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STANLEY 20-112

STANLEY 20-112 Clamping Miter Box User Manual

Model: 20-112

Introduction

This manual provides detailed instructions for the safe and effective use of your STANLEY 20-112 Clamping Miter Box. Designed for precision and versatility, this tool assists in making accurate miter cuts for various woodworking projects. Please read this manual thoroughly before operation and retain it for future reference.

Safety Information

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Always wear appropriate personal protective equipment, such as safety glasses, when operating this tool. Ensure your work area is well-lit and clear of obstructions. Keep hands clear of the saw blade path.

Product Overview

The STANLEY 20-112 Clamping Miter Box is constructed from high-impact-resistant material, ensuring durability. Key features include:

- **Clamping Mechanism:** Cam pins twist to securely hold material for precise cuts.
- **Versatile Angle Cuts:** Supports miter cuts at 45 and 90 degrees, face angles at 45 degrees, and 22-1/2 degrees (octagonal).
- **Integrated Saw Stop:** Prevents the saw from cutting into the miter box base.
- **Molded Storage:** Compartments for cam pins and a pencil are integrated into the design.
- **Mounting Options:** Features a molded lip for use without mounting and pre-drilled holes for fastening to a workbench.
- **Built-in Measuring Scale:** For convenient measurements.
- **Honeycomb Base:** Provides stability and support for the workpiece.



Figure 1: The STANLEY 20-112 Clamping Miter Box, showcasing its overall design and integrated features.

Setup

1. **Unpacking:** Carefully remove the miter box from its packaging. Inspect for any damage.
2. **Mounting (Optional):** For enhanced stability and precision, the miter box can be fastened to a workbench. Use appropriate screws (not included) through the pre-drilled holes in the base. Alternatively, the molded lip on the base edge allows for secure placement against a workbench without permanent mounting.
3. **Cam Pin Storage:** The cam pins are stored in the molded compartments when not in use. Retrieve them for operation.

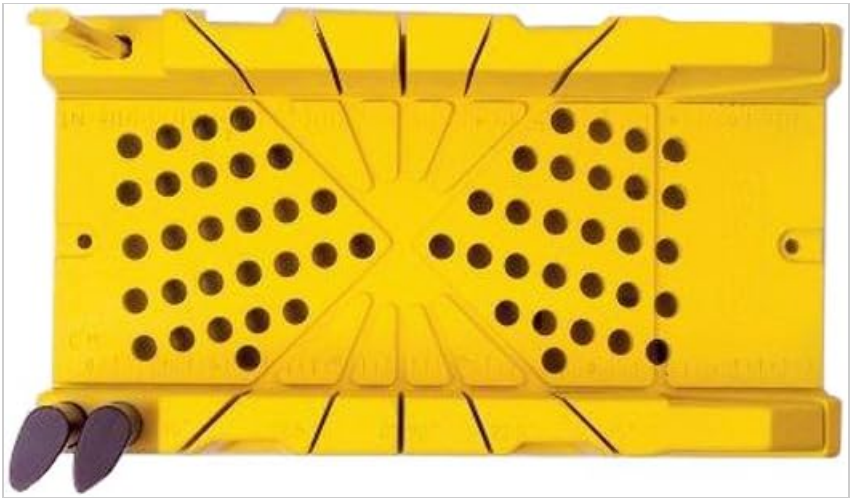


Figure 2: Top view of the miter box base, illustrating the honeycomb pattern and pre-drilled mounting holes.

Operating Instructions

1. **Prepare Workpiece:** Place the material to be cut into the miter box. Ensure it rests flat against the base and the back wall.
2. **Secure Material:** Insert the cam pins into the appropriate holes on the base, adjacent to the workpiece. Twist the cam pins

to apply pressure and securely hold the material in place. This prevents movement during cutting.

3. **Select Cut Angle:** Identify the desired cutting slot for your required angle (e.g., 45 degrees, 90 degrees, 22-1/2 degrees).
4. **Position Saw:** Insert your hand saw (not included) into the chosen cutting slot. Ensure the saw blade is aligned with the desired cut line on your workpiece.
5. **Make the Cut:** Apply steady, even pressure to the saw, guiding it through the material. The integrated saw stop will prevent the blade from cutting into the miter box itself. Maintain a slow and controlled sawing motion for the most accurate results.
6. **Release Workpiece:** Once the cut is complete, untwist the cam pins to release the material.



Figure 3: A piece of wood secured within the miter box using the cam pins, ready for cutting.

Maintenance

To ensure the longevity and continued accuracy of your miter box:

- **Cleaning:** After each use, clear any sawdust or debris from the miter box using a brush or compressed air.
- **Storage:** Store the miter box in a clean, dry environment away from direct sunlight and extreme temperatures. Ensure cam pins are stored in their designated compartments.
- **Inspection:** Periodically inspect the miter box for any signs of wear or damage. If the cutting slots become excessively worn, it may affect cutting accuracy.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Inaccurate cuts	◦ Workpiece not securely clamped. ◦ Saw blade is dull or damaged. ◦ Cutting slots are worn. ◦ Sawing too quickly or unevenly.	◦ Ensure cam pins are twisted tightly to secure the material. ◦ Use a sharp, appropriate saw blade. ◦ Inspect cutting slots; if severely worn, consider replacing the miter box. ◦ Maintain a slow, controlled sawing motion.
Material slips during cutting	◦ Cam pins not properly engaged or tightened. ◦ Miter box not stable on work surface.	◦ Re-position and tighten cam pins. ◦ Mount the miter box to a workbench or ensure the molded lip is firmly against a stable edge.

Specifications

- **Model:** 20-112
- **Brand:** STANLEY
- **Material:** High-impact resistant blend
- **Dimensions:** Approximately 14.3 x 12.8 x 4 inches
- **Weight:** Approximately 0.16 ounces (Note: This weight seems unusually low for a miter box, likely a data entry error in source. User should verify actual product weight.)
- **Cut Angles:** 45°, 90°, 22-1/2° (octagonal)
- **Power Source:** Hand-powered
- **Special Features:** Portable, Clamping mechanism, Integrated saw stop, Molded storage

Warranty and Support

The STANLEY 20-112 Clamping Miter Box comes with a manufacturer's limited lifetime warranty. For warranty claims, technical support, or further assistance, please refer to the official STANLEY website or contact their customer service department. Keep your purchase receipt as proof of purchase.

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