

Eastwood[®]

DO THE JOB RIGHT.[®]

Item #13475

ELECTRIC METAL SHEARS

INSTRUCTIONS



The **EASTWOOD ELECTRIC METAL SHEARS** is a well-designed, heavy-duty, metal working tool capable of many years of reliable service. It features a high-performance, high-torque, ball bearing motor design with a hardened planetary gear reduction for quick and efficient operation and long life. Easily cuts stainless steel, steel and aluminum. Equipped with a 360° positionable cutting head for hard to access projects.

CONTENTS

- (1) Electric Metal Shears
- (1) 4mm Allen Hex Wrench

SPECIFICATIONS

Maximum Material Thickness

- Aluminum: 16 gauge (0.0625" [1.59mm])
- Steel: 16 gauge (0.0625" [1.59mm])
- Stainless Steel: 18 gauge (0.050" [1.2mm])

- Strokes Per Minute:** 0 - 2,500 variable speed
- Power Requirements:** 120V AC~60Hz., 4 amps
- Motor Construction:** Fan cooled, ball & needle bearings, planetary gearset

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 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.

GENERAL SAFETY RULES

WARNING

Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term “power tool” in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

1) WORK AREA SAFETY

- a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) ELECTRICAL SAFETY

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

PERSONAL SAFETY

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.

POWER TOOL USE AND CARE

- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

ADDITIONAL SAFETY INFORMATION



⚠️ READ INSTRUCTIONS

- Thoroughly read and understand these instructions before using this tool.
- Keep these product instructions for future reference.



⚠️ DANGER SHOCK HAZARD!

- Never operate or store the Electric Metal Shears in damp or wet conditions.
- Plug into a minimum 15-amp circuit. If using an extension cord, it must be AWG 16 or greater, no longer than 25'.
- If cutting into wall or other blind areas, first check for the presence of electrical or other utility lines.



⚠️ WARNING HEALTH HAZARD!

- Dust and fine particles are generated while cutting which can contain hazardous or toxic substances. Breathing this dust can cause serious respiratory health conditions. Always use NIOSH approved respiratory protection while using this Electric Metal Shears.
- The Electric Metal Shears will eject metal particles at high velocity during operation. Wear approved eye and skin protection at all times while operating.
- Cutting with this Electric Metal Shears can generate excessive noise. Wear appropriate hearing protection while using.



⚠️ WARNING INJURY HAZARD!

- The Electric Metal Shears can quickly start up when handling while plugged in to electrical supply causing serious personal injury. Always unplug the tool from the electrical supply before changing Cutting Blades or performing maintenance.
- Sharp metal edges can cut. Always wear protective work gloves while handling.
- Moving Blades can quickly cut flesh. Keep hands and fingers away from moving cutting blades.
- The Electric Metal Shears can quickly and violently kick back or twist while operating causing severe hand and or wrist injury. Do not apply excessive force to the Electric Metal Shears while in use. Always make sure the workpiece or material being cut is securely clamped or anchored to allow two handed operation of this Electric Metal Shears.
- Cutting Blades can break in use causing personal injury or property damage. If excessive vibration is felt, discontinue use immediately and disconnect tool from electrical supply. Inspect Blades for damage. Do not resume use until resolution is found.



OPERATION

- Place the cutting blades against work piece and depress trigger to actuate cutting. Only moderate pressure is required for tool to cleanly cut through metal. Do not force. Always use two hands to control tool.
- Speed is regulated by pressure applied to the trigger.

TECH TIP: *The use of a lightweight oil when cutting can help to create a cleaner cut, especially when cutting stainless steel.*

POSITIONING CUTTING HEAD

⚠ WARNING INJURY HAZARD!

The Electric Metal Shears can quickly start up when handling while plugged in to electrical supply causing serious personal injury. Always unplug the tool from the electrical supply before changing Cutting Blades or performing maintenance.

The Cutting Head may be rotated 360° in relation to the Handle of the Shears Body to accommodate cutting in difficult to reach areas. To do so:

- Using the included Allen wrench, loosen (but do not remove) the three socket head cap screws on the Cutting Head adequately to release clamping pressure.
- Rotate the Cutting Head about the axis of the Shears Body to the desired position then re-tighten the three screws (**FIG 1**).



MAINTENANCE

- Add several drops of light machine oil occasionally to all pivot points and moving blade contact surfaces.
- Periodically clean any accumulation of metal chips and dust from the blades and motor cooling vents.

BLADE REPLACEMENT

Replacement Blades (Eastwood #13474) are available in the event the Blades become dull, or are chipped or broken.

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⚠ NOTICE

Blade replacement requires a high level of dexterity and patience to achieve installation and alignment. Refer to photos for positioning.

