Eastwood®

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Item #31847

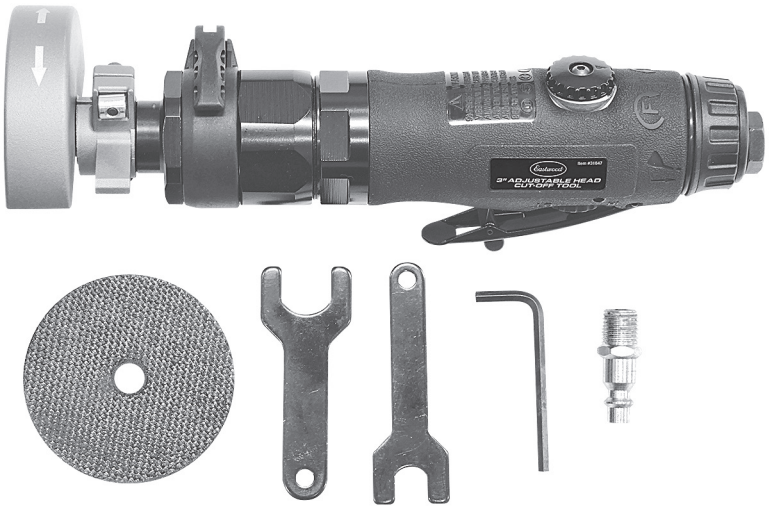
3" ADJUSTABLE HEAD CUT-OFF TOOL

INSTRUCTIONS

The **EASTWOOD 3", ADJUSTABLE HEAD CUT-OFF TOOL** offers a full 50° (+- 25°) of additional head angle adjustability to safely access areas difficult to reach with ordinary pneumatic Cut-Off tools. The reversible feature allows the user to choose the direction of the resulting "spark-shower" to avoid injury and property damage. A high-torque, ball bearing supported, 4 vane motor provides smooth operation and long life. Speed is easily controlled with a variable speed control knob while motor activation is by paddle control.

CONTENTS

- **(1)** 3", Adjustable Head Cut-Off Tool
- **(1)** 11mm Flat Wrench
- **(1)** 17mm Flat Wrench
- **(1)** 4mm Hex Key Wrench
- **(1)** 3" Cut-Off Wheel
- **(1)** 1/4" MNPT, Male Quick-Disconnect Inlet Fitting



SPECIFICATIONS

RPM: 16,000 free speed

Air Consumption: 3.6 CFM [100 L/min]

Inlet Thread Size: 1/4" FNPT

3 Position, Adjustable Head; set straight, 25° up or 25° down

Variable speed, 4 vane, ball bearing air motor

Rear Exhaust

Replacement Cut-Off Wheel Size:
3" x 3/8 [9.5mm]" Arbor, minimum 16,000 RPM.

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.

⚠ DANGER 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 HEALTH AND INJURY HAZARDS!

- Dust and fine particulate matter is generated during the sanding/grinding process which can contain toxic substances such as lead, silica, solvents and others. Breathing this dust and fine particulate matter can cause many serious respiratory health conditions. Always use NIOSH approved respiratory protection while using this tool.

⚠ WARNING HEARING DAMAGE HAZARD!

- The Eastwood Adjustable Head, 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 (6.3 bar) of tool inlet pressure. Permanent tool damage and/or bursting could occur and cause personal injury.

SAFETY INFORMATION

⚠ 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.
- Always disconnect tool from air supply when changing Cut-Off Wheels or adjusting Head angle to prevent accidental tool starting and potential severe injury.
- 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 16,000 RPM or greater. Severe injury can result in the event of Cut-Off Wheel failure.

⚠ CAUTION PINCH HAZARD!

- Keep fingers from between moving parts when adjusting the angle of the Head.

⚠ CAUTION VIBRATION INJURY HAZARD!

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

INSTALL/REPLACE CUT-OFF WHEEL

⚠ CAUTION

Always disconnect tool from air supply before installing/ replacing Cut-Off Wheels to prevent accidental tool starting and potential severe injury.

- Place the 17mm Flat Wrench on the large Flange Nut **(FIG 1)**.
- Using the included 4mm Hex Key, loosen the Socket Head Lock Screw, turn it CLOCKWISE and remove it **(FIG 1)**.

