

*Eastwood*<sup>®</sup>

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Part #31921

# 3" INLINE CUT OFF TOOL

## INSTRUCTIONS



The **EASTWOOD 3" INLINE CUT-OFF TOOL** features a unique design configuration which provides additional versatility and comfort compared to ordinary pneumatic Cut-Off tools. A heavy, die-cast wheel guard is included for maximum safety, as well as a ball bearing motor for smooth operation and long life. Speed is easily controlled with an infinitely progressive throttled trigger control and a speed control lever.

## CONTENTS

- (1) 3" Cut-Off Tool
- (1) 14mm Flat Arbor Wrench
- (1) 5mm Hex Key Arbor Screw Wrench
- (1) 4mm Hex Key Guard Wrench
- (1) 1/4" MNPT, Male quick-disconnect  
Inlet Fitting with Thread Sealant



## SPECIFICATIONS

<b>Arbor Size:</b>	3/8" (9.5mm)
<b>Replacement Cut-Off Wheel Size:</b>	3/8" (9.5mm) x 3" with a min. 20,000 RPM rating
<b>Maximum cutting depth:</b>	11/16" (17.5mm)
<b>RPM:</b>	17,000 free speed
<b>Air Consumption:</b>	4 cfm (113 L/minute)
<b>Inlet thread size:</b>	1/4" FNPT

# SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

## **⚠ DANGER**

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

## **⚠ WARNING**

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

## **⚠ CAUTION**

CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

## **⚠ NOTICE**

NOTICE is used to address practices not related to personal injury.



### **⚠ READ INSTRUCTIONS**

- Thoroughly read and understand these product instructions before using this tool. Failure to follow all warnings can result in tool damage or serious physical injury.
- Keep these product instructions for future reference.



### **⚠ WARNING RESPIRATORY HAZARD!**

- Dust and fine particles are generated while cutting which can contain hazardous or toxic substances. Breathing this dust can cause many serious respiratory health conditions. Always use NIOSH approved respiratory protection while using this Saw.



### **⚠ WARNING EYE INJURY HAZARD!**

- Rapidly rotating surfaces can eject metal particles, dirt and oils at high velocity. Always wear ANSI approved eye protection when operating this tool.



### **⚠ WARNING HEARING DAMAGE HAZARD!**

- The Eastwood 3" Inline Cut-Off Tool emits high sound levels while operating. Use ANSI approved ear protection when operating this tool.



### **⚠ CAUTION BURST HAZARD!**

- Do not exceed 90 psi (6.2 bar) of tool inlet pressure. Permanent tool damage and/or bursting could occur and cause personal injury.



### **⚠ CAUTION INJURY HAZARD!**

- This tool has high-speed, highly abrasive cutting surfaces which can quickly cause severe injury. Keep fingers and hands away from moving parts when operating. Wear thick, well-fitting work gloves and keep loose clothing, sleeves, cords, jewelry and hair away from moving parts.
- This tool will eject a trail of sparks at high speed which can ignite flammable materials or injure others nearby. Do not operate in the vicinity of flammable materials and keep all persons and pets away from the work area.
- Do not force tool or exert side forces on Cut-Off Wheel while cutting as the tool body can suddenly kick back or twist causing severe hand or wrist injury. Cut-Off Wheels can shatter with excessive side force causing them to disintegrate and eject sharp pieces at high velocity.
- Always make sure the workpiece being cut is securely clamped or anchored to avoid sudden movements which could result in injury.
- Frequently inspect Cut-Off Wheel and tool condition. If cracks or chips develop, discontinue tool use immediately and replace damaged Wheel. **ONLY USE** replacement Wheels rated at 20,000 RPM or greater. Severe injury can result in the event of Cut-Off Wheel failure.
- Disconnect air supply from the tool to prevent accidental starting and potential injury while installing or removing Cut-off Wheels.



### **⚠ CAUTION VIBRATION INJURY HAZARD!**

- This tool will vibrate during use! Repeated exposure to vibration may cause physical injury.

# SET-UP & CONNECTION

## **⚠ NOTICE**

Be sure that the air supply to the tool is clean and dry. Moisture in the supply line will quickly damage the air motor and valves. A minimum 3/8" I.D. air line should be used for optimal performance.

- Thread the included 1/4" Male NPT quick disconnect fitting into the 1/4" NPT inlet threads of the Cut-off tool.
- Attach Air Supply to Inlet Fitting.

