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Chicago Pneumatic CP874

Chicago Pneumatic CP874 Air Cut-Off Tool Instruction Manual

Model: CP874 | Brand: Chicago Pneumatic

INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Chicago Pneumatic CP874 Air Cut-Off Tool. Please read this manual thoroughly before using the tool and retain it for future reference. The CP874 is designed for cutting various materials such as sheet metal, fiberglass, bolts, muffler clamps, and hangers, as well as grinding burrs and rough edges.



Image: Chicago Pneumatic CP874 Air Cut-Off Tool, a red and black pneumatic tool with a cutting wheel guard.

SAFETY INFORMATION

Always observe general safety precautions when operating power tools. Failure to follow these instructions may result in serious injury.

- **Personal Protective Equipment (PPE):** Always wear eye protection (safety glasses or goggles), hearing protection (earplugs or earmuffs), and appropriate hand protection (gloves) when operating the tool. A dust mask is recommended when cutting materials that produce fine particles.
- **Work Area:** Ensure your work area is clean, well-lit, and free from obstructions. Keep bystanders, especially

children, away from the operating area.

- **Air Supply:** Ensure the air supply is clean, dry, and regulated to the specified pressure. Do not exceed the maximum operating pressure.
- **Tool Condition:** Inspect the tool and cutting wheel before each use for damage or wear. Do not use a damaged tool or wheel.
- **Secure Workpiece:** Always secure the workpiece firmly to prevent movement during cutting.
- **Proper Grip:** Maintain a firm grip on the tool at all times.
- **Avoid Accidental Start-up:** The tool features a lock-off lever to prevent accidental start-up. Always engage this feature when not actively cutting.
- **Exhaust Direction:** The rear exhaust directs air away from the workpiece. Be aware of the exhaust direction to avoid blowing debris towards yourself or others.
- **Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

PRODUCT FEATURES

The Chicago Pneumatic CP874 Air Cut-Off Tool is designed for efficient and precise cutting tasks. Key features include:

- **Wheel Diameter:** 2-7/8 Inch (73 mm)
- **Adjustable Speed Regulator:** Allows matching the speed to the specific job requirements.
- **Lock-off Lever:** Prevents accidental start-up for enhanced safety.
- **Rear Exhaust:** Directs air away from the workpiece and operator.
- **Air Inlet NPTF:** 1/4-Inch connection for air supply.
- **Compact Design:** Measures 7-1/4 inches long and weighs 1-3/4 pounds for easy handling.



Image: Diagram highlighting the CP874's features: 2-7/8" wheel diameter, lock-off lever, adjustable speed regulator, and rear exhaust.

SETUP

1. **Unpacking:** Carefully remove the tool from its packaging. Inspect for any shipping damage.
2. **Air Supply Connection:** Connect a 1/4-inch NPTF air hose to the tool's air inlet. Ensure all connections are secure and leak-free.
3. **Air Pressure Regulation:** Connect the air hose to an air compressor with a pressure regulator. Set the air pressure according to the tool's specifications (refer to the Specifications section).
4. **Cutting Wheel Installation:**
 - Ensure the tool is disconnected from the air supply.
 - Depress the spindle lock button (if present) or use the provided wrenches to loosen the arbor nut.
 - Place the appropriate cutting wheel onto the arbor, ensuring it is seated correctly.
 - Securely tighten the arbor nut. Do not overtighten.
 - Verify the cutting wheel guard is properly positioned and secured.
5. **Lubrication:** Add a few drops of pneumatic tool oil into the air inlet before initial use.

OPERATING INSTRUCTIONS

1. **Safety Check:** Before each use, perform a safety check as outlined in the Safety Information section.
2. **Connect Air Supply:** Connect the tool to the regulated air supply.
3. **Adjust Speed:** Use the adjustable speed regulator to set the desired RPM for the material being cut.
4. **Positioning:** Hold the tool firmly with both hands, if possible, ensuring a stable grip. Position the cutting wheel against the workpiece.
5. **Starting the Tool:** Depress the lock-off lever, then squeeze the trigger to start the tool. Allow the wheel to reach full speed before making contact with the workpiece.
6. **Cutting:** Apply light, consistent pressure to guide the cutting wheel through the material. Do not force the tool. Let the tool's speed and the wheel's abrasive action do the work.
7. **Stopping the Tool:** Release the trigger to stop the tool. Ensure the wheel has completely stopped rotating before setting the tool down.
8. **After Use:** Disconnect the tool from the air supply after each use.



Image: An operator wearing safety gloves using a Chicago Pneumatic cut-off tool to cut metal, demonstrating proper handling.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Lubrication:** Add 2-3 drops of pneumatic tool oil into the air inlet before each use or at the beginning of each work shift.
- **Cleaning:** Keep the tool clean and free from debris. Wipe down the exterior with a clean cloth. Do not use harsh solvents.
- **Air Filter:** Ensure your air compressor's air filter is regularly cleaned or replaced to provide clean, dry air to the tool.
- **Cutting Wheel Replacement:** Replace worn or damaged cutting wheels immediately. Always use wheels rated for the tool's maximum RPM.
- **Storage:** Store the tool in a dry, secure location when not in use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start or runs slowly.	Insufficient air pressure.	Check air compressor and regulator settings.
	Lack of lubrication.	Add pneumatic tool oil to the air inlet.
	Obstructed air inlet.	Clear any obstructions from the air inlet.
	Damaged internal components.	Contact qualified service personnel.
Excessive vibration.	Damaged or improperly installed cutting wheel.	Inspect and replace cutting wheel if damaged. Ensure it is properly seated and tightened.
	Loose components.	Check all fasteners and tighten as necessary.
Air leaks.	Loose air connections.	Tighten all air connections.
	Damaged O-rings or seals.	Contact qualified service personnel for seal replacement.

SPECIFICATIONS

Specification	Value
Brand	Chicago Pneumatic
Model Number	CP874
Power Source	Air Powered
Wheel Diameter	2-7/8 Inch (73 mm)
Maximum Rotational Speed	22,000 RPM
Horsepower	0.5 HP
Wattage	370 watts
Air Inlet NPTF	1/4-Inch
Item Weight	2.2 pounds (998 Grams)
Product Dimensions	7.24 x 3.35 x 4.13 inches
Sound Level	99 dB

WARRANTY AND SUPPORT

The Chicago Pneumatic CP874 Air Cut-Off Tool comes with a **1-year limited warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or service inquiries, please contact Chicago Pneumatic customer service or visit their official website. Please have your model number (CP874) and proof of purchase available.



