

[Manuals.plus](#) /

› [Woodstock](#) /

› Shop Fox D4082 4-Inch Cross-Sliding Vise User Manual

Woodstock D4082

Shop Fox D4082 4-Inch Cross-Sliding Vise User Manual

Model: D4082 | Brand: Woodstock

PRODUCT OVERVIEW

This vise features an exclusive slide bar to prevent jaws from tilting up or sideways when tightening. Adjustable gibs take up any slack on both top and bottom slides. It is designed for use on a drill press for cutting keyways and performing light milling jobs.

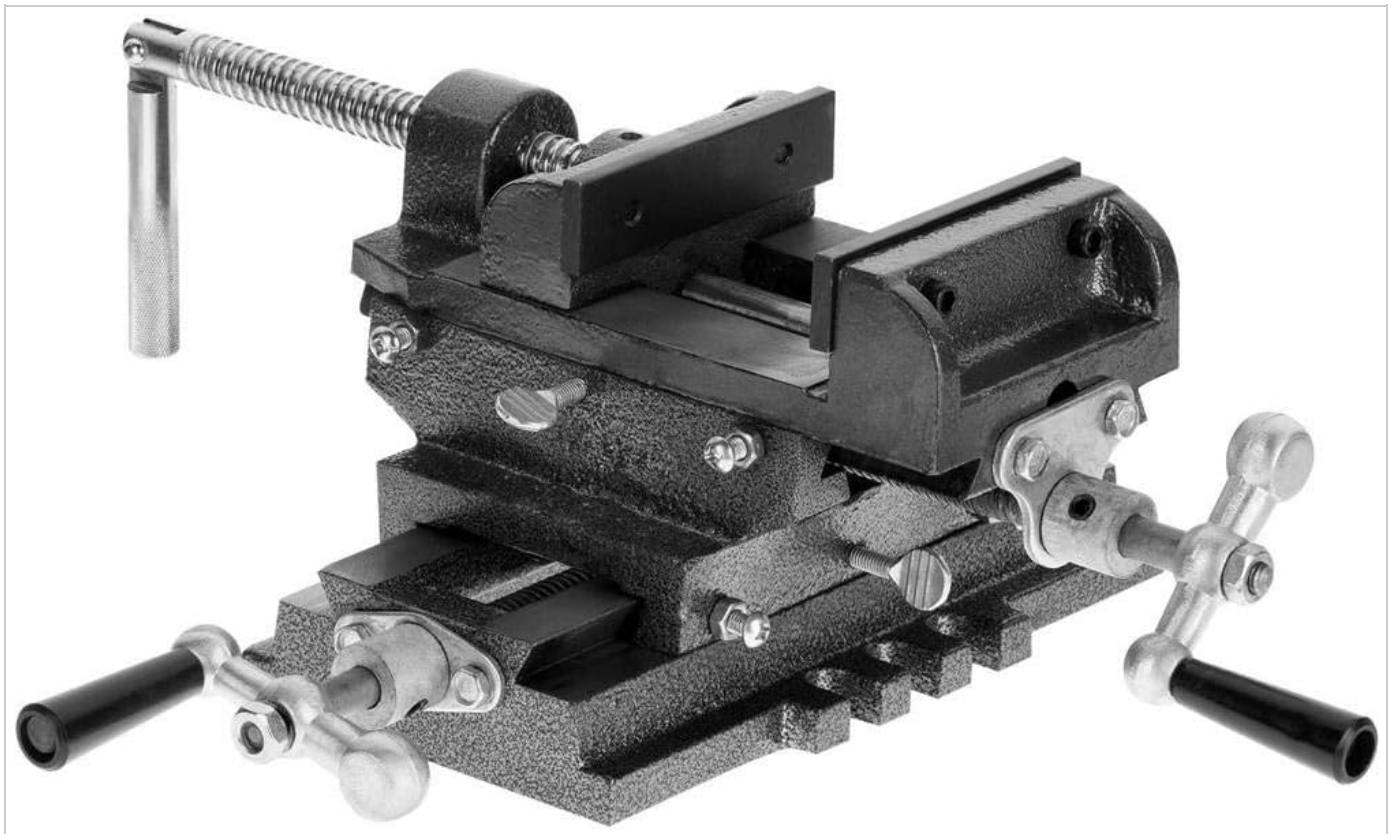


Image: The Shop Fox D4082 4-Inch Cross-Sliding Vise, showing its main components including the cross-sliding base, jaws, and adjustment handles.

SETUP AND INITIAL PREPARATION

Upon receiving your vise, it is crucial to perform an initial cleaning and lubrication to ensure optimal performance and longevity. The vise is typically coated with a protective grease for shipping, which should be removed.

