

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [DEWALT](#) /

› [DEWALT DW3511 7-Inch Metal Abrasive Blade Instruction Manual](#)

DEWALT DW3511

DEWALT DW3511 7-Inch Metal Abrasive Blade

Instruction Manual

1. INTRODUCTION

The DEWALT DW3511 is a 7-inch by 1/8-inch metal abrasive blade engineered for efficient and fast cutting of various metal materials. This blade is designed for use with compatible power tools such as angle grinders and worm drive saws. Its construction features an aluminum oxide grain for extended life and quick material removal, combined with a proprietary material mix to ensure durable, long-lasting performance. The diamond knockout arbor facilitates secure mounting on appropriate tools.



Image 1.1: Front view of the DEWALT DW3511 7-inch metal abrasive blade.

2. SAFETY INFORMATION

Always prioritize safety when operating power tools and using abrasive blades. Failure to follow safety guidelines can result in serious injury.

- **Personal Protective Equipment (PPE):** Always wear ANSI-approved safety glasses or a face shield, hearing protection, and heavy-duty gloves. A dust mask is recommended to avoid inhaling metal particles.
- **Tool Compatibility:** Ensure the abrasive blade's maximum RPM rating is equal to or greater than the maximum RPM of your power tool. The DW3511 is compatible with angle grinders and worm drive saws.
- **Blade Inspection:** Before each use, inspect the blade for any signs of damage, such as cracks, chips, or excessive wear. Never use a damaged blade.
- **Secure Workpiece:** Always secure the material being cut to prevent movement during operation. Use clamps or a vise.
- **Proper Installation:** Ensure the blade is correctly installed and securely tightened on the tool's arbor. Refer to the tool's instruction manual for specific installation procedures.

- **Cutting Technique:** Apply steady, even pressure. Do not force the blade through the material. Allow the blade to do the cutting. Avoid side pressure, which can cause the blade to bind or shatter.
- **Spark and Debris Control:** Be aware that cutting metal produces sparks and hot debris. Ensure no flammable materials are in the vicinity.
- **Maintain Clear Area:** Keep hands, body, and loose clothing away from the rotating blade.

3. SETUP AND INSTALLATION

Proper installation of the abrasive blade is crucial for safe and effective operation.

1. **Disconnect Power:** Always ensure your power tool is unplugged or its battery is removed before attempting to install or remove any accessories.
2. **Consult Tool Manual:** Refer to your specific power tool's instruction manual for detailed blade installation procedures, as steps may vary slightly between models.
3. **Remove Old Blade (if applicable):** If replacing an existing blade, use the appropriate wrench or tool to loosen the arbor nut and carefully remove the old blade.
4. **Clean Arbor:** Ensure the tool's arbor and flanges are clean and free of debris or rust to allow for proper blade seating.
5. **Align Blade:** Place the DEWALT DW3511 blade onto the arbor, ensuring the diamond knockout arbor hole aligns correctly with the tool's arbor. The blade should sit flush against the inner flange.
6. **Secure Blade:** Reinstall the outer flange and arbor nut. Tighten the arbor nut securely using the provided wrench. Do not overtighten.
7. **Check Rotation:** Verify that the blade is installed with the correct direction of rotation, usually indicated by an arrow on the blade and the tool.