BLADE REMOVAL

1. Using the included 4mm Hex Key, loosen but do not remove the three Socket Head Screws in the Cutting Head (FIG 1).
2. Pull the Cutting Head from the Shears (FIG 2).
3. Using included Allen 4mm Hex Key, loosen and remove the two forward socket head cap screws.
4. Remove Blades & Bushing/Spacers.

⚠ NOTICE

Carefully note the position of the Blades and Bushing/Spacers for proper position during reassembly! (Fig 3).

FIG. 2

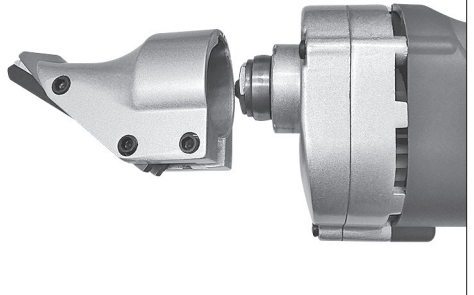


FIG. 3



BLADE INSTALLATION

NOTE: The Eastwood #13474 Replacement Blade Set includes:

- (3) Blades
- (2) Bushing / Spacers
- (3) Socket Head Screws
- (3) Nut Inserts

Replace Worn or damaged Screws and Nut Inserts as needed.

1. Set the Cutting Head on a firm surface with the slot facing upward.
2. Set the two Fixed Blades into the machined lands of the Cutting Head (**FIG 4**).
3. Place one of the two Bushing/Spacers between the rearmost holes of the blades and insert one of the Socket Head Screws through the Cutting Head, Left Blade, Spacer/Bushing and Right Blade (**FIG 4**).
4. Partially thread the Socket Head Screw into the opposite side of the Cutting Head. **DO NOT TIGHTEN**.
5. Set a Bushing/Spacer into the center pivot hole of the Center Moving Blade making sure it is flush on both sides (**FIG 5**).
6. Pass the Center Moving Blade through the round opening of the Cutting Head and set in place with the "notch" under the Bushing/Spacer (**FIG 6**).
7. Pass the Socket Head Screw through the Cutting Head, Left Blade, Center Moving Blade and Right Blade (**FIG 6**).
8. Partially thread the Socket Head Screw into the opposite side of the Cutting Head. **DO NOT TIGHTEN**.
9. Check for proper alignment and Center Blade movement. Add some light machine oil to all contact and pivoting points of the Center Blade and also to the Eccentric Bearing at the front of the Shears.
10. Re-install the Head Assembly to the Main Shears Body.
NOTE: The Body may need to be rotated from side to side to allow the eccentric bearing to align within the arms of the Center Blade.
11. Tighten all three Socket Head Screws securely.
12. The Electric Metal Shears are, once again, ready for use.

FIG. 4

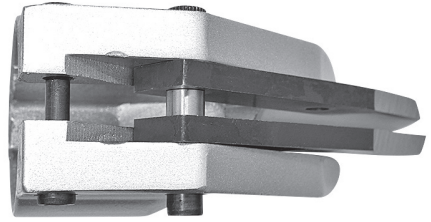
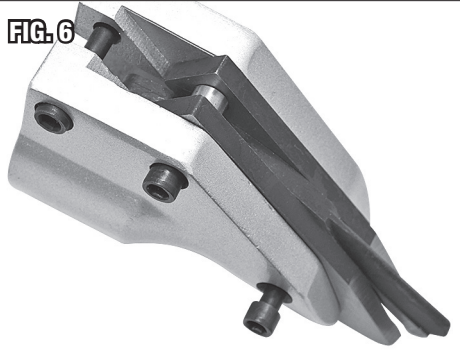


FIG. 5



FIG. 6



TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Does Not Run When Trigger is Depressed	No electrical power to Electric Metal Shears	Check 120 VAC input plug connection.
		Check for tripped circuit breaker.
Motor Runs Too Slow/ Develops Low Power	Undersized or too long of an extension cord	Use only 16 gauge or larger cord.
		Limit length to 25'.
Excessive Noise and/or Vibration	Blades may be loose	Unplug unit and tighten the Cutting Head Screws.
	Blades may be chipped or broken	Unplug unit and replace Blades per procedure described in these instructions.
Motor Overheats	Excessive pressure being applied to Electric Metal Shears	Allow Shears blades to cut by reciprocation alone. Do Not Force.
	Dirt and debris buildup in motor cooling air slots	Use a brush or compressed air to remove debris.

ADDITIONAL ITEMS

- #13474 Electric Metal Shears Replacement Blade Set
- #21299 Tilman Cut-Resistant Gloves
- #21297 Tilman Trufit Work Gloves
- #20257 Eastwood Sheetmetal Layout Kit
- #14752Z CRC Blue Layout Fluid

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

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