

Eastwood[®]

DO THE JOB RIGHT.[®]

Part #32290

METAL CUTTING JIG SAW

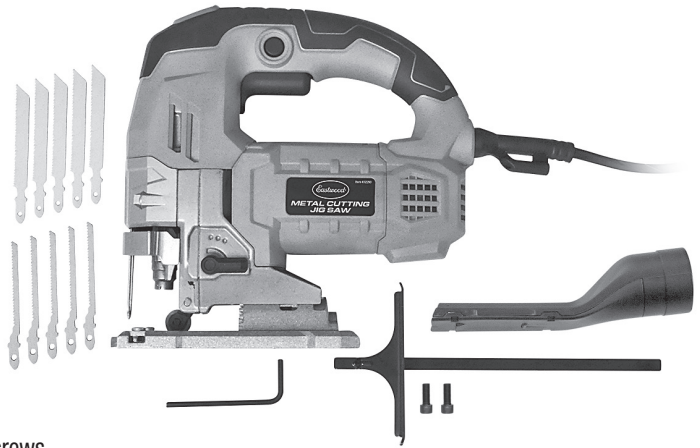
INSTRUCTIONS



The **EASTWOOD METAL CUTTING JIG SAW** was designed with a powerful 6.5-amp motor and precision cut gearing for maximum cutting torque when needed. It features a quick-release blade changing feature, a 4-position orbital blade motion control, chip dispersal blower for maximum view of cut and an integral LED light.

INCLUDES

- (1) Saw
- (5) 2-5/16", 14 TPI, Bi-Metal, Unified T-Shank Blades
- (5) 3-5/8", 18 TPI, Bi-Metal, Unified T-Shank Blades
- (1) 4 mm Hex Key
- (1) Edge Guide
- (2) M5 x 0.8 x 15mm Socket Head Cap Screws
- (1) Vacuum Attachment Tube



SPECIFICATIONS

120 VAC, 6.5 Amp motor.

6.5' [2 m] long, 12 Gauge, 3 conductor grounded power cord.

Unified T-Shank style, Quick Release blade retention.

Maximum material cutting range @ 90° Base setting – Steel = 3/8", Aluminum = 1/2"

IMPORTANT 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) 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.

2) 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.

3) 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 product instructions before using the Saw.
- Keep these product instructions for future reference.



⚠️ WARNING HEALTH 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!

- This Saw will eject particles, dust and sparks at high velocity during operation. Wear ANSI Z-87 approved eye and face protection at all times while operating.



⚠️ WARNING INJURY HAZARD!

- The moving Blade of this Saw can quickly catch loose clothing, long hair or jewelry causing serious personal injury. Keep all loose clothing, long hair and jewelry away from operating Saw.
- This Saw 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 Blade or performing maintenance.
- This Saw can quickly and violently kick back or twist while operating causing severe hand and or wrist injury. Do not apply excessive force to Saw while in use. Always make sure the workpiece or material being cut is securely clamped or anchored to allow two handed operation of the Saw.
- Damaged Saw Blades can shatter in use causing personal injury or property damage. If excessive vibration is felt, discontinue use immediately and disconnect tool from electrical supply. Inspect Blade and Saw components for damage. Do not resume use until resolution is found.

ADDITIONAL SAFETY INFORMATION



⚠ WARNING CUT HAZARD!

- Sharp metal edges can cut. Always wear protective work gloves while handling.
- Moving Saw Blades can quickly cut flesh. Keep hands and fingers away from moving blade.



⚠ CAUTION HEARING HAZARD!

- Cutting with this Saw can generate excessive noise. Wear appropriate hearing protection while using.



⚠ CAUTION SPARK HAZARD!

- This Saw 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.