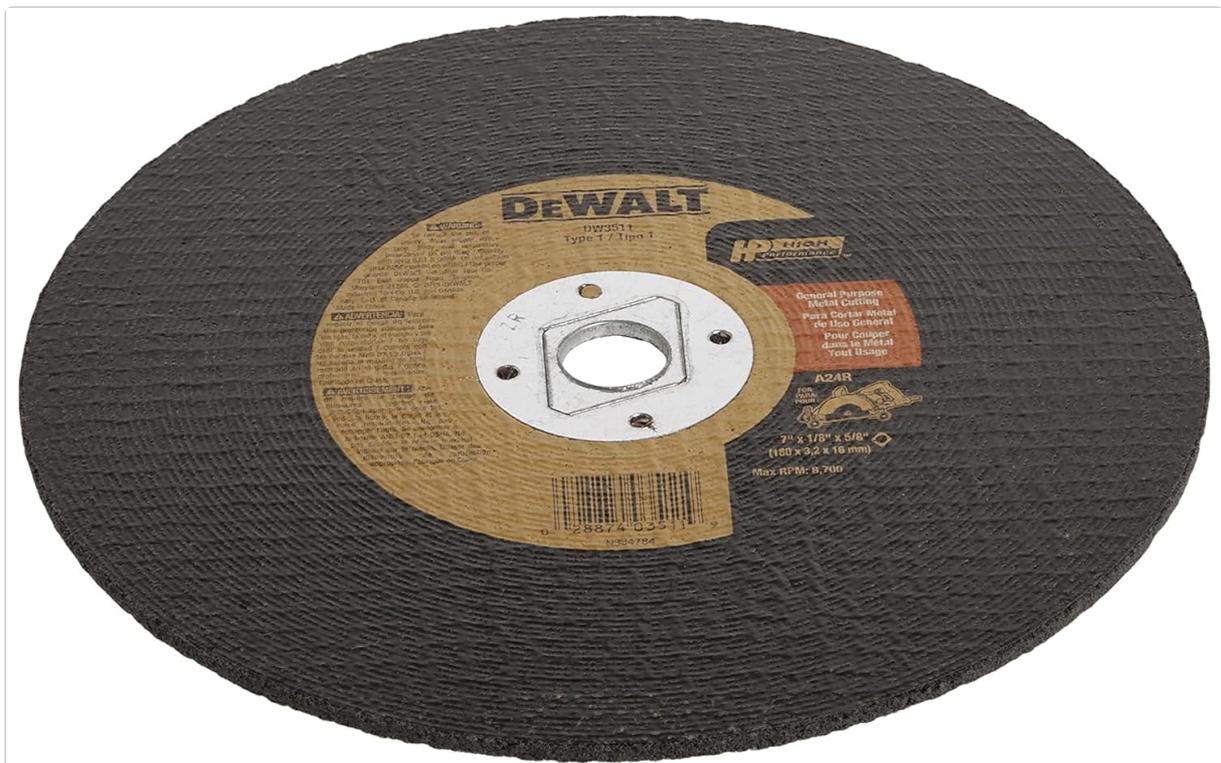


Image 3.1: Detail of the DEWALT DW3511 blade showing the label and diamond knockout arbor.

4. OPERATING INSTRUCTIONS

Follow these guidelines for effective and safe metal cutting with your DEWALT DW3511 abrasive blade.

1. **Prepare Work Area:** Ensure your work area is well-lit, clear of obstructions, and free from flammable materials.
2. **Secure Workpiece:** Firmly clamp the metal workpiece to a stable surface. Movement of the workpiece during cutting can lead to kickback or blade damage.
3. **Start Tool:** Before making contact with the workpiece, start the power tool and allow the blade to reach full operating speed.
4. **Initiate Cut:** Gently bring the rotating blade into contact with the material. Apply steady, moderate pressure. Do not force the blade, as this can cause overheating, premature wear, or blade breakage.
5. **Maintain Cut:** Guide the tool smoothly through the material, maintaining a consistent cutting line. Avoid twisting or bending the blade during the cut.
6. **Allow Cooling:** For prolonged cuts or thick materials, periodically lift the blade from the workpiece to allow it to cool. This helps extend blade life and prevents overheating.
7. **Complete Cut:** Once the cut is complete, allow the blade to stop rotating completely before setting the tool down.

5. MAINTENANCE

Proper maintenance ensures the longevity and safe performance of your abrasive blade.

