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DEWALT DW3521

DeWalt DW3521 7-Inch X 1/8-Inch Masonry Abrasive Blade

INSTRUCTION MANUAL

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the DeWalt DW3521 7-Inch X 1/8-Inch Masonry Abrasive Blade. This blade is engineered with premium silicon carbide grain for extended life and rapid cutting, featuring a proprietary material mix that ensures durable, long-lasting performance. It incorporates two full sheets of fiberglass for enhanced durability and safety during operation. The diamond knockout arbor is designed for compatibility with worm drive saws.



Image 1.1: The DeWalt DW3521 7-Inch X 1/8-Inch Masonry Abrasive Blade. This image displays the front of the abrasive blade, highlighting its specifications, safety warnings, and the DEWALT brand logo. The blade is black with a yellow center label.

2. Safety Information

Always prioritize safety when working with power tools and abrasive blades. Failure to follow these instructions may result in serious injury.

- **Personal Protective Equipment (PPE):** Always wear appropriate eye protection (safety glasses or goggles), face protection (face shield), body protection, and respiratory protection (dust mask or respirator) when operating the blade. Cutting masonry materials generates fine dust that can be harmful if inhaled.
- **Tool Compatibility:** Ensure the blade is used only with compatible tools, such as chop saws, that are designed for abrasive blades of this size and type. Verify the arbor size matches your saw's spindle.
- **Blade Inspection:** Before each use, inspect the blade for any signs of damage, cracks, or wear. Do not use a damaged blade.
- **Proper Mounting:** Mount the blade securely on the saw, ensuring it is properly seated and tightened according to

your saw's instruction manual. The diamond knockout arbor is designed for specific saw types.

- **Workpiece Security:** Secure the workpiece firmly to prevent movement during cutting. Unsecured workpieces can cause kickback or blade damage.
- **Ventilation:** Work in a well-ventilated area to minimize exposure to dust and debris.
- **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.

3. Setup

Proper setup is crucial for safe and efficient operation.

1. **Unpack the Blade:** Carefully remove the blade from its packaging.
2. **Inspect the Blade:** Visually inspect the blade for any manufacturing defects or shipping damage. Do not use if damaged.
3. **Prepare the Saw:** Ensure your chop saw is unplugged from the power source before attempting to install or remove any blades.
4. **Mount the Blade:** Align the blade's arbor hole with the saw's spindle. Ensure the blade is oriented correctly for cutting (check directional arrows if present). Secure the blade using the saw's retaining nut and flange, tightening it firmly but without over-tightening.
5. **Check for Clearance:** Before powering on, manually rotate the blade to ensure it clears all guards and components of the saw.

4. Operating Instructions

Follow these steps for effective and safe cutting of masonry materials.

1. **Wear PPE:** Always put on all required personal protective equipment (eye, face, body, and respiratory protection) before starting the saw.
2. **Secure Workpiece:** Place the masonry material firmly against the saw's fence and clamp it securely to prevent movement during the cut.
3. **Start the Saw:** Turn on the saw and allow the blade to reach full operating speed before beginning the cut.
4. **Perform the Cut:** Slowly and steadily lower the spinning blade into the workpiece. Apply consistent, moderate pressure. Do not force the blade through the material, as this can lead to overheating, premature wear, or blade breakage.
5. **Maintain Control:** Keep a firm grip on the saw and maintain control throughout the cutting process.
6. **Complete the Cut:** Once the cut is complete, allow the blade to stop spinning before raising it from the workpiece.
7. **Unplug Saw:** Always unplug the saw when not in use or before performing any adjustments or maintenance.

5. Maintenance

Abrasive blades are consumable items and will wear down with use. While they do not require sharpening, proper handling and storage can extend their effective life.

- **Storage:** Store blades in a dry place, away from moisture and extreme temperatures, to prevent degradation of the bonding material.

- **Cleaning:** After use, gently brush off any accumulated dust or debris from the blade. Do not use solvents or harsh chemicals.
- **Disposal:** Dispose of worn or damaged blades responsibly according to local regulations.

6. Troubleshooting

If you encounter issues during operation, consider the following:

- **Slow Cutting/Excessive Heat:** This may indicate the blade is worn, or you are applying too much pressure. Reduce pressure or replace the blade if it is significantly worn.
- **Excessive Dust:** Ensure you are using appropriate respiratory protection. Check if your saw's dust collection system (if applicable) is functioning correctly.
- **Blade Wobble/Vibration:** Unplug the saw and check if the blade is mounted correctly and securely. Ensure the arbor and flanges are clean and free of debris. If the issue persists, the blade may be damaged and should be replaced.
- **Blade Breakage:** This is a serious safety concern. Immediately stop operation. Blade breakage can be caused by improper mounting, excessive side pressure, hitting an obstruction, or using a damaged blade. Always ensure proper technique and inspect blades before use.

7. Specifications

Feature	Specification
Model Number	DW3521
Blade Diameter	7 inches (180mm)
Blade Thickness	1/8 inch (3mm)
Arbor Size	Diamond Knockout
Grit Material	Silicon Carbide
Grit Type	Coarse (80 grit)
Construction Type	Coated, with 2 full sheets of fiberglass
Compatible Devices	Chop Saws
Item Weight	4.8 ounces
Product Dimensions	7"L x 7"W
UPC	028874035218

8. Warranty and Support

The DeWalt DW3521 Masonry Abrasive Blade comes with a**3 Year Limited Warranty**. For warranty claims, technical support, or further assistance, please contact DEWALT customer service or visit the official DEWALT website. Keep your purchase receipt as proof of purchase.

For more information, visit the official DEWALT website:www.dewalt.com

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