

*Eastwood*<sup>®</sup>

DO THE JOB RIGHT.<sup>®</sup>

Item #21491

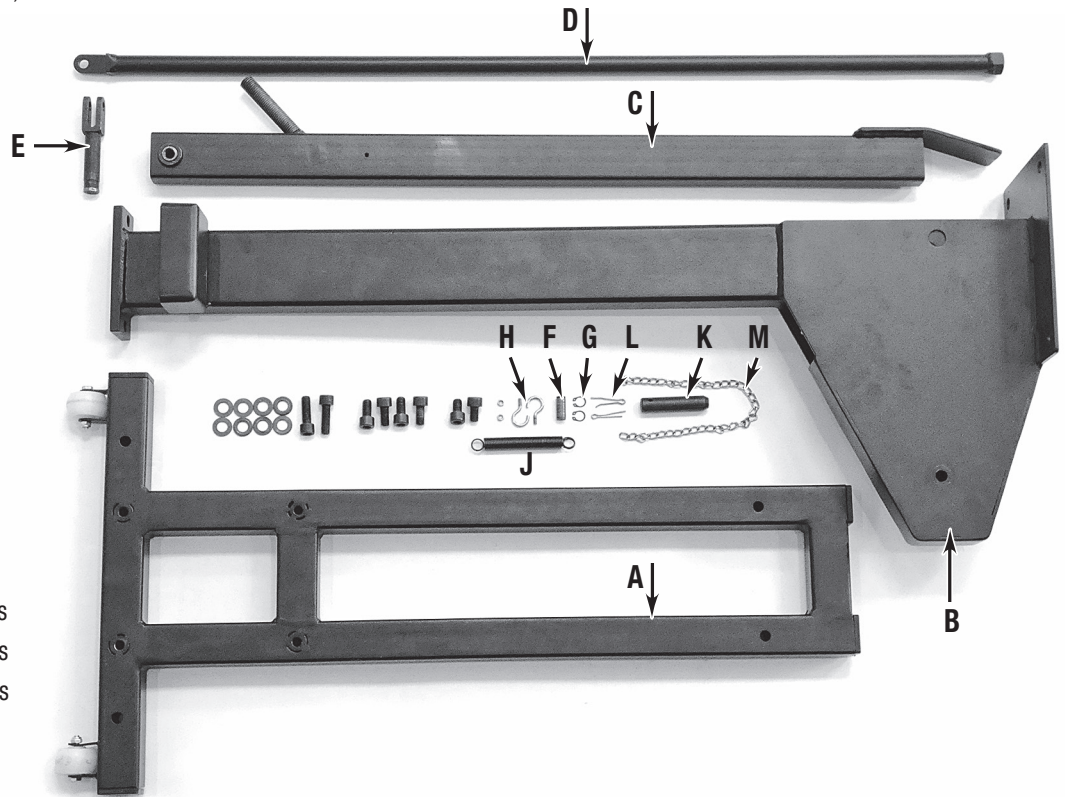
# DEEP JAW SHRINKER STRETCHER STAND INSTRUCTIONS



The **EASTWOOD ELITE DEEP JAW SHRINKER STRETCHER STAND** is designed to provide hands-free operation of the Eastwood Elite Deep Jaw Shrinker Stretcher (#21489, not included) for reduced fatigue while working on involved projects. Placing the Jaws at an ideal 45" working height and built-in casters provide comfort and easy mobility with a solid, stable base.

## INCLUDES

- (1) Base [A]
- (1) Post Assembly [B]
- (1) Pedal/Arm Assembly [C]
- (1) Pushrod [D]
- (1) Actuating Clevis [E]
- (1) Pivot Pin [F]
- (2) Snap Rings [G]
- (2) Hooks [H]
- (1) Pedal Return Spring [J]
- (1) Lockpin [K]
- (2) Cotter Pins [L]
- (1) Chain [M]
- (2) M10 x 15mm Socket Head Cap Screws
- (4) M10 x 20mm Socket Head Cap Screws
- (2) M10 x 30mm Socket Head Cap Screws
- (8) M10 Flat Washers
- (2) M3 Nuts



