

SWTHM 20240806175018

SWTHM 3 In 1 Modular Bar Gauge Instruction Manual

Model: 20240806175018

INTRODUCTION

The SWTHM 3 In 1 Modular Bar Gauge is a versatile woodworking tool designed for precise measurements and marking. This tool combines the functions of a modular stick gauge, a bar clamping positioning tool, and a scribe circle drawing ruler. Its modular design allows for multiple configurations to suit various measuring needs, including inside corner measurements, outside measurements, and circular pattern drawing. Constructed from durable metal, it ensures long-lasting performance and consistent accuracy for both professional craftsmen and hobbyists.

PACKAGE CONTENTS

Before assembly, ensure all components are present:

- Draw circle positioning post (1)
- Pencil (2)
- Diagonal positioning head (2)
- Side slot positioning head (2)
- Inner frame positioning head (2)
- Nut positioning head (2)
- 178mm stainless steel column (2)
- 135mm stainless steel column (2)
- Position ruler body (2)
- Hex wrench (1)
- 313mm stainless steel column (2)

INNER FRAME POSITIONING HEAD

Blunt Tips measure between any flat planes

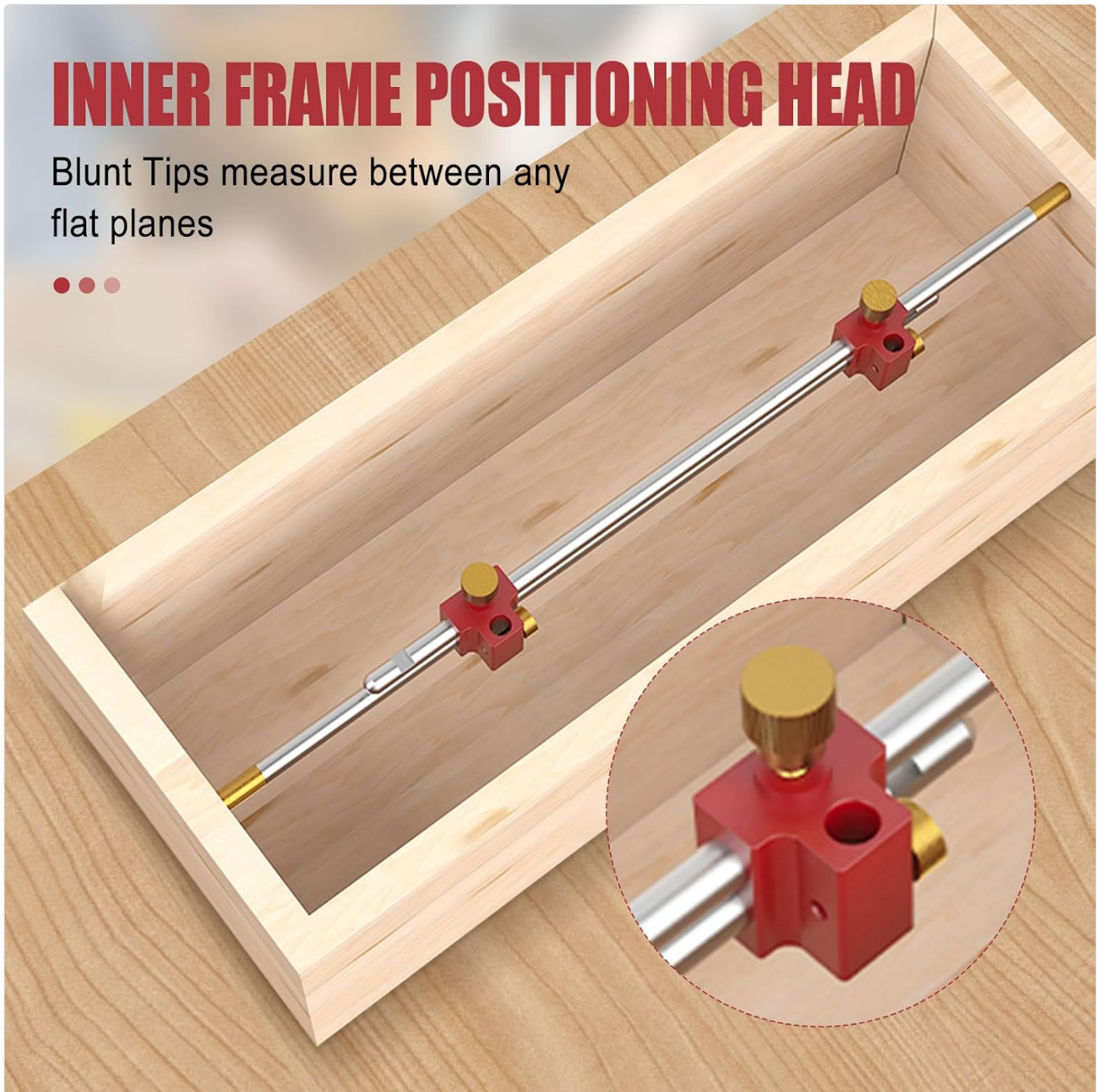


Figure 1: Exploded view of the Modular Bar Gauge components, showing all parts and their quantities for assembly.

SETUP AND ASSEMBLY

The Modular Bar Gauge is designed for flexible assembly to suit various tasks. Follow these steps to set up your tool:

1. **Select Rods:** Choose the appropriate length of stainless steel columns (135mm, 178mm, or 313mm) based on your measurement requirements. Multiple rods can be connected for extended lengths.
2. **Attach Positioning Heads:** Slide the desired positioning heads (e.g., inner frame, side slot, nut, or diagonal) onto the stainless steel columns. Secure them in place using the brass thumb screws.
3. **For Circle Drawing:** Insert the 'Draw circle positioning post' into one end of the assembled rod and a pencil into the designated slot on one of the positioning heads. Use the hex wrench to tighten the pencil securely.

