COOP'S BOWSMITH

Platinum

Bowsmith Platinum Assembly

Your machine was assembled and test shot at the factory. It will go back togeter with no modifications. If you find you cant assemble witout changing set up please call. 815 325 9128

Remember to keep away from the front of the machine, never stand in front of the machine. Keep your hands and fingers out of the way. Keep your kids away. Check for loose bolts and always pay attention to what you are doing.

Scan with phone camera for set up and use video for the bowsmith pro

This is how your machine arrives.

Contents of the small box

Winch handel, 2 L wrenches, 1 drawboard hook, Hardware package, Bow hand holder, torquess bow holder, bow hand and 1 tool cady.

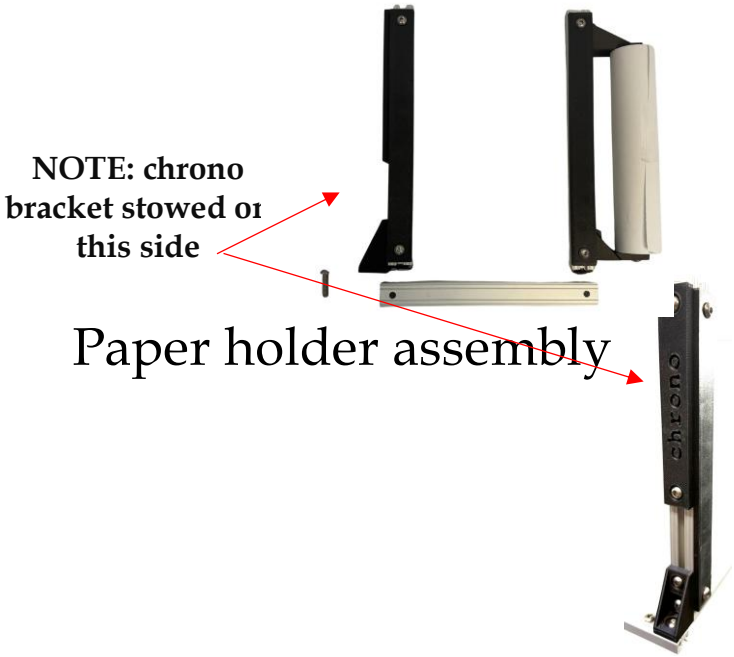
Contents of the long inner box

Front and rear leg and 2 paded feet

Front and rearleg struts

Upper limb brace

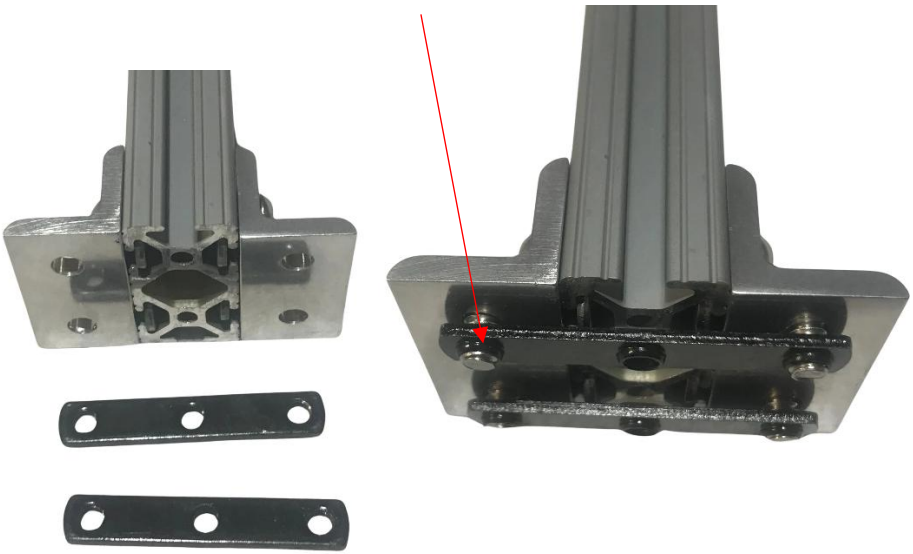
forward brace for the paper tuner



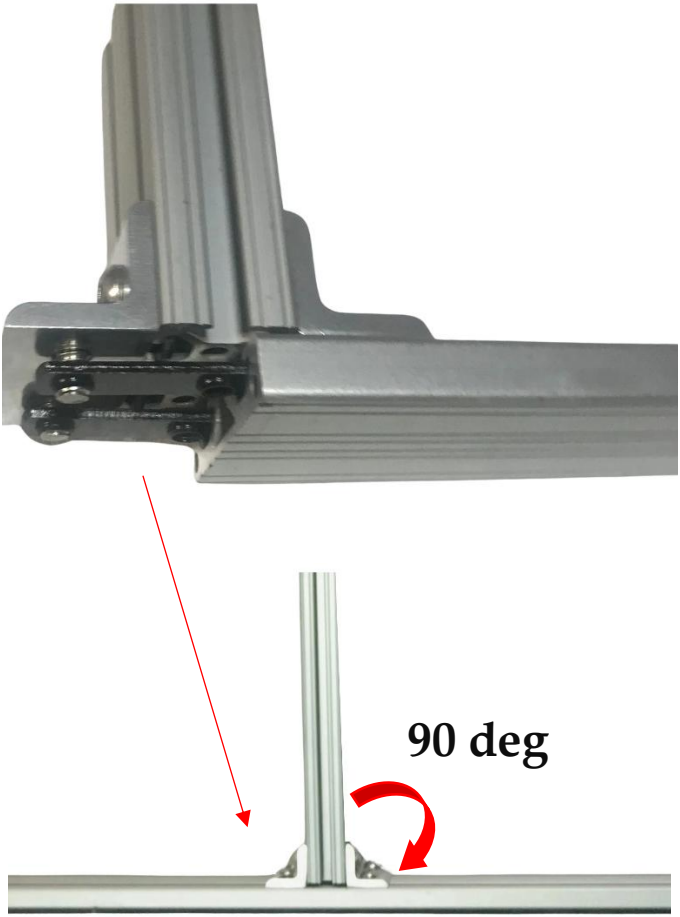
Paper holder assembly

Build the leg assembly first.
Identify the front and rear legs, as you can see in the pics the front leg has two knobs and the rear one.

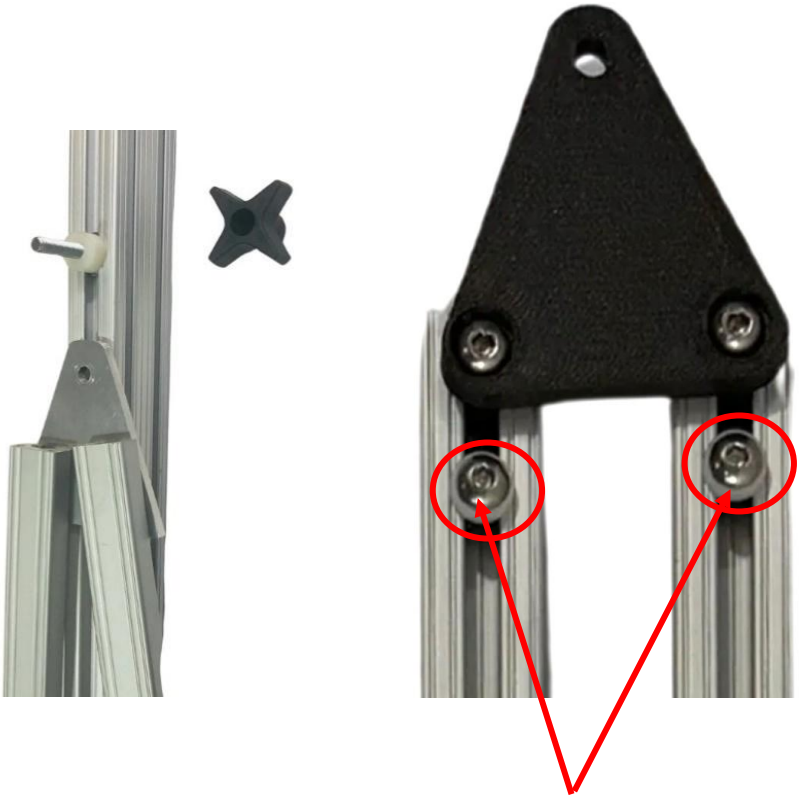
Install feet brackets on each.
side of the legs
then install 2 -3-inch slide nuts as shown.



