

# OPERATING INSTRUCTIONS

**metal craft**™

## PRACTICAL PUNCH AND SHEAR



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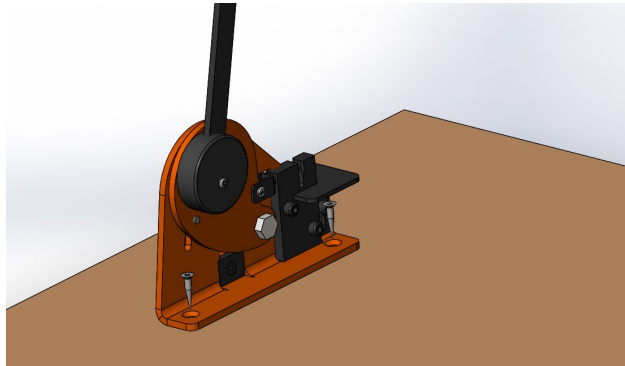


[www.youtube.com/scrollbender](http://www.youtube.com/scrollbender)

# PRACTICAL PUNCH AND SHEAR

1

Fix the Practical Punch/Shear Tool to your work bench using 2 nuts and bolts (not supplied).

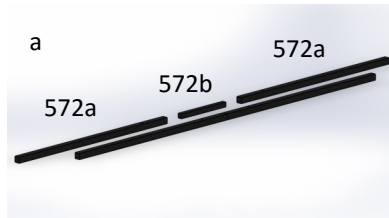


2

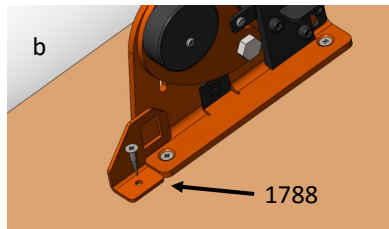
## MEASURING DEVICE (OPTIONAL)

### Assembly and Setup

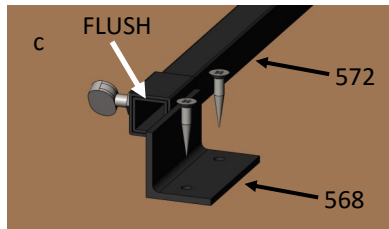
(a) Assemble the tape measuring device by first hammering the spigot (572b) half way into the dimpled end of one of the measuring bars (572a), then hammer the remaining measuring bar (572a) at the dimpled end into the other half of the spigot (572b)



(b) Attach the locator bracket (1788) to the bench towards the back of the PPS tool with nuts & bolts (not supplied). Place the assembled measuring bar into the slot of (1788) and make sure it sits tight up against the body, also making sure the measuring bar is at a right angle to the PPS tool.

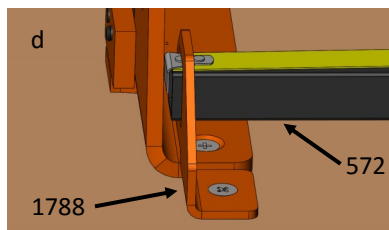


(c) Attach the bench mounting bracket (568) using nuts & bolts (not supplied) to the bench, then line up the measuring bar so that the back of (568) sits flush with the end of the measuring bar (572). Once the two (2) brackets have been fitted remove the measuring bar and feed the tape and holder (1786\*) over the measuring bar (572) and then place the end of the tape over the measuring bar and through (1788) and then up against the PPS tool body (d), lock the measuring bar in place by tightening (569\*) on part (568)



\*

See exploded view of Tape Measuring device on page 4.



4

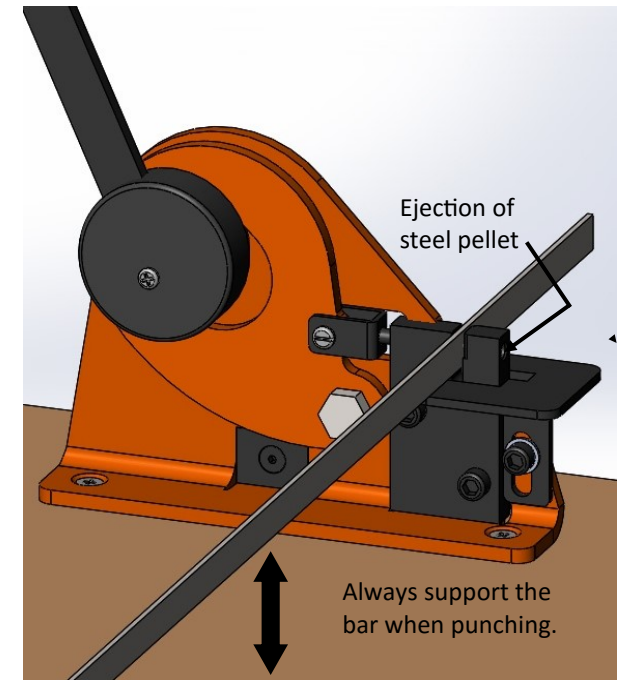
## PUNCHING without the use of the Measuring Bar.

