

POWERTEC 71391V

POWERTEC 71391V Precision Table Saw Miter Gauge System Instruction Manual

Model: 71391V

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1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your POWERTEC 71391V Precision Table Saw Miter Gauge System. This 3-piece system is designed to enhance the accuracy and efficiency of cross-cutting and miter cuts on your table saw. Please read this manual thoroughly before use to ensure safe and optimal performance.



Figure 1.1: The POWERTEC 71391V Precision Table Saw Miter Gauge System, showing the miter gauge, multi-track fence, and flip stop.

2. SAFETY INFORMATION

Always prioritize safety when operating power tools. This miter gauge system is an accessory for a table saw. Adhere to all safety guidelines provided in your table saw's instruction manual in addition to the following:

- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and dust mask.
- Ensure your table saw is unplugged before making any adjustments or installing accessories.
- Keep hands clear of the saw blade at all times. Use push sticks or push blocks when necessary.
- Verify that all components of the miter gauge system are securely fastened before operation.
- Do not force the workpiece through the saw. Allow the blade to cut at its own pace.
- Maintain a clean and well-lit work area.

3. PACKAGE CONTENTS

The POWERTEC 71391V Precision Table Saw Miter Gauge System includes the following components:

1. High Precision Miter Gauge
2. Multi-Track Fence with Laser Engraved Scale (24 inches long x 3 inches tall)
3. 3-inch T-Track Flip Stop (multi-position)

