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Delta 36-441B, 36-451X

Instruction Manual

DELTA 10" CONTRACTOR'S SAW

Models 36-441B, 36-451X



This image displays the Delta 10-inch Contractor's Saw, specifically models 36-441B and 36-451X, as featured on the cover of its instruction manual. The saw is shown with a fence system, and the Delta logo is visible at the bottom.

INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Delta 10"

Contractor's Saw, Models 36-441B and 36-451X. Please read this manual thoroughly before operating the saw to ensure proper use and to prevent injury or damage to the tool.

Keep this manual for future reference. If you have any questions or require assistance, refer to the "Support and Warranty" section.

SAFETY INFORMATION

Your safety and the safety of others are paramount. Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. This section outlines critical safety guidelines for using your contractor's saw.

General Safety Rules

- **Read the entire manual:** Understand all instructions and warnings before operating the saw.
- **Wear appropriate safety gear:** Always use eye protection (safety glasses or goggles), hearing protection, and a dust mask.
- **Keep work area clean and well-lit:** Cluttered or dark areas invite accidents.
- **Do not operate in explosive atmospheres:** Do not use power tools in the presence of flammable liquids, gases, or dust.
- **Keep children and bystanders away:** Distractions can cause you to lose control.
- **Secure workpiece:** Always use clamps or a vise to hold the workpiece firmly.
- **Avoid accidental starting:** Ensure the switch is in the off-position before plugging in the tool.
- **Stay alert:** Watch what you are doing and use common sense. Do not operate the saw when tired or under the influence of drugs, alcohol, or medication.

Electrical Safety

- **Grounded tools:** This saw is equipped with a three-prong plug. Ensure it is plugged into a properly grounded outlet.
- **Avoid body contact with grounded surfaces:** Such as pipes, radiators, ranges, and refrigerators.
- **Do not abuse the cord:** Never carry the tool by the cord or yank it to disconnect from an outlet. Keep cord away from heat, oil, sharp edges, or moving parts.
- **Use proper extension cords:** If an extension cord is necessary, ensure it is rated for outdoor use and has the correct gauge for the saw's power requirements.

Saw-Specific Safety

- **Use the correct blade:** Ensure the blade is sharp, clean, and suitable for the material being cut.
- **Keep guards in place:** Never operate the saw without the blade guard and splitter/riving knife properly installed and functioning.
- **Avoid kickback:** Use a push stick or push block when cutting narrow pieces. Maintain proper body position.
- **Never reach over or behind the spinning blade.**
- **Disconnect power before making adjustments or changing blades.**

SETUP

Unpacking and Inspection

1. Carefully remove all components from the packaging.
2. Inspect the saw for any shipping damage. If damage is found, do not operate the saw and contact customer support immediately.
3. Verify that all parts listed in the packing list are present.

Assembly

Follow these general steps for assembly. Refer to specific diagrams in your physical manual for detailed instructions on attaching legs, extension wings, and the fence system.

- Attach the stand or legs to the saw body, ensuring all fasteners are securely tightened.
- Install any extension wings or outfeed supports.
- Mount the rip fence and ensure it slides smoothly and locks securely parallel to the blade.
- Install the blade guard and splitter/riving knife assembly.

Work Area Preparation

- Place the saw on a stable, level surface.
- Ensure adequate space around the saw for material handling and safe operation.
- Connect the saw to a suitable power outlet as per electrical safety guidelines.
- Connect a dust collection system if available, to minimize airborne dust.

OPERATING THE SAW

Basic Operation

1. **Power On/Off:** Locate the power switch. Ensure the saw is off before plugging in.
2. **Blade Height Adjustment:** Use the handwheel to raise or lower the blade. For most cuts, the blade should extend approximately 1/8 inch above the workpiece.
3. **Blade Bevel Adjustment:** Use the bevel lock and adjustment mechanism to tilt the blade for angled cuts.

Cutting Procedures

- **Ripping (Cutting with the grain):**
 - a. Set the rip fence to the desired width.
 - b. Ensure the workpiece has a straight edge against the fence.
 - c. Use a push stick for the final portion of the cut, especially for narrow pieces.
- **Crosscutting (Cutting across the grain):**
 - a. Use the miter gauge to guide the workpiece.
 - b. Never use the rip fence and miter gauge simultaneously for crosscutting.

Always ensure the workpiece is stable and properly supported throughout the cut. Never force the material into the blade.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Delta Contractor's Saw. Always disconnect the saw from power before performing any maintenance.

Cleaning

- After each use, clear sawdust and debris from the table, fence, and blade guard.
- Use a brush or vacuum cleaner; avoid using compressed air as it can force dust into bearings.
- Clean the blade regularly to remove pitch and resin buildup, which can affect cutting performance.

Lubrication

- Apply a light coat of paste wax to the cast iron table surface to reduce friction and prevent rust.
- Lubricate the blade height and bevel adjustment mechanisms periodically with a dry lubricant or silicone spray.

Blade Care

- Inspect the blade for dullness, missing teeth, or cracks before each use. Replace damaged blades immediately.
- Ensure the blade is properly installed and the arbor nut is tightened securely.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Delta Contractor's Saw. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Saw does not start	No power to outlet; tripped circuit breaker; faulty switch; motor overload.	Check power supply; reset breaker; inspect switch (contact service if faulty); allow motor to cool.
Poor cut quality (burning, rough edges)	Dull or dirty blade; incorrect blade for material; improper feed rate; misaligned fence.	Replace or clean blade; use appropriate blade; adjust feed rate; check fence alignment.
Excessive vibration	Loose blade; damaged blade; unstable saw stand; motor issues.	Tighten blade arbor nut; replace damaged blade; ensure stand is stable; contact service for motor issues.
Blade binds or kickback occurs	Misaligned fence; dull blade; improper technique; workpiece pinching.	Align fence parallel to blade; replace blade; use push stick; ensure splitter/riving knife is installed and aligned.

SPECIFICATIONS

The following are general specifications for the Delta 10" Contractor's Saw, Models 36-441B and 36-451X. Specific details may vary slightly by model variant.

- **Blade Diameter:** 10 inches (254 mm)
- **Arbor Size:** 5/8 inch (15.88 mm)
- **Motor:** 1.5 - 2 HP (typical for contractor saws)
- **Voltage:** 120V AC, 60 Hz (standard for residential use)
- **Max Depth of Cut at 90°:** Approximately 3-1/8 inches (79 mm)
- **Max Depth of Cut at 45°:** Approximately 2-1/4 inches (57 mm)
- **Rip Capacity (Right of Blade):** Typically 30 inches (762 mm)
- **Rip Capacity (Left of Blade):** Typically 15 inches (381 mm)
- **Table Size (W x D):** Approximately 20 x 27 inches (508 x 686 mm) without extensions

SUPPORT AND WARRANTY

For additional information, parts, service, warranty claims, or other assistance regarding your Delta Machinery product, please use the contact information below:

- **Website:** Visit the official Delta Machinery website for product information and resources:
www.deltamachinery.com
- **Customer Service (USA):** Call 1-800-223-7278
- **Customer Service (Canada):** Call 1-800-463-3582

Please have your model number (36-441B or 36-451X) and serial number ready when contacting support.

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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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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