Mark the edge of the flat metal strip where the hole is to be punched. Push/pull the handle back (away from punch block) so that the punch pin retracts into the punch block - thus leaving the punch block slot clear. Next place the metal so that the mark you made on the edge is located in the center of the punch block slot, then push/pull the handle toward the punch block.

REMEMBER - to always support the flat metal strip you are punching. Keep it level with the punch block so as not to break the punch pin.

Once hole is punched, push/pull handle ALL THE WAY back (away from punch block) BEFORE removing metal.

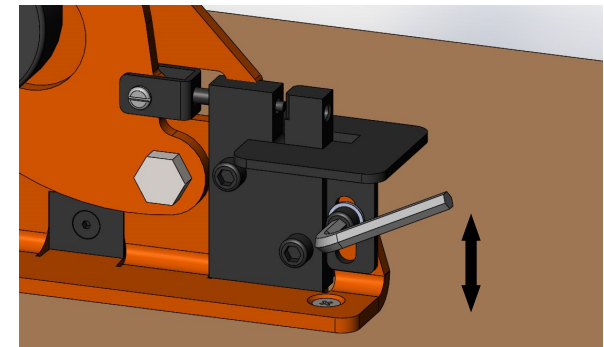
**WARNING: During punching steel a pellet may be ejected at high speed from the punch block. Eye protection is recommended.**



4

## ADJUSTABLE PLATFORM

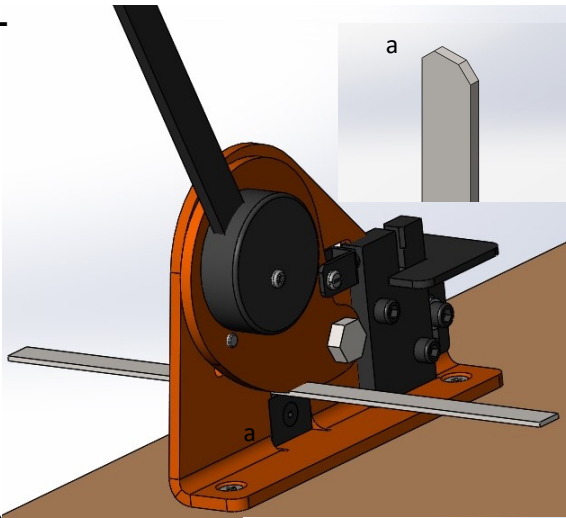
This mechanism can be fixed at different heights to enable the tool to punch holes at consistent distances from the edge or in the center of various widths of flat metal strip.



Due to our policy of continual development, Wrought Iron Handicrafts, Inc. reserves the right to modify Metalcraft tools without prior notification.

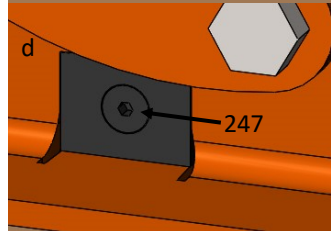
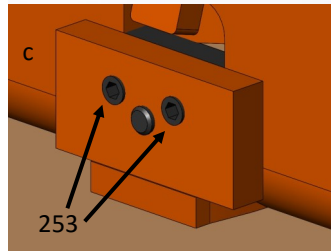
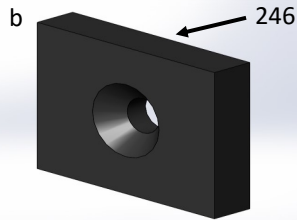
### 3 SHEARING (cutting) METAL

Start by setting the tape measuring holder (1786) to the correct length by undoing the thumb screw (569) and locking in place. If your Practical Punch/Shear does not have a tape measuring device, simply mark the metal to the desired length. Next open the gap between the blades by pushing/pulling handle toward the punch block. Insert metal between upper and lower shear blades (mark you made should be at the edge of the lower shear blade). Now push/pull handle back away from punch block until the blades close and shear the metal. Trim the corners of the metal for a more professional finish (a)



#### CHANGING THE SMALL BLADE

The lower blade (246) has 4 cutting edges (photo b) and can be rotated when one edge wears. To change the lower shear blade, bring the large blade up then loosen the two grub screws (253) (photo c). Next remove the screw (247) on opposite side (photo d) and then rotate the blade and place back in position. Tighten the screw (247) then back this off approximately 1 full rotation. Now bring the large blade down, tighten both grub screws (253) - this will push the lower blade up against the upper blade. Tighten (247). There should be NO gap between the two blades. If there is, keep the upper blade in the down position, loosen (253), then loosen (247) slightly. Next tighten up both grub screws (253) If there is still a gap, repeat this process.



