

PORTER-CABLE 4216

PORTER-CABLE 4216 Dovetail Jig Instruction Manual

Model 4216 - Precise Woodworking Joinery

INTRODUCTION

The PORTER-CABLE 4216 Dovetail Jig is designed for creating a variety of precise woodworking joints, including half-blind, rabbeted half-blind, sliding dovetails, through dovetails, box joints, and miniature versions of these. This robust jig is ideal for furniture and cabinet making, accommodating stock from 1/4 to 1-1/8 inches thick. Its durable, single-piece steel base requires no assembly and features heavy-duty cam-type clamps with sandpaper-backed locking bars for secure wood gripping. On-board instructions and router bit depth gauges simplify setup and ensure accurate cuts without manual measurements.

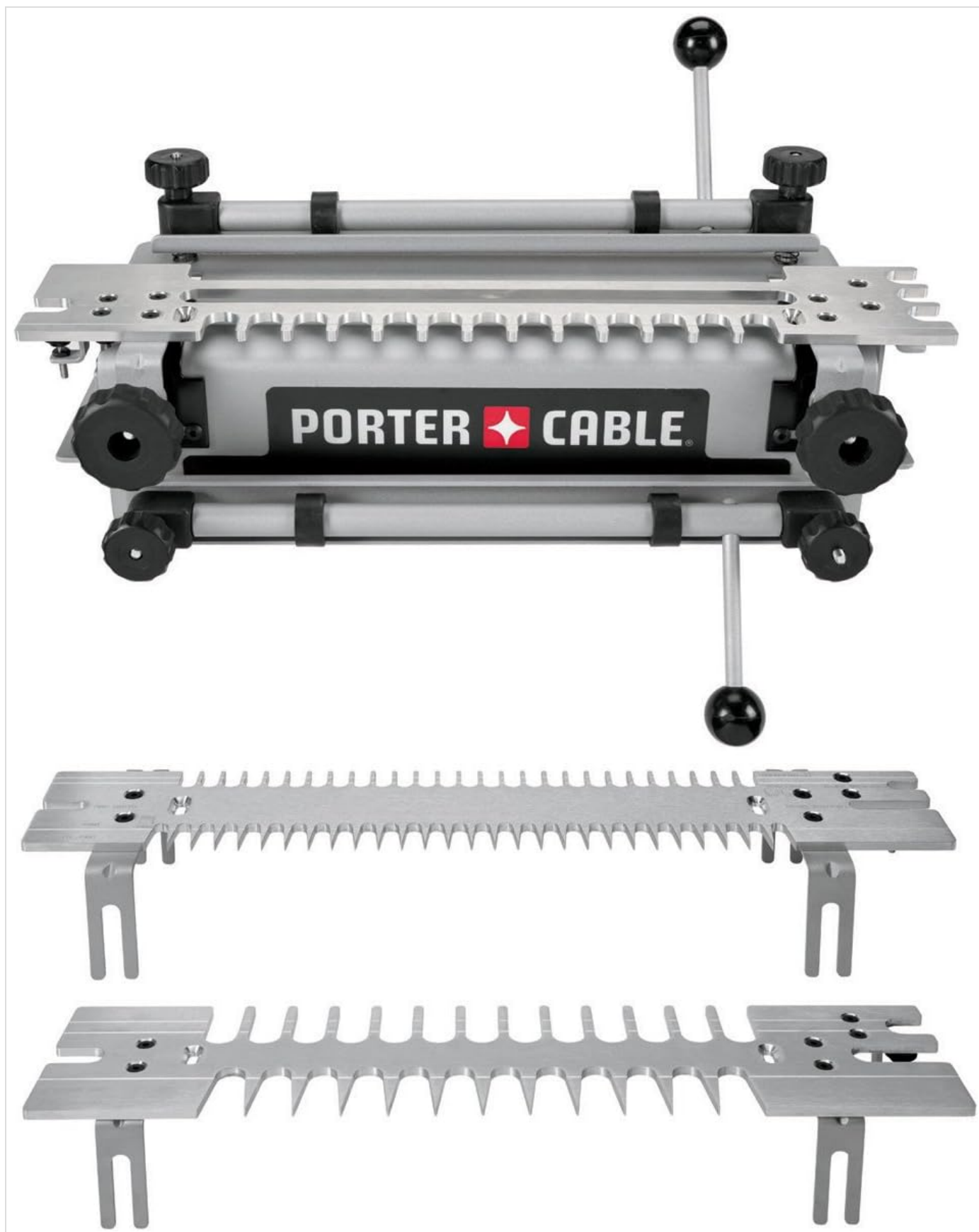


Image: The PORTER-CABLE 4216 Dovetail Jig, showcasing its main unit and various templates for different joint types.