## TOOLS REQUIRED (NOT INCLUDED)

- 8mm Hex Key
- 3mm Hex Key
- 7mm Wrench
- Medium Snap Ring Pliers

## SPECIFICATIONS

**Jaw Working Height:** 45"

**Floor Footprint Area:** 36-1/2" x 17"

## 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 this manual before using.
- Save for future reference.



### **⚠ WARNING INJURY HAZARD!**

- This tool has leveraged, moving components that generate greatly amplified crushing and bending forces which can quickly cause severe injury! Keep fingers and hands away from moving parts when operating.
- Tremendous external torque loads are placed on the Shrinker Stretcher Stand during operation. This tool cannot be operated without adequate support or severe personal injury or property damage can occur if it should suddenly become dislodged or moves while in use. Before beginning ANY work with this tool, it is absolutely necessary that it be located on a solid, level floor surface. Bolting to floor through 4 holes provided in the base is highly recommended.
- Strenuous physical force may need to be applied to the Shrinker Stretcher Stand during use. Failure to ensure proper footing can quickly result in a fall which could inflict serious personal injury or property damage. Always work in a clean, uncluttered environment.
- Be sure there is sufficient working room around the tool to allow for safe handling of various sizes of metal.
- The Shrinker Stretcher Stand is equipped with a Pedal/Arm of the proper length to provide adequate bending force. DO NOT add pipe, bars or any other devices which would add additional length to the Pedal/Arm to increase bending force. This will exceed the design limits of the tool and can result in severe injury and/or component failure.



### **⚠ CAUTION CUT HAZARD!**

- Handling sharp metal can cause serious cuts. Wear thick, well-fitting work gloves to prevent cuts from handling sharp metal.



### **⚠ CAUTION EYE INJURY HAZARD!**

- Pieces of mill scale, rust and other debris may be ejected from the workpiece during operation. Wear ANSI approved eye protection while operating.



### **⚠ CAUTION**

- The Eastwood Elite Deep Jaw Shrinker Stretcher Stand consists of heavy metal components which can present a hand/finger pinch hazard and cause potentially serious injuries if dropped on feet. Avoid pinching hands while handling parts during assembly and wear thick, well-fitting work gloves to prevent cuts from handling sharp metal. The use of safety shoes is strongly recommended.



### **⚠ NOTICE**

- Excessive resistance while operating could indicate a defect with the workpiece material or broken or damaged Shrinker Stretcher or Shrinker Stretcher Stand components. To avoid injury, stop work immediately and inspect workpiece material for nicks, dents, welds, excessive scale or remaining coatings. Clean or repair as necessary or discard and begin with a new piece. Also inspect Shrinker Stretcher and Shrinker Stretcher Stand components for looseness or damage.

## SET-UP

- Select a clean, level work surface with sufficient room to manipulate workpieces through the Shrinker Stretcher.