MODULAR BARGAUGE SYSTEM

Modular Bar Gauge adjusts laterally to measure between inside surfaces

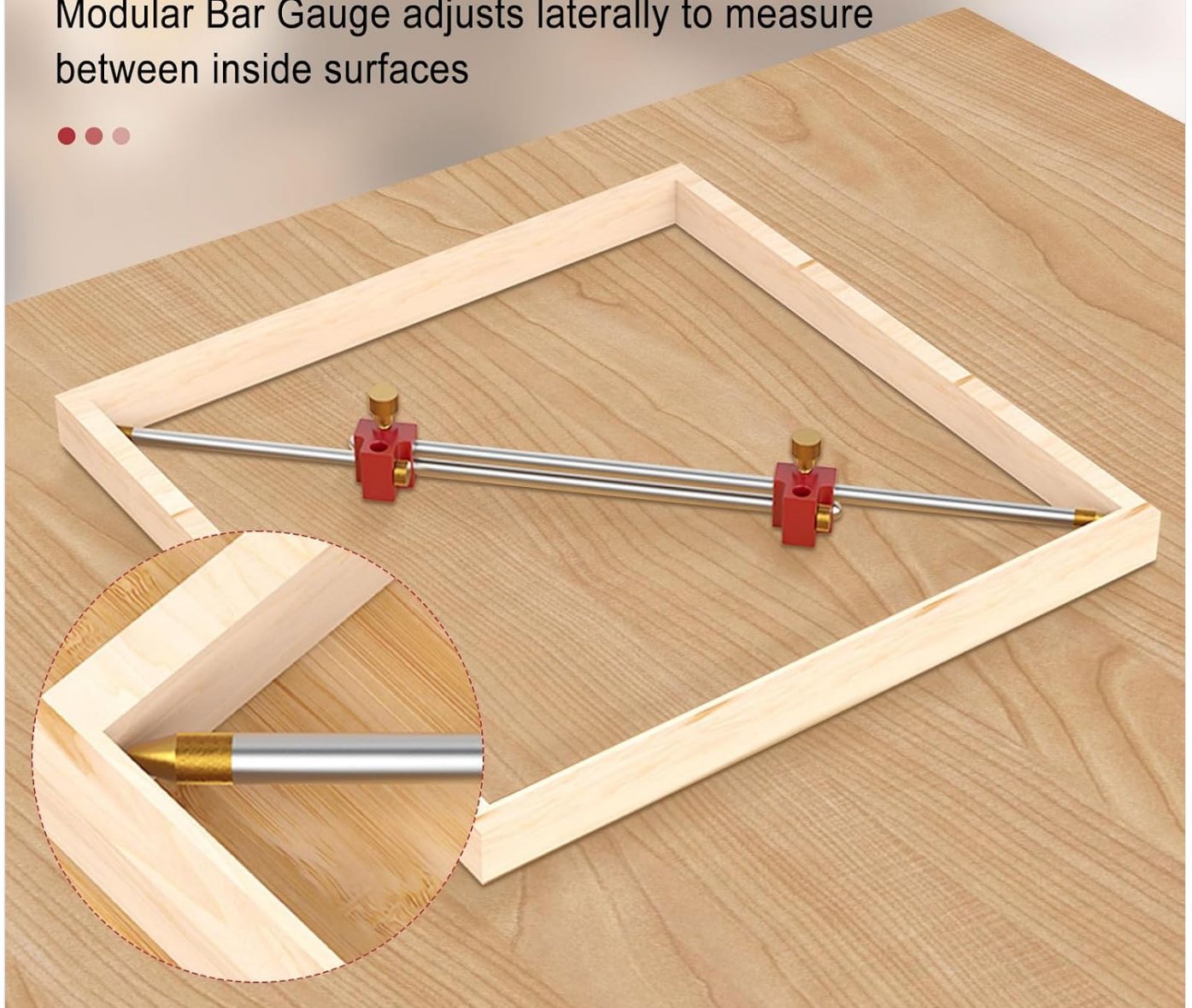


Figure 2: The Modular Bar Gauge system demonstrating different assembly configurations for diverse woodworking tasks.

LENGTH ADJUSTABLE

The distance can be adjusted according to the length of the wood



Figure 3: Illustration of how the bar gauge length can be adjusted by connecting multiple rods, extending its reach for larger measurements.

OPERATING INSTRUCTIONS

1. Measuring Inside Dimensions

To measure the inside dimensions of an object, such as a drawer or box:

1. Assemble the bar gauge with the 'Inner frame positioning heads' or 'Nut positioning heads' (blunt tips) on both ends.
2. Place the gauge inside the object and extend the rods until the blunt tips make firm contact with the opposing inner surfaces.
3. Lock the positioning heads to maintain the measurement. The distance between the tips represents the precise internal dimension.