WHAT'S IN THE BOX

The PORTER-CABLE 4216 Deluxe Dovetail Jig Combination Kit includes the following components:

- 12-inch Jig Base
- Three Templates:

- Template 4211: For half-blind, rabbeted half-blind, and sliding dovetails.
- Template 4213: For through dovetails and box joints.
- Template 4215: For miniature through, miniature half-blind dovetails, and miniature box joints.
- Four Router Bits: 43776PC, 43743PC, 43014PC, and 43777PC
- Four Template Guides: 42037, 42040, 42046, and 42054
- Two Lock Nuts
- Wrench
- Operating Instructions Manual



Image: A collection of the router bits, template guides, and wrench included with the PORTER-CABLE 4216 Dovetail Jig.

SETUP

1. **Router Compatibility:** Ensure you have an adjustable base router that accepts both 1/4-inch and 1/2-inch shanks. The router must also accommodate standard 1-3/16 inch Porter-Cable style guide bushings.
2. **Mounting the Jig:** The jig features a durable, single-piece steel base that requires no assembly. It can be clamped or bolted directly to your workbench for stability.

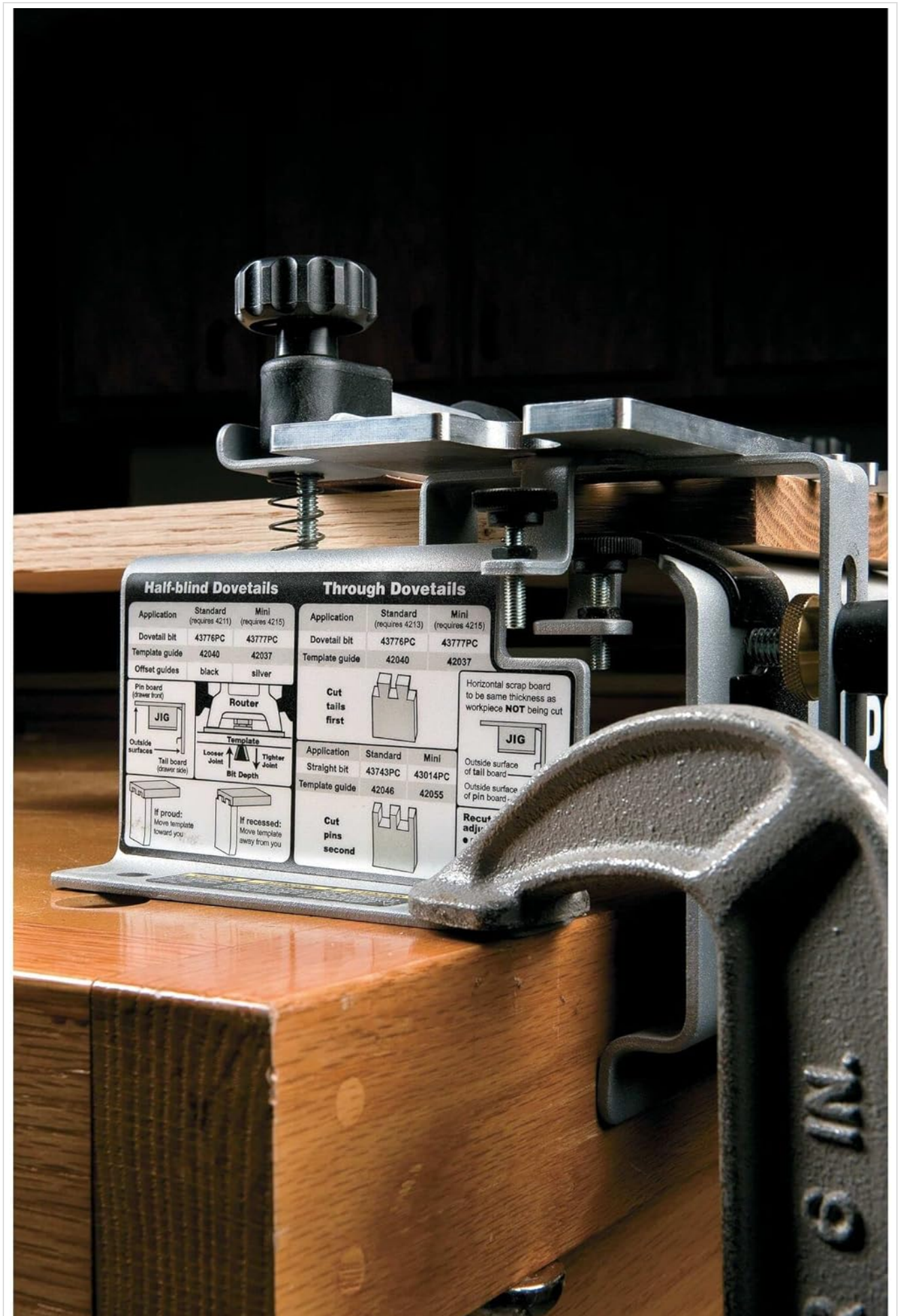


Image: The dovetail jig securely clamped to a workbench, ready for operation.

3. **Installing Templates:** Select the appropriate template (4211, 4213, or 4215) for your desired joint type. Templates are easily installed and adjusted using the provided knobs.

