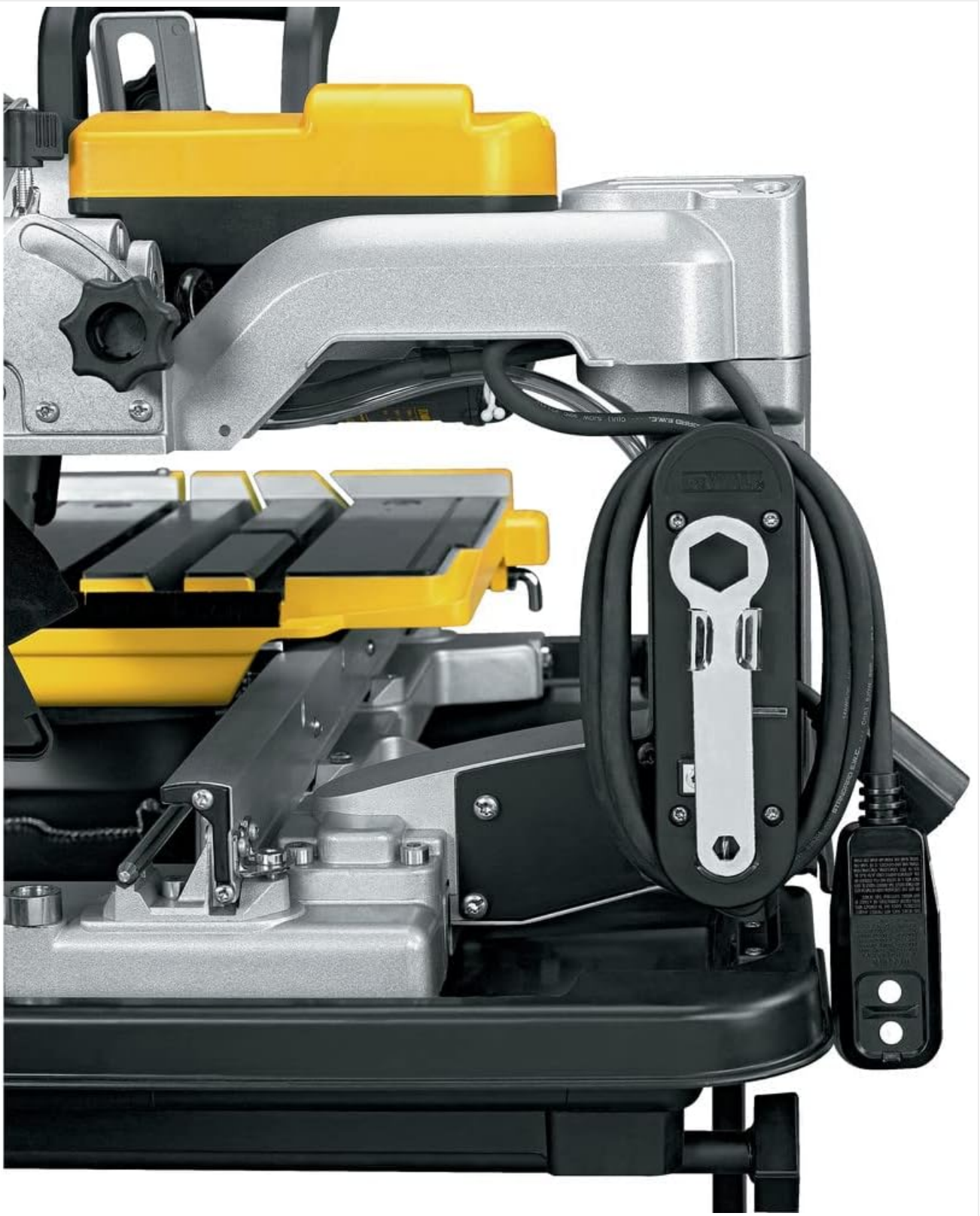


Figure 3.3: Close-up view of the DEWALT D24000 showing the integrated storage for the power cord and blade wrench.

## 4. OPERATION

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This section details the operational procedures for the DEWALT D24000 wet tile saw, including various cutting techniques.

### 4.1 Basic Straight Cuts (Ripping)

- Place the tile on the cutting cart, aligning the desired cut line with the blade.

