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POWERMATIC 63

POWERMATIC Model 63 Artisan's 10-inch Table Saw Instruction and Parts Manual

Comprehensive Guide for Setup, Operation, Maintenance, and Parts Identification

INTRODUCTION

This manual serves as a vital resource for owners and operators of the POWERMATIC Model 63 Artisan's 10-inch Table Saw. It provides detailed instructions and essential information to ensure safe and efficient operation, proper maintenance, and accurate identification of parts. Adhering to the guidelines within this document will help maintain the longevity and performance of your table saw.

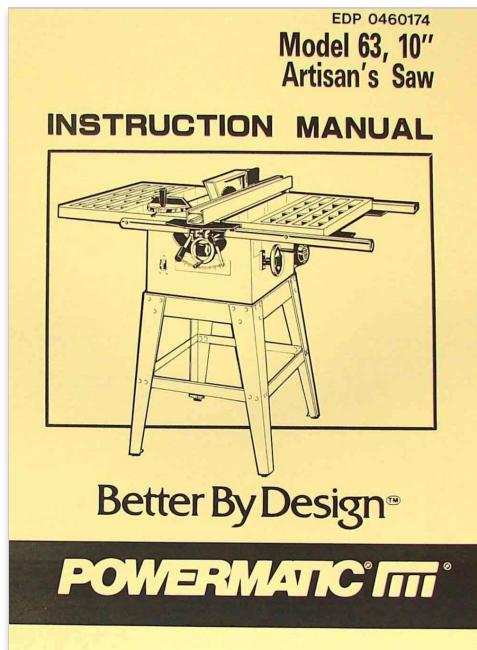


Image: Cover of the reproduction manual for the Powermatic Model 63 Artisan's 10-inch Table Saw. This manual contains comprehensive instructions and parts information.

Before operating the table saw, carefully read and understand all instructions and safety warnings. Keep this manual accessible for future reference.

SETUP

Proper setup is crucial for the safe and accurate operation of your table saw. Follow these steps carefully:

- 1. Unpacking and Inspection:** Carefully remove all components from the packaging. Inspect for any shipping damage. Report any damage immediately to the carrier and supplier. Ensure all listed parts are present.
- 2. Assembly:** Assemble the stand and attach the saw unit according to the provided diagrams. Ensure all fasteners are securely tightened.
- 3. Blade Installation:** Install the appropriate 10-inch saw blade. Ensure the blade teeth are oriented correctly for cutting. Tighten the arbor nut securely.
- 4. Blade Alignment:** Verify the blade is parallel to the miter slot. Adjust if necessary using the alignment procedures detailed in the original manual.
- 5. Fence and Miter Gauge Setup:** Install and calibrate the rip fence to ensure it is parallel to the blade. Check the miter gauge for accurate 90-degree and 45-degree settings.
- 6. Electrical Connection:** Connect the saw to a grounded electrical outlet with the correct voltage and amperage as specified on the motor plate. Do not use extension cords unless absolutely necessary, and ensure they are rated for the saw's power requirements.

OPERATING THE TABLE SAW

Understanding the controls and safe operating procedures is essential for effective use of your POWERMATIC Model 63 table saw.

- Power Controls:** Locate the ON/OFF switch. Familiarize yourself with its operation and ensure it is easily accessible.
- Blade Height Adjustment:** Use the blade height adjustment handwheel to set the blade to the desired cutting depth. The blade should extend approximately 1/8 inch above the workpiece.
- Blade Tilt Adjustment:** Use the blade tilt adjustment handwheel to set the blade angle for bevel cuts. Ensure the angle is locked before cutting.
- Rip Fence Operation:** Position the rip fence for the desired cut width. Lock the fence securely in place. Always ensure the fence is parallel to the blade.
- Miter Gauge Use:** Use the miter gauge for cross-cutting operations. Set the desired angle and ensure the workpiece is held firmly against the gauge.
- Safety Precautions:** Always wear appropriate personal protective equipment (PPE), including safety glasses and hearing protection. Use a push stick or push block when feeding small workpieces or when your hands are close to the blade. Never reach over or behind the blade while it is running.

