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› Dremel SM20-03 Saw-Max Tool Kit User Manual

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Model: SM20-03

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your Dremel SM20-03 Saw-Max Tool Kit. Please read this manual thoroughly before operating the tool and retain it for future reference.

The Dremel Saw-Max is a versatile cutting tool designed for various materials including wood, plastic, metal, and tile. Its compact design allows for single-handed operation and excellent maneuverability, making it suitable for precise cuts.



Figure 1: Dremel SM20-03 Saw-Max Tool Kit, showcasing the tool with a wood/plastic blade and an additional metal blade.

SAFETY INFORMATION

Always prioritize safety when operating power tools. Familiarize yourself with all safety warnings and instructions provided with the product. Wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves.

- Ensure the work area is clean and well-lit.
- Keep children and bystanders away while operating a power tool.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Always unplug the tool before making any adjustments, changing accessories, or storing the tool.
- Maintain a firm grip on the tool with one hand during operation.
- Be aware of the superior line of sight feature, which aids in precise cutting.

SETUP

Unpacking and Contents

Carefully remove all components from the packaging. Verify that all included items are present:

- Dremel SM20 Saw-Max Tool

- SM500 Wood/Plastic Blade
- SM510 Metal Blade
- Instruction Manual



Figure 2: Front view of the Dremel Saw-Max product packaging.



Figure 3: Rear view of the Dremel Saw-Max product packaging, detailing included accessories and features.

Blade Installation

1. Ensure the tool is unplugged from the power source.
2. Locate the spindle lock button on the tool.
3. Press and hold the spindle lock button.
4. Using the provided wrench, loosen the blade screw by turning it counter-clockwise.
5. Remove the old blade (if any) and position the new blade (SM500 for wood/plastic or SM510 for metal) onto the spindle, ensuring the rotation arrow on the blade matches the arrow on the tool.
6. Tighten the blade screw clockwise with the wrench while holding the spindle lock button. Do not overtighten.

OPERATING INSTRUCTIONS

The Dremel Saw-Max is designed for versatile cutting applications. Its powerful 6-Amp motor allows it to tackle tough materials efficiently.

General Operation

- Connect the tool to a 120-volt power outlet.
- To start the tool, press the safety button and then the power trigger. Release the safety button once the tool is running.
- Allow the blade to reach full speed before beginning a cut.
- Apply steady, even pressure. Do not force the tool through the material.
- Maintain a clear line of sight to the cutting area for accuracy.

Cutting Applications

Wood and Plastic Cutting



Figure 4: The Dremel Saw-Max being used to cut wood flooring, demonstrating its capability for straight cuts in wood.

Use the SM500 Wood/Plastic blade for cutting various types of wood and plastic materials. The compact design allows for precise cuts, including flush cuts and plunge cuts.

Cutting with a Guide



Figure 5: The Dremel Saw-Max utilizing a cutting guide for enhanced precision on a wooden workpiece.

For increased accuracy, especially on longer cuts or when working with specific angles, attach and use a cutting guide. Ensure the guide is securely clamped to the workpiece.

Metal Cutting



Figure 6: The Dremel Saw-Max cutting through metal mesh, illustrating its capability for metal applications with appropriate blades.

When cutting metal, use the SM510 Metal blade. Be aware that sparks will be generated during metal cutting. Ensure proper ventilation and clear the area of flammable materials.

Molding and Trim Cutting



Figure 7: The Dremel Saw-Max precisely cutting a piece of decorative molding, highlighting its utility for detailed trim work. The Saw-Max is suitable for cutting various types of molding and trim. Use a guide or clamp the material securely to achieve clean, accurate cuts.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Dremel Saw-Max tool.

Cleaning

- Always unplug the tool before cleaning.
- Use a soft, damp cloth to wipe down the exterior of the tool. Do not use harsh chemicals or abrasive cleaners.
- Periodically clear dust and debris from the ventilation openings to prevent overheating.