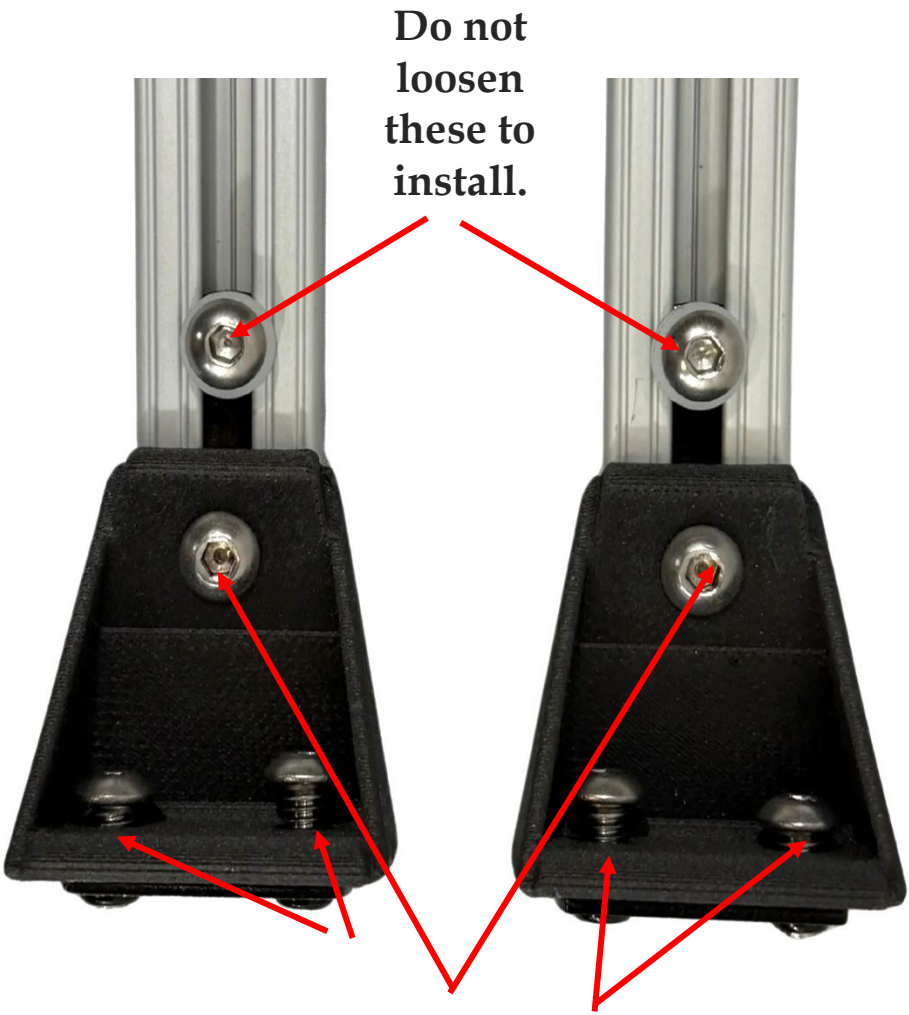
Slide leg assembly in place and tighten.



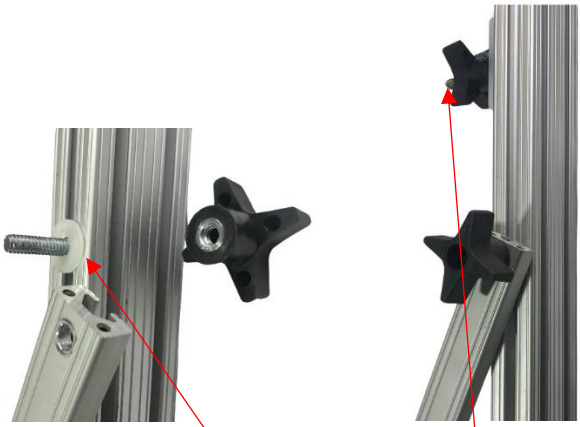
Slide the padded foot in place.
Try and keep it centered and square.
Do the same with front and rear.
You can install the leg braces/struts now or after the legs are mounted on the machine. Just leave the bolts in place, you cannot get them in after installed on the machine.



Leave the washer in place and slide bracket over the bolt and loosely install the knob on the rear leg. Attach the feet brackets in place to look like the pic.