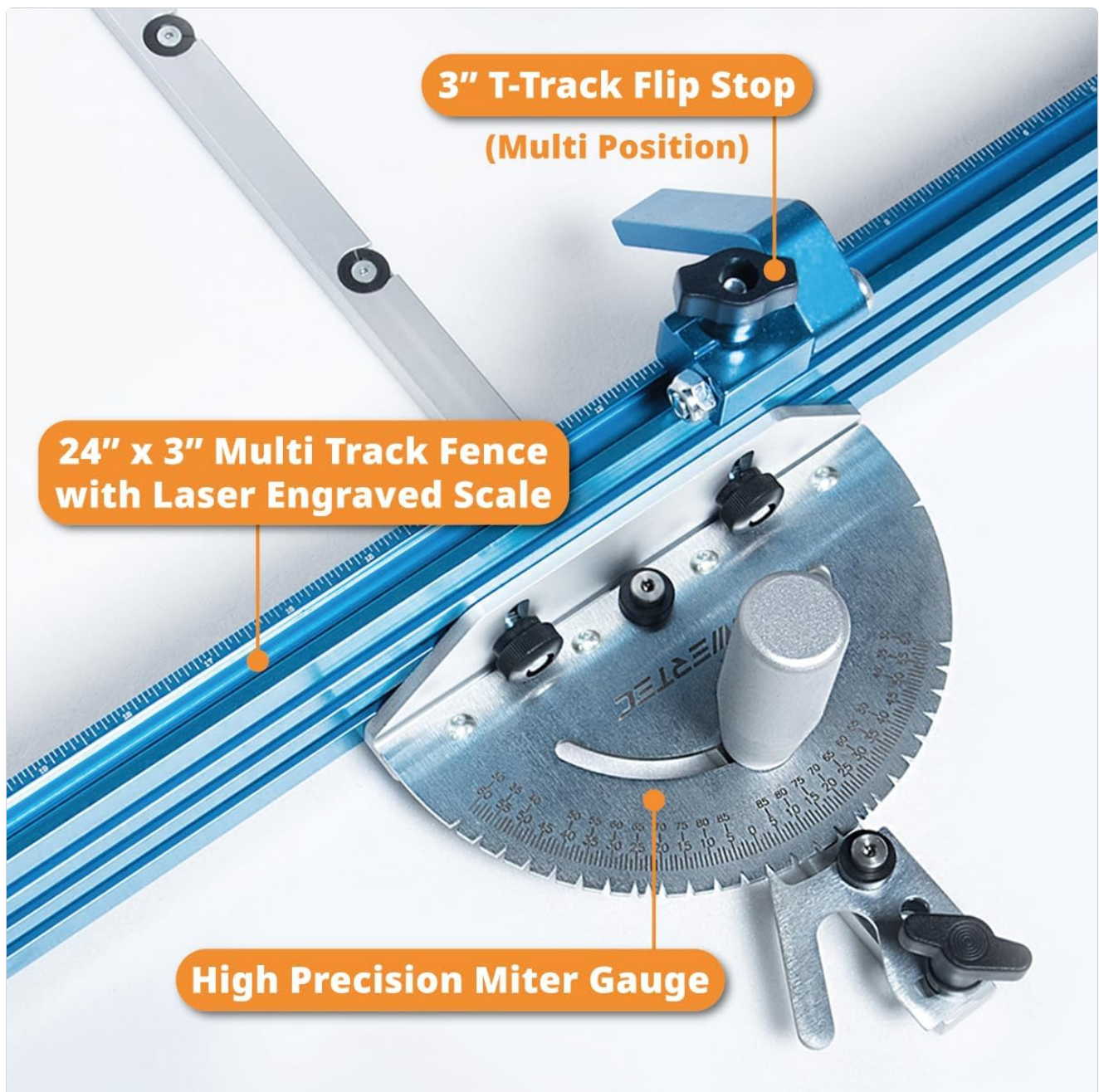


Figure 3.1: Exploded view of the miter gauge system components, including the miter gauge, multi-track fence, and T-track flip stop.

4. SETUP AND INSTALLATION

Follow these steps to properly set up your miter gauge system:

4.1. Miter Gauge Compatibility

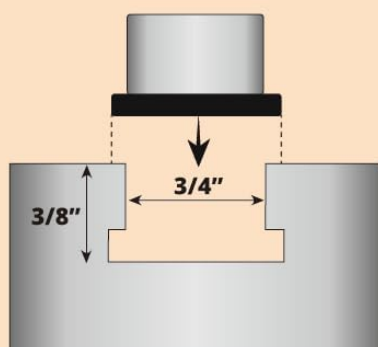
The miter gauge is designed to work with standard $\frac{3}{4}$ " x $\frac{3}{8}$ " miter slots, with or without T-slots. It will not work with smaller saws or tools featuring $\frac{5}{8}$ " miter slots. Ensure your table saw's miter slots match these dimensions.

FITS

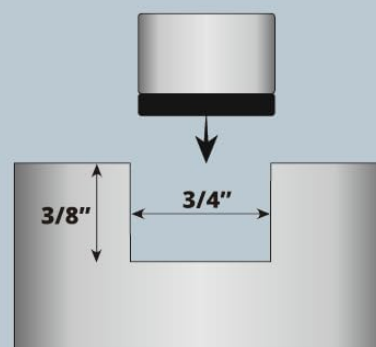
YOUR TABLE SAW

MITER SLOTS that are 3/4" x 3/8"

Allows the miter gauge to be used
with t-slotted and non t-slotted miter slots.



T-Miter Slot



U Shape Slot

Figure 4.1: Diagram illustrating compatibility with 3/4" x 3/8" T-miter slots and U-shape slots. The image shows the dimensions for both T-miter slots and U-shape slots, indicating the 3/4 inch width and 3/8 inch depth.

4.2. Attaching the Multi-Track Fence

1. Align the Multi-Track Fence with the miter gauge.
2. Secure the fence to the miter gauge using the provided hardware. Ensure it is firmly attached and square to the miter gauge body.