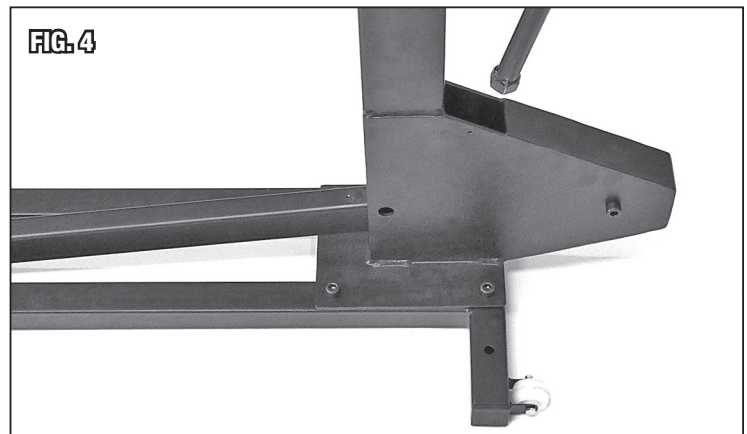
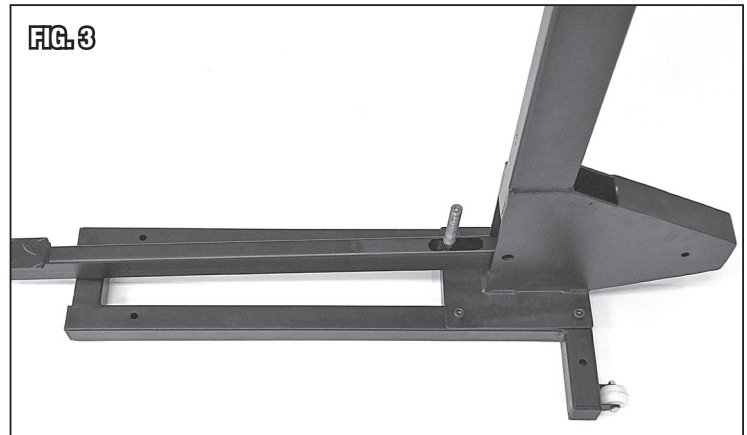
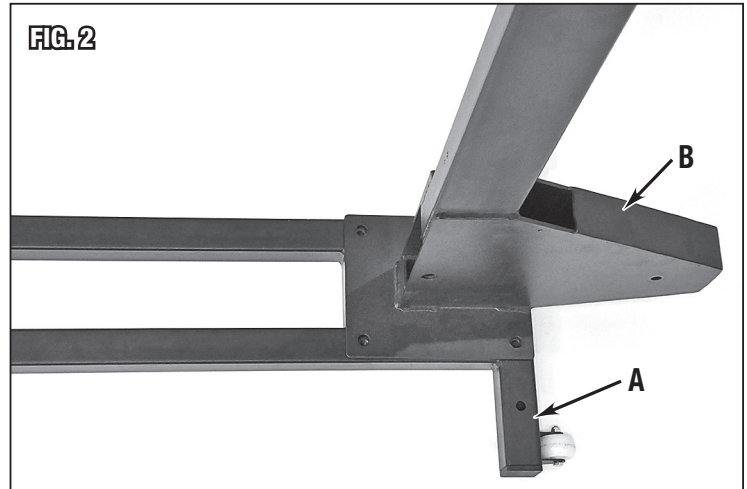
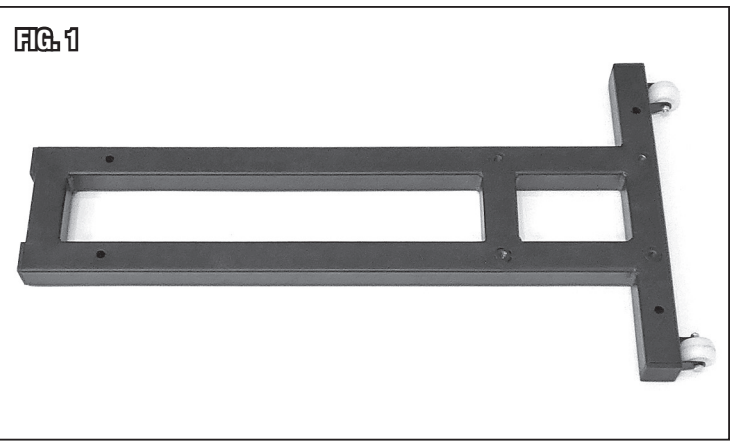
## ASSEMBLY

### POST ASSEMBLY [B] TO BASE [A].

- Place Base [A] on a clean, level floor (FIG 1).
- Set the flange of the Post Assembly [B] on the Base [A] and align the four mounting holes with the threaded holes of the Base (FIG 2).
- Thread four M10 x 15mm Socket Cap Screws through the holes in the flange and into the Base (FIG 3) and tighten securely with an 8mm Hex Key (not included).

### PEDAL ASSEMBLY [C] TO POST ASSEMBLY [B].

- With the Pedal facing upward, insert pivot of Pedal Assembly [C] through front opening of triangular section of Post Assembly [B] (FIG 3).  
**NOTE:** The threaded Drive Stub attached to the Pedal Assembly must be kept in the UP position and visible through the slot of the triangular section of the Post Assembly
- Align the threaded pivot of Foot Pedal [C] with holes in the sides of the Post Assembly triangular section [B].
- Thread two M10 x 20mm Socket Cap Screws through the side holes in Post Assembly and into the threaded Foot Pedal pivot (FIG 4) and tighten securely with an 8mm Hex Key (not included).



