

Dremel 290-02

Dremel 290-02 Electric Engraver with Letter/Number Template User Manual

MODEL: 290-02

Brand: Dremel

1. Introduction

This manual provides instructions for the Dremel 290-02 Electric Engraver, a versatile tool designed for personalizing and decorating various materials such as metal, plastic, glass, ceramic, wood, and leather. It features a soft-grip body, variable stroke control for fine lines or deep grooves, and a replaceable carbide engraving point. A letter and number stencil template is included to assist with engraving.

2. Safety Information

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- Wear appropriate eye protection (safety glasses or goggles) to shield against flying debris.
- Ensure adequate ventilation when working, especially with materials that may produce dust or fumes.
- Secure your workpiece firmly to prevent movement during engraving.
- Unplug the tool from the power source before changing accessories or performing any maintenance.
- Keep hands and fingers away from the engraving point during operation.
- Do not operate the tool in damp or wet conditions.
- Store the tool in a dry, secure place out of reach of children.

3. Package Contents

The Dremel 290-02 Electric Engraver kit typically includes the following items:

- Dremel 290-02 Electric Engraver Tool
- 9924 Carbide Engraving Point
- Letter/Number Stencil Template



Image: Dremel 290-02 Engraver Kit Contents, including the engraver tool, a carbide engraving point, and a letter/number stencil template.

4. Setup

4.1. Installing the Engraving Point

1. Ensure the engraver is unplugged from the power source.
2. Locate the set screw on the front collar of the tool.
3. Use a small flat-head screwdriver to loosen the set screw. Do not remove it completely.
4. Insert the carbide engraving point into the opening, ensuring it goes all the way to the bottom.
5. Tighten the set screw firmly to secure the engraving point. Do not overtighten.

5. Operating Instructions

5.1. Powering On and Adjusting Stroke Depth

The Dremel Engraver features an on/off switch and a variable stroke control dial to adjust the engraving depth.

- Plug the engraver into a 120-Volt AC power outlet.
- Turn the tool on using the switch located at the rear of the tool.
- Adjust the variable stroke dial (numbered 1 to 5) to control the engraving depth. A lower number provides a finer line, while a higher number creates a deeper groove. Experiment on scrap material to find the desired setting.



Image: The Dremel 290-02 Engraver highlighting its variable stroke dial and on/off switch for precise control.

5.2. Engraving Techniques

For best results, hold the engraver like a pencil and apply light, consistent pressure. Allow the tool to do the work; excessive force is not necessary and can lead to less precise results.

Using the Stencil Template

The included letter/number stencil template can help create uniform and neat engravings.

- Secure the stencil to your workpiece using tape or a clamp to prevent it from shifting.
- Trace the desired letters or numbers with the engraver, keeping the tip within the stencil's cutouts.
- For deeper engravings, make multiple passes over the same area.

