

## Tormek SVD-186R

# Tormek SVD-186 R Gouge Jig Instruction Manual

For Sharpening Woodturning & Woodworking Tools

## 1. INTRODUCTION AND PRODUCT OVERVIEW

The Tormek SVD-186 R Gouge Jig is an essential accessory for achieving precise and repeatable sharp edges on various woodturning and woodworking tools. This jig is specifically designed for fingernail-shaped turning gouges, but it can also be effectively used for bent carving gouges, V-tools, and even violin making knives.

Its robust design ensures a high level of control during the sharpening process, allowing users to replicate chosen profiles with accuracy. This precision minimizes material removal during subsequent sharpenings, requiring only a light touch-up to maintain the edge.

Key features of the SVD-186 R Gouge Jig include:

- Designed for fingernail-shaped turning gouges.
- Enables quick and repeatable production of razor-sharp edges.
- Accommodates various lengths on the side bevel.
- Suitable for bent carving gouges, V-tools, and violin making knives.
- Supports a maximum blade width of 1-3/8 inches.

## 2. SAFETY INFORMATION

Always prioritize safety when operating sharpening equipment. Failure to follow safety guidelines can result in injury or damage to tools.

- **Read the Manual:** Always read and understand the instruction manual for both the Tormek SVD-186 R Gouge Jig and your sharpening machine before use.
- **Eye Protection:** Always wear appropriate eye protection, such as safety glasses or a face shield, to protect against flying debris.
- **Hand Protection:** Use gloves if necessary to protect hands from sharp edges, but ensure they do not interfere with tool control.
- **Stable Work Area:** Ensure your sharpening machine and jig are set up on a stable, level, and well-lit workbench.
- **Tool Condition:** Inspect your tools and the jig for any damage or wear before each use. Do not use damaged equipment.
- **Keep Clear:** Keep hands and fingers away from the rotating grinding wheel or honing wheel during operation.
- **Unplug When Not in Use:** Disconnect the power to your sharpening machine when changing jigs, making

adjustments, or when not in use.

- **Proper Ventilation:** Ensure adequate ventilation, especially when dry grinding, to avoid inhaling dust particles.

### 3. SETUP

---

Proper setup of the Tormek SVD-186 R Gouge Jig is crucial for achieving optimal sharpening results. This jig is designed to work seamlessly with Tormek sharpening systems and compatible grinding machines.



Figure 3.1: The Tormek SVD-186 R Gouge Jig, showing its main components and adjustment points.

1. **Attach to Universal Support:** Insert the shaft of the SVD-186 R Gouge Jig into the universal support bar of your Tormek sharpening machine. Ensure it is securely fastened.
2. **Tool Insertion:** Loosen the clamping screw on the jig and insert the tool (gouge, V-tool, etc.) into the jig's holder. Position the tool so that its cutting edge is aligned correctly with the jig's guides.
3. **Adjust Projection:** Adjust the projection of the tool from the jig. The exact projection will depend on the desired bevel angle and the specific tool being sharpened. Use the micro-adjustment knob on the jig for fine-tuning.
4. **Set Angle:** Use a Tormek Angle Master (or similar angle setting gauge) to precisely set the desired sharpening angle. This is critical for consistent results.
5. **Secure Tool:** Tighten the clamping screw firmly to ensure the tool is held securely in place within the jig. A loose

tool can lead to inconsistent sharpening or damage.



Figure 3.2: The SVD-186 R Gouge Jig attached to a Tormek sharpening system, ready for use with a woodworking tool.

## 4. OPERATING INSTRUCTIONS

The Tormek SVD-186 R Gouge Jig simplifies the process of sharpening complex tool profiles, ensuring a consistent and sharp edge every time.

1. **Initial Shaping (if needed):** If the tool's profile is significantly off or damaged, begin by shaping the tool on a coarser grinding wheel. The jig will guide the tool to create the desired shape and bevel.
2. **Sharpening Motion:** With the sharpening machine running, gently bring the tool's edge into contact with the grinding wheel. For gouges, use a controlled side-to-side rocking motion, following the curve of the tool. The jig's design allows for smooth, controlled movement across the wheel.
3. **Even Pressure:** Apply light, even pressure throughout the sharpening process. Avoid excessive force, which can overheat the tool or damage the grinding wheel.
4. **Check for Burr:** Continue sharpening until a small burr forms along the entire length of the cutting edge. This indicates that the two bevels have met.
5. **Honing and Stropping:** Once the burr is formed, move to a finer grit wheel or a honing wheel to refine the edge and remove the burr. For the sharpest edge, finish with a leather stropping wheel and honing compound.
6. **Repeatability:** The jig's design ensures that once the initial setup is complete, subsequent sharpenings will reproduce the exact same profile and angle, requiring minimal material removal.





Figure 4.1: Demonstrating the precise control offered by the SVD-186 R Gouge Jig during the sharpening of a woodworking tool.

## 5. MAINTENANCE

---

Proper maintenance of your Tormek SVD-186 R Gouge Jig will ensure its longevity and continued precision.

