

JessEm 04500

JessEm 04500 TA Fence Instruction Manual

Brand: JessEm | Model: 04500

1. PRODUCT OVERVIEW

The JessEm 04500 TA Fence is a precision-engineered accessory designed to enhance the functionality of your router table. Crafted from durable 6000 series aluminum extrusions, this fence features a built-in jointing capability and an efficient dust collection system. It provides accurate and repeatable routing operations for various woodworking tasks.



Figure 1.1: Front view of the JessEm 04500 TA Fence, showcasing its robust construction and clear guard.

2. KEY FEATURES

- **Integrated Dust Collection:** Front and back covers reduce dust buildup, maintaining the fence's performance. Equipped with a standard 2-1/2" O.D. x 2-1/4" I.D. vacuum port for effective dust extraction.
- **Precision Jointing Feature:** A built-in threaded adjustment element simplifies jointing operations, allowing for precise outfeed fence adjustments. Each revolution of the dial equals 1/16", enabling outfeed adjustments from 0" to 1/4" with unparalleled precision.
- **Durable Construction:** Crafted from three distinct 6000 series aluminum extrusions, each machined to tight tolerances and anodized for unmatched durability. Precision-machined 6000 series aluminum extruded sub-fences and fence tracks are hard anodized, ensuring long-lasting use.

- **Accurate Scaling:** Each track boasts its own linear imperial or metric scale for precise measurements.
- **Secure Hold-Down Knobs:** Hold-down knobs are fixed into retainers to remain with the fence, even when removed from the table.
- **Generous Size:** With a 36-inch size, this router fence offers ample space for your workpieces.
- **Adjustable Guard:** Customize the depth and height of the guard to accommodate various router bits and routing away from your fence.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package.

- JessEm 04500 TA Fence Assembly
- Required Fasteners and Hardware for Mounting
- Instruction Manual (this document)

Note: Any micro adjusters or router table components shown in images are sold separately unless explicitly listed above.

4. SAFETY INFORMATION

Always prioritize safety when operating power tools. Read and understand all instructions before using the JessEm 04500 TA Fence. Failure to follow safety guidelines can result in serious injury.

- **Personal Protective Equipment (PPE):** Always wear appropriate eye protection (safety glasses or goggles), hearing protection, and a dust mask when operating a router table.
- **Work Area:** Ensure your work area is clean, well-lit, and free of clutter. Keep children and bystanders away from the operating area.
- **Tool Condition:** Inspect the router fence and router table for any damage or loose components before each use. Do not operate if any parts are damaged.
- **Router Bit Safety:** Ensure router bits are sharp, clean, and properly installed. Never use dull or damaged bits.
- **Secure Workpiece:** Always ensure your workpiece is securely held against the fence and table surface during routing operations. Use push sticks or featherboards as needed.
- **Dust Collection:** Connect the fence to a suitable dust collection system to minimize airborne dust and maintain a clear view of your work.
- **Power Disconnection:** Disconnect power to the router before making any adjustments, changing bits, or performing maintenance.

5. SETUP

Proper setup of your JessEm TA Fence is crucial for accurate and safe operation. This section outlines the general steps for mounting and initial adjustments.

5.1 Mounting the Fence to Your Router Table

The TA Fence is designed to mount to most standard router tables with T-tracks or similar mounting systems. Ensure your router table is stable and level before installation.

1. Position the fence on your router table, aligning its mounting tracks with your table's T-tracks.

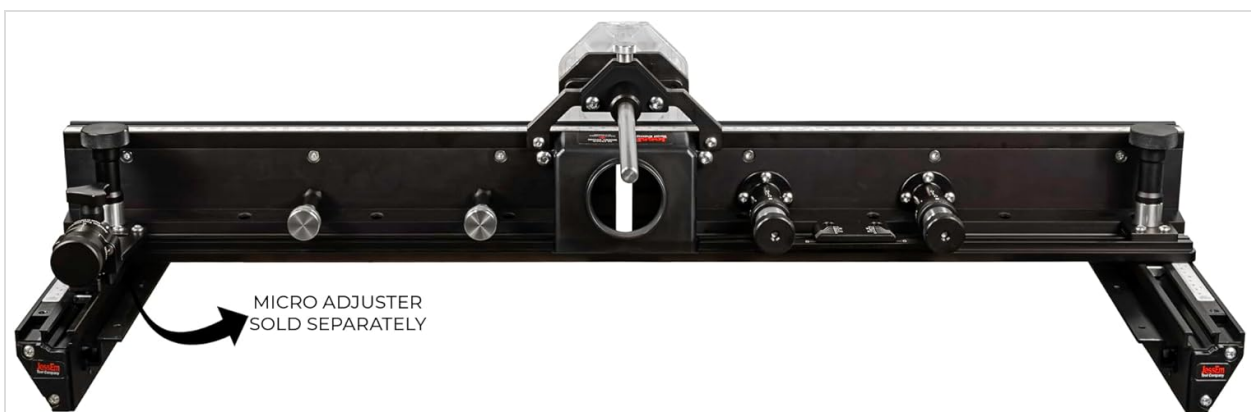
2. Insert the provided hold-down knobs into the fence tracks and secure them into your table's T-tracks.
3. Tighten the hold-down knobs firmly to secure the fence in place. Ensure the fence is parallel to the miter slot (if applicable) and perpendicular to the router bit.