⚠ NOTICE

This screw is REVERSE THREADED. Use caution not to strip or break this screw when removing or installing (Fig 2).

- Place the included 11mm Flat Wrench on the flats of the Arbor **(FIG 2)**.
- Using the included 17mm to loosen and remove the Flange Nut, leaving the Washer in place **(FIG 3)**.
- Install Wheel over protruding 3/8" Arbor and Washer **(FIG 4)**.
- Replace Flange Nut over Wheel and tighten with 17mm Flat Wrench.
- While holding the 17mm Flat Wrench on the Flange Nut, thread in the REVERSE THREADED Socket Head Lock Screw and snugly tighten (Do Not Over-Tighten).

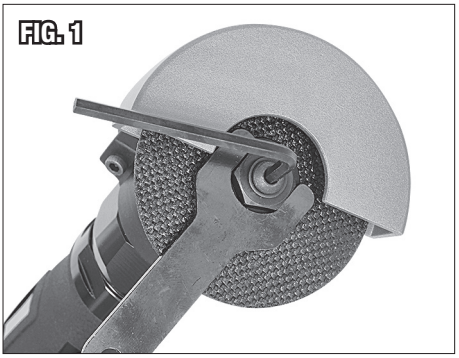


FIG. 1

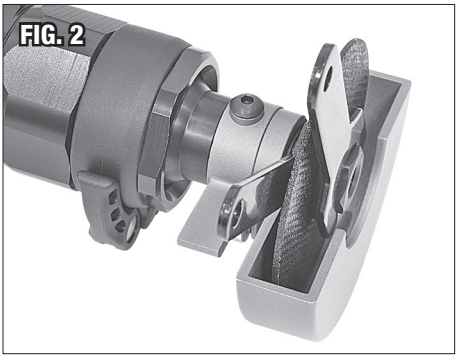


FIG. 2

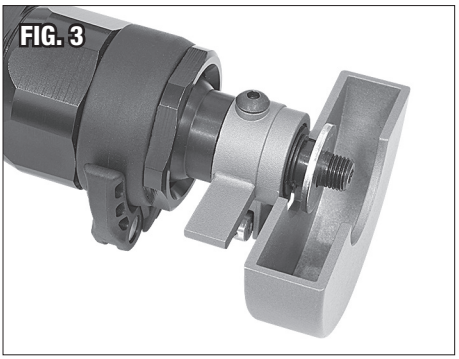


FIG. 3

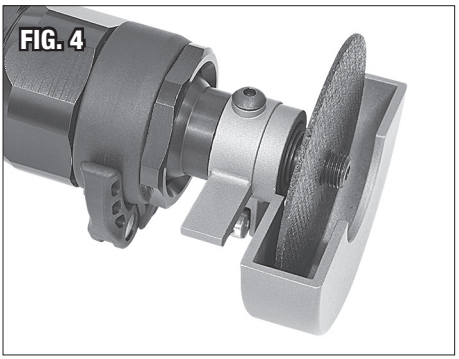


FIG. 4

SET-UP & CONNECTION

- Be sure that the air supply to the tool is clean and dry. Moisture in the supply line will quickly damage the motor and valves.
- A minimum 3/8" I.D. air line should be used for optimal performance.
- Thread a suitable 1/4" Male Quick-Disconnect Fitting (included) into the air inlet of the tool using TFE thread sealing tape (not included).

OPERATION

- Rotate the Knob located at the rear of the tool handle and under the Throttle Paddle to regulate motor speed **(FIG 5)**. This Knob offers 30° of travel. Note that rotating in a Clockwise direction will result in higher speed while Counter-clockwise will decrease speed.
- Flip the Safety Lever forward and Depress Throttle Paddle inward to operate tool **(FIG 6)**.
- Always maintain a firm grip while operating tool, do not force but allow the rotational speed of the Cut-Off Wheel to do the work.
- Be sure that the workpiece is clamped down or held securely to minimize the danger of injury while operating tool.