**MOUNTING THE EASTWOOD ELITE DEEP JAW SHRINKER STRETCHER (#21489, NOT INCLUDED) TO POST ASSEMBLY [B].**

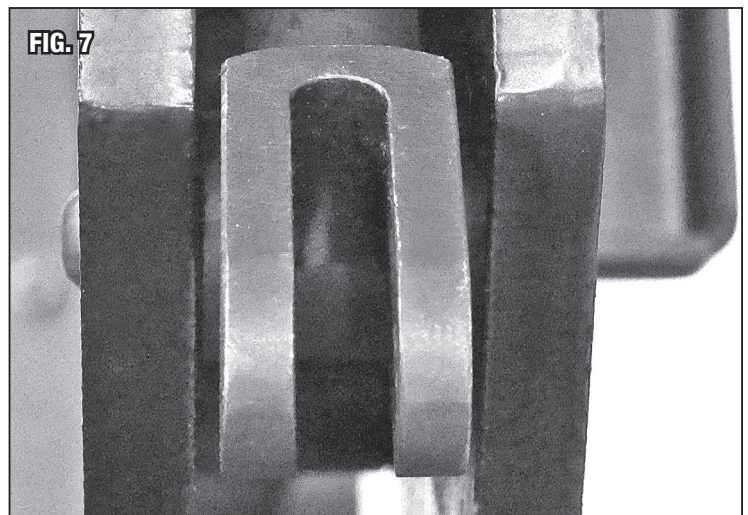
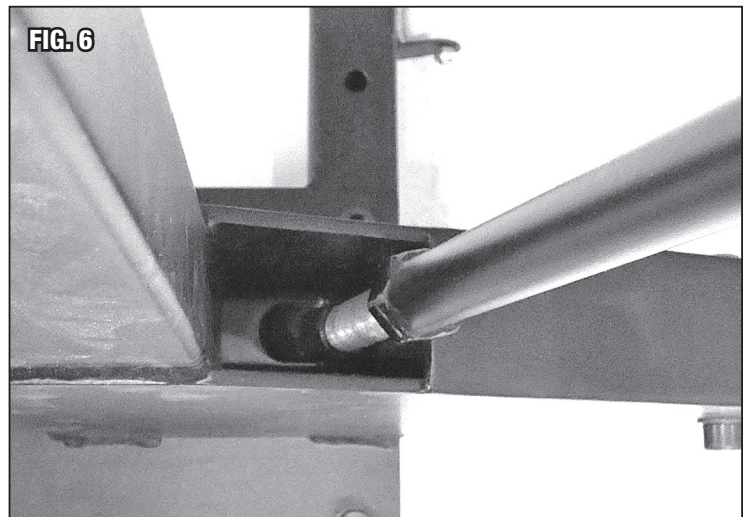
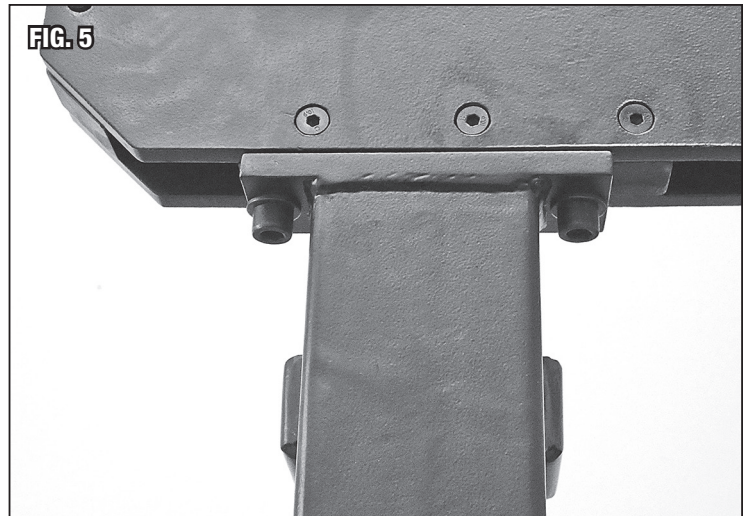
- Set the Shrinker Stretcher with the jaws facing forward, on the top plate of the Post Assembly [B] (FIG 5).
- Looking upward, align the 2 through holes in the top plate of the Post Assembly.
- Thread two M10 x 30mm Socket Cap Screws through holes in Post Assembly top plate and into the underside of the Shrinker Stretcher (FIG 5) and tighten securely with an 8mm Hex Key (not included).

