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› O'SKOOL Mortise and Tenon Jig Instruction Manual

O'SKOOL RTA009

O'SKOOL Mortise and Tenon Jig

Model: RTA009 - Instruction Manual

1. INTRODUCTION AND PRODUCT OVERVIEW

The O'SKOOL Mortise and Tenon Jig is a precision woodworking tool designed to create accurate and consistent mortise and tenon joints. This jig is ideal for a wide range of applications, including the construction of cabinets, chairs, tables, and other robust structural framing. It ensures that both the mortise and tenon components are perfectly aligned and dimensioned, allowing for strong, repeatable joints whether glued or locked into place.



Figure 1.1: The O'SKOOL Mortise and Tenon Jig, showcasing its robust construction and adjustable guides.

2. PACKAGE CONTENTS

Please verify that all components listed below are included in your package. If any items are missing or damaged, please contact O'SKOOL customer support.

- Mortise and Tenon Jig Assembly
- 1/4-inch router bit
- Bushing guides for 1/4", 3/8", and 1/2" tenons
- Lock nut with mounting adapter
- Self-adhesive sandpaper
- 2.5mm hex wrench
- Adjustable stops



Figure 2.1: Overview of all parts included with the Mortise and Tenon Jig, including the jig itself, various guide bushings, router bit, and tools.

3. TECHNICAL SPECIFICATIONS

Understanding the specifications of your Mortise and Tenon Jig is crucial for optimal performance and compatibility with your woodworking projects.

Feature	Specification
Model Number	RTA009
Stock Thickness Compatibility	1/2" to 1-1/2"
Mortise/Tenon Widths	1/4", 3/8", 1/2" (depending on bit used)
Mortise/Tenon Length (Max)	3" +/- 1/8"

Feature	Specification
Mortise/Tenon Length (Min)	1" +/- 1/4"
Included Router Bit	1/4-inch
Included Bushing Guides	1/4", 3/8", 1/2" tenons
Item Weight	2.1 Kilograms (4.63 Pounds)
Package Dimensions	10.24 x 6.81 x 3.43 inches

Technical Specs

Stock Thickness
1/2" to 1-1/2"



Mortise and Tenon Width



1/4"



3/8"



1/2"

Note: The included router bit makes only 1/4" mortises and tenons. To make 3/8" or 1/2" mortises and tenons, use corresponding 3/8" or 1/2" router bits.

Max Length M&T Joint: 3" +/- 1/8"
Mini Length M&T Joint: 1" +/- 1/4"
(depending on bit used)



Figure 3.1: Visual representation of key technical specifications, including compatible stock thickness and mortise/tenon dimensions.

4. SETUP

Proper setup of the O'SKOOL Mortise and Tenon Jig is essential for achieving precise and safe cuts. Follow these steps carefully:

1. **Secure the Workpiece:** Ensure your workpiece is firmly clamped to a stable work surface. The jig will then be clamped to the workpiece.