Figure 5.1: The TA Fence securely mounted on a router table, ready for operation.

5.2 Attaching the Dust Port

Connect your dust collection hose to the integrated 2-1/2" O.D. x 2-1/4" I.D. vacuum port located on the rear of the fence. A good dust collection system is essential for a clean and safe working environment.



6. OPERATING INSTRUCTIONS

This section provides guidance on using the JessEm 04500 TA Fence for various routing and jointing operations.

6.1 Setting Fence Position

To set the fence position relative to the router bit:

1. Loosen the hold-down knobs.
2. Slide the fence along the router table to the desired position, using the integrated imperial or metric scale for reference.
3. Once positioned, firmly tighten the hold-down knobs to lock the fence in place.

6.2 Using the Jointing Feature

The built-in threaded adjustment element allows for precise outfeed fence adjustments, enabling jointing operations.

1. Identify the threaded adjustment knob on the outfeed side of the fence.
2. Rotate the knob to adjust the outfeed fence. Each full revolution of the dial corresponds to 1/16" of adjustment.
3. Adjust the outfeed fence to create the desired offset for jointing, typically from 0" to 1/4".

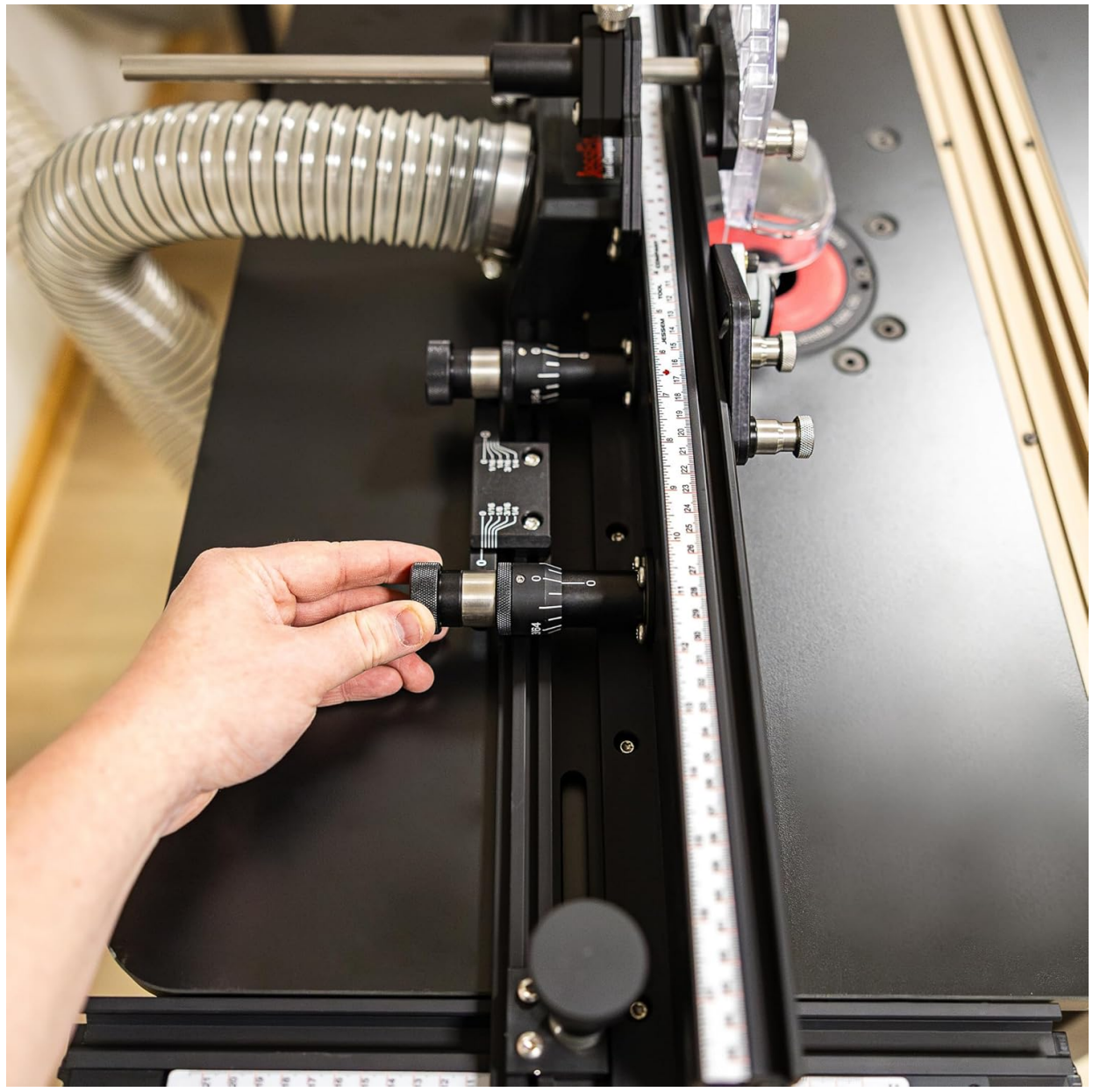


Figure 6.1: Close-up view of the micro adjuster, which allows for precise outfeed fence adjustments for jointing.

6.3 Adjusting the Guard

The clear guard can be adjusted for depth and height to accommodate different router bits and routing techniques.

1. Loosen the securing knob(s) for the guard.
2. Adjust the guard vertically and horizontally to provide optimal protection while allowing the workpiece to pass freely.
3. Tighten the securing knob(s) to lock the guard in position.



Figure 6.2: Demonstrates the fence in use, with a workpiece being routed and dust being collected.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your JessEm 04500 TA Fence.

- **Cleaning:** After each use, wipe down the fence and tracks with a dry cloth to remove dust and debris. For stubborn resin buildup, use a non-abrasive cleaner specifically designed for woodworking tools.