**INSTALLING PUSH ROD [D].**

- With the clevis end of the Pushrod positioned upward, insert lower end of Pushrod down between the side plates of the Shrinker Stretcher housing (FIG 6).
- Insert the lower end of the Pushrod [D] into the slot of the Post Assembly [B] and begin threading it onto the threaded Drive Stub (FIG 6).
- Thread the Pushrod onto the Drive Stub then stop when approximately 3" of thread remains exposed.  
**NOTE:** The Pushrod length MUST be adjusted to prevent permanent damage to the Jaws from over-travel. (This procedure is described further on in these instructions.)

**INSTALLING ACTUATING CLEVIS [E].**

- Insert the shaft portion of the Actuating Clevis [E] into the round bore of the Eastwood Shrinker Stretcher Rocker Arm (FIG 7).  
**NOTE:** Using a 3mm Hex Key (not included), back out the set screw in the Rocker Arm to allow the shaft to bottom out in the bore (FIG 7).
- Align the open end of the clevis with the sides of the Shrinker Stretcher housing (FIG 7).
- Tighten the set screw in the Shrinker Stretcher Rocker Arm with a 3mm Hex Key (not included) (FIG 7).

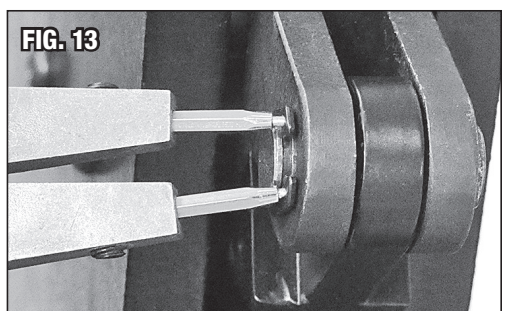
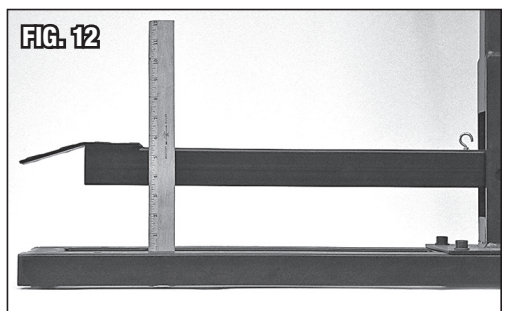
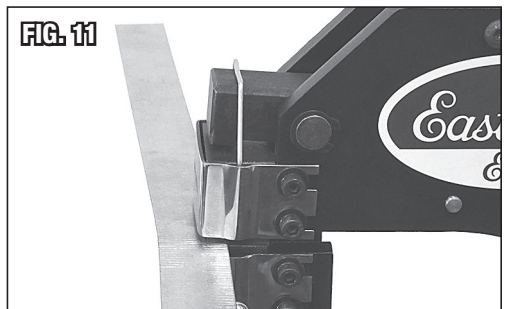
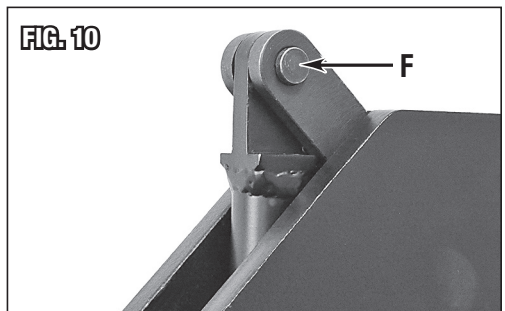
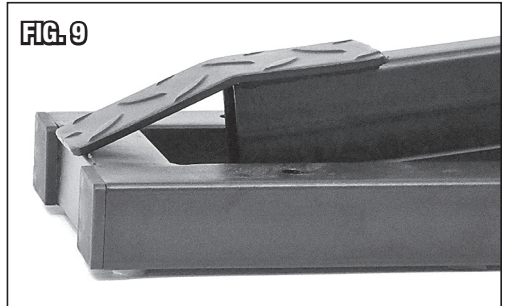
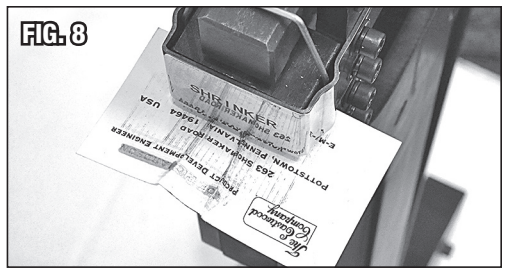