- Use the edge guide to ensure straight and consistent cuts. The edge guide has 2-position (45/90 degree) settings.
- Engage the saw and slowly push the cutting cart through the blade. Maintain a steady, even pressure.
- The cantilevering rail/cart system allows for a 24-inch ripping capacity.



**Figure 4.1:** The DEWALT D24000 mounted on an optional stand, demonstrating its operational height and stability.

## 4.2 Diagonal Cuts

- Adjust the edge guide or use a miter gauge to set the desired angle for diagonal cuts.
- The saw can handle diagonal cuts on tiles up to 18 inches.
- Ensure the tile is firmly against the guide before initiating the cut.

## 4.3 Miter and Bevel Cuts

- The integrated miter feature offers stops at 45 degrees and 22.5 degrees for quick angled cuts.
- To perform bevel cuts, adjust the saw head to the desired angle (e.g., 45 degrees).
- Secure the saw head in the tilted position before cutting.

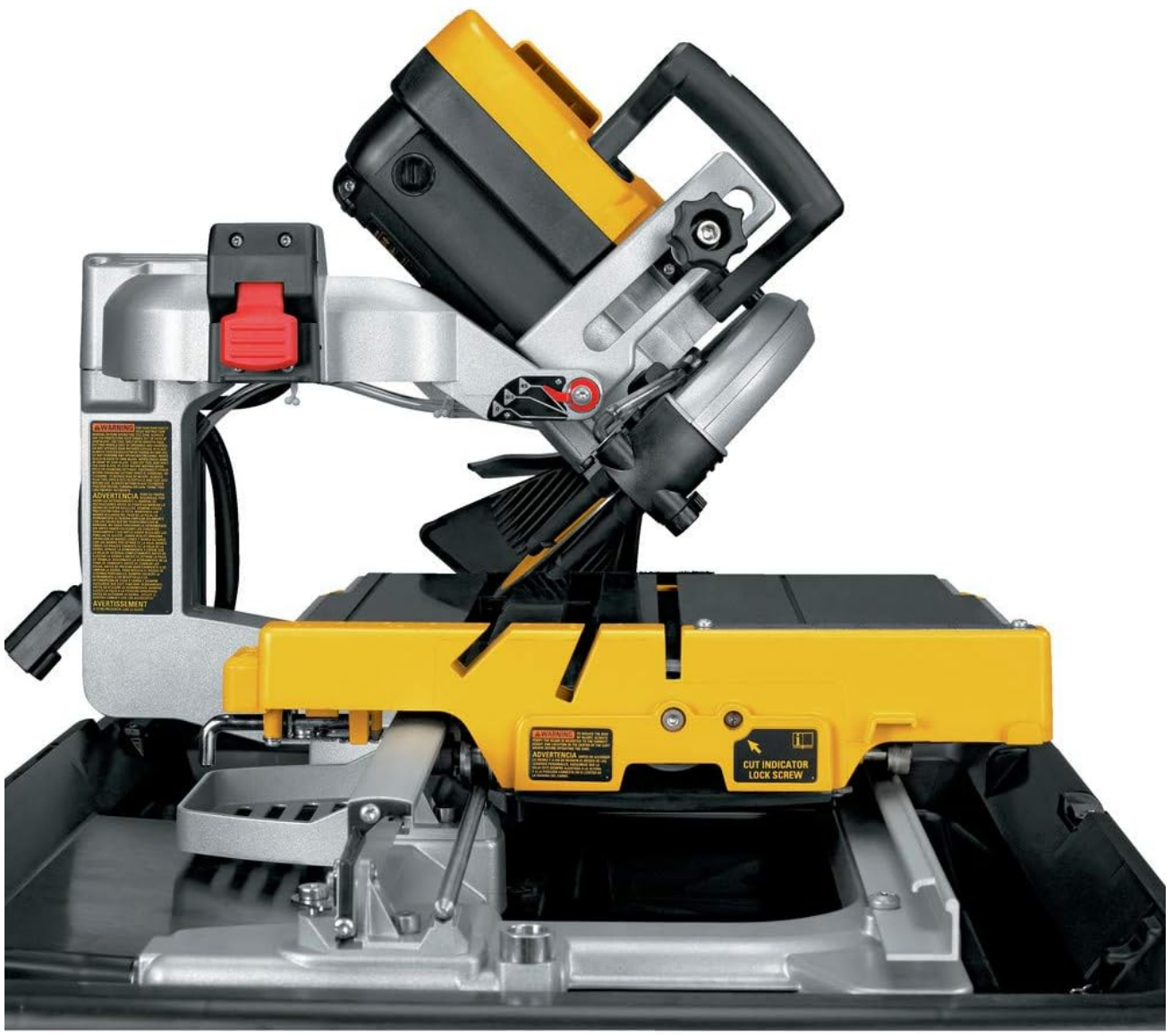


Figure 4.2: The DEWALT D24000 saw head tilted, demonstrating its capability for precise bevel cuts.