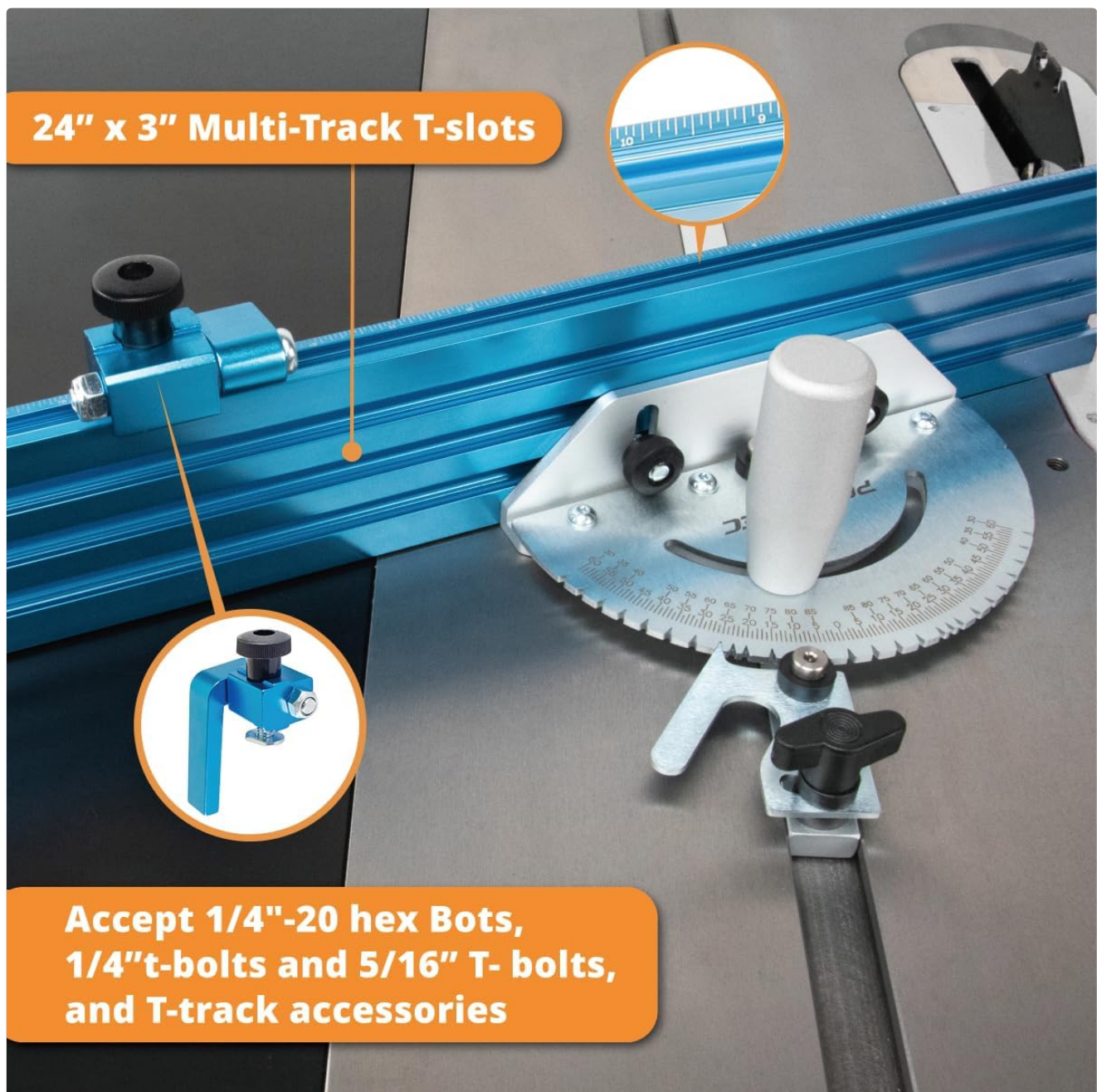


Figure 4.2: The multi-track fence attached to the miter gauge, highlighting the 24" x 3" multi-track T-slots and their compatibility with various bolts and accessories.

4.3. Installing the T-Track Flip Stop

1. Slide the T-Track Flip Stop into the T-slot of the Multi-Track Fence.
2. Position the flip stop as needed for your cut length. The flip stop can be adjusted to work on either the left or right side of the blade.
3. Tighten the locking mechanism to secure the flip stop in place.

