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› [SawStop 10-Inch Professional Cabinet Saw \(PCS31230-TGP236\) Instruction Manual](#)

SawStop PCS31230TGP236

SawStop 10-Inch Professional Cabinet Saw

Model: PCS31230-TGP236 | User Instruction Manual

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your SawStop 10-Inch Professional Cabinet Saw, Model PCS31230-TGP236. This saw is equipped with a 3-HP motor and a 36-inch Professional T-Glide Fence System, designed for precision woodworking tasks.



Figure 1: SawStop Professional Cabinet Saw (PCS31230-TGP236)

The SawStop Professional Cabinet Saw is engineered for both performance and safety, featuring a patented safety system that minimizes injury risk during operation. Please read this manual thoroughly before initial use to ensure proper understanding and safe handling of the equipment.

2. SAFETY INFORMATION

The SawStop Professional Cabinet Saw incorporates a unique safety system designed to detect contact with skin and stop the blade within milliseconds. While this system significantly reduces the risk of serious injury, it is crucial to always follow standard woodworking safety practices.

2.1 SawStop Patented Safety System

The patented safety system stops the spinning blade on contact with skin. The blade stops in less than 5 milliseconds and retracts below the table, minimizing a potentially severe injury to a minor scratch. This system is a critical safety feature of your SawStop saw.



Figure 2: SawStop Blade Safety Feature

2.2 How the Safety System Works

- Detect:** The system continuously monitors the blade for electrical conductivity, which changes upon contact with skin.
- Stop:** Upon detection, an aluminum brake cartridge is deployed, stopping the blade's rotation almost instantly.
- Drop:** The blade is simultaneously pulled below the table surface.
- Reset:** After an activation, the saw can be reset by replacing the brake cartridge and, if necessary, the blade.

