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Norton 54459

Norton Crystolon Coarse Grit Sharpening Bench Stone Model 54459 Instruction Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the proper use and maintenance of your Norton Crystolon Coarse Grit Sharpening Bench Stone, Model 54459. This silicon carbide oil stone is designed for efficient material removal and quick restoration of worn edges on various tools and blades.

The coarse grit is specifically formulated to quickly restore severely dull or damaged edges, preparing them for subsequent refinement with finer grit stones (not included).

2. WHAT'S IN THE BOX

- One (1) Norton Crystolon Coarse Grit Sharpening Bench Stone (Model 54459)



Figure 1: The Norton Crystolon Coarse Grit Sharpening Bench Stone, Model 54459, housed within its clear, protective plastic storage case. The stone itself is dark gray and rectangular, designed for coarse sharpening tasks.

3. SETUP

- Preparation:** Ensure your workspace is stable and well-lit. Place the sharpening stone on a non-slip surface.
- Lubrication:** This oil stone is designed to be used with sharpening oil. Apply a generous amount of Norton Abrasives Sharpening Stone Oil (or a suitable alternative) to the surface of the stone before sharpening. This prevents the stone from clogging with metal particles and ensures efficient cutting action.
- Tool Inspection:** Before sharpening, inspect the tool or blade for any nicks, burrs, or significant damage. The coarse grit of this stone is suitable for addressing these issues.

4. OPERATING INSTRUCTIONS: SHARPENING PROCESS

The coarse grit of this stone is primarily for establishing a new edge, repairing damaged edges, or quickly removing

material. It will leave a relatively rough edge that requires further refinement with finer stones.

General Sharpening Steps:

1. **Determine Angle:** Identify the existing bevel angle of your blade or tool. Consistency in maintaining this angle is crucial for effective sharpening.
2. **Apply Oil:** Ensure the stone surface is adequately lubricated with sharpening oil.
3. **Sharpening Stroke:**
 - Place the blade flat on the stone at the desired sharpening angle.
 - Using moderate pressure, push the blade across the stone, leading with the edge, or pull it across, trailing with the edge. Maintain a consistent angle throughout the stroke.
 - Perform strokes on one side of the blade until a burr (a slight wire edge) forms along the entire length of the opposite side. You can detect this burr by gently feeling the edge with your fingertip (exercise caution).
4. **Repeat on Other Side:** Flip the blade and repeat the process on the other side until a burr forms on the first side.
5. **Remove Burr:** To remove the burr, alternate a few light strokes on each side of the blade, reducing pressure with each pass. You can also use a stropping motion.
6. **Clean Blade:** Wipe the blade clean to remove any metal particles and oil.
7. **Next Steps:** For a finer, sharper edge, proceed to a medium or fine grit sharpening stone (not included) after using this coarse stone.

Specific Tool Considerations:

- **Knives:** Maintain a consistent angle, typically between 15-20 degrees per side for kitchen knives, or 20-25 degrees for outdoor/utility knives.
- **Plane Blades & Chisels:** These tools often require a very precise, flat bevel. Use a honing guide if necessary to maintain accuracy. Sharpen the bevel side until a burr forms, then lightly flatten the back of the tool on the stone to remove the burr.
- **Scrapers:** Sharpening scrapers involves creating a burr that is then turned into a hook with a burnisher. The coarse stone can be used to flatten the edges before burnishing.

5. MAINTENANCE

- **Cleaning the Stone:** After each use, wipe down the stone with a clean cloth to remove excess oil and metal particles. For deeper cleaning, you can scrub the stone with a stiff brush and sharpening oil or mineral spirits.
- **Preventing Glazing:** Regular use with oil helps prevent the stone from glazing (a smooth, non-abrasive surface forming due to embedded metal particles). If glazing occurs, clean the stone thoroughly.
- **Flattening the Stone:** Over time, sharpening stones can develop hollows or become uneven, especially with concentrated use in certain areas. To maintain optimal performance, periodically flatten your stone using a coarser abrasive (e.g., silicon carbide grit on a flat surface like glass) or a dedicated flattening stone.
- **Storage:** Store the sharpening stone in its protective case in a dry environment to prevent damage and contamination.