FIG. 5

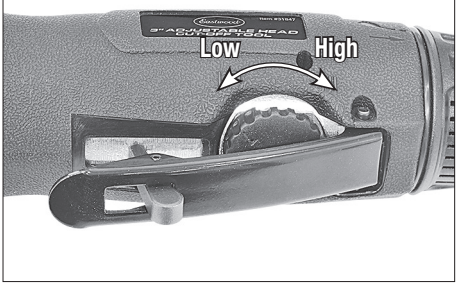
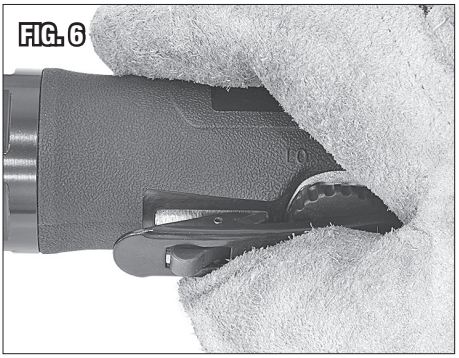


FIG. 6



FORWARD & REVERSE

- Rotate the Knob located at the rear, top of the tool handle to control Forward/ Reverse operation **(FIG 7)**. This Knob offers 30° of travel. Note that rotating the Knob in a Clockwise direction will allow the tool to run forward while Counter-clockwise will reverse the wheel rotation direction.

FIG. 7

ADJUSTING HEAD ANGLE

⚠ CAUTION

Always disconnect tool from air supply before adjusting Head angle to prevent accidental tool starting and potential severe injury.

- Lift the Locking Lever of the Clamping Collar **(FIG 8)**.
- Grip the head firmly and snap it up or down 25°.
  NOTE: To move the head, it may be necessary to further loosen the clamp by loosening the socket head cap screw by gripping it with a thumb and forefinger.
- Push the Locking Lever of the Clamping Collar back down to the Lock position **(FIG 9)**.

FIG. 8

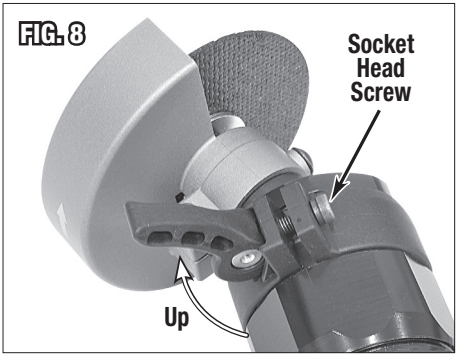
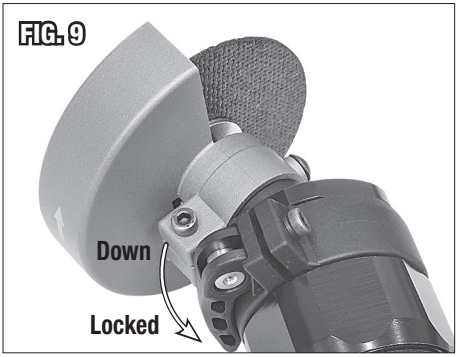


FIG. 9



USAGE TIPS

- The reversing feature is very useful for controlling the direction of spark-shower discharge. Plan your tool position and direction of rotation while cutting to minimize and redirect the spark shower.
- Keep the cutting edge of the Cut-Off Wheel tangent to the work surface whenever possible to minimize uneven wear or damage and maximize useable wheel life.

MAINTENANCE

- Add several drops of air tool oil before each use by dropping 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.
- Periodically, with the air supply disconnected, check cut-off wheel condition and Angle Adjusting Screw tightness.

NOTES

NOTES

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Tool Doesn't Respond to Trigger Depression	Insufficient volume of air (CFM) to operate tool	Verify sufficient air supply to tool. (3.6 CFM @ 90 psi minimum requirement.
	Moisture or other contamination in air supply	Check for moisture in air line and tool air inlet.
Tool Performance is Slow or Sluggish	Insufficient volume of air (CFM) to operate tool	Verify sufficient air supply to tool. (3.6 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.
Tool Vibrates Excessively During Use	Out of balance condition from damaged Cutting Wheel	Stop use immediately, check for and replace cracked or broken Cutting Wheel.
	Loose Locking Screw	Tighten loose Locking Socket Head Cap Screw.

ADDITIONAL ITEMS

#28105 or **#32155** 3-inch Metal Cut-Off Wheels, 1/16th. x 3/8 [9.5mm] Arbor - 5 Pk

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

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

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: tech@eastwood.com

PDF version of this manual is available at eastwood.com

The Eastwood Company 263 Shoemaker Road, Pottstown, PA 19464, USA

800.343.9353 eastwood.com

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