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WEN WA1501

WEN Universal Deluxe Cross Dowel Jig and Drill Guide Kit

Model: WA1501

1. Introduction

Thank you for choosing the WEN Universal Deluxe Cross Dowel Jig and Drill Guide Kit. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before use and retain it for future reference. This jig is designed to assist in creating precise cross-dowel joints for various woodworking projects, offering versatility and accuracy for both hobbyists and professionals.

2. Safety Information

WARNING: Always wear appropriate personal protective equipment, including safety glasses, when operating this tool. Ensure your work area is clean, well-lit, and free from obstructions.

- Read and understand all instructions before using the jig.
- Always secure the workpiece and the jig firmly to prevent movement during drilling.
- Use only drill bits that are compatible with the provided guide bushings.
- Keep hands and fingers clear of the drilling path.
- Do not force the drill. Allow the drill to do the work.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. Product Overview and Components

The WEN Universal Deluxe Cross Dowel Jig and Drill Guide Kit is engineered for precision and durability. Familiarize yourself with its components before operation.

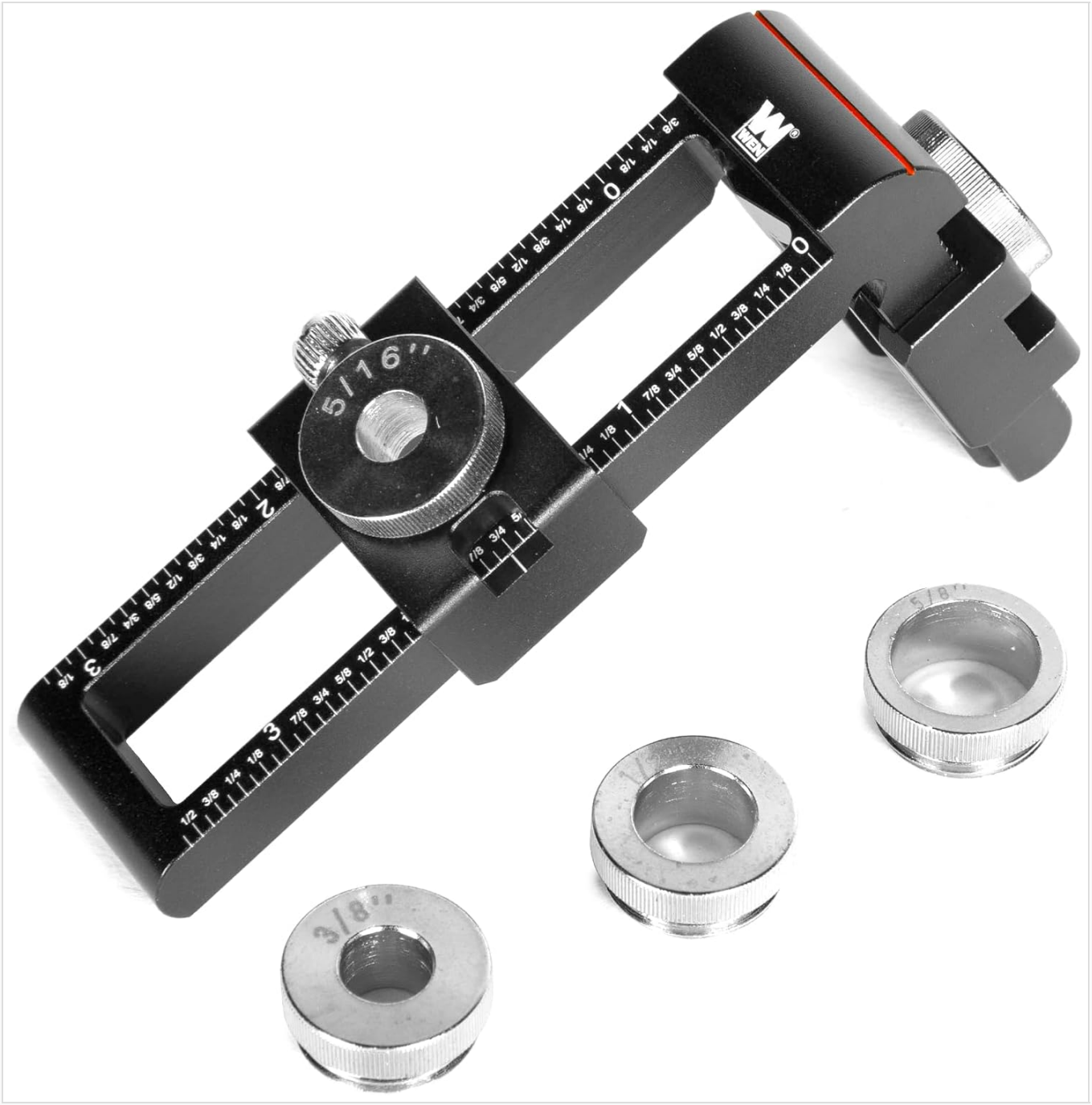