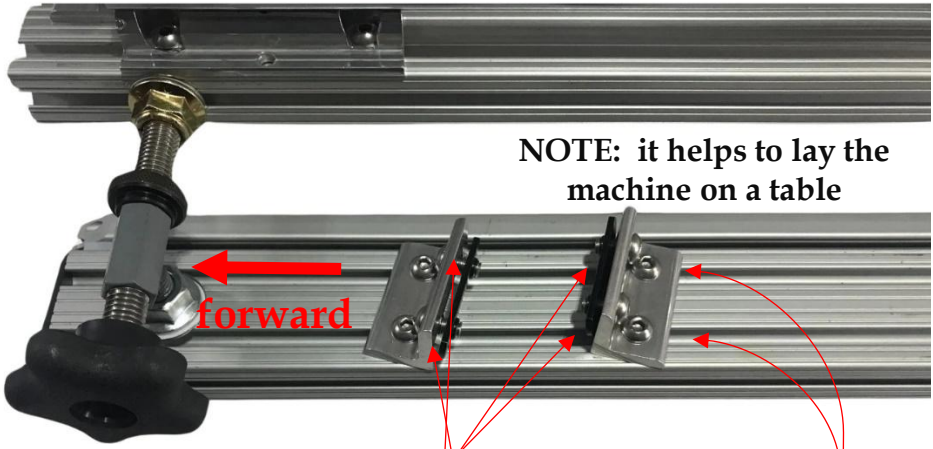

Do not loosen these to install.
Loosen to install.
Slide into feet

Rear leg assembly.
Do the same thing with the front leg.



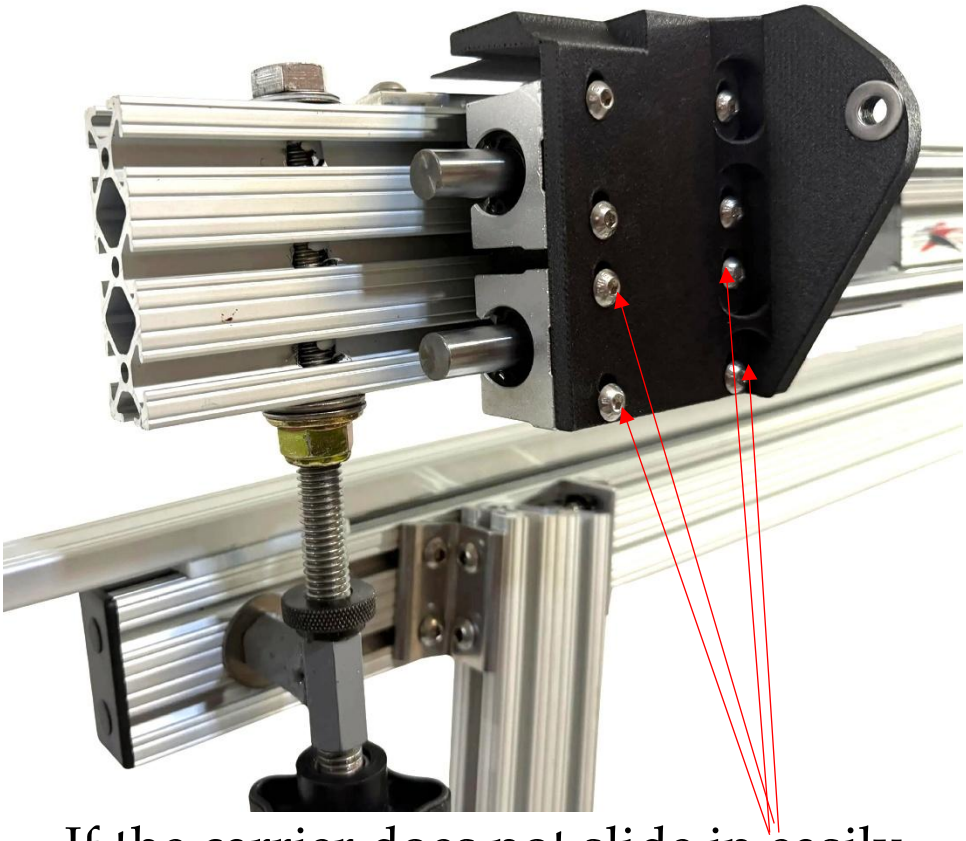
Make sure this washer stays in place. Do not remove the other knob, it will need to stay in place as seen in pic.

With the 2 leg assemblies complete - mount to the main frame making sure the front and rear go into the right spot.