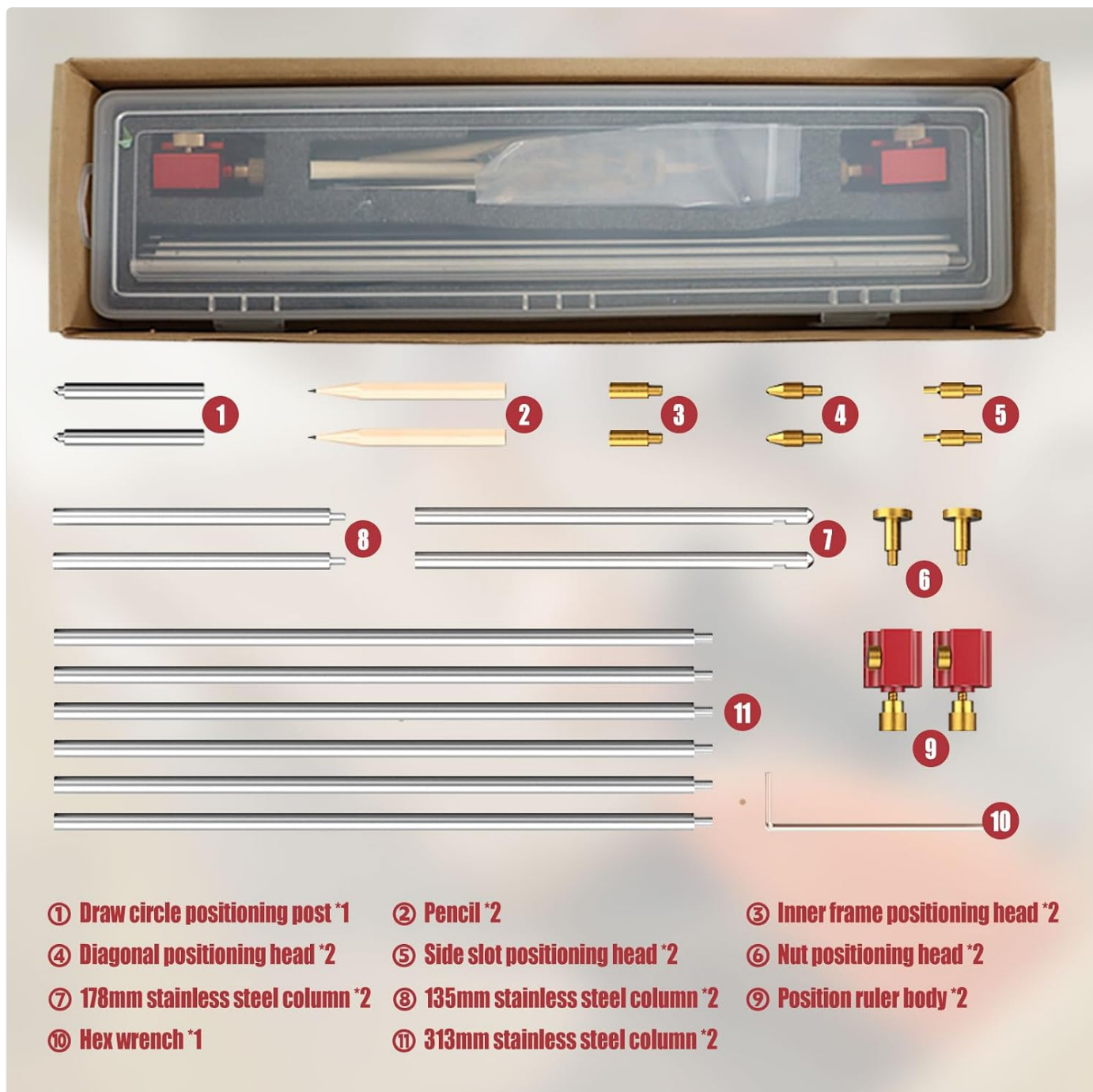


Figure 4: Using the Inner Frame Positioning Head to accurately measure the internal dimensions of a wooden box.