- **Cleaning:** After each use, wipe down the jig with a clean, dry cloth to remove any grinding dust or debris. For stubborn residue, a slightly damp cloth can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a light machine oil to any moving parts or threaded components to ensure smooth operation and prevent corrosion.
- **Storage:** Store the jig in a clean, dry environment, away from excessive moisture or corrosive materials.
- **Inspection:** Regularly inspect the jig for any signs of wear, damage, or loose components. Tighten any loose screws and replace damaged parts if necessary.

## 6. TROUBLESHOOTING

---

If you encounter issues while using your Tormek SVD-186 R Gouge Jig, consider the following common problems and solutions:

- **Inconsistent Edge:**
  - Ensure the tool is securely clamped in the jig.
  - Verify that the universal support bar is firmly locked in place.
  - Check for any play in the jig's components.
  - Ensure consistent pressure and movement during sharpening.

- **Tool Not Getting Sharp:**
  - Confirm the correct sharpening angle is set.
  - Ensure the grinding wheel is properly dressed and not glazed.
  - Check if a burr is forming on the edge; if not, continue sharpening.
  - Consider moving to a finer grit wheel or honing process.
- **Difficulty with Movement:**
  - Clean the jig and universal support bar to remove any debris.
  - Apply a small amount of lubricant to moving parts if they feel stiff.
- **Damage to Tool Edge:**
  - Avoid excessive pressure on the grinding wheel.
  - Ensure the tool is not overheating (especially with dry grinders).
  - Verify the grinding wheel is suitable for the tool material.

## 7. SPECIFICATIONS

---

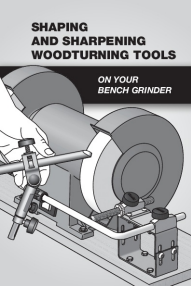

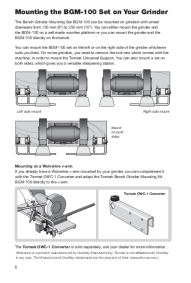



Detailed technical specifications for the Tormek SVD-186 R Gouge Jig:

Specification	Detail
Model Number	SVD-186R
Material	Alloy Steel
Brand	Tormek
Color	Silver, black
Product Dimensions (L x W x H)	8" x 3.1" x 2.1"
Item Weight	14.1 ounces (400 Grams)
Number of Items	1
Manufacturer	TORMEK
Maximum Blade Width	1-3/8 Inch

## 8. WARRANTY AND SUPPORT

---

For detailed warranty information regarding the Tormek SVD-186 R Gouge Jig, please refer to the official Tormek website or the warranty card included with your product packaging. Warranty terms and conditions may vary by region. For product support, technical assistance, or to purchase replacement parts, please visit the official Tormek website or contact their customer service department directly. You can find more information about Tormek products and accessories at the [Tormek Store on Amazon](#).

	<p><a href="#">Shaping and Sharpening Woodturning Tools on Your Bench Grinder - Tormek BGM-100 Guide</a></p> <p>A comprehensive guide for woodturners on using the Tormek Bench Grinder Mounting Set BGM-100, along with Tormek jigs (SVD-186R, SVS-50, SVD-110) and the Turning Tool Setter TTS-100, to shape and sharpen woodturning tools on a standard bench grinder. Covers mounting, safety, accessory usage, and detailed sharpening procedures for various tool types.</p>
	<p><a href="#">Tormek MB-100 Multi Base Instruction Manual   Sharpening Accessory Guide</a></p> <p>Comprehensive instruction manual for the Tormek MB-100 Multi Base, a versatile sharpening accessory for Tormek Diamond Wheels. Learn how to achieve flat bevels for knives, axes, chisels, and other tools with precise angle settings and compatible jigs.</p>
	<p><a href="#">Tormek BGM-100 Bench Grinder Mounting Set Installation Guide</a></p> <p>Instructions for mounting the Tormek BGM-100 Bench Grinder Mounting Set on various grinders, including options for side mounting, dual mounting, and compatibility with Wolverine v-arms. Details on platform construction and component list are provided.</p>
	<p><a href="#">Tormek SC-60 Scissors Jig Instruction Manual</a></p> <p>Learn how to effectively sharpen scissors, hedge shears, and planer blades with the Tormek SC-60 Scissors Jig. This comprehensive instruction manual from Tormek covers setup, angle setting, sharpening techniques, and compatibility with Tormek sharpening systems.</p>
	<p><a href="#">Tormek KJ-45 &amp; KJ-140 Centering Knife Jig Instruction Manual</a></p> <p>Comprehensive instruction manual for the Tormek KJ-45 and KJ-140 Centering Knife Jigs, designed for precise and controlled knife sharpening. Learn how to mount knives, set edge angles, sharpen, and hone various blade types for optimal sharpness and durability. Includes details on jig components, blade thickness and height requirements, and recommended sharpening techniques for different knives.</p>
	<p><a href="#">Tormek KS-123 Knife Angle Setter: User Guide for Precise Sharpening</a></p> <p>Comprehensive guide for the Tormek KS-123 Knife Angle Setter, detailing its compatibility, setup, and usage for achieving accurate sharpening angles on Tormek machines. Includes parts identification and step-by-step instructions.</p>