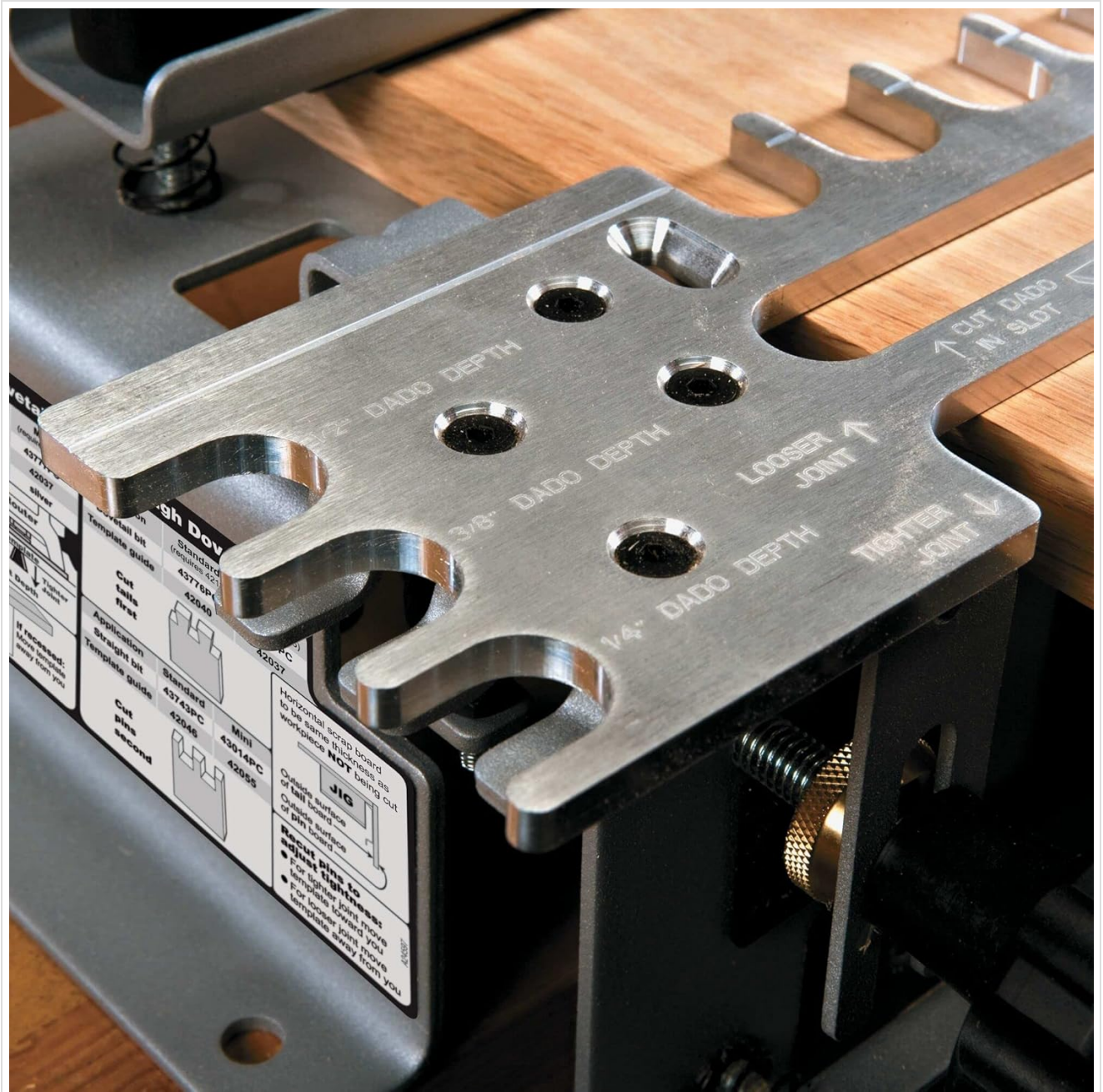


Image: Detailed view of the template alignment lines and router bit depth gauges, crucial for precise setup.

4. **Adjusting Clamps:** The jig features heavy-duty cam-type clamps with sandpaper-backed locking bars. Adjust these clamps to firmly grip your wood stock, which can range from 1/4 to 1-1/8 inches thick.