FEATURES

TRIGGER (FIG 1)

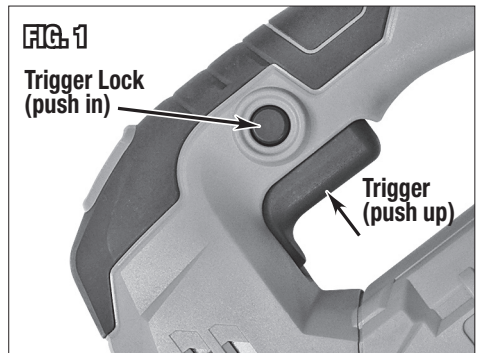
Located at the underside of the saw handle.

Pull upward with the index finger to switch motor "ON", release for "OFF"

A push-button lock located at the right of the saw handle just above the Trigger can be used to lock the Trigger in the on position.

TRIGGER LOCK (FIG 1)

A push-button lock button located at the right of the saw handle just above the Trigger can be used to lock the Trigger in the on position. To engage; pull Trigger upward to the "ON" position and push the Lock Button in. The trigger may be released, and the motor will stay "ON". Pull Trigger again and the Trigger Lock is released, and the motor will stop.

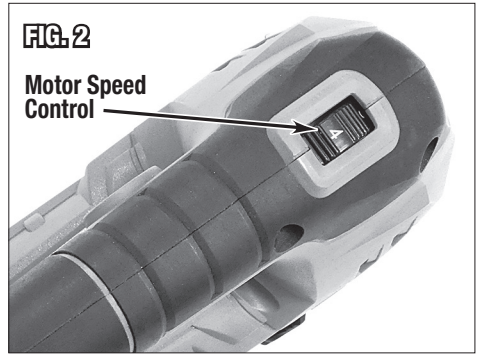


MOTOR SPEED CONTROL (FIG 2)

Located at the top, forward area of the saw housing.

Controls the motor speed.

This Rotary Thumb Wheel can be set to 1 for 500 SPM (Strokes Per Minute) up to 6 for a maximum of 3000 SPM.

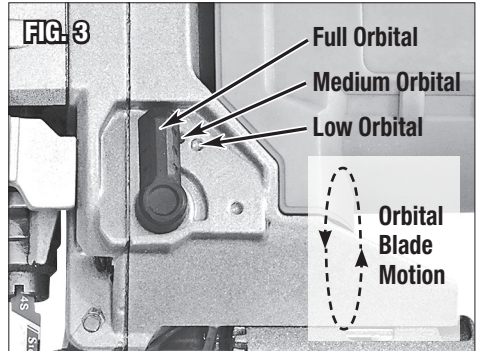


BLADE ORBITAL MOTION (FIGS 3 & 4)

Located at the lower left, forward side of the saw housing.

Controls the “Orbital” motion of the Blade as seen from the side view. When on, it allows the blade to walk forward on the down-stroke and rearward on the upstroke which enhances the cutting action. This control offers 4 positions; Off, Low, Medium and High (FIG 3).

When the Lever is placed in the full “Down” Position, there is no Orbital action and the Blade travels in a straight vertical, Up and Down motion (FIG 4).

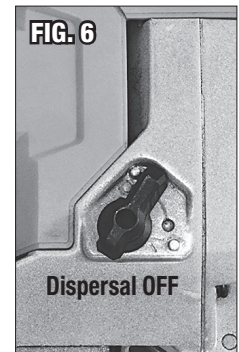
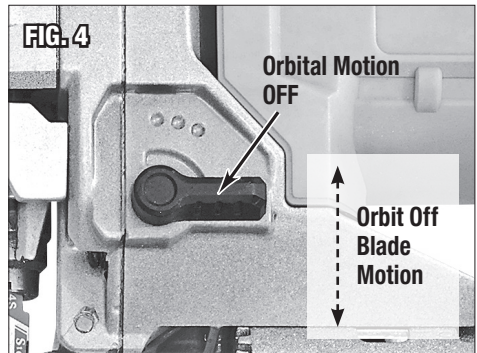


CHIP DISPERSAL BLOWER (FIGS 5 & 6)

Located at the lower right, forward side of the saw housing.

Controls the dispersal of chips from the cutting area. When on, it allows air from the motor cooling fan to blow chips out and away from the cutting area providing a clear view of the blade and cutting path.