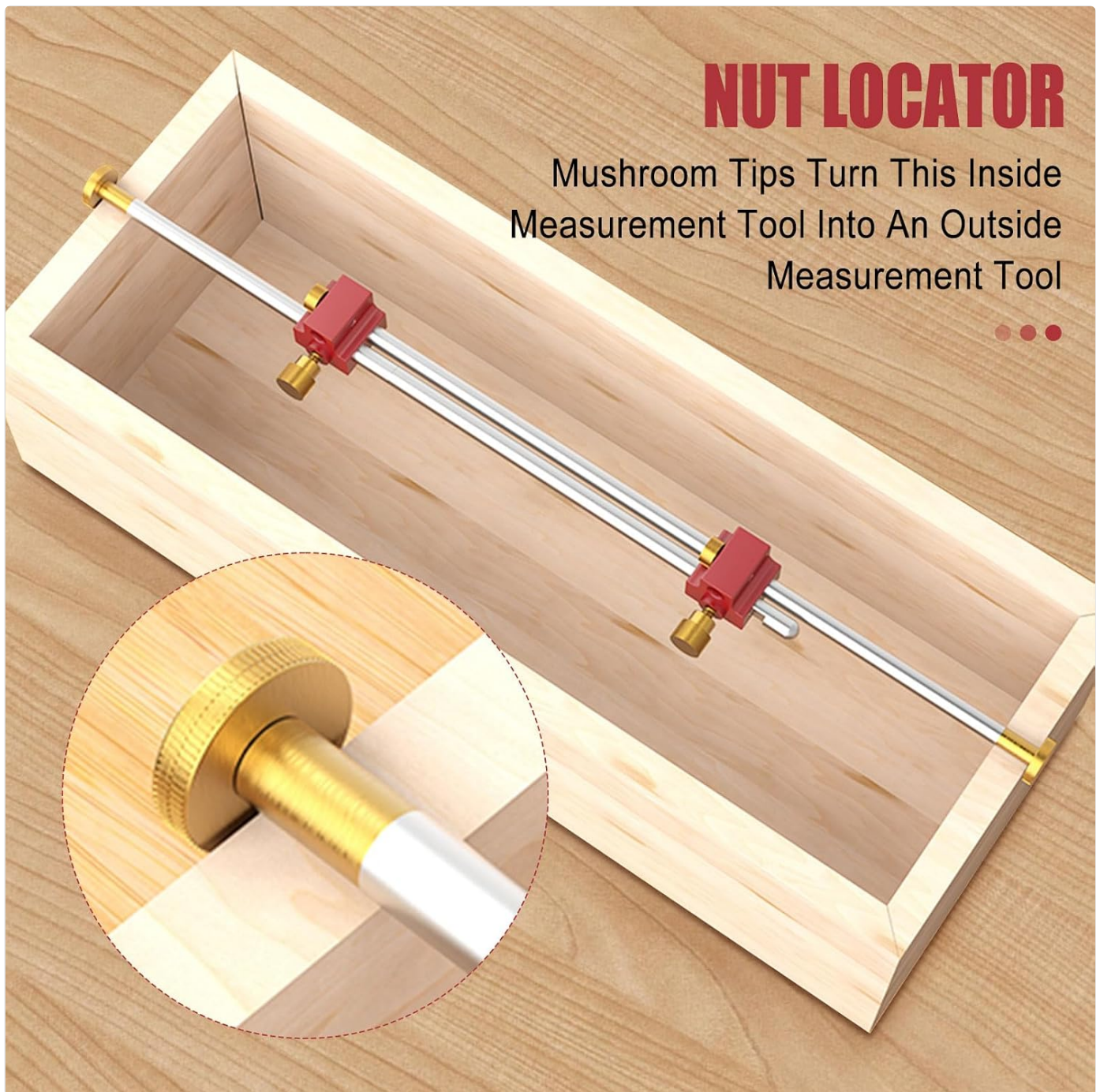


Figure 5: The Nut Locator feature, illustrating how mushroom tips can be used to convert the tool for accurate outside measurements.

2. Drawing Circles and Arcs

The bar gauge can function as a large compass for drawing precise circles and arcs:

1. Attach the 'Draw circle positioning post' to one end of the rod. This post acts as the pivot point.
2. Insert a pencil into the designated slot on one of the positioning heads and secure it with the hex wrench.
3. Adjust the distance between the pivot post and the pencil tip to achieve the desired radius.
4. Place the pivot post at the center of your desired circle and rotate the gauge to draw the circle or arc.



Woodworking Scribe Circle Drawing Ruler for Inside Corner

Figure 6: The Woodworking Scribe Circle Drawing Ruler in action, demonstrating how to mark a precise circle on a wooden surface.

3. Precise Positioning and Layout

Use the bar gauge for accurate positioning and layout tasks:

1. Configure the gauge with the appropriate positioning heads (e.g., 'Side slot positioning head' or 'Diagonal positioning head') for your specific task.
2. Adjust the length to match the required dimension for setting up machinery, marking joinery, or laying out intricate designs.
3. The stable and rigid design ensures that your layout marks are consistent and accurate.

Set Machinery To The Modular Bar Gauge For Absolute Precision



Figure 7: The Modular Bar Gauge in use, assisting in setting up woodworking machinery for absolute precision.

Your browser does not support the video tag.

Video 1: This video demonstrates the assembly and various uses of the SWTHM Modular Bar Gauge, including circle drawing and internal measurements, showcasing its versatility in woodworking tasks.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Modular Bar Gauge:

- **Cleaning:** After each use, wipe down all metal components with a clean, dry cloth to remove sawdust and debris. Avoid using harsh chemicals that may damage the finish.
- **Storage:** Store the bar gauge and its components in the provided case to protect them from dust, moisture, and physical damage.
- **Inspection:** Periodically check all connections and thumb screws to ensure they are tight. If any parts appear worn or damaged, consider replacing them to maintain accuracy.

TROUBLESHOOTING

If you encounter issues with your Modular Bar Gauge, consider the following:

- **Inaccurate Measurements:** Ensure all positioning heads are securely tightened and that the tips are making flush contact with the surfaces being measured. Check for any debris obstructing the movement of the rods.
- **Difficulty Drawing Circles:** Verify that the pencil is firmly secured in its holder and that the 'Draw circle positioning post' is stable. Ensure the surface is flat and suitable for marking.
- **Stiff Movement:** If the rods are difficult to adjust, check for any trapped sawdust or foreign objects. Clean the rods and internal mechanisms if necessary.