1. **Disassembly and Cleaning:** Completely disassemble the vise. Clean all components thoroughly, especially the sliding surfaces and threaded rods, to remove the factory-applied protective grease. Solvents like brake cleaner or WD-40 can be used for this purpose.
2. **Inspect for Burrs:** While disassembled, inspect all machined edges for any burrs. If found, carefully file them off with a small, fine-tooth metal file to ensure smooth operation.
3. **Lubrication:** Apply a suitable lubricant, such as lithium grease or a light machine oil (e.g., 3-in-1 oil or automatic transmission fluid), to all moving parts, including the sliding ways, lead screws, and gibs.
4. **Reassembly and Adjustment:** Reassemble the vise. Adjust the rail guide screws and gibs to ensure free movement without excessive play or slop. The goal is smooth operation with minimal backlash.
5. **Mounting:** Securely mount the vise to your drill press table using appropriate clamps or bolts through the base slots. Ensure it is stable and level before use.

OPERATION INSTRUCTIONS

The Shop Fox D4082 Cross-Sliding Vise allows for precise positioning of workpieces along two axes (X and Y) without repositioning the entire vise. This is particularly useful for drilling multiple holes in a pattern or performing light milling operations.

- **Securing the Workpiece:** Place your workpiece between the vise jaws. Turn the main vise handle to tighten the jaws until the workpiece is firmly secured. Avoid over-tightening, which can damage the workpiece or the vise.
- **Adjusting X-Axis Position:** Use the handle on the front of the vise to move the top slide (and thus the workpiece) left or right. The scale on the handle or slide can assist in precise positioning.
- **Adjusting Y-Axis Position:** Use the handle on the side of the vise to move the entire top assembly forward or backward. This allows for depth adjustments or positioning along the second axis.
- **Performing Operations:** Once the workpiece is precisely positioned, proceed with your drilling, milling, or other operations. Always ensure the vise is stable and the workpiece is secure before starting any work.
- **Safety:** Always wear appropriate safety gear, including eye protection. Ensure the vise is securely mounted to the drill press table to prevent movement during operation.

MAINTENANCE

Regular maintenance will extend the life and maintain the accuracy of your cross-sliding vise.

- **Routine Cleaning:** After each use, clean any chips, dust, or debris from the vise, especially from the lead screws and sliding surfaces. A brush and compressed air can be effective.
- **Lubrication:** Periodically reapply lubricant to the lead screws and sliding ways. The frequency depends on usage, but a light application every few weeks or months for regular users is recommended.
- **Inspection:** Regularly inspect the vise for any signs of wear, damage, or loose fasteners. Tighten any loose bolts or screws. Check the condition of the jaw inserts if applicable.
- **Storage:** When not in use, store the vise in a clean, dry environment to prevent rust and corrosion. A light coat of oil on exposed metal surfaces can provide additional protection.

TROUBLESHOOTING

This section addresses common issues that may arise during the use of your cross-sliding vise.

- **Vise Jaws Tilting:** The vise is designed with an exclusive slide bar to prevent jaws from tilting. If tilting occurs, inspect the slide bar and ensure it is free of debris and properly seated.
- **Uneven or Stiff Movement:**
 - **Cause:** Residual packing grease, burrs on machined surfaces, or insufficient lubrication.
 - **Solution:** Refer to the "Setup and Initial Preparation" section for thorough cleaning and lubrication procedures. Ensure all burrs are removed and gibs are adjusted correctly.
- **Excessive Play/Slop in Slides:**
 - **Cause:** Gibs are not properly adjusted or have worn down.
 - **Solution:** Adjust the gib screws to take up slack. If wear is significant, replacement parts may be needed.
- **Inaccurate Positioning:**
 - **Cause:** Backlash in lead screws, loose components, or difficulty reading scales.
 - **Solution:** Ensure all components are tight. Understand that some backlash is inherent in this type of vise; compensate by always approaching the final position from the same direction. For critical work, consider using external measurement tools.

PRODUCT SPECIFICATIONS

Model Number	D4082
Brand	Woodstock
Material	Metal
Color	Black
Overall Height	5-1/4-Inch
Capacity	4-Inch
Jaw Width	4-Inch
Jaw Opening	3-3/4-Inch
Bottom Slide Travel	4-Inch
Top Slide Travel	4-Inch
Approximate Weight	22-Pound (21.7 Pounds)
Package Dimensions	10.9 x 10.9 x 7 inches
UPC	769433499842, 769433940825
Global Trade Identification Number	00769433940825

WARRANTY INFORMATION

The Shop Fox D4082 4-Inch Cross-Sliding Vise comes with a**1-Year Warranty** from the manufacturer. Please retain your proof of purchase for any warranty claims. For specific terms and conditions, refer to the documentation included with your product or contact the manufacturer directly.

CUSTOMER SUPPORT

For further assistance, technical support, or to inquire about replacement parts, please contact Woodstock customer service. Contact information can typically be found on the product packaging or the official Woodstock website. When contacting support, please have your product model number (D4082) and purchase date available.