MAINTENANCE

Regular maintenance ensures the longevity, safety, and optimal performance of your table saw. Refer to the original manual for detailed lubrication schedules and specific adjustment procedures.

- Cleaning:** Regularly clean sawdust and debris from the saw's interior, motor, and table surface. Use compressed air or a vacuum. Remove pitch buildup from the blade using a suitable blade cleaner.
- Lubrication:** Follow the lubrication schedule provided in the original manual. Apply grease or oil to designated moving parts, such as blade height and tilt mechanisms, to ensure smooth operation.
- Blade Care:** Inspect the saw blade for dullness, damage, or missing teeth. Replace dull or damaged blades promptly. Keep blades clean and sharp for best cutting results.
- Belt Tension:** Periodically check the drive belt tension. Adjust if too loose or too tight, as specified in the original manual, to prevent slippage or excessive wear.
- Adjustments:** Periodically check and adjust blade alignment, fence parallelism, and miter gauge accuracy. These

adjustments are critical for precise cuts and safe operation.

PARTS LIST AND EXPLODED VIEW DIAGRAMS

The original POWERMATIC Model 63 Artisan's 10-inch Table Saw manual includes a comprehensive parts list and detailed exploded view diagrams. These resources are invaluable for identifying specific components when ordering replacement parts or performing complex repairs.

- **Parts Identification:** Each diagram typically shows an assembly with numbered parts. The corresponding parts list provides the part number, description, and quantity for each component.
- **Ordering Parts:** When ordering replacement parts, always refer to the exact part number from the manual to ensure compatibility.

Note: Specific diagrams and part numbers are contained within the full reproduction manual.

SPECIFICATIONS

The POWERMATIC Model 63 Artisan's 10-inch Table Saw is designed for precision woodworking. While specific detailed specifications are found in the original manual, typical characteristics for this model include:

- **Blade Diameter:** 10 inches
- **Arbor Diameter:** 5/8 inch
- **Motor:** Typically a 1.5 HP to 3 HP motor, single-phase or three-phase depending on the specific model variant and power requirements.
- **Table Size:** Cast iron table, approximately 27 inches deep by 20 inches wide (excluding extensions).
- **Max Rip Capacity:** Varies with fence system, typically 30-50 inches to the right of the blade.
- **Max Depth of Cut:** Approximately 3 inches at 90 degrees, 2-1/8 inches at 45 degrees.
- **Weight:** Substantial, indicating a robust cast iron construction for stability.

Consult the original manual for precise specifications pertaining to your specific saw model.

TROUBLESHOOTING

This section addresses common issues that may arise during the operation of your POWERMATIC Model 63 table saw. For more complex problems, refer to the original manual or consult a qualified technician.

Problem	Possible Cause	Solution
Saw does not start	No power, tripped breaker, faulty switch	Check power supply, reset breaker, inspect switch wiring.
Blade wobble or vibration	Loose arbor nut, bent blade, worn arbor bearings	Tighten arbor nut, replace blade, inspect/replace bearings.
Inaccurate cuts	Misaligned fence/blade, dull blade, improper technique	Calibrate fence/blade, replace/sharpen blade, review cutting procedures.
Motor overheating	Overload, poor ventilation, dull blade, faulty motor	Reduce load, clear vents, replace blade, consult technician.

WARRANTY AND SUPPORT

Specific warranty information for the POWERMATIC Model 63 Artisan's 10-inch Table Saw would typically be provided at the time of purchase or within the original manufacturer's documentation. As this document is a reproduction of an original manual, it does not contain current warranty details.

For warranty claims, technical support, or service inquiries regarding your POWERMATIC table saw, please contact the official POWERMATIC customer service or an authorized service center. Contact information can usually be found on the manufacturer's website or on the saw's nameplate.