- **Inspection:** Periodically inspect all components for wear, damage, or loose fasteners. Pay close attention to the fence faces, tracks, and adjustment mechanisms.
- **Lubrication:** Lightly lubricate threaded components and sliding surfaces with a dry lubricant or silicone spray to ensure smooth operation. Avoid oil-based lubricants that can attract dust.
- **Storage:** Store the fence in a clean, dry environment when not in use to prevent corrosion and damage.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your JessEm 04500 TA Fence.

| Problem | Possible Cause | Solution |
|--|--|--|
| Fence not holding position | Hold-down knobs not tightened sufficiently; debris in T-tracks. | Ensure hold-down knobs are fully tightened. Clean T-tracks and fence mounting surfaces. |
| Jointing adjustment is stiff or inconsistent | Accumulation of dust/resin; lack of lubrication. | Clean the threaded adjustment mechanism. Apply a dry lubricant to the threads. |
| Poor dust collection | Dust port clogged; inadequate dust collector suction; hose not properly connected. | Clear any blockages in the dust port. Ensure your dust collector has sufficient power. Verify hose connection is secure. |
| Fence faces not parallel | Improper setup; damage to fence faces. | Re-check fence alignment with a reliable straightedge. If faces are damaged, contact JessEm support. |

9. SPECIFICATIONS

| Attribute | Value |
|-----------------------|--------------------------|
| Manufacturer | JessEm Products Limited |
| Part Number | 04500 |
| Item Weight | 28.5 pounds |
| Product Dimensions | 40 x 15 x 6 inches |
| Item Model Number | 04500 |
| Power Source | Hand Powered (Accessory) |
| Item Package Quantity | 1 |
| Included Components | TA Fence |
| Date First Available | February 1, 2018 |

10. WARRANTY AND SUPPORT

Specific warranty details and direct customer support contact information for the JessEm 04500 TA Fence are not provided within this manual. For warranty claims, technical assistance, or to inquire about replacement parts, please refer to the official JessEm website or contact the retailer from whom you purchased the product.

You may also visit the JessEm Store on Amazon for additional product information and support resources: [JessEm Tools Store](#)