SPECIFICATIONS

Model Number	20240806175018
Item Weight	2 pounds
Package Dimensions	10 x 3.5 x 1.5 inches
Material	Metal
Batteries Required	No

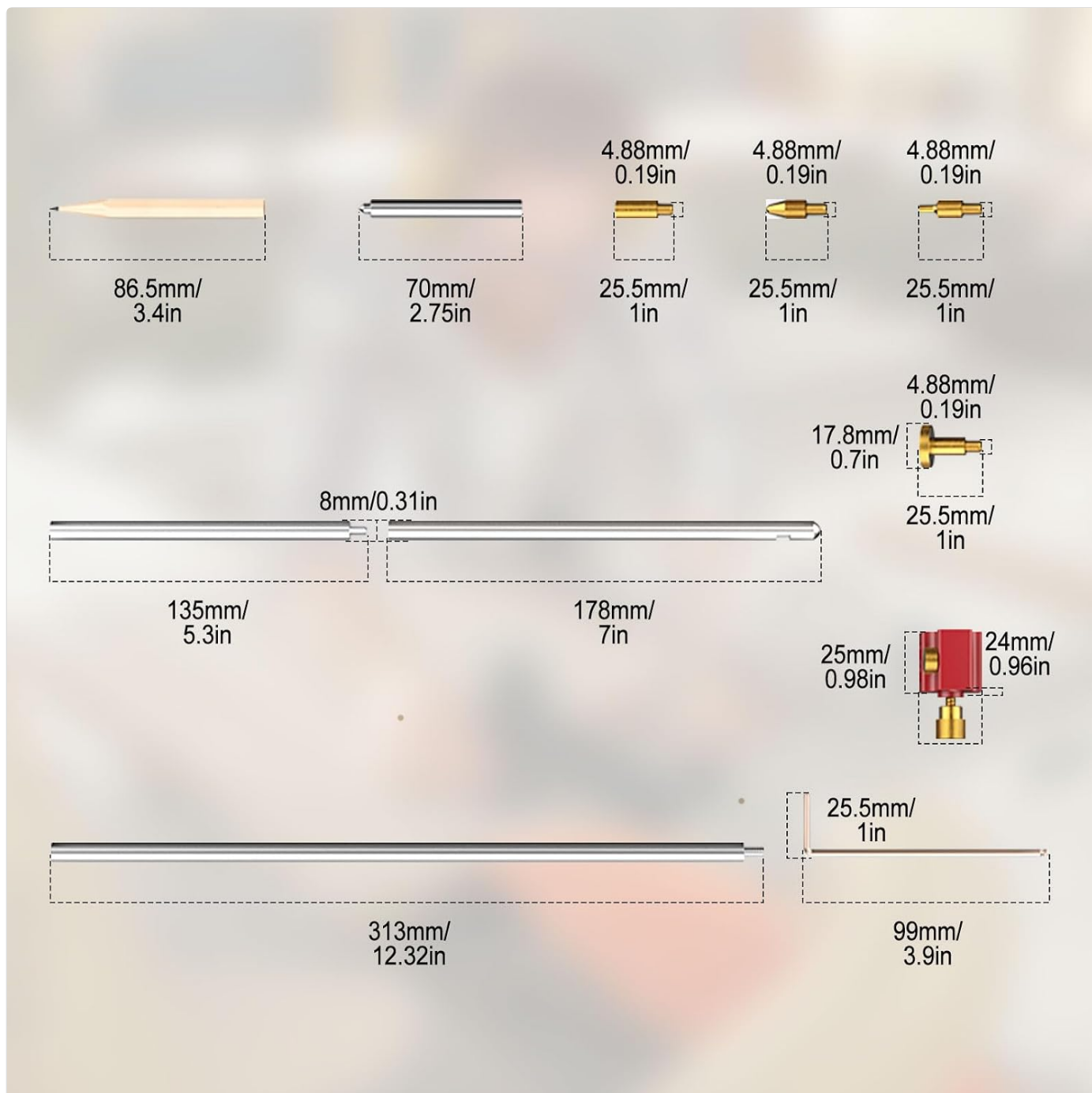


Figure 8: Detailed dimensions of the Modular Bar Gauge components, including rod lengths and tip sizes.

WARRANTY INFORMATION

Specific warranty details are not provided with this product. Please refer to the retailer's return policy or contact the manufacturer for information regarding product warranty.

SUPPORT

For further assistance or inquiries, please contact the manufacturer, circulads, or the retailer from whom you purchased this product.

ASK A QUESTION ABOUT THIS MANUAL

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