Quick change to the left or right side of the blade

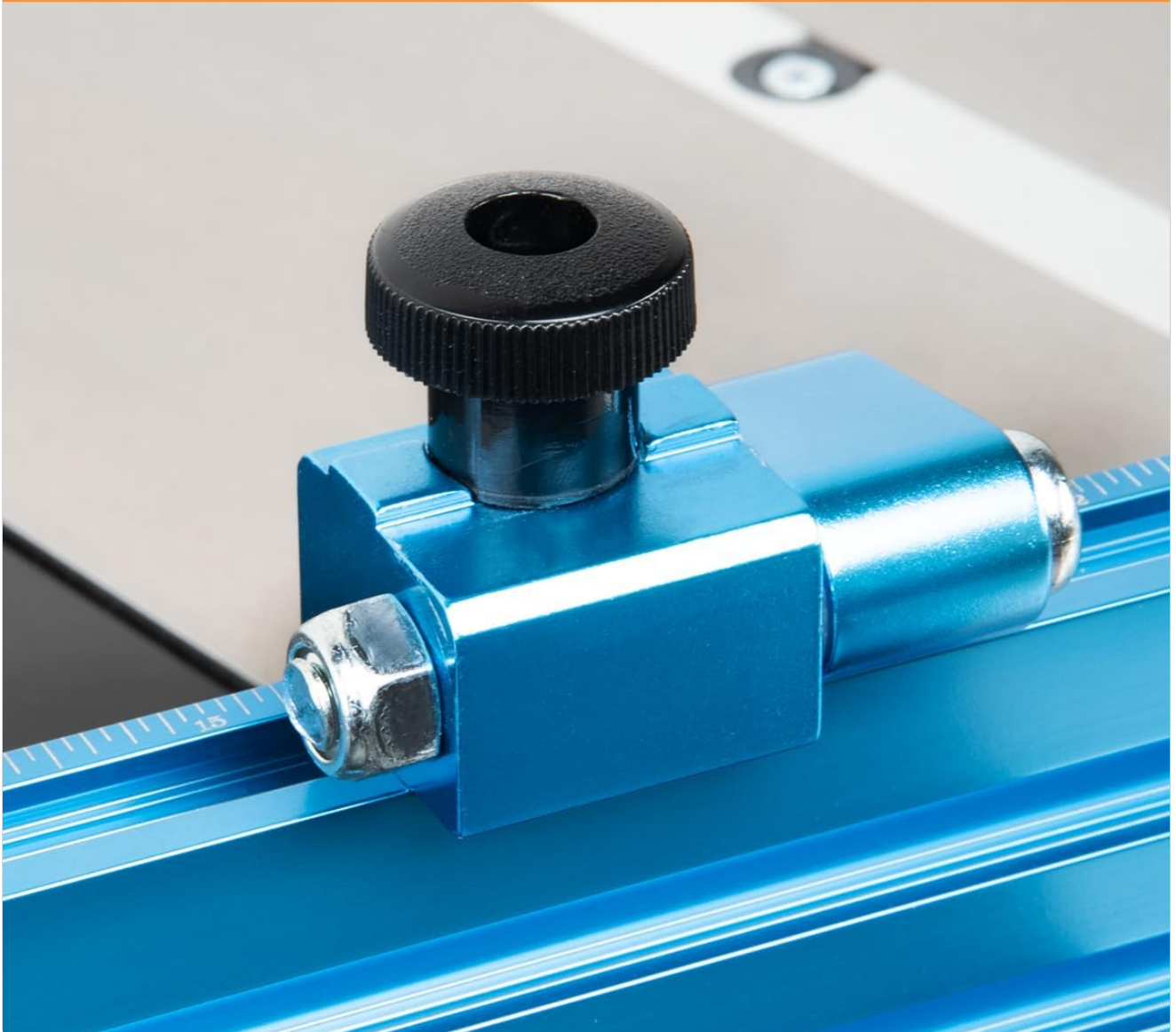


Figure 4.3: Close-up of the T-Track Flip Stop, demonstrating its quick adjustment capability for positioning on either side of the saw blade.

4.4. Inserting into Table Saw Miter Slot

Carefully slide the assembled miter gauge system into your table saw's miter slot. Ensure it slides smoothly without excessive play or binding. The miter gauge features 4 expansion discs that can be adjusted to remove side play within the miter slot.