#### Maximum Working Capacity:

**Shearing:** 3/4" wide x 1/8" thickness (flat metal strip)  
3/16" solid round rod and solid square bar

**Punching:** 1/8" diameter round hole in up to 1/8" thick material (flat metal strip)

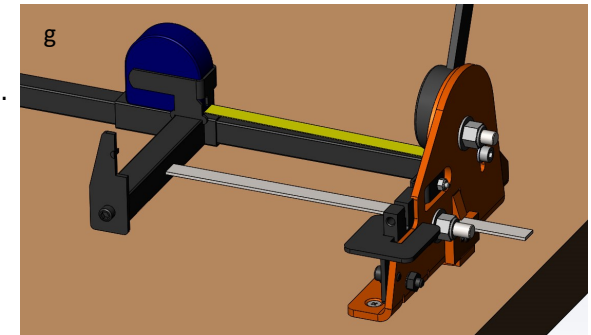
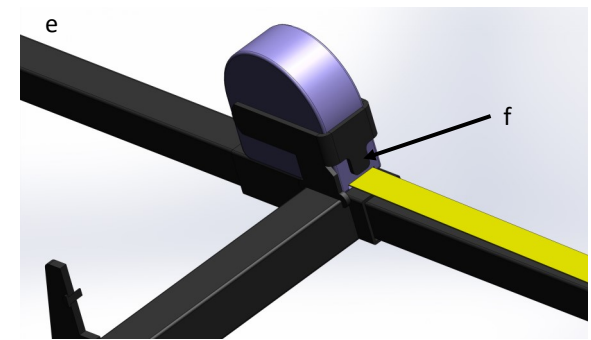
#### IMPORTANT NOTES:

Sizes stated are for hot rolled, mild steel or annealed metal. Ensure all moving parts are regularly lubricated. Working beyond the maximum working capacity stated above or with materials with greater strength or hardness will reduce the operational life of the tool. Please SAVE THESE instructions for future reference.

The Practical Punch and Shear Tape Measuring Device will help to achieve consistent cut lengths of steel every time and also produce accurate distances between your punched holes.

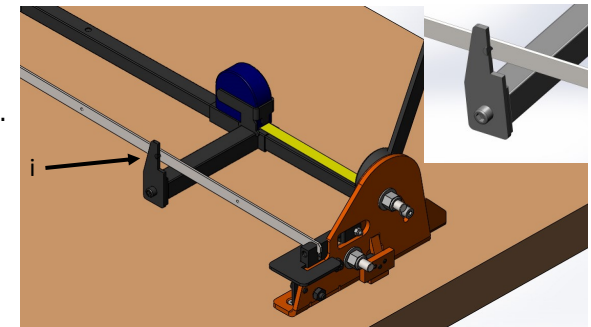
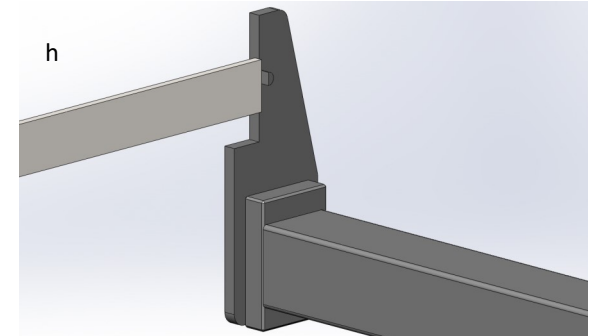
#### SET THE LENGTH TO CUT

(e) Undo the thumb screw (569) on the tape holder, this will enable the carriage to move up and down the bar. Set the desired measurement taking note of what the tape measurement reads (f). Once locked you are set to cut metal at set length. To cut, push/pull handle to open upper & lower shear blades. Feed metal between blades until metal rests against the stop (g). Next push/pull handle to cut the metal - always making sure the metal is pushed up against the stop.