Blade Care and Replacement

- Inspect blades before each use for any signs of damage, cracks, or excessive wear. Replace damaged blades immediately.
- Store blades in a dry, protected area to prevent rust and damage.
- Refer to the "Blade Installation" section under Setup for replacement instructions.

TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Tool does not start.	No power supply; Safety button not pressed; Faulty power cord.	Check power outlet and cord connection; Ensure safety button is pressed before trigger; Inspect power cord for damage.
Blade not cutting efficiently.	Dull or incorrect blade; Excessive pressure; Material too thick.	Replace with a sharp, appropriate blade; Reduce cutting pressure; Ensure material is within tool's cutting capacity (max 3/4 inch).
Tool overheats.	Blocked ventilation; Continuous heavy use.	Clear ventilation openings; Allow tool to cool down during prolonged use.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Dremel customer service.

SPECIFICATIONS

Feature	Detail
Model Number	SM20-03
Brand	Dremel
Voltage	120 Volts
Power Source	Corded Electric
Motor	6-Amp
Recommended Uses	Cutting, Trimming
Included Components	SM20 SawMax Tool, SM500 Wood/Plastic Blade, SM510 Metal Blade
Item Weight	4.5 Pounds
Product Dimensions (L x W x H)	14.25 x 5.5 x 4 inches
Material	Plastic
Max Cut Depth	Up to 3/4 inch

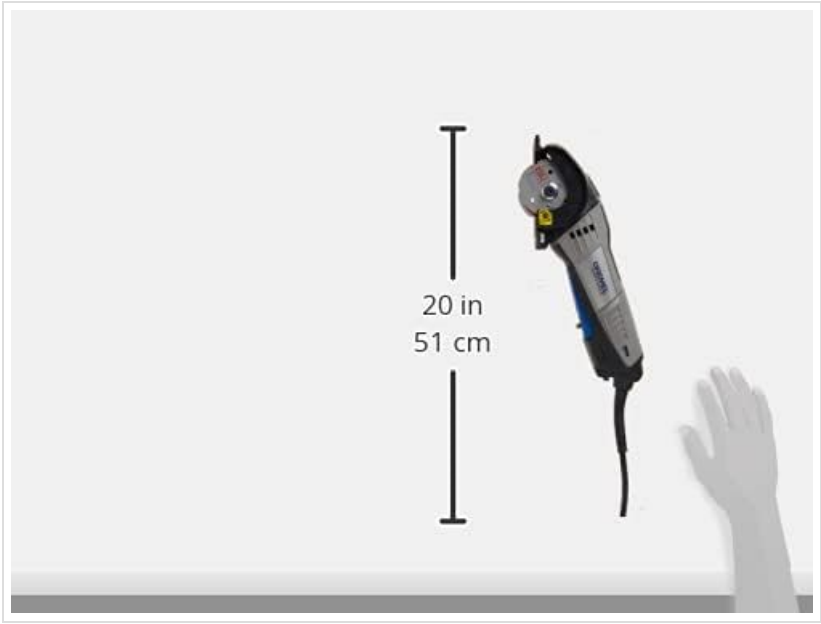


Figure 8: Dremel Saw-Max tool with approximate dimensions indicated.

WARRANTY AND SUPPORT

Warranty Information

The Dremel SM20-03 Saw-Max Tool Kit comes with a **2-year limited warranty**. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official Dremel website or contact customer service.

Customer Support

Dremel is committed to providing excellent customer service. Our USA-based customer service team is available to assist

you with any questions or concerns regarding your product.

- **Contact Options:** Chat, Email, Phone.
- **Visit Us:** Racine, WI.
- **Online Resources:** For additional information, product registration, and FAQs, please visit the official Dremel website: m.dremel.com/2006



Figure 9: Dremel's USA-based customer service team building, highlighting available support channels.

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ASK A QUESTION ABOUT THIS MANUAL

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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