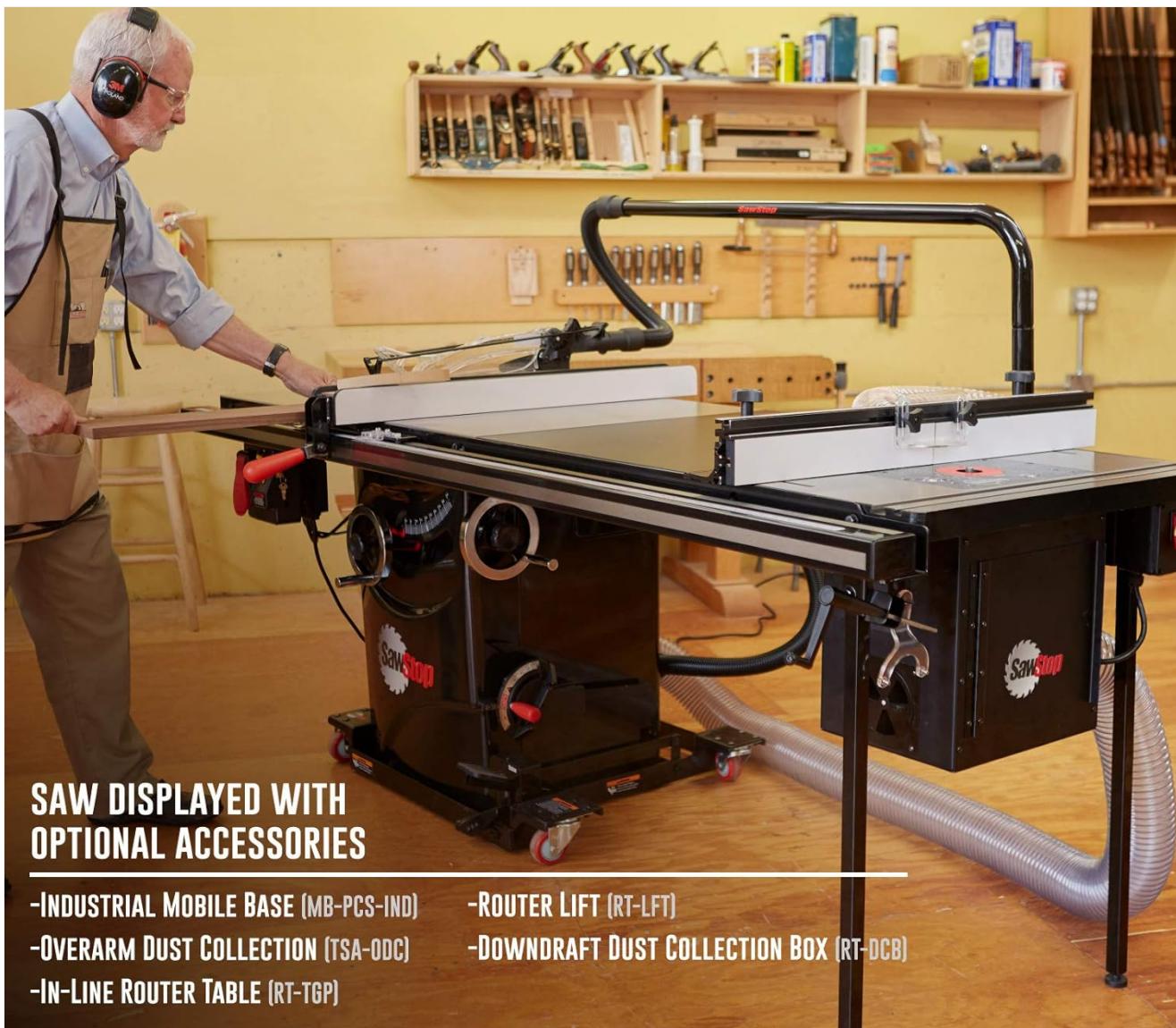


Figure 3: SawStop Safety System Operation Diagram

2.3 General Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and dust masks.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Never operate the saw under the influence of drugs, alcohol, or medication that may impair judgment.
- Keep hands clear of the blade path at all times. Use push sticks or push blocks when feeding material.
- Ensure the blade guard is properly installed and functioning before operation.
- Disconnect power before performing any maintenance, blade changes, or adjustments.

3. SETUP AND ASSEMBLY

The SawStop Professional Cabinet Saw requires assembly upon delivery. The assembly process is designed to be straightforward, with precision-made parts ensuring proper fit. It is recommended to have assistance when lifting and positioning heavy components.

3.1 Unpacking and Inspection

- Carefully unpack all components and verify against the packing list.
- Inspect all parts for any shipping damage. Report any damage immediately to the carrier and SawStop customer service.

3.2 T-Glide Fence Assembly

The 36-inch T-Glide Fence and Rail system is constructed from heavy-gauge steel, ensuring secure lockdown and consistently square cuts without deflection. Follow the detailed instructions provided in the separate assembly guide for proper installation of the fence system.



Figure 4: T-Glide Fence System in Use

3.3 Electrical Connection

This 3-HP saw requires a 230-volt AC power supply. Ensure your workshop is equipped with the appropriate electrical circuit and outlet. Consult a qualified electrician if necessary to ensure proper installation and compliance with local electrical codes.

4. OPERATING INSTRUCTIONS

Proper operation of your SawStop table saw ensures both safety and precision in your woodworking projects.

4.1 Control Box and Power

The Control Box houses the on/off switch, power paddle, and an on-board computer. This system constantly monitors all components to ensure reliable and safe operation. To start the saw, engage the power paddle. To stop, press the large red off switch.

4.2 Blade Elevation and Angle Adjustment

The saw features a large handwheel and gas-assisted elevation for smooth and easy adjustment of the blade height. A separate crank allows for precise blade angle adjustments. Ensure all locking mechanisms are secured after making adjustments.



Figure 5: Precision Blade Adjustment Handwheel

4.3 Dust Collection

The saw provides 99% dust collection efficiency, both above the table via the included dust collection blade guard and below the table through advanced shrouding around the blade. For enhanced dust management, an optional Overarm Dust Collection system (Model # TSA-ODC, sold separately) can be integrated, routing dust into a 4-inch port.

HOW IT WORKS:

1 DETECT



3 DROP



2 STOP



4 RESET

**RESET
THE SAW
— AND —
GET BACK
TO WORK**

Figure 6: SawStop Saw with Optional Dust Collection System

4.4 Cutting Operations

- Always ensure the workpiece is properly supported and the fence is securely locked.
- Use a push stick or push block for narrow cuts and to maintain control of the workpiece.
- Avoid cutting wet or excessively resinous wood, as this can potentially trigger the safety system. If cutting such materials is necessary, use the bypass mode with extreme caution and only when fully aware of the increased risk.
- Never force a cut. Allow the blade to cut at its own pace.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your SawStop table saw. Always disconnect the power before performing any maintenance.

5.1 Cleaning

- Regularly clean sawdust and debris from the table surface, fence, and internal components.

- Ensure the dust collection ports are clear and unobstructed.

5.2 Blade and Cartridge Care

- Inspect the blade for sharpness and damage before each use. Replace dull or damaged blades.
- After a safety system activation, the brake cartridge must be replaced. A new blade may also be required depending on the extent of damage.
- Ensure the correct brake cartridge is used for the type of blade (e.g., standard or dado blade).