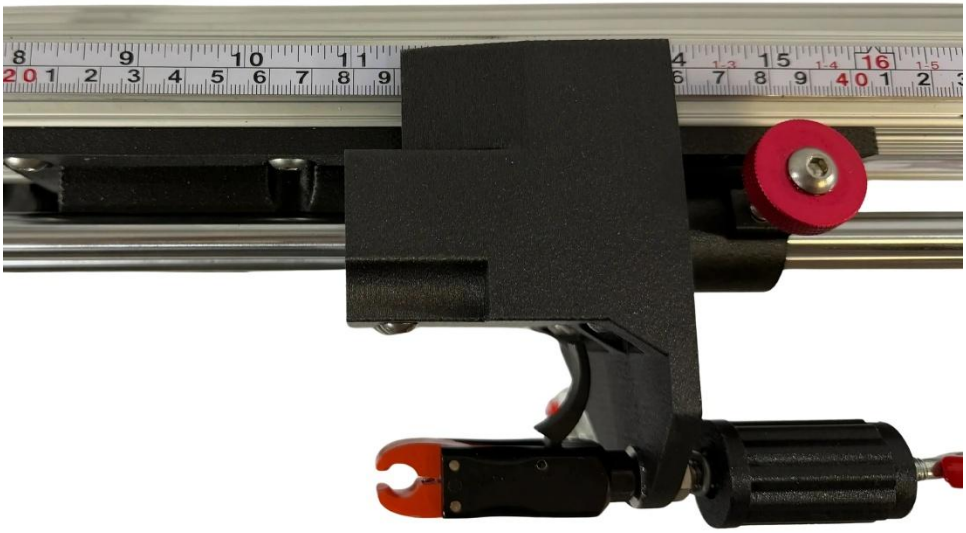
back out the four screws to leave enough play to slide in leg. Also loosen the right-side/inside bracket.
Slide the leg in place and tighten all the screws.

Do the same thing with your rear leg
and stand up.
Gently slide the release carrier in place.



If the carrier does not slide in easily,
loosen the four 3 mm screws and adjust.

(keeping the trigger to the inside)
Install the release and micro adjustment device. Hook the strap to the eyehook and slide the red retainer in place.



The draw scale can be adjusted to fit your bow by loosening the screws and setting it to your bows measured draw length.
(Full draw or at brace.)

Install the tool cady if not already installed at the factory.
Locate the knob assembly for the limb brace and install it on the side of the 3x5 inch torque box and bowhand assembly.

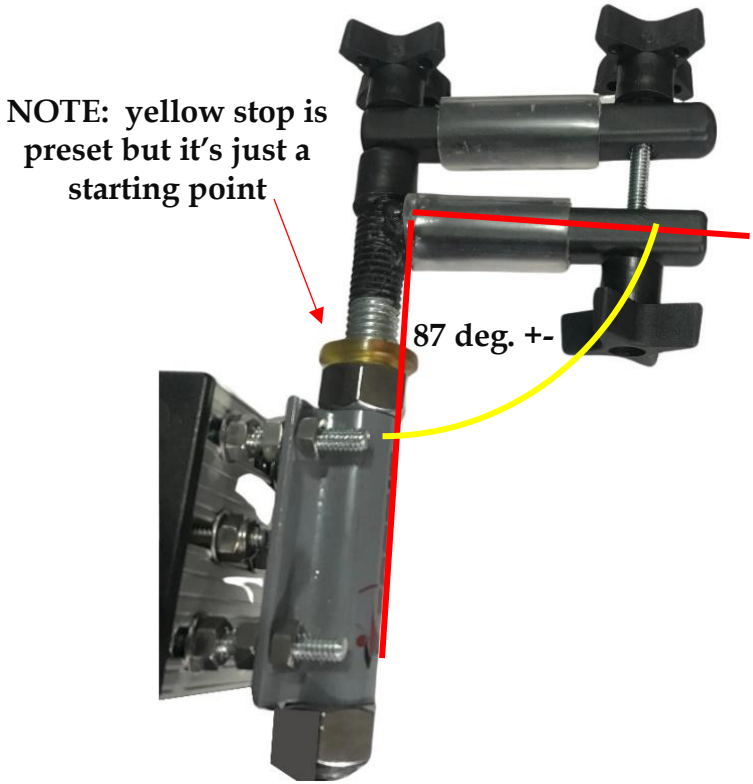
Insert knob post and yellow washer for upper brace.

NOTE: this is preset but it's just a starting point

Tool cady install

Install tool cady to the back to the 3-inch rail to the preinstalled nut

Install the bow hand as seen in pics.



Installing the paper tuner

Slide the pieces together and tighten the ¼-20 nut through the bottom hole. Locate the paper tuner brace and install.

Slide the bottom first over bolt then slide upper piece into guide.

Attach paper tuner to slide rail.