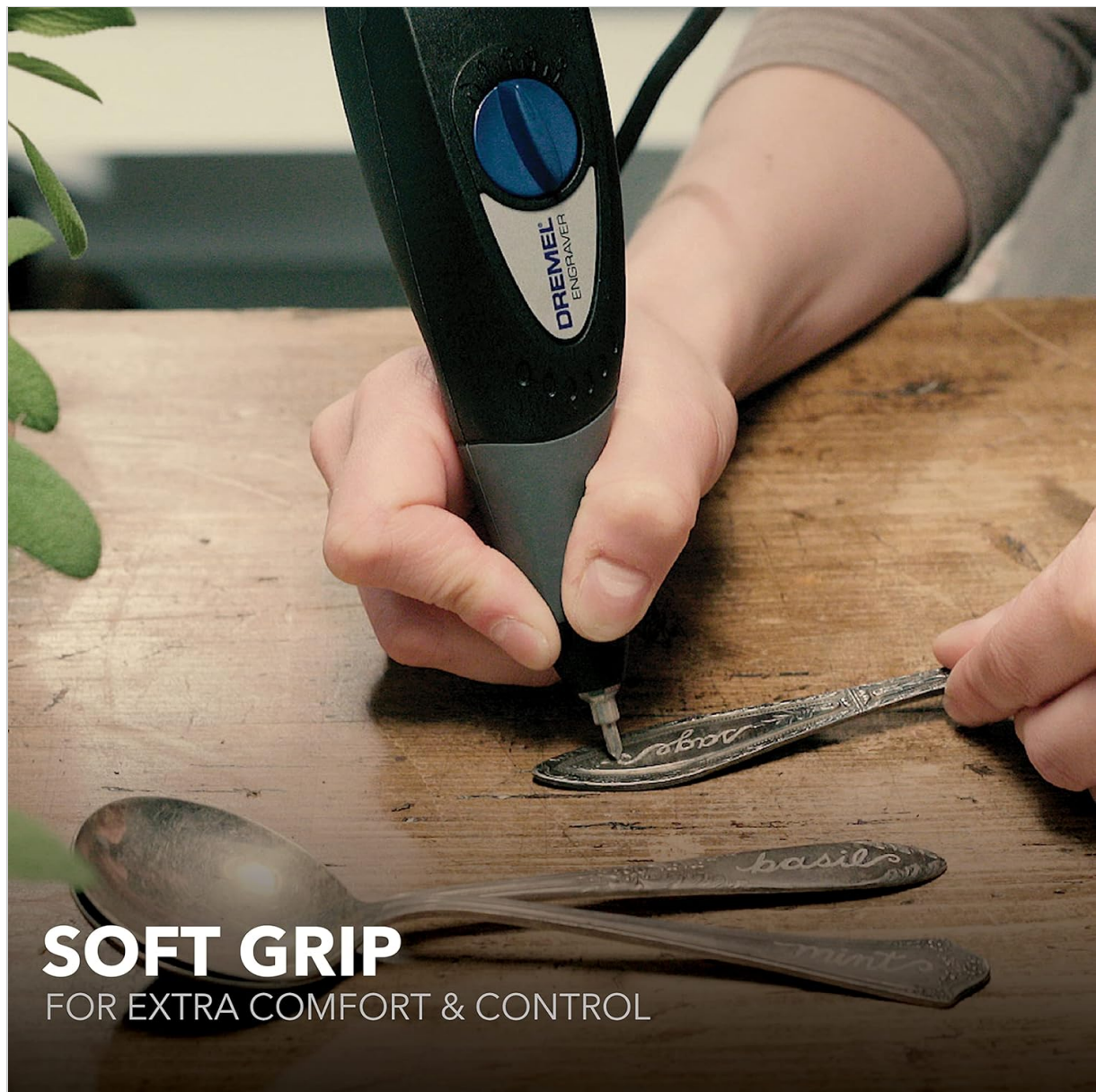
Engraving Different Materials

The Dremel Engraver is suitable for a wide range of materials:

- **Metal:** Use a medium to deep stroke setting. Practice on scrap metal first.
- **Glass & Ceramic:** Use a lighter stroke setting to avoid cracking. Work slowly and steadily.
- **Wood & Leather:** Adjust the stroke depth based on the desired effect, from light scoring to deep carving.
- **Plastic:** Typically requires a lighter stroke setting to prevent melting or excessive material removal.



Image: Engraving a metal hammer with the Dremel 290-02 Engraver.



SOFT GRIP

FOR EXTRA COMFORT & CONTROL

Image: Etching a design onto a metal spoon using the Dremel 290-02 Engraver.



Image: Decorating a terracotta plant pot with the Dremel 290-02 Engraver.

6. Maintenance

6.1. Cleaning and Storage

- Always unplug the tool before cleaning.
- Wipe the tool body with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Remove any debris or dust from the engraving point area.
- Store the engraver and its accessories in a dry, cool place, away from direct sunlight and moisture.

6.2. Replacing the Engraving Point

Engraving points will wear down over time and require replacement. Follow the same steps as installation (Section 4.1) to replace a worn point with a new one.

7. Troubleshooting

Problem	Possible Cause	Solution
Tool does not turn on.	No power supply; faulty switch.	Check power outlet and cord. Ensure switch is in 'ON' position.
Engraving is too light or inconsistent.	Stroke depth too low; worn engraving point; insufficient pressure.	Increase stroke depth setting. Replace engraving point. Apply slightly more pressure.
Engraving is too deep or rough.	Stroke depth too high; excessive pressure.	Decrease stroke depth setting. Reduce pressure.
Tool vibrates excessively.	Loose engraving point.	Ensure engraving point is securely tightened.

8. Technical Specifications

Feature	Specification
Brand	Dremel
Model Number	290-02
Voltage	127 Volts
Power Source	AC
Recommended Uses	Engraving
Color	Black
Special Feature	Lightweight
Included Components	Engraver Tool, Letter/Number Template, 9924 Carbide Point
Item Weight	12 Ounces
Maximum Rotational Speed	7200 RPM
Material	Plastic
Wattage	35 watts

9. Warranty and Support

The Dremel 290-02 Electric Engraver comes with a **2-year limited warranty**. For warranty claims, technical assistance, or customer service, please refer to the contact information provided in your product packaging or visit the official Dremel website.



Image: Dremel 2-Year Limited Warranty information.

For additional resources and product information, visit the [Dremel Store on Amazon](#).