#### 4.4 Plunge Cuts

- The plunge feature allows for cuts in the middle of a tile, useful for accommodating electrical outlets or other fixtures.
- Position the tile and mark the area for the plunge cut.
- Lower the spinning blade slowly into the tile at the marked starting point.
- Once the blade has fully penetrated, proceed with the cut as needed.



Figure 4.3: Close-up of the cut indicator lock screw on the DEWALT D24000, used for precise adjustments.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your DEWALT D24000 wet tile saw.

### 5.1 Cleaning

- **After each use, disconnect the power supply.**
- Drain the water pan using the drain plug.
- Remove the cutting cart and water attachments for thorough cleaning. This prevents build-up of tile slurry, which can affect performance and cause wear.
- Rinse all components with clean water. Use a brush to remove stubborn debris.
- Wipe down the saw frame and motor housing.

### 5.2 Blade Care and Replacement

- Inspect the diamond blade regularly for wear, cracks, or damage. A dull or damaged blade can lead to poor cut quality and increased strain on the motor.
- Replace the blade when it shows signs of significant wear or damage. Refer to Section 3.4 for blade installation instructions.
- For optimal results on delicate materials like porcelain, consider using high-quality aftermarket blades designed for fine cuts.

### 5.3 Rail System

- Keep the stainless steel rail system clean and free of debris to ensure smooth operation of the cutting cart.
- Periodically apply a light coat of silicone spray or a non-petroleum-based lubricant to the rails to maintain smooth gliding action.

## 6. TROUBLESHOOTING

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This section addresses common issues you might encounter with your DEWALT D24000 wet tile saw.

Problem	Possible Cause	Solution
Saw does not start	No power supply; tripped circuit breaker; faulty switch.	Check power connection; reset circuit breaker; contact service center if switch is faulty.
Poor cut quality (chipping, rough edges)	Dull or incorrect blade; improper water flow; incorrect cutting speed; misaligned blade.	Replace blade with appropriate type for material; adjust water nozzles; reduce cutting speed; check blade alignment (Section 3.4).
Excessive water mist/spray	Improper water nozzle adjustment; high water pressure; missing water attachments.	Adjust water nozzles; ensure rear and side water attachments are in place; consider external bucket for pump to reduce pressure.
Cutting cart sticks or is difficult to move	Slurry buildup on rails; damaged rail system.	Clean rail system thoroughly; lubricate rails (Section 5.3); inspect for damage.
Blade not cutting at 90 degrees	Blade alignment issue.	Adjust blade alignment using a square (Section 3.4).

## 7. SPECIFICATIONS

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Technical specifications for the DEWALT D24000 10-Inch Wet Tile Saw.

Feature	Detail
Brand	DEWALT
Model Number	D24000
Power Source	Corded Electric (120 Volts)
Amperage	15.0 Amps

Feature	Detail
Horsepower	1.5 HP
Blade Diameter	10 Inches
Speed	4200 RPM
Max Rip Capacity	24 inches (tile)
Diagonal Cut Capacity	18 inches (tile)
Max Depth of Cut	3-1/8 inches
Cutting Angle	22.5 and 45 Degrees (miter stops)
Water Pan Material	ABS Plastic
Product Dimensions (Housing Only)	34"L x 26"W
Item Weight	69 lbs (approx. 31.3 kg)
Included Components	10" Wet Tile Saw

## 8. WARRANTY AND SUPPORT

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DEWALT provides comprehensive support and warranty coverage for the D24000 Wet Tile Saw.

- **Three-Year Limited Warranty:** Covers defects in materials or workmanship for three years from the date of purchase.
- **One-Year Free Service Contract:** Provides one year of free service for the tool.
- **90-Day Money-Back Guarantee:** Allows for a full refund within 90 days of purchase if you are not completely satisfied.

For detailed warranty information, service locations, or technical assistance, please visit the official DEWALT website or contact DEWALT customer support.