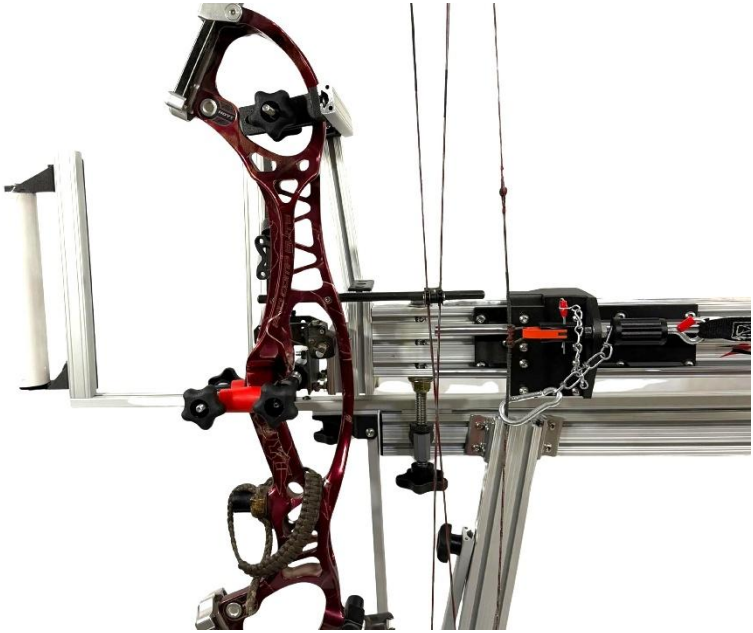
Install the 2-hole bracket into the slide. The protrusions should face up. Short bolt goes in first loosely then the long bolt. Tighten the short bolt and remove the long bolt and use it to attach the paper holder to the slide rail.

It should look like this when done.

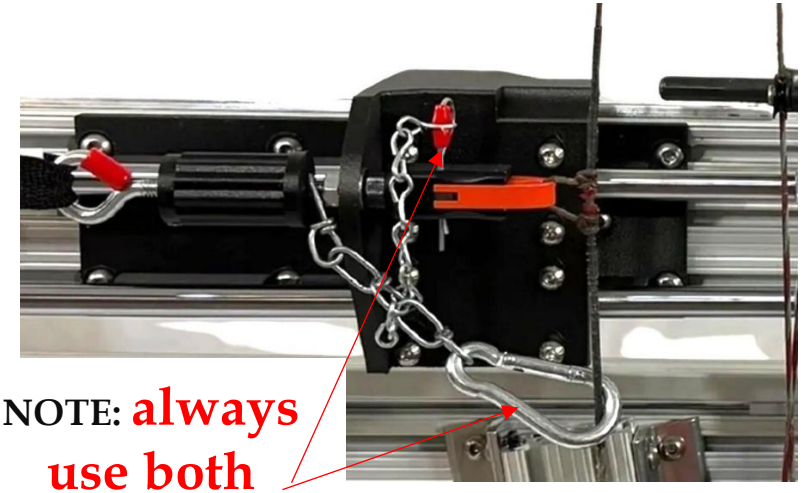
Fold the paper holder to the side when retracting or extending to avoid binding.

Setting up a bow in the Bowsmith Platinum

Your Bowsmith Platinum comes pre-assembled and pre-tuned for a Hoyt Pro Comp Elite. (These settings should work for most compound bows)



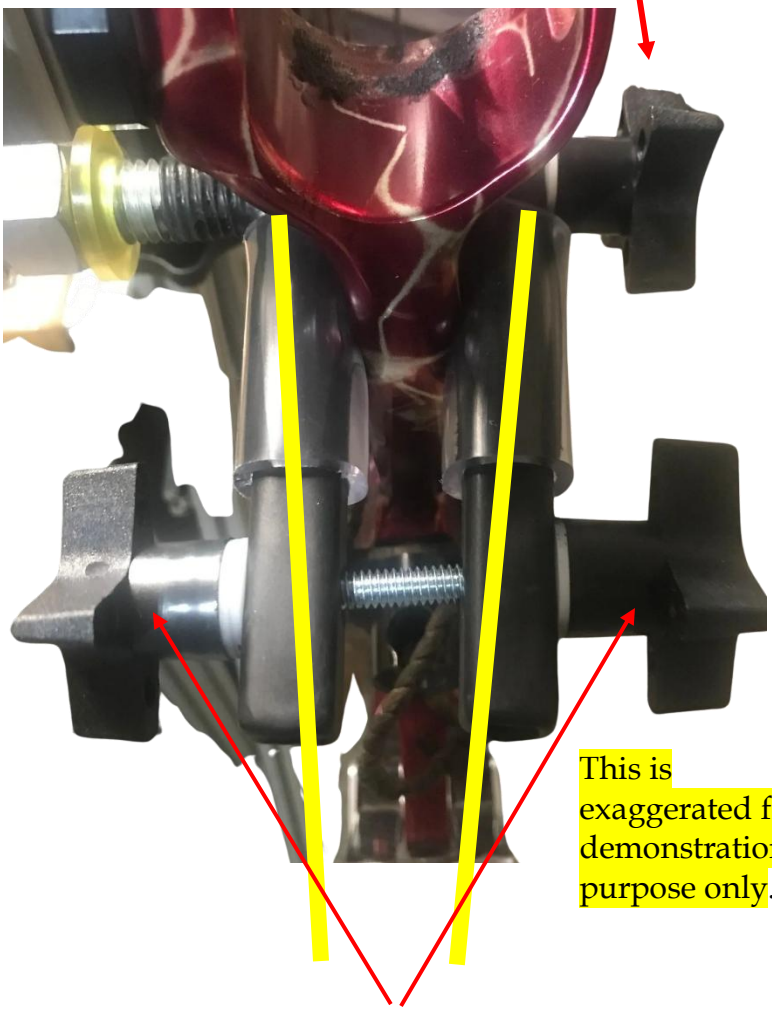
Set your bow in the bow hand. **Put both safeties on** and winch it with a couple clicks. This sets the grip against the post. Tighten the bow hand alternating from rear first to front.