Figure 3.1: This image displays the WEN Universal Deluxe Cross Dowel Jig along with its included accessories: the jig base, two guides, two knurled locking knobs, and five stainless steel guide bushings (1/4”, 5/16”, 3/8”, 1/2”, and 5/8”).

Included Components:

- Jig Base: The main body of the jig, made from CNC-machined anodized aluminum.
- Guides (x2): Adjustable rails for positioning the guide bushings.
- Knurled Locking Knobs (x2): Used to secure the guides and bushings in place. Feature Phillips and slotted screw drives for extra torque.
- Stainless Steel Guide Bushings (x5): Interchangeable bushings for various drill bit sizes: 1/4”, 5/16”, 3/8”, 1/2”, and 5/8”.

4. Setup

Proper setup is crucial for accurate and safe operation. Follow these steps to prepare your jig for use.

4.1 Attaching Guides and Bushings

1. Insert the desired stainless steel guide bushing into the appropriate slot on the jig guide. Ensure it sits flush.
2. Position the guides onto the jig base. The laser-engraved scales on the jig and guides assist in precise alignment.
3. Secure the guides in place using the knurled locking knobs. Tighten them by hand, or use a Phillips/slotted screwdriver for additional torque if needed.

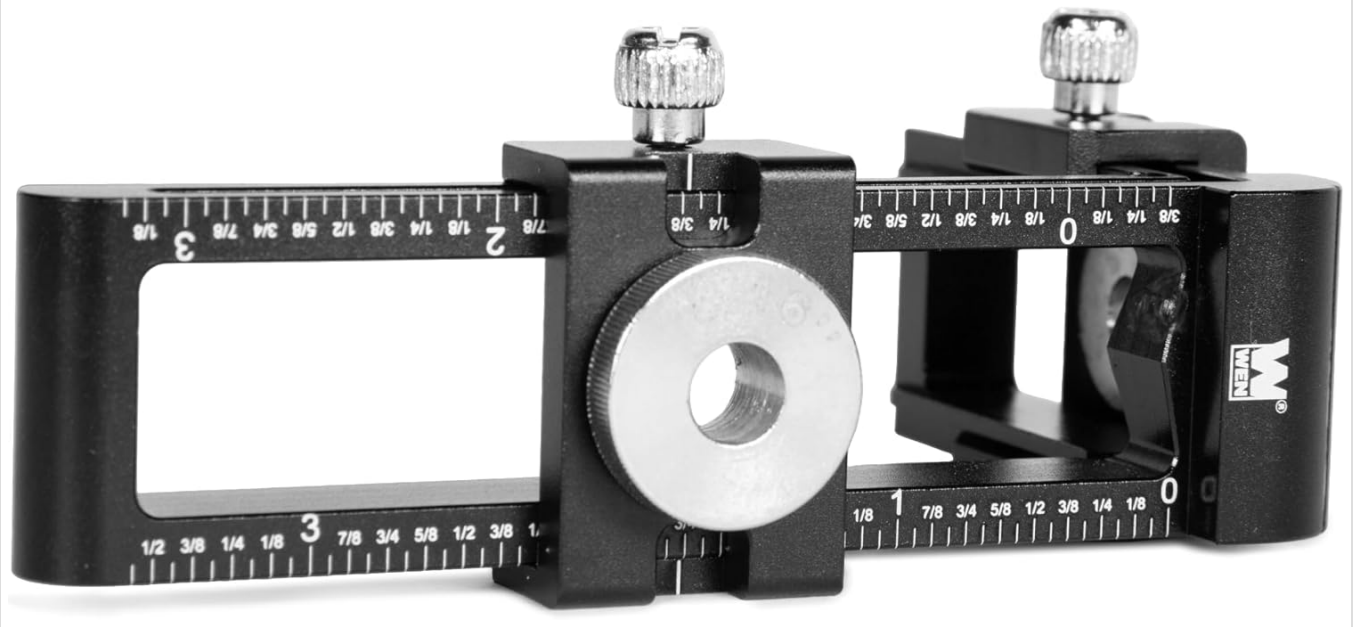


Figure 4.1: This image highlights the precision scales and locking knobs on the jig, essential for setting accurate measurements for your drilling tasks.