## ADJUST PUSHROD [D] LENGTH.

### **▲ NOTICE**

The Pushrod length must be adjusted to prevent permanent damage to the Shrinker Stretcher Jaws from over-travel.

- Lift the Actuating Clevis [E] to open Shrinker Stretcher Jaws fully and insert a business card or equivalent material between Jaws (FIG 8).
- Allow the Foot Pedal of the Pedal Assembly [C] to rest under its own weight on the Base [A] (FIG 9).
- Attempt to align the through hole in the top of the Pushrod [D] with the holes in the Clevis.
- Rotate the Pushrod to thread it up or down as required to align the Pushrod and Clevis holes.
- Once the holes are aligned, the Pin [F] may be inserted (FIG 10).
- Remove the business card and place a 1" strip of 20-gauge steel between the Jaws.
- With the 20 Gauge steel in place between the Jaws (FIG 11), the underside of the Pedal arm should stop above and be parallel with the Base 3-1/4" inches (FIG 12). This is the ideal adjustment for use with 20-gauge steel or aluminum.
- If this dimension is greater than 3-1/4" inches, disconnect and lengthen the Pushrod by rotating 1 turn Clockwise as viewed from the top.
- If the dimension is less than 3-1/4" inches, disconnect and shorten the Pushrod by rotating 1 turn Counter-clockwise as viewed from the top.
- Conduct a final test by working the 1" strip of 20 Gauge through several passes (lifting the Pedal Assembly each time) and check that it shrinks or stretches properly.
- Once the final adjustments have been made, the two Snap Rings [G] can be placed into the grooves of the Pivot Pin [F] (FIG 13).



### INSTALLING PEDAL RETURN HOOKS [H] AND SPRING [J] (FIG 14).

- Thread one each M3 Nut onto the Hooks [H] leaving 1/4" - 3/8" thread exposed.
- Thread the Hooks [H] into the threaded holes in the Post Assembly and Pedal Assemblies [B & C].
- Slip a loop of the Pedal Return Spring [J] over a Hook, lift up on the Pedal Assembly then slip the opposite loop over the remaining hook (FIG 15).

### ATTACH FOOT PEDAL ARM LOCKPIN [K] (FIG 16).

The Shrinker/Stretcher Jaws can be permanently damaged by coming into direct contact without a strip of metal or protective material between them.

The Lockpin [K] should be used for storage

- Push one leg each of the two Cotter Pins [L] through the end links of the Chain [M].
- Insert the legs of one Cotter Pin through the hole of the Lock Pin [K] then flare them out.
- Insert the legs of the 2nd Cotter Pin through the hole in the right side of the triangular section of the Post Assembly then flare them out (FIG 16).

The Eastwood Shrinker Stretcher Foot Pedal Stand is now ready for use.