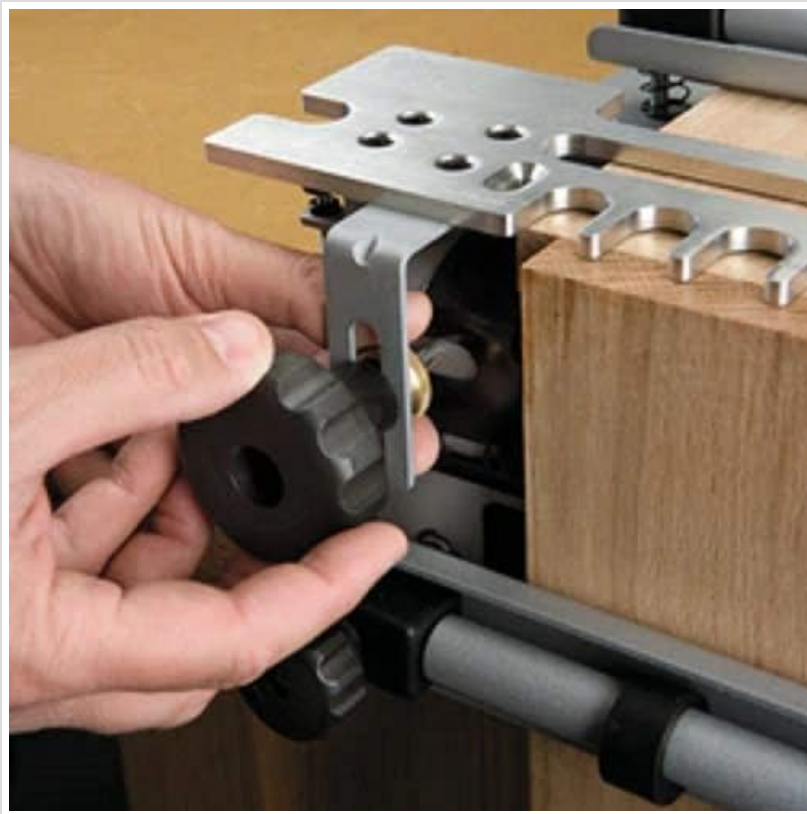


Image: A hand adjusting one of the black knobs on the jig, used for securing templates or adjusting settings.

5. **Router Bit and Guide Bushing:** Select the correct router bit and template guide for your chosen joint. The jig includes four router bits and four template guides.