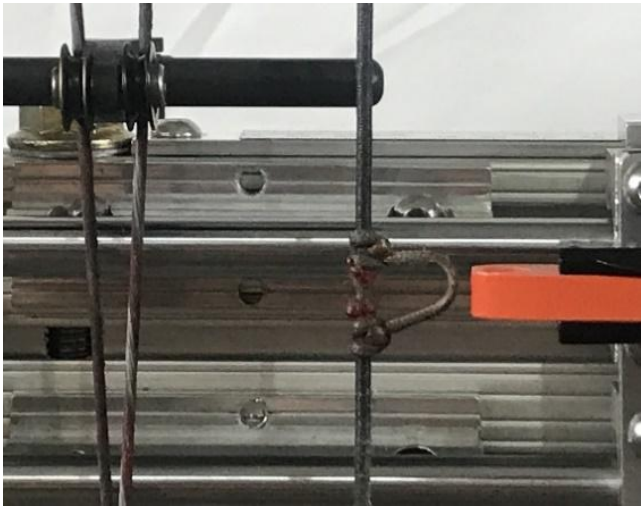
square the bow to the top rail. Using the carbon fiber wrench tighten the 5/8 nut on the bow hand.

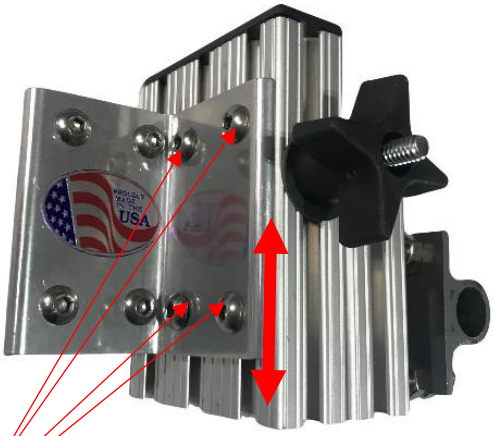
***Don't* over tighten snug is fin**

Tighten the rear knob first

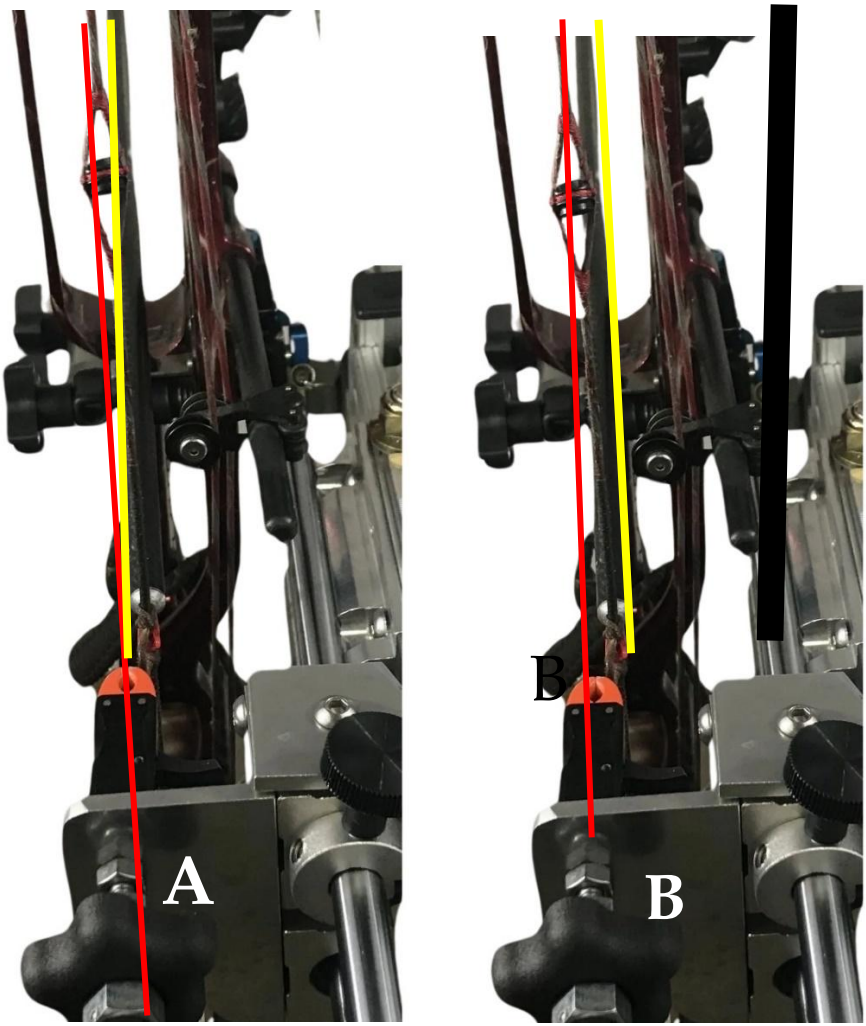


Then tighten the front knobs so they pinch the front of the bowholding the bow tight to the post. The squish tubes will conform to the bow helping to keep the bow positioned





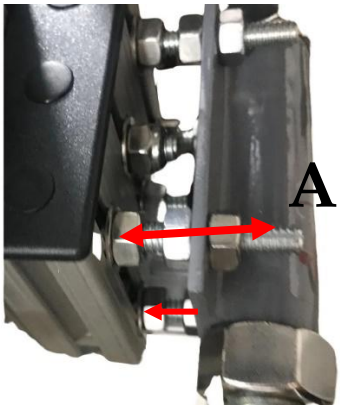
Your release should alinge like this if not, losen the 4 screws and slide the 5 inch by 3 inch block up or down.