4.2 Adjusting Lateral and Longitudinal Ranges

The jig offers flexible adjustment to accommodate various wood thicknesses and joint requirements.

- **Lateral Adjustment:** The jig has a lateral adjustment range of 3/8 inches to 3 inches. This allows for precise positioning of the drill hole across the width of your workpiece. Adjust by sliding the guides along the base and securing with the locking knobs.
- **Longitudinal Adjustment:** The longitudinal adjustment range is 3/8 inches to 1-1/8 inches. This controls the depth or offset of the drill hole. Adjust by repositioning the guide bushings along the guide rails.



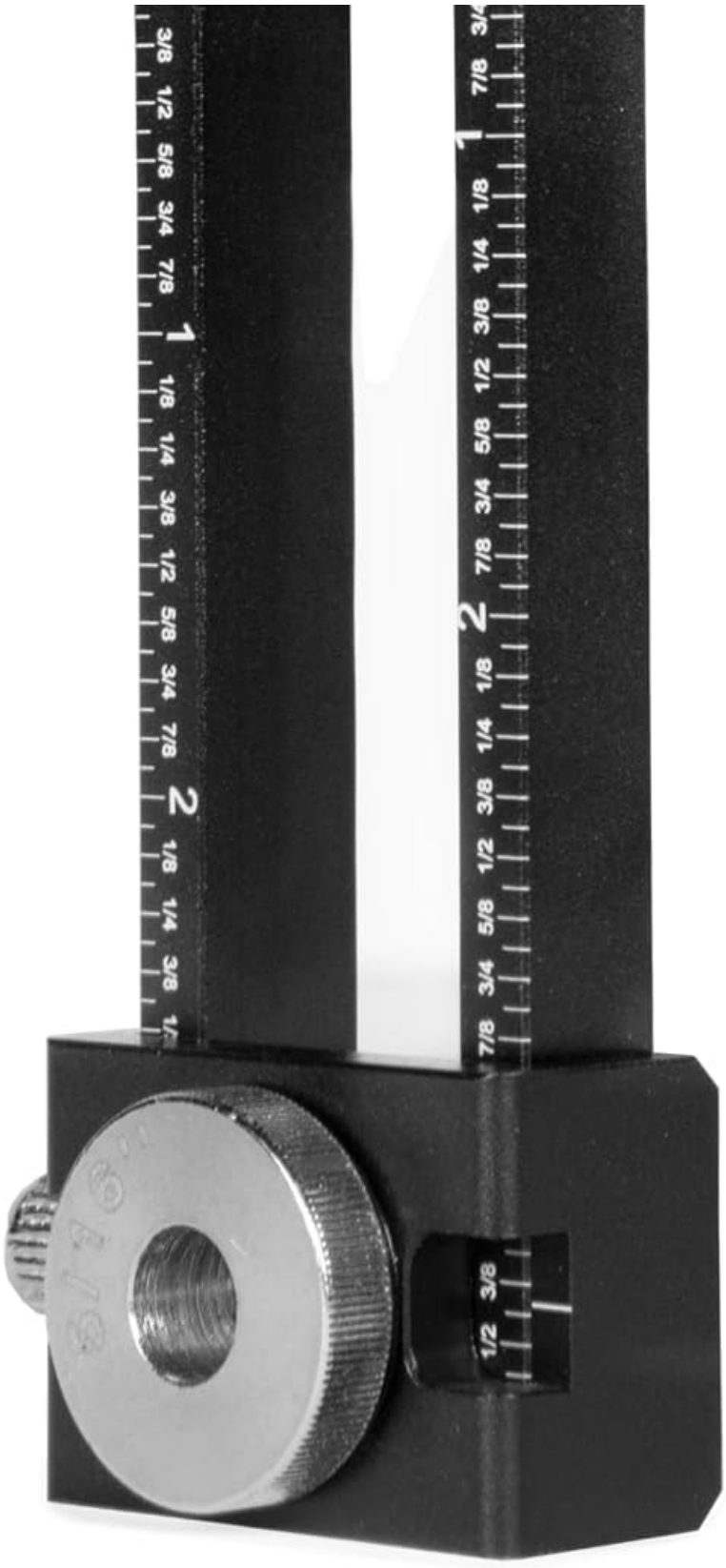


Figure 4.2: This perspective illustrates how the guide bushings can be repositioned along the rails, allowing for flexible setup based on material thickness and desired hole placement.

5. Operating Instructions

Follow these steps for effective and precise cross-dowel joinery.

1. **Prepare Workpiece:** Ensure your wood pieces are cut to the correct dimensions and are free of defects. Mark the desired locations for your cross-dowel holes.
2. **Set Jig Dimensions:** Based on your wood thickness and the size of your barrel nuts and bolts (sold separately),

adjust the lateral and longitudinal settings of the jig using the laser-engraved scales.

3. **Secure Jig:** Place the jig firmly on your workpiece at the marked location. Ensure the jig is stable and does not shift during drilling. Clamps (not included) may be used for added stability.
4. **Drill Pilot Hole:** Insert the appropriate drill bit into your drill. Align the drill bit with the selected guide bushing. Begin drilling slowly, maintaining a steady, perpendicular pressure. Allow the drill bit to pass through the guide bushing and into the wood.
5. **Repeat as Needed:** For multiple holes, reposition the jig and repeat the drilling process.
6. **Install Hardware:** Once all holes are drilled, insert your barrel nuts and bolts (sold separately) to complete the cross-dowel joint.



Figure 5.1: This image shows the WEN Cross Dowel Jig positioned on a piece of wood, ready for drilling, illustrating a typical operational setup.

6. Maintenance

Regular maintenance will ensure the longevity and performance of your WEN Cross Dowel Jig.

- **Cleaning:** After each use, wipe down the jig with a clean, dry cloth to remove sawdust and debris. For stubborn residue, a slightly damp cloth can be used, followed by immediate drying.
