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## Atlas 4001 & 4021

# Atlas 24-inch Jig Saw Instruction Manual

Models 4001 & 4021

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## INTRODUCTION

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This manual provides essential instructions for the safe operation, setup, maintenance, and troubleshooting of your Atlas 24-inch Jig Saw, models 4001 and 4021. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

## IMPORTANT SAFETY INSTRUCTIONS

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Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using this power tool.

- **Read all instructions:** Familiarize yourself with the controls and proper use of the jig saw.
- **Wear eye protection:** Always wear safety goggles or a face shield.
- **Use hearing protection:** Prolonged exposure to noise can cause hearing damage.
- **Keep work area clean:** Cluttered areas invite accidents.
- **Do not operate in damp or wet locations:** Avoid exposure to rain.
- **Keep children away:** Do not let visitors contact the tool or extension cord.
- **Secure workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during cutting.
- **Disconnect power:** Always disconnect the tool from the power source before making adjustments, changing accessories, or performing maintenance.
- **Maintain tools with care:** Keep tools sharp and clean for best and safest performance.

## SETUP AND ASSEMBLY

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## Unpacking

Carefully remove all components from the packaging. Inspect for any shipping damage. Retain packaging for future transport or storage.

## Mounting the Jig Saw

The Atlas 24-inch Jig Saw should be securely mounted to a sturdy workbench. Use appropriate bolts and washers through the mounting holes provided in the base of the machine. Ensure the workbench is stable and level.

## Blade Installation

1. Ensure the power cord is disconnected.
2. Loosen the blade tension knob.
3. Insert the blade into the lower blade holder, ensuring it is seated correctly.
4. Guide the blade through the table insert and into the upper blade holder.
5. Tighten the upper blade holder screw.
6. Adjust the blade tension until the blade is taut but not overly stressed. A slight deflection when pressed gently is ideal.

## Table Tilt Adjustment

The saw table can be tilted for bevel cuts. Loosen the table locking knob, adjust the table to the desired angle using the angle scale, and then securely tighten the knob.

## OPERATING INSTRUCTIONS

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### Before Starting

- Verify the blade is correctly installed and tensioned.
- Ensure the workpiece is free of nails, screws, or other foreign objects.
- Adjust the hold-down foot to lightly rest on the workpiece.
- Connect the saw to a grounded power outlet.

### Making a Cut

1. Place the workpiece firmly against the table.
2. Turn on the jig saw using the power switch.
3. Allow the saw to reach full speed before beginning the cut.
4. Feed the workpiece slowly and steadily into the blade. Do not force the cut.
5. Maintain a firm grip on the workpiece, keeping hands clear of the blade path.
6. Upon completion of the cut, turn off the saw and wait for the blade to stop completely before removing the workpiece.

### Internal Cuts

For internal cuts, drill a pilot hole in the workpiece large enough to insert the blade. Disconnect power, remove the blade, thread it through the pilot hole, and re-install it before proceeding with the cut.

## MAINTENANCE

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Regular maintenance ensures optimal performance and extends the life of your Atlas Jig Saw. Always disconnect power before performing any maintenance.

- **Cleaning:** Keep the saw clean and free of dust and debris. Use a vacuum cleaner or compressed air.
- **Blade Replacement:** Replace dull or damaged blades promptly. Refer to the "Blade Installation" section for proper procedure.
- **Lubrication:** Periodically apply a light machine oil to moving parts as indicated in the parts diagram (refer to original manual for specific points).
- **Inspection:** Regularly inspect the power cord for damage, and check all fasteners for tightness.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Saw does not start	No power; faulty switch; tripped circuit breaker	Check power connection; test switch; reset breaker
Blade breaks frequently	Incorrect blade tension; wrong blade type for material; forcing cut	Adjust blade tension; use appropriate blade; reduce feed pressure
Inaccurate cuts	Loose blade; worn blade; table not square	Tighten blade; replace blade; adjust table squareness
Excessive vibration	Loose mounting bolts; unbalanced blade; worn bearings	Tighten mounting bolts; replace blade; consult service technician

## SPECIFICATIONS

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**Model:** Atlas 4001 & 4021

**Throat Capacity:** 24 inches

**Motor:** (Typical for similar models) 1/4 HP, 1725 RPM

**Blade Length:** (Typical) 5 inches

**Table Size:** (Typical) 12" x 12"

**Table Tilt:** 0 to 45 degrees

**Power Requirement:** 120V, 60Hz, Single Phase

*Note: Specific specifications may vary slightly between models 4001 and 4021. Refer to the original parts manual for detailed diagrams and exact measurements.*

## WARRANTY AND SUPPORT

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This manual is a reproduction of the original instruction and parts manual. For warranty information or technical support regarding your Atlas Jig Saw, please refer to the original purchase documentation or contact the manufacturer directly. As this is a vintage machine, direct manufacturer support may be limited.