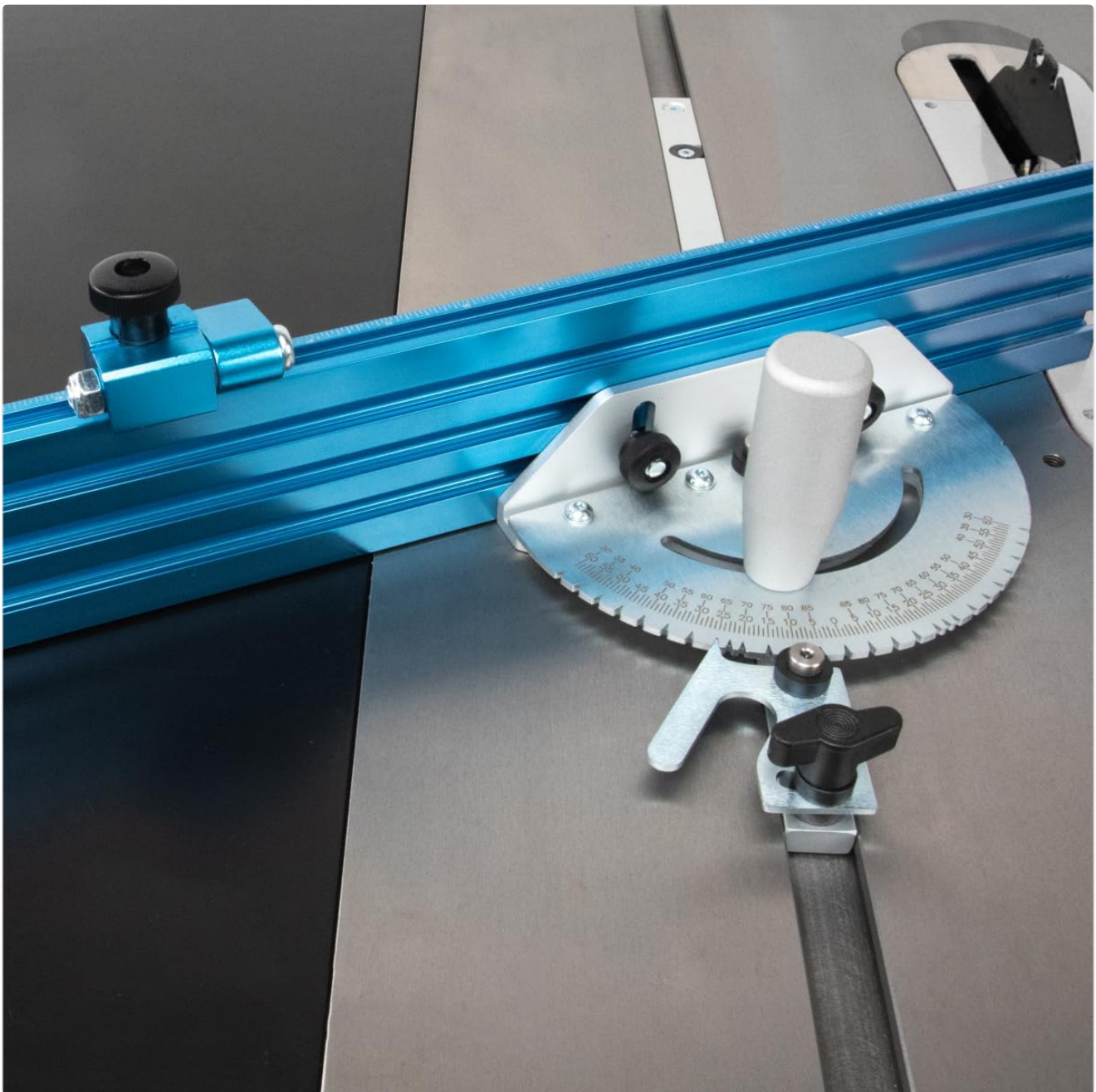


Figure 4.4: The POWERTEC miter gauge system positioned in a table saw's miter slot, ready for operation.

5. OPERATING INSTRUCTIONS

5.1. Setting Angles

The miter gauge features 27 angle indexing stops, with 1-degree step spacing and positive stops at common angles (0°, 10°, 22.5°, 30°, and 45°), both left and right. To set an angle:

1. Loosen the locking knob on the miter gauge.
2. Rotate the miter gauge head to the desired angle, aligning the indicator with the scale.
3. For positive stops, the mechanism will click into place. For intermediate angles, carefully align and then tighten the locking knob securely.



Adjustable Positive Stops 27 Angle Stops

Figure 5.1: Close-up of the miter gauge's angle scale and adjustable positive stops, indicating the 27 available angle settings.

5.2. Using the Flip Stop for Repeat Cuts

The T-Track Flip Stop allows for precise, repeatable cut lengths:

1. Measure and position the flip stop on the Multi-Track Fence to the desired cut length. The laser-engraved scale on the fence assists with accurate measurement.
2. Tighten the flip stop's locking mechanism.
3. Place your workpiece against the fence and the flip stop.
4. Make your cut. For subsequent pieces, simply place them against the flip stop for consistent length.

5.3. Making Cross-Cuts and Miter Cuts

1. Ensure the miter gauge is securely set to the desired angle.
2. Place the workpiece firmly against the fence.
3. Hold the workpiece and the miter gauge firmly.
4. Turn on the table saw and slowly push the miter gauge and workpiece through the blade. Maintain consistent pressure.