- **Lubrication:** Periodically apply a light coat of machine oil to the guide bars and locking knob threads to ensure smooth operation and prevent corrosion.
- **Inspection:** Regularly inspect the guide bushings for wear. Worn bushings can affect drilling accuracy and should be replaced if damaged.
- **Storage:** Store the jig and its components in a dry, clean environment, away from direct sunlight and extreme temperatures. The original packaging or a dedicated tool case is recommended.

7. Troubleshooting

This section addresses common issues you might encounter during the use of your jig.

- **Inaccurate Drilling:**
  - Ensure the jig and workpiece are securely clamped and do not move during drilling.
  - Verify that the correct size guide bushing is used for your drill bit.
  - Check that the locking knobs are tightened sufficiently to prevent guide movement.
- **Difficulty Inserting Drill Bit:**
  - Confirm that the drill bit matches the size of the installed guide bushing.
  - Clean any debris from inside the guide bushing.
- **Jig Movement During Operation:**
  - Always use clamps to secure the jig to the workpiece, especially when drilling.
  - Ensure the workpiece is stable on a flat, secure surface.

8. Specifications

Feature	Specification
Model Number	WA1501
Item Weight	7.2 ounces
Package Dimensions	7.13 x 4.8 x 2.6 inches
Color	Black
Style	Cross Dowel Jig and Drill Guide Kit
Item Package Quantity	1
Materials	CNC-machined anodized aluminum, stainless steel bushings
Guide Bushing Sizes	1/4”, 5/16”, 3/8”, 1/2”, 5/8”
Lateral Adjustment Range	3/8 inches to 3 inches

Longitudinal Adjustment Range	3/8 inches to 1-1/8 inches

9. Warranty Information

Specific warranty details for the WEN Universal Deluxe Cross Dowel Jig and Drill Guide Kit are not provided in this manual. For warranty information, please refer to the product packaging or visit the official WEN website.

10. Support

For technical assistance, replacement parts, or further inquiries regarding your WEN product, please visit the official WEN website or contact their customer support directly. Contact information is typically available on the product packaging or the manufacturer's website.

Visit the WEN Store on Amazon for more products and information.

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