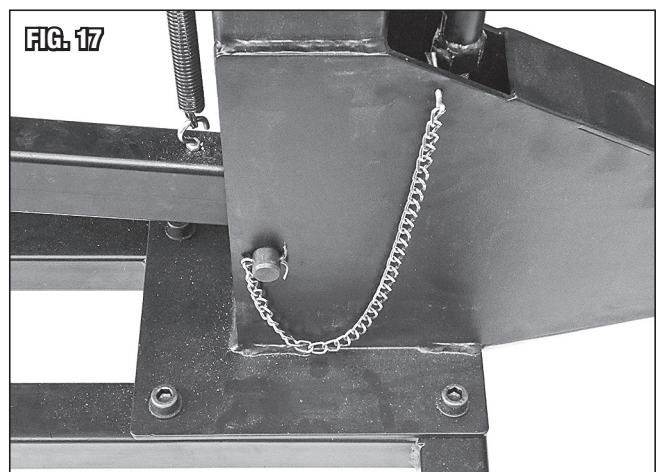
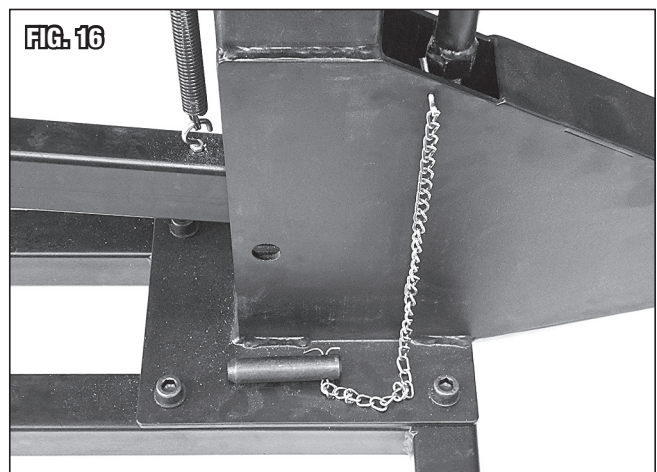
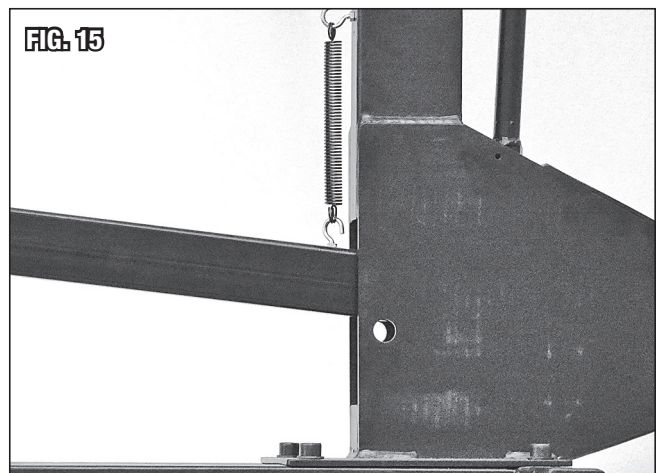
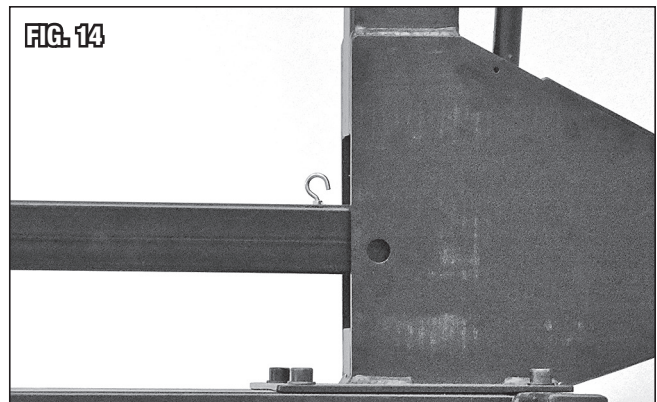
### INSERT FOOT PEDAL ARM LOCKPIN [K] FOR TRANSPORT AND STORAGE (FIG 17)

The Shrinker/Stretcher Jaws can be permanently damaged by coming into direct contact with each other without a strip of metal or protective material between them. The Lockpin [K] is intended to be inserted into the Post Assembly and Foot Pedal Arm when not in use and should always be used when moving the Stand and for storage.

## OPERATION

Read the Eastwood Elite Deep Jaw Shrinker Stretcher (#21489, not included) Instructions including all safety notices carefully before attempting to operate this Eastwood Shrinker Stretcher Stand.

If these instructions are unavailable, contact The Eastwood Company at: [www.Eastwood.com](http://www.Eastwood.com) or call 1-800-345-1168 and request document #21489Q.



## OPTIONAL ITEMS

- #13475 Eastwood Electric Metal Shears
- #11797 Throatless Shear
- #14042 Versa Bend Sheet Metal Brake
- #20254 Eastwood 24" Slip Roll

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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/21491manual](http://eastwood.com/21491manual)

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