# INSTALL CUT-OFF WHEEL (NOT INCLUDED)

## **⚠ WARNING INJURY HAZARD!**

- Disconnect air supply from the tool to prevent accidental starting and potential injury while installing or removing Cut-off Wheels.

## **⚠ CAUTION INJURY HAZARD!**

- To avoid injury, only use replacement Wheels rated for High-RPM, (20,000 or greater) use.

- The Cut-Off Wheels are removed and installed by gripping the flats on the output shaft with the included 14mm Flat Arbor Wrench while placing the Included 5mm Hex Key Wrench into the Socket Head Wheel Retaining Screw threaded into the arbor shaft.
- Turn the screw in a counter-clockwise direction when viewed from the end. Remove Retaining Washer (note outward orientation of beveled edge) then remove cutting wheel (**Fig 1**).
- Place replacement wheel over the stepped 3/8" [9.5mm] diameter portion of the shaft, replace Retaining Washer in the proper bevel-out position.
- Re-install the Socket Head Wheel Retaining Screw, then use the wrenches to tighten (**Fig 1**).



## **⚠ NOTICE**

Be sure the Socket Head Wheel Retaining Screw is securely tightened on the output shaft before operating tool.

# ADJUST GUARD

## **⚠ WARNING INJURY HAZARD!**

- **DO NOT** operate Cut Off Tool without Guard in place!

## **⚠ WARNING INJURY HAZARD!**

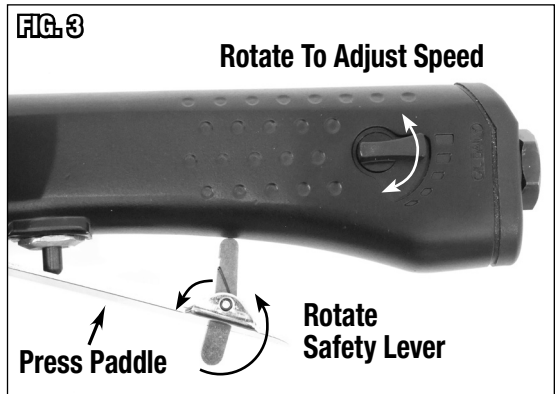
- Disconnect air supply from the tool to prevent accidental starting and potential injury while making adjustments to the Guard (**Fig 2**).

- Using the included 3mm Hex Key, loosen the Socket Head Clamping Screw slightly, rotate the Guard to the desired position then re-tighten screw.



## OPERATION

- Adjust the Speed Control Lever located on the left side of the handgrip section of the main tool body (**Fig 3**).
- Connect air supply, hold tool securely, flip Safety Lever under Paddle and depress Paddle to begin rotating action (**Fig 3**).



## MAINTENANCE

- Add several drops of air tool oil before each use directly into the air inlet.
- If tool is to be unused for an extended period, add 10 drops of air tool oil directly to the air inlet, rotate the tool motor by hand several times to distribute the oil throughout the motor and gearbox then store the tool, handle up.
- With the air supply disconnected, periodically check that the Socket Head Wheel Retaining Screw is tight.

# TROUBLESHOOTING

<b>PROBLEM</b>	<b>CAUSE</b>	<b>CORRECTION</b>
<b>Tool Doesn't Respond to Trigger Depression</b>	Insufficient volume of air (CFM) to operate tool	Verify sufficient air supply to tool. (4 CFM @ 90 PSI minimum requirement).
	Moisture or other contamination in air supply	Check for moisture in air line and tool air inlet.
<b>Tool Performance is Slow or Sluggish</b>	Insufficient volume of air (CFM) to operate tool	Verify sufficient air supply to tool. (4 CFM @ 90 PSI minimum requirement).
	Moisture or other contamination in air supply	Check for moisture in air line and tool air inlet.
	Air Motor is lacking lubrication	Stop use immediately and add air tool oil directly to air inlet.
<b>Tool Vibrates Excessively During Use</b>	Out of balance condition from damaged Cutting Wheel	Stop use immediately, check for and replace cracked or broken Cutting Wheel.
	Loose Wheel Retaining Screw	Tighten loose Socket Head Wheel Retaining Screw.

# ADDITIONAL ITEMS

**#28105** 3" x 3/8" x 1/16" Cut-Off Wheels - 5 Pk.

**#31524** 1/4" FNPT Type M, Quick Connect Coupler

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**If you have any questions about the use of this product, please contact**

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: [techelp@eastwood.com](mailto:techelp@eastwood.com)

PDF version of this manual is available online >> [eastwood.com/31921manual](http://eastwood.com/31921manual)

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