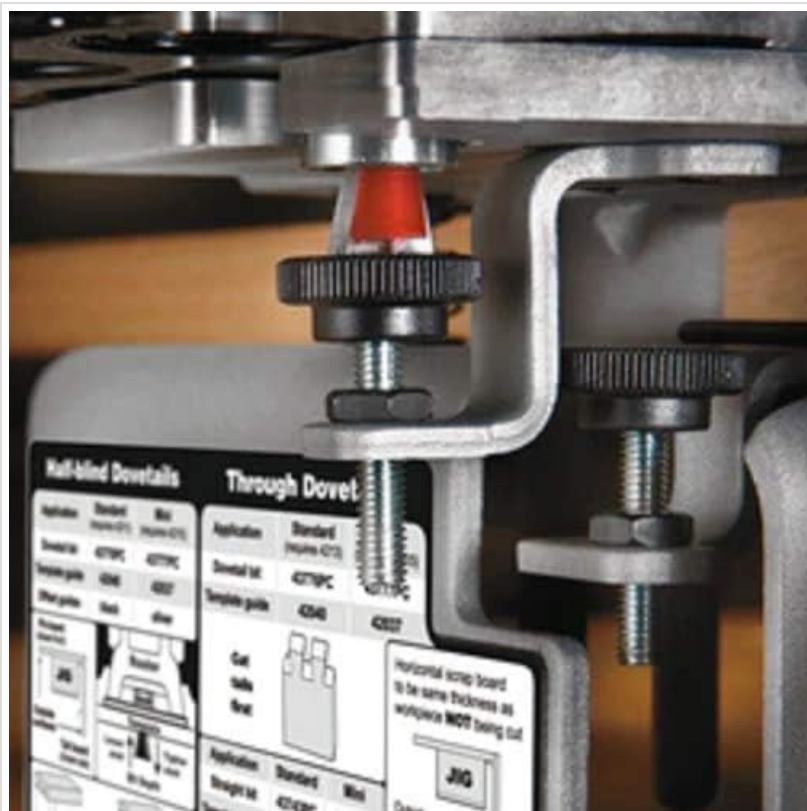


Image: A close-up view of the depth adjustment mechanism, showing how to fine-tune the router bit depth.

OPERATING INSTRUCTIONS

The PORTER-CABLE 4216 Dovetail Jig is designed for ease of use, with on-board instructions and router bit depth gauges to simplify the process. Always refer to the detailed operating instructions manual for specific applications and

safety guidelines.

1. **Prepare Wood Stock:** Cut your wood pieces to the desired dimensions. The jig accommodates stock from 1/4 to 1-1/8 inches thick.
2. **Secure Wood in Jig:** Place your wood pieces into the jig, ensuring they are flush and securely held by the cam-type clamps. The sandpaper-backed locking bars provide a firm grip.



Image: Hands demonstrating the process of securing a wooden workpiece into the jig's clamping mechanism.

3. **Set Router Bit Depth:** Use the router bit depth gauge on the jig to set the precise depth for your router bit without needing additional measurements.
4. **Cut Joints:** Guide your router along the chosen template to cut the dovetails or box joints. The machined aluminum templates ensure superior cutting accuracy.



Image: A router in action, cutting half-blind dovetails into a wooden piece using the jig.



Image: The router precisely cutting through dovetails, guided by the jig's template.



Image: A close-up of the router creating box joints, demonstrating the jig's versatility.

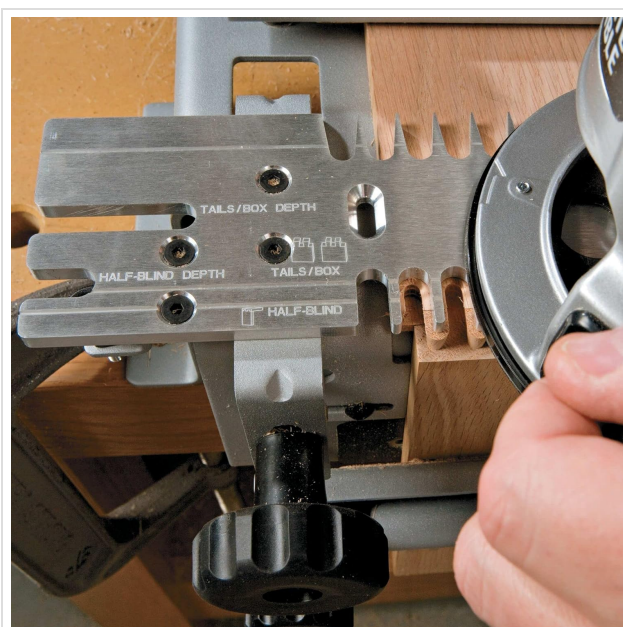


Image: A detailed view of the half-blind dovetail template, highlighting its design for specific joint types.