- **Regular Inspection:** Before and after each use, visually inspect the blade for any signs of wear, cracks, chips, or discoloration. Discard any blade that shows damage.
- **Cleaning:** After use, gently brush off any accumulated metal dust or debris from the blade. Do not use harsh chemicals or solvents.
- **Storage:** Store abrasive blades in a dry, cool place, away from direct sunlight and moisture. Keep them in their original packaging or a protective container to prevent damage.
- **Avoid Impact:** Do not drop or strike the blade, as this can cause unseen damage that may lead to breakage during operation.

6. TROUBLESHOOTING

If you encounter issues while using your DEWALT DW3511 abrasive blade, consider the following:

Problem	Possible Cause	Solution
Poor cutting performance / Slow cutting	Worn blade; Insufficient pressure; Incorrect blade for material	Replace blade; Increase pressure slightly; Ensure blade is suitable for metal cutting.
Excessive sparks / Overheating	Too much pressure; Blade binding; Incorrect RPM	Reduce pressure; Ensure workpiece is secure and cut path is clear; Verify tool RPM is within blade's rating.
Blade vibration / Instability	Improper installation; Damaged blade; Loose arbor nut	Re-install blade correctly; Inspect for damage and replace if necessary; Tighten arbor nut securely.

Problem	Possible Cause	Solution
Blade breakage	Side pressure; Dropped blade; Excessive force; Damaged blade	Always apply straight pressure; Handle blades carefully; Replace damaged blades immediately.

7. SPECIFICATIONS

Key technical details for the DEWALT DW3511 Metal Abrasive Blade:

- **Model Number:** DW3511
- **Blade Diameter:** 7 inches (177.8 mm)
- **Blade Thickness:** 1/8 inch (3.2 mm)
- **Arbor Type:** Diamond Knockout
- **Grit Material:** Aluminum Oxide
- **Grit Type:** Medium
- **Grit Number:** 80
- **Construction Type:** Coated
- **Compatible Devices:** Angle Grinder, Worm Drive Saws
- **Product Dimensions:** 7"L x 7"W
- **Item Weight:** 0.16 ounces
- **UPC:** 028874035119

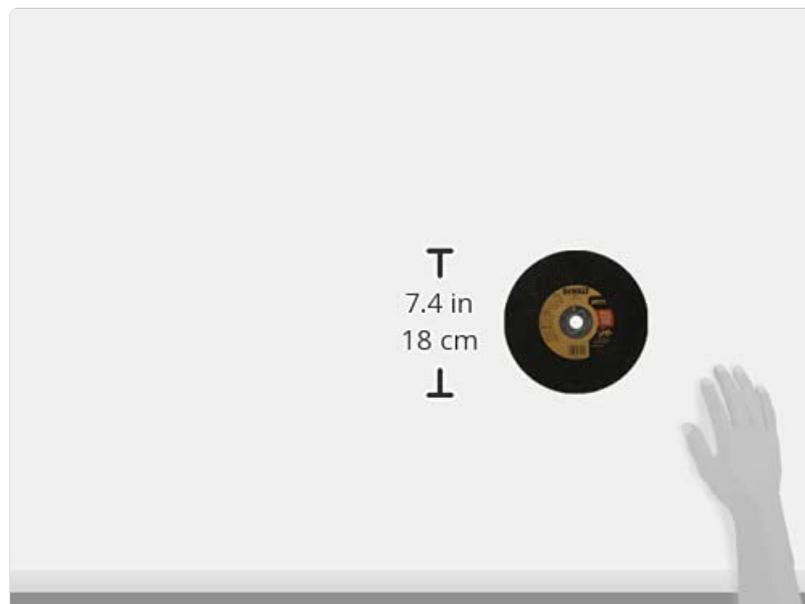


Image 7.1: DEWALT DW3511 blade illustrating its dimensions.

8. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or service, please refer to the official DEWALT website or contact DEWALT customer service directly. Warranty terms and conditions may vary by region and purchase date.

You can visit the official DEWALT store for more product information and support: [DEWALT Store](#)