This is a 2-position switch. When the Lever is placed in the full “Down” Position, the Dispersal Blower is On, when it is rotated 45 up, it is off.

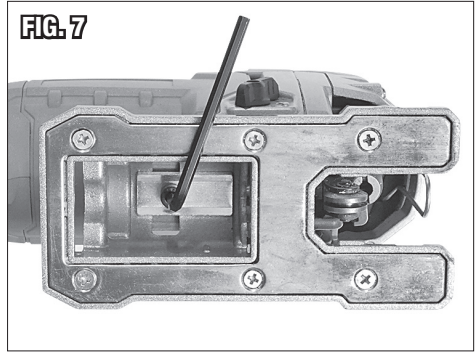


ADJUSTMENTS

BASE ANGLE (FIGS 7 & 8)

Located at the Saw Base.

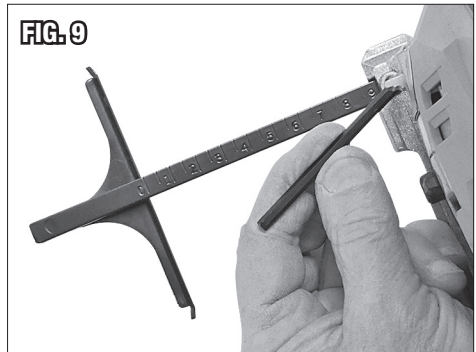
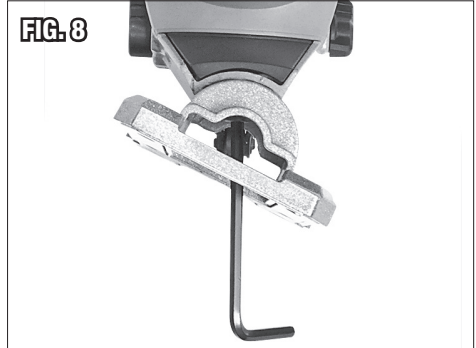
Using the supplied 4mm Hex Key, loosen the set-screw in the retaining plate at the underside of the Base, rotate the Saw Base to the desired position using the built-in angle detents then tighten set screw to lock it in place.



EDGE GUIDE DEPTH (FIG 9)

Located at the front of the Saw Base.

- Insert the Guide Fence into the rectangular openings through the sides of the Saw Base forks.
- Thread the 2 included M5 x 8mm Edge Guide Retaining Screws into the threaded holes on the top surfaces of the Saw Base forks.
- Slide the Fence (marked in 0.5 Centimeter graduations) to the desired position then tighten the Screws to lock it in place using the supplied 4mm Hex Key.



ASSEMBLY

BLADE INSTALLATION

⚠ WARNING
INJURY HAZARD!

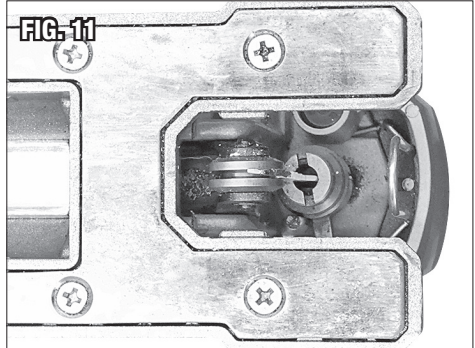
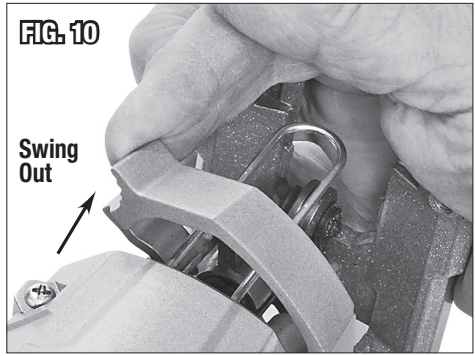
This Saw can quickly start up when handling while plugged in to electrical supply causing serious personal injury. Always unplug the tool from the electrical supply before installing Blade.