5. **Check Fit and Adjust:** After cutting, test the fit of your joint. If the joint is too tight or too loose, or if the depth is incorrect, make fine adjustments to the template position or router bit depth as needed.

MAINTENANCE

To ensure the longevity and optimal performance of your PORTER-CABLE 4216 Dovetail Jig, regular maintenance is recommended. Keep the jig clean from sawdust and debris. Inspect all moving parts and fasteners periodically for wear or looseness. Lubricate moving components as specified in the full operating instructions manual. Store the jig in a dry, protected environment when not in use.

TROUBLESHOOTING

If you encounter issues with joint fit, refer to the following common troubleshooting steps:

- **Joints too tight:** Adjust the template slightly inward.

- **Joints too loose:** Adjust the template slightly outward.
- **Joints too short:** Adjust the router bit depth downward.
- **Joints too long:** Adjust the router bit depth upward.

Always make test cuts on scrap material of the same thickness as your workpiece to fine-tune adjustments before cutting your final pieces.

SPECIFICATIONS

Attribute	Detail
Brand	PORTER-CABLE
Model Number	4216
Material	Aluminum
Style	Jig
Product Dimensions	22.25"L x 11.75"W
Item Weight	26.7 pounds
Stock Thickness Capacity	1/4 to 1-1/8 inches
Stock Width Capacity	Up to 12 inches
Included Components	12" Jig Base, 3 x Templates (4211, 4213, 4215), 4 x Router Bits, 4 x Template Guides, 2 x Lock Nuts, Wrench & Instruction Manual

WARRANTY AND SUPPORT

The PORTER-CABLE 4216 Dovetail Jig is backed by a comprehensive warranty and service plan:

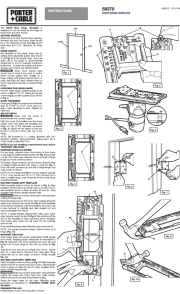

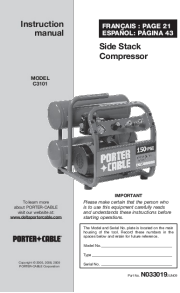


- **90-Day Money Back Guarantee:** If you are not completely satisfied, you may return the product within 90 days for a full refund.
- **One-Year Free Service Contract:** PORTER-CABLE will maintain the tool and replace worn parts caused by normal use, free of charge, for one year from the date of purchase.
- **Three-Year Limited Warranty:** Covers any defects due to faulty materials or workmanship for three years from the date of purchase.

For further assistance or to claim warranty service, please refer to the contact information provided in your operating instructions manual or visit the official PORTER-CABLE website.

IMPORTANT SAFETY INFORMATION

To reduce the risk of injury, the user must read and understand the owner's manual completely before operating this product.

Related Documents - 4216

	<p>Porter Cable 59370 Door Hinge Template Instructions and Guide</p> <p>Detailed instructions for using the Porter Cable 59370 Door Hinge Template to create precise hinge mortises in doors and frames. Covers setup, adjustments, marking, and routing procedures for various hinge types and door thicknesses.</p>
	<p>Porter-Cable Model 121 Oscillating Spindle Sander Instruction Manual</p> <p>Comprehensive instruction manual for the Porter-Cable Model 121 Oscillating Spindle Sander, covering safety guidelines, operation, maintenance, and specifications. Learn how to use your sander safely and effectively.</p>
	<p>PORTER-CABLE C3101 Side Stack Compressor Instruction Manual</p> <p>This instruction manual provides essential safety, operation, maintenance, and troubleshooting information for the PORTER-CABLE C3101 Side Stack Compressor. Learn how to use your air compressor safely and effectively.</p>
	<p>Porter-Cable Model 557 Plate Joiner Instruction Manual</p> <p>Comprehensive instruction manual for the Porter-Cable Model 557 Double Insulated Plate Joiner, covering safety guidelines, operation, maintenance, and troubleshooting.</p>
	<p>Porter-Cable 352VS Belt Sander User Manual and Safety Guide</p> <p>Comprehensive user manual and safety instructions for the Porter-Cable 352VS Variable Speed Belt Sander, covering operation, maintenance, and safety guidelines for effective and safe use.</p>