5. Once the cut is complete, turn off the saw and wait for the blade to stop before removing the workpiece and offcut.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your miter gauge system:

- **Cleaning:** After each use, wipe down all components to remove sawdust and debris. A dry cloth is usually sufficient. For stubborn residue, a mild cleaner can be used, ensuring all parts are thoroughly dried afterward.
- **Lubrication:** Periodically apply a dry lubricant (e.g., silicone spray) to the miter bar to ensure smooth sliding in the table saw slot. Avoid oil-based lubricants that can attract sawdust.
- **Inspection:** Regularly inspect all fasteners and components for wear or damage. Tighten any loose screws. Replace damaged parts immediately.
- **Storage:** Store the miter gauge system in a clean, dry place to prevent corrosion and damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Miter gauge binds or sticks in the slot.	Expansion discs are too tight; sawdust buildup in the slot.	Loosen the expansion discs slightly. Clean the miter slot and miter bar. Apply dry lubricant.
Excessive play in the miter slot.	Expansion discs are too loose or not properly adjusted.	Adjust the expansion discs to remove side play.
Inaccurate angle cuts.	Miter gauge not locked securely; fence not square to the miter gauge.	Ensure the locking knob is tightened. Check and adjust the fence for squareness.
Flip stop does not hold position.	Locking mechanism is loose or damaged.	Tighten the flip stop's locking mechanism. Inspect for damage and replace if necessary.

8. SPECIFICATIONS

Model: 71391V
Brand: POWERTEC
Miter Gauge Angles: 27 positive stops (1-degree increments, plus 0°, 10°, 22.5°, 30°, 45° left and right)
Miter Slot Compatibility: Standard 3/4" x 3/8" (with or without T-slots)
Fence Dimensions: 24" (length) x 3" (height) Multi-Track Fence with laser-engraved scale
Fence Material: Anodized extruded aluminum
Flip Stop: 3" T-Track Flip Stop, multi-position
Included Components: (1) Miter Gauge, (1) Multi-Track Miter Fence, (1) T-Track Flip Stop
Item Weight: Approximately 5.77 pounds
Package Dimensions: Approximately 25.08 x 4.8 x 3.43 inches

9. SUPPORT AND WARRANTY


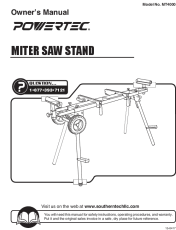

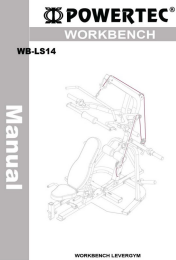

For technical assistance, replacement parts, or warranty information, please contact POWERTEC customer support. Refer to the official POWERTEC website or your purchase documentation for current contact details.
Online Resources: Visit the official [POWERTEC Store on Amazon](#) for additional product information and

accessories.

Warranty: Specific warranty terms and conditions may vary. Please retain your proof of purchase for warranty claims.

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Related Documents - 71391V

	<p>POWERTEC 71850 Router Table Insert Plate - Instructions and Safety</p> <p>Comprehensive instruction sheet for the POWERTEC 71850 Router Table Insert Plate, covering safety precautions, unpacking, parts list, installation, usage, and maintenance. Includes compatibility chart for various router models.</p>
	<p>POWERTEC MT4000 Miter Saw Stand Owner's Manual</p> <p>Comprehensive owner's manual for the POWERTEC MT4000 Miter Saw Stand, covering safety, assembly, operation, maintenance, and warranty information.</p>
	<p>Powertec PT3200i 3000W Digital Inverter Generator Operating Instructions</p> <p>Operating instructions for the Powertec PT3200i 3000W Digital Inverter Generator, covering safety, features, operation, maintenance, and troubleshooting.</p>
	<p>Powertec Workbench Levergym WB-LS14 Assembly Manual - Step-by-Step Guide</p> <p>Comprehensive assembly manual for the Powertec Workbench Levergym WB-LS14. Includes parts list, detailed step-by-step instructions, safety precautions, and maintenance tips.</p>
	<p>POWERTEC PT3300Ei 3300W Digital Inverter Generator Operating Instructions</p> <p>Comprehensive operating instructions for the POWERTEC PT3300Ei 3300W Digital Inverter Generator. Learn about safety rules, assembly, operation, maintenance, troubleshooting, and specifications.</p>