- Operate Blade Release (**FIG 10**) Located at the front of the Saw Housing.
 - Viewing the Saw from above, push on the left side tab of the Blade Release Lever then swing it outward to release the blade.
 - With the Release Lever still in the release position, insert a Blade into the Blade Holder (**FIG 11**) making sure the teeth face forward and the back of the blade rides in the groove of the Blade Support Bearing (**FIG 11**).

INSTALL VACUUM ATTACHMENT TUBE (OPTIONAL)

The use of the Vacuum Attachment Tube is optional and may be used with any 1-1/2" [38mm] I.D. vacuum hose (not included).

- Insert the Vacuum Attachment Tube with the flat side down (and the raised-rib up) into the keyed slot at the rear of the Saw Base (**FIG 12**).
- Push the Vacuum Attachment Tube all the way in until it snaps into place.



OPERATION

⚠ WARNING

This Saw can quickly and violently kick back or twist while operating causing severe hand and or wrist injury. Do not apply excessive force to Saw while in use. Always make sure the workpiece or material being cut is securely clamped or anchored to allow two handed operation of the Saw.

⚠ WARNING

This Saw will eject particles, dust and sparks at high velocity during operation. Wear ANSI Z-87 approved eye and face protection at all times while operating.

- Always begin a project with a new blade.
- Gently and slowly ease the Saw Blade into the material.
- If starting from an outer edge of a piece of material. Pull Trigger first to begin blade motion before engaging material. This will help to avoid kick-back
- Do not push the blade into the material but let the reciprocating motion of the blade to do the work.
- It is helpful to use a light lubricating oil to frequently lubricate blade while cutting. This greatly extends blade life, reduces heat production and helps to contain small chips.

BLADE REPLACEMENT

⚠ WARNING INJURY HAZARD!

This Saw 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 installing Blade.

- Operate Blade Release (**FIG 10**) Located at the front of the Saw Housing.
 - Viewing the Saw from above, push on the left side tab of the Blade Release Lever then swing it outward to release the blade.
 - Grip Blade and pull it out.
 - With the Release Lever still in the release position, drop a new blade into the Blade Holder (**FIG 11**) making sure the teeth face forward and the back of the blade rides in the groove of the Blade Support Bearing (**FIG 11**).

STORAGE

- Unplug from power source.
- Remove the blade for safety.
- Wrap cord securely around Saw.

Store in a clean, dry, dampness free area preferably covered with plastic sheeting.

MAINTENANCE

IMPORTANT NOTE: The following maintenance should be performed before each use:

- Check tightness of all hardware.
- Check operation and alignment of all guards.
- Inspect Blade for cracks, damage or premature wear.
- Clean dirt and debris from Saw base and motor air cooling slots.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Does Not Run When Switch is Turned On	No Power to Saw	Check 120 VAC input plug connection
		Check for tripped circuit breaker. Saw operates on a 15 Amp Minimum circuit.
Motor Runs Too Slowly/ Develops Low Power	Excessive Voltage Drop Due to Local Power Company Voltage Supply	Use at another location or at a time when voltage is higher.
	Excessive Voltage Drop Due to Under-sized and/or Too Long of an Extension Cord Used.	Extension cords not recommended. If necessary, use only 16 Gauge or larger cord and limit length to 25'.
Blade Does Not Cut All the Way Through Material	Blade Worn	Check blade tooth condition and replace per "BLADE REPLACEMENT" section in these instructions.
Excessive Noise and Vibration	Blade Likely Cracked or Damaged. WARNING: This is an Extremely Unsafe Condition!	Discontinue use and replace blade.
Motor Overheats	Excessive Pressure Being Applied While Cutting	Allow Blade to cut by reciprocating motion alone. Do Not Force.
	Dirt and cutting debris buildup in motor cooling air slots	Use a brush or compressed air to remove debris.

ADDITIONAL ITEMS

#32291 2-5/16", 14 TPI, Bi-Metal, Unified T-Shank Blades, 5 pack

#32292 3-5/8", 18 TPI, Bi-Metal, Unified T-Shank Blades, 5 pack

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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