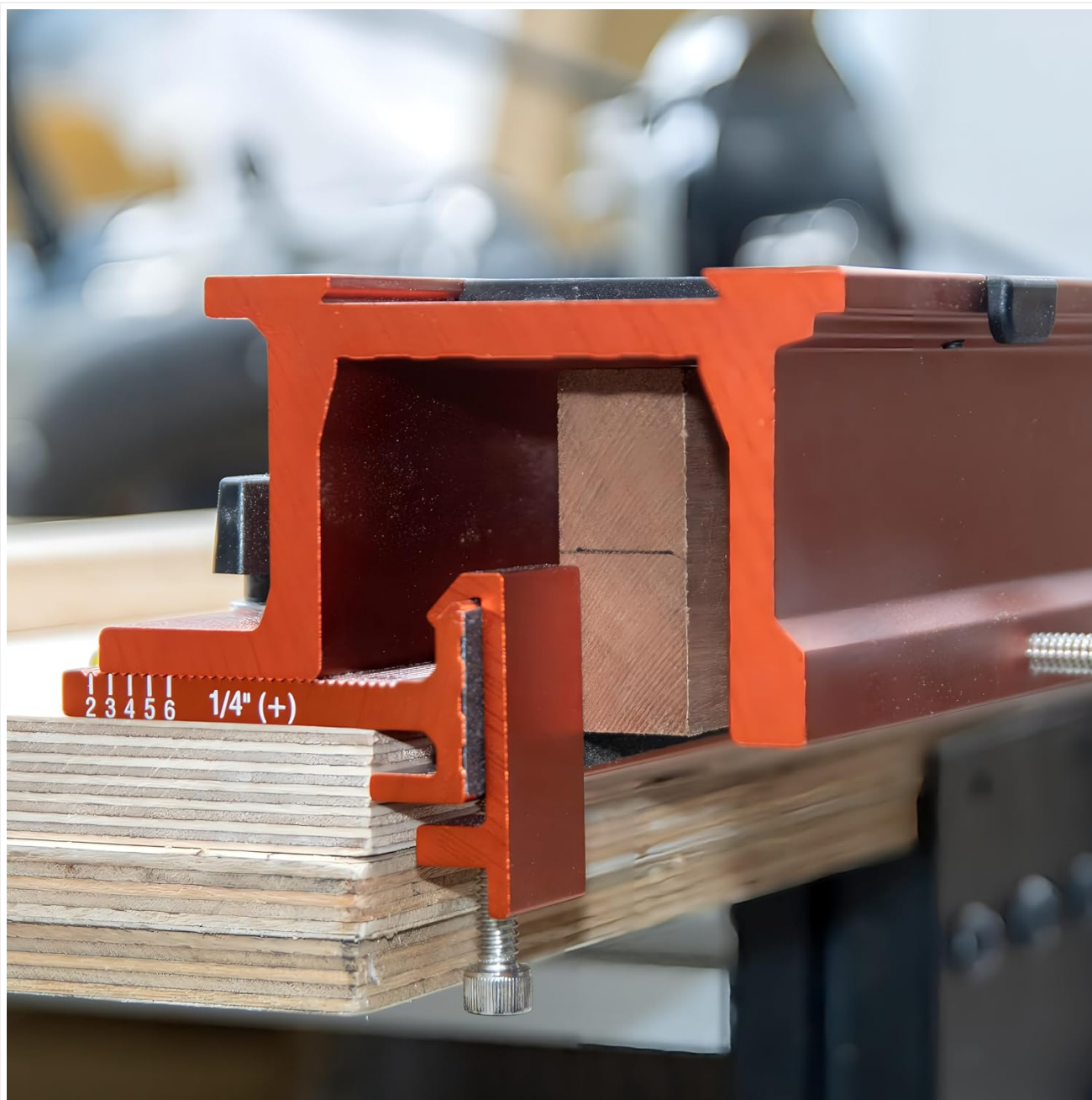


Figure 4.1: The jig securely clamped to the edge of a wooden workpiece, ready for operation.

2. **Install Router Bit:** Insert the appropriate router bit (e.g., the included 1/4-inch bit) into your plunge router's collet and tighten securely.
3. **Attach Guide Bushing:** Select the correct guide bushing for your desired tenon width (1/4", 3/8", or 1/2"). Attach the chosen guide bushing to your plunge router's base plate using the provided lock nut and mounting adapter. Ensure it is centered and firmly seated.



Figure 4.2: A plunge router base with the mortising guide bushing properly installed, ready to engage with the jig.

4. **Adjust Jig for Mortise/Tenon Length:** The jig features adjustable stops (L and R) to control the length of your mortise or tenon. Use the 2.5mm hex wrench to loosen the screws, slide the stops to the desired length markings, and then re-tighten.
5. **Set Router Depth:** Adjust the plunge router's depth stop to achieve the desired mortise depth or tenon shoulder depth. Perform a test cut on scrap material to verify the depth setting.

5. OPERATING INSTRUCTIONS

Once the jig is set up, you can begin cutting precise mortise and tenon joints. Always wear appropriate safety gear, including eye protection and hearing protection.

1. **Power On Router:** With the router bit clear of the workpiece, turn on your plunge router. Allow it to reach full speed.
2. **Engage Router with Jig:** Carefully lower the router, allowing the guide bushing to engage with the jig's template slot.



Figure 5.1: A user guiding a plunge router along the jig's template to cut a mortise.

3. **Cut the Mortise/Tenon:** Slowly plunge the router bit into the workpiece and guide the router along the jig's slot, moving from one end stop to the other. Ensure smooth, consistent movement. For mortises, make multiple passes, increasing depth with each pass, until the desired depth is reached. For tenons, cut along the template to define the tenon's shape.
4. **Repeat for Consistency:** The jig allows for identical mortises and tenons across multiple workpieces once settings are configured. Repeat the process for all necessary cuts.
5. **Clean Up:** After cutting, turn off the router and allow the bit to stop completely before removing it from the jig. Clear away any sawdust or debris from the workpiece and jig.

Note: The included router bit makes only 1/4" mortises and tenons. To make 3/8" or 1/2" mortises and tenons, use corresponding 3/8" or 1/2" router bits with the appropriate guide bushings.

6. MAINTENANCE

Regular maintenance will prolong the life and accuracy of your O'SKOOL Mortise and Tenon Jig.

- **Cleaning:** After each use, wipe down the jig with a dry cloth to remove sawdust and debris. For stubborn residue, a

mild cleaner can be used, but avoid harsh chemicals that may damage the finish.

- **Lubrication:** Periodically apply a light coat of machine oil to any moving parts or threaded components to ensure smooth operation and prevent corrosion.
- **Inspection:** Regularly inspect the jig for any signs of wear, damage, or loose fasteners. Ensure all screws and clamps are tight before use.
- **Storage:** Store the jig in a clean, dry environment to prevent rust and damage. Keep it away from excessive moisture or extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues while using your Mortise and Tenon Jig, refer to the following common problems and their solutions:

Problem	Possible Cause	Solution
Inconsistent Mortise/Tenon Length	Jig stops not securely tightened; router not consistently guided.	Ensure L and R stops are firmly tightened. Maintain steady pressure and movement when routing.
Loose or Poorly Fitting Joints	Incorrect guide bushing or router bit size; improper depth setting; workpiece not secure.	Verify that the correct guide bushing matches the router bit and desired joint width. Re-check router depth. Ensure workpiece and jig are clamped tightly.
Router Bit Burning Wood	Dull router bit; feeding too slowly; taking too deep a cut.	Replace or sharpen router bit. Increase feed rate slightly. Take shallower passes, especially for mortises.
Jig Slipping During Operation	Jig not clamped securely to workpiece.	Ensure all clamping knobs are fully tightened. Use the self-adhesive sandpaper on clamping surfaces for better grip if needed.

8. WARRANTY AND SUPPORT

O'SKOOL stands behind the quality of its products. While specific warranty details are not provided in this manual, products purchased from Amazon typically come with a 30-day return policy. For any product-related inquiries, technical assistance, or warranty claims, please contact O'SKOOL customer support directly.

You can often find contact information on the product packaging, the O'SKOOL brand store on Amazon, or by searching for "O'SKOOL customer support" online.

Online Resources:

Visit the official O'SKOOL store on Amazon for more products and information:[O'SKOOL Amazon Store](#)

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question