6. TROUBLESHOOTING

- **Blade Not Getting Sharp:**
 - **Incorrect Angle:** Ensure you are consistently holding the blade at the correct sharpening angle.
 - **Insufficient Pressure:** Apply moderate, consistent pressure during the sharpening strokes.

- **Stone Glazed/Clogged:** Clean the stone thoroughly and reapply oil.
- **Burr Not Formed:** Continue sharpening on one side until a burr is clearly felt along the entire edge.
- **Stone Glazing Quickly:**
 - **Insufficient Oil:** Ensure you are using enough sharpening oil to float away metal particles.
 - **Improper Cleaning:** Clean the stone regularly after use.
- **Uneven Edge:**
 - **Inconsistent Angle:** Practice maintaining a steady angle throughout the sharpening process. Consider using a sharpening guide.
 - **Uneven Stone Surface:** Flatten the stone if it has developed hollows or an uneven surface.

7. SPECIFICATIONS

Brand	Norton
Model Number	54459
Material	Silicon Carbide (Crystolon)
Grit Type	Coarse
Product Dimensions (L x W x H)	8" x 3" x 0.5" (20.32 cm x 7.62 cm x 1.27 cm)
Item Weight	1.1 Pounds (0.5 kg)
UPC	614636544595

8. WARRANTY AND SUPPORT

Limited Warranty:

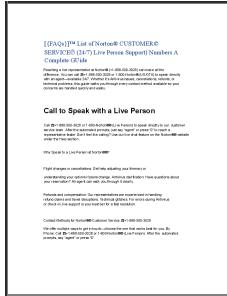
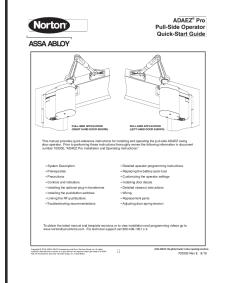
Norton warrants this product to be free from defects in material or workmanship for a period of one year from the date of purchase. Norton's sole obligation under this warranty shall be to repair or replace, at Norton's option, any product which is non-conforming, provided any such product failure was not caused by a subsequent modification of the product, misuse, or a failure to follow any applicable instructions for the product.

Except for the foregoing, Norton expressly disclaims all other guarantees and/or warranties, express or implied, including the warranties of merchantability and fitness for a particular purpose.

Customer Support:

For further assistance or inquiries regarding your Norton product, please refer to the official Norton Abrasives website or contact their customer service department.

Related Documents - 54459

	<p>Norton Customer Service: 24/7 Live Person Support Numbers & Contact Guide</p> <p>This guide provides comprehensive contact information for Norton Customer Service, including phone numbers, live chat, mobile app support, and social media assistance. Get 24/7 live person support for Antivirus issues, cancellations, refunds, and technical problems.</p>
	<p>Norton Core Mini User Guide: Setup, Features, and Specifications</p> <p>This user guide provides comprehensive instructions for setting up and managing the Norton Core Mini, a secure wireless router designed to protect your home network. Learn about its features, system requirements, specifications, and how to create a protected mesh network.</p>
	<p>Norton Abrasives Technical Information Guide</p> <p>Explore the comprehensive Norton Abrasives Technical Information Guide by Saint-Gobain. This resource details cutting-off wheels, grinding wheels, coated abrasives, super abrasives, and diamond blades, offering product selection, operating speeds, troubleshooting tips, and critical safety advice for industrial applications.</p>
	<p>Norton Non-Woven Abrasives for Industrial Applications</p> <p>A comprehensive guide to Norton's non-woven abrasive products, detailing their applications, advantages, and product families for various industrial surface finishing and cleaning tasks.</p>
	<p>ADAEZ Pro Pull-Side Operator Quick-Start Guide</p> <p>Quick-start guide for installing and operating the ADAEZ Pro Pull-Side Operator. Includes system description, prerequisites, precautions, controls, installation steps, programming, and remote control initialization.</p>



[Norton 8000 Series Non Handed Door Closer Installation Instructions](#)

Detailed installation instructions for the Norton 8000 Series Non Handed Door Closer, Non Hold Open Models, Regular Arm. Covers parts, dimensions, sequence, and adjustments for models S8101, S8301, S8501.