

Dremel 678-02

Dremel 678 Circle Cutter and Straight Edge Guide Rotary Tool Attachment User Manual

Model: 678-02

INTRODUCTION

The Dremel 678 Circle Cutter and Straight Edge Guide is an attachment designed to enhance the functionality of your Dremel rotary tool. This attachment allows for precise cutting of circles and routing in straight lines, expanding the versatility of your tool for various projects.

INCLUDED COMPONENTS

The Dremel 678 attachment package includes the following items:

- 1x Straight Edge Guide
- 1x Circle Cutter Attachment
- 1x Instructions Manual



Image: The Dremel 678 attachment showing its main components, including the guide arm and the rotary tool mounting base.

COMPATIBILITY

This attachment is compatible with a range of Dremel rotary tool models:

- Dremel Models: 100, 200, 3000, 4000, 8220, 8240, 8250, and 8260.
- It also fits Dremel Model 4300 when used with a collet and collet nut (sold separately if not included with your tool).

SETUP INSTRUCTIONS

Follow these steps to properly attach and prepare the Dremel 678 for use:

1. **Prepare the Rotary Tool:** Ensure your Dremel rotary tool is unplugged or its battery is removed before attaching any accessories. Remove any existing nose piece or attachment from the rotary tool.
2. **Attach the Guide:** Screw the Dremel 678 attachment onto the threaded collar of your rotary tool until it is secure. Hand-tighten only.
3. **Insert Cutting Bit:** Insert the desired cutting or routing bit into the collet of your Dremel tool and tighten it securely using the collet wrench.
4. **Adjust Cutting Depth:** Use the depth adjustment mechanism on the attachment to set the desired cutting depth. Ensure the bit extends sufficiently for your material thickness.
5. **Set for Circle Cutting:** For cutting circles, adjust the guide arm to the desired radius. The attachment features measurement guides in both inches and centimeters for precise setting. Secure the guide arm in place.
6. **Set for Straight Edge Routing:** For straight-line routing, position the straight edge guide against the edge of your workpiece. Ensure it is parallel to your intended cut line and secured.

Your browser does not support the video tag.

Video: Official Dremel demonstration showing the attachment and setup of the Circle Cutter and Straight Edge Guide. This video illustrates how to prepare the tool for use.



Image: A user adjusting the guide arm of the Dremel 678 attachment to set the desired radius for a circular cut, utilizing the integrated measurement markings.

OPERATING INSTRUCTIONS

Cutting Circles

The Dremel 678 can cut perfect circles ranging from 3/4 inch (1.9 cm) to 12 inches (30 cm) in diameter.

1. **Mark Center Point:** On your workpiece, mark the exact center of where you want to cut the circle.
2. **Position Pivot Pin:** Place the pivot pin of the circle cutter attachment directly onto the marked center point.
3. **Start Cutting:** Turn on your Dremel rotary tool. Slowly plunge the cutting bit into the material. Maintain a firm, steady grip on the tool, keeping it perpendicular to the workpiece.
4. **Rotate Tool:** Gently rotate the Dremel tool around the pivot pin in a clockwise direction, applying even pressure. Make multiple shallow passes if cutting through thicker or harder materials to avoid overheating the bit and ensure a clean cut.
5. **Complete Cut:** Continue rotating until the circle is fully cut. Turn off the tool and carefully remove it from the workpiece.



Image: A Dremel rotary tool equipped with the circle cutter attachment actively cutting a circular shape from a patterned material. The user maintains a steady hand while guiding the tool.



Image: The Dremel 678 attachment being used to cut a precise circle into a wooden board. The pivot point is visible at the center of the intended cut.

Routing with the Straight Edge Guide

The straight edge guide allows for accurate routing or cutting in a straight line, ideal for grooves, dados, or edge trimming.

1. **Secure Workpiece:** Ensure your workpiece is securely clamped to prevent movement during routing.
2. **Align Guide:** Position the straight edge guide against the desired straight edge of your material. Ensure the cutting bit is aligned with your intended cut line.
3. **Start Routing:** Turn on your Dremel rotary tool. Slowly lower the cutting bit into the material.
4. **Guide Tool:** Maintain constant contact between the straight edge guide and the workpiece edge. Move the Dremel tool steadily along the guide, applying even pressure. For deeper cuts, make multiple passes, gradually increasing the depth.
5. **Complete Routing:** Continue until the desired length of the cut is achieved. Turn off the tool and remove it.



Image: A Dremel rotary tool utilizing the straight edge guide to precisely route a rectangular opening in a wooden door, demonstrating its use for straight-line cuts.



Image: The Dremel 678 attachment configured as a straight edge guide, being used to cut a groove into a wooden floorboard, ensuring a consistent and straight cut.

MAINTENANCE

Proper maintenance ensures the longevity and performance of your Dremel 678 attachment:

- **Cleaning:** After each use, disconnect the attachment from the rotary tool. Use a brush or compressed air to remove dust and debris from the attachment, especially around moving parts and adjustment mechanisms.
- **Inspection:** Regularly inspect the attachment for any signs of wear, damage, or loose components. Ensure all screws and fasteners are tight.
- **Storage:** Store the attachment in a clean, dry place, away from extreme temperatures and moisture.
- **Bit Condition:** Always use sharp and appropriate cutting bits. Dull or damaged bits can lead to poor performance and potential safety hazards.

TROUBLESHOOTING

If you encounter issues while using the Dremel 678 attachment, consider the following:

- **Inaccurate Cuts:**
 - Ensure the attachment is securely fastened to the rotary tool.
 - Verify that the cutting bit is properly tightened in the collet.
 - Check that the pivot pin or straight edge guide is firmly set and not shifting during operation.
 - Apply consistent pressure and maintain a perpendicular angle to the workpiece.
- **Difficulty Cutting:**
 - Ensure the cutting bit is sharp and suitable for the material.
 - Adjust the cutting depth to make shallower passes, especially for harder or thicker materials.
 - Check the speed setting of your Dremel tool; adjust as recommended for the specific bit and material.
- **Excessive Vibration:**
 - Confirm the cutting bit is correctly inserted and balanced.
 - Ensure the attachment is tightly secured to the rotary tool.
 - Inspect the bit for damage or bending.

SPECIFICATIONS

Model Number	678-02
Brand	Dremel
Cutting Diameter (Circles)	3/4 in. - 12 in. (1.9 cm - 30 cm)
Material	Precision Stamped Steel Construction
Features	Depth Adjustment, Measurement Guides (Inches & Centimeters)
Included Components	Straight Edge Guide, Circle Cutter Attachment, Instructions
Item Dimensions	3.39 x 2.03 x 8.25 inches

WARRANTY INFORMATION

The Dremel 678 Circle Cutter and Straight Edge Guide attachment is covered by a **2-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, refer to the official Dremel warranty documentation or contact Dremel customer support.

SUPPORT

For further assistance, detailed instructions, or to contact customer support, please refer to the following resources:

- **Official User Guide (PDF):** [Download PDF Manual](#)
- **Dremel Website:** Visit the official Dremel website for product information, FAQs, and contact details.
- **Customer Service:** Contact Dremel customer service for technical support or warranty inquiries.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question