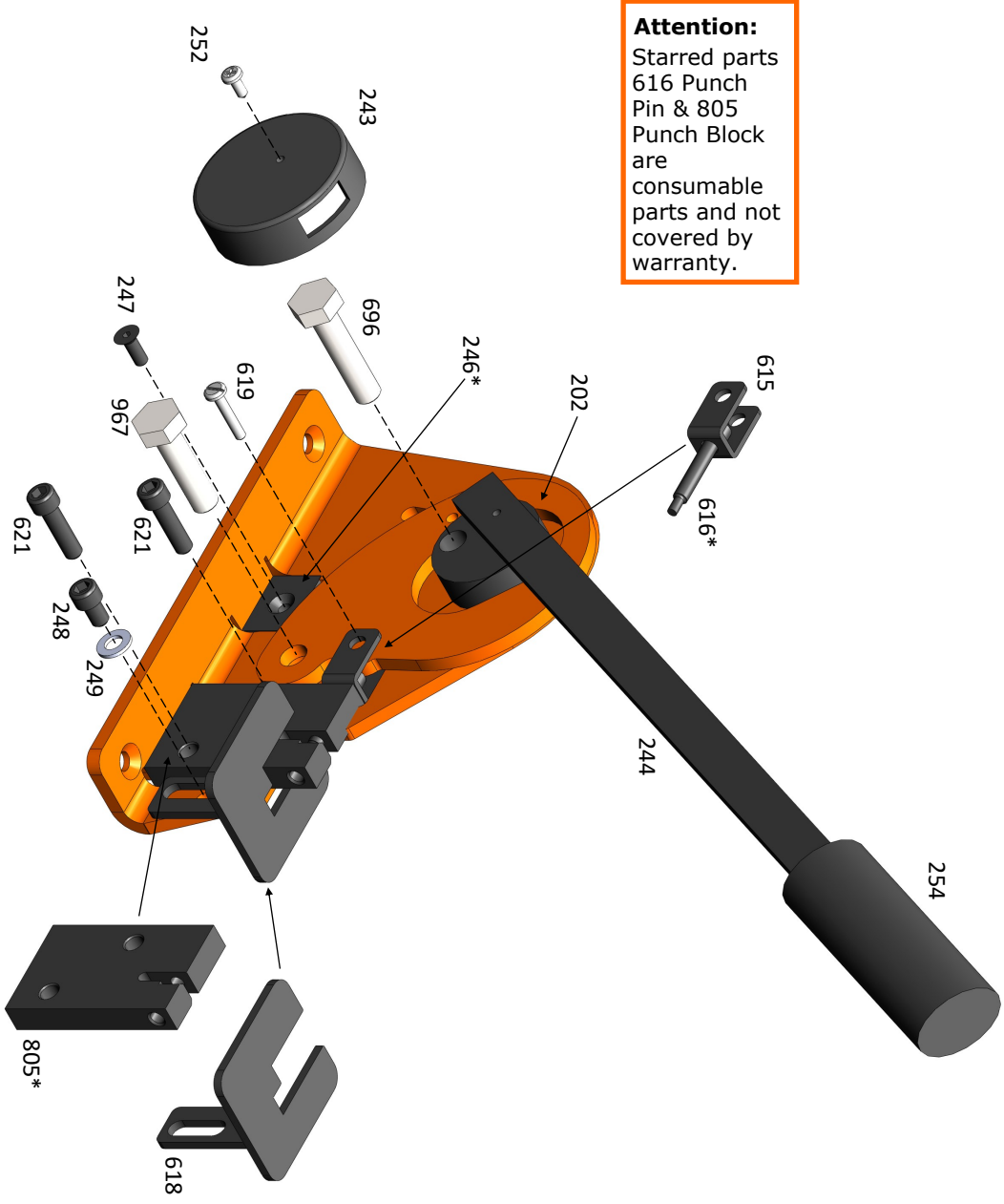
#### SET THE DISTANCE FROM THE CENTER OF THE PUNCHED HOLE TO THE END OF THE FLAT METAL STRIP

To set your punched hole move the carriage to the desired length and lock off using (569). Once your measurement is chosen, push/pull handle to retract punch pin into punch block which opens up punch slot. Now feed metal (with the platform set to the correct size of metal) through the punch block and up against the punch stop (h). Keeping the flat strip tight against the stop, push/pull the handle toward the punch block to punch hole.



#### SET THE DISTANCE BETWEEN PUNCHED HOLES

Set the tape measure to the desired length, lock off using (569), then place the already punched hole over the location pin (i) and punch the hole.



**Attention:**  
 Starred parts  
 616 Punch  
 Pin & 805  
 Punch Block  
 are  
 consumable  
 parts and not  
 covered by  
 warranty.