5.3 Table Flatness

The cast-iron table flatness is measured diagonally at 0.010 inches maximum gap, ensuring high precision. Protect the table surface from rust and damage.

6. TROUBLESHOOTING

6.1 Safety System Activation Without Contact

- **Issue:** The safety system activates unexpectedly without skin contact.
- **Possible Causes:**
 - Cutting wet or very green wood, which can be electrically conductive.
 - Cutting material containing conductive foreign objects (e.g., staples, nails).
 - Excessive moisture or humidity in the environment.
- **Solution:**
 - If cutting wet wood, consider using the bypass mode with extreme caution.
 - Inspect wood for metal objects using a metal detector before cutting.
 - Ensure the workshop environment is dry.
 - Contact SawStop customer service if activations persist without clear cause.

6.2 Saw Not Starting

- **Possible Causes:**
 - Power cord not securely plugged in.
 - Circuit breaker tripped.
 - Safety system not reset after a previous activation.
 - Faulty power paddle or control box.
- **Solution:**
 - Check power connections and circuit breakers.
 - Ensure the brake cartridge is correctly installed and the system is reset.
 - If issues persist, contact SawStop customer support.

7. SPECIFICATIONS

Feature	Detail
Brand	SawStop
Model Number	PCS31230TGP236

Horsepower	3 HP
Blade Diameter	10 Inches
Fence System	36-inch T-Glide Fence
Power Source	AC adapter
Voltage	230 Volts (AC)
Wattage	1800 Watts
Item Weight	491.4 Pounds
Product Dimensions	69.13" L x 34" H
Blade Material	Professional Grade
Number of Teeth (Standard Blade)	24
Special Feature	Patented safety system

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The SawStop Professional Cabinet Saw (Model PCS31230-TGP236) comes with a two-year limited warranty. This warranty covers defects in materials and workmanship under normal use. Please refer to the official SawStop warranty documentation included with your product for full terms and conditions.

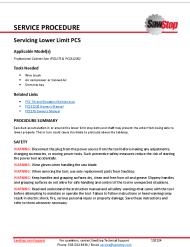
8.2 Customer Support

For technical assistance, parts, or warranty claims, please contact SawStop customer support. Detailed contact information can be found on the official SawStop website or in the documentation provided with your saw.

Online Resources: [Visit the SawStop Store on Amazon](#)

Related Documents - PCS31230TGP236

	<p>SawStop 10" Professional Cabinet Saw Owner's Manual</p> <p>This comprehensive owner's manual provides essential guidance for the SawStop 10" Professional Cabinet Saw, detailing its revolutionary safety system, assembly, operation, maintenance, and troubleshooting. Learn how to safely and effectively use your SawStop cabinet saw for woodworking projects.</p>
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	<p>SawStop 10" Professional Cabinet Saw PCS Parts List</p> <p>Comprehensive parts list for the SawStop 10" Professional Cabinet Saw, covering models PCS31230, PCS31230-AU, PCS31230-KR, PCS31230-CH, PCS175, and PCS31230-TGP252. Includes detailed component breakdowns for cabinet, internal assembly, arbor, blade guard, and miter gauge.</p>
	<p>SawStop 10" Professional Cabinet Saw Owner's Manual</p> <p>This owner's manual provides comprehensive instructions for the safe operation, assembly, and maintenance of the SawStop 10" Professional Cabinet Saw. It details the revolutionary safety system, troubleshooting tips, specifications, and parts lists for models PCS31230 and PCS31230-AU.</p>
	<p>SawStop Professional T-Glide Advance Fence System Owner's Manual</p> <p>Comprehensive owner's manual for the SawStop Professional T-Glide Advance Fence System (Model ATGP-FA), covering installation, adjustment, usage, safety, and warranty information.</p>
	<p>SawStop T-Glide Advance Fence System: Installation, Adjustment, and Usage Guide</p> <p>Comprehensive owner's manual for the SawStop Industrial T-Glide Advance Fence System, covering installation, adjustment, safety, usage for ripping and cross-cutting, and warranty information. Features detailed instructions and component lists.</p>
	<p>SawStop Professional Cabinet Saw Service Procedure: Servicing Lower Limit PCS</p> <p>Detailed service procedure for SawStop Professional Cabinet Saws (PCS175 & PCS31230) on how to clean the lower limit stop bolts and shaft to ensure proper arbor lowering and prevent blade protrusion. Includes safety warnings, tools needed, and step-by-step instructions.</p>