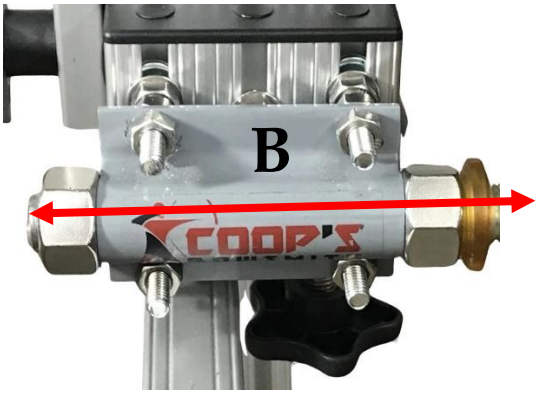


Sighting down the back of the machine you may see one or a combination of a offset shaft or a crooked shaft . In (**A)** the shaft and bow are not square to the machine

A is corected by adjusting the torque box ¼-20 nuts. NOTE: snug only

In this case move them in to change the angle of the bow. A little goes a long way. If it requires a lot try reajusting the bow in the grip.

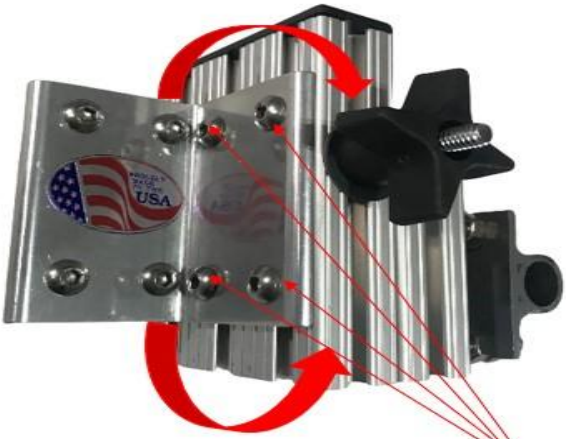




In B we adjust the bow hand in or out. NOTE: any time you preform this procedure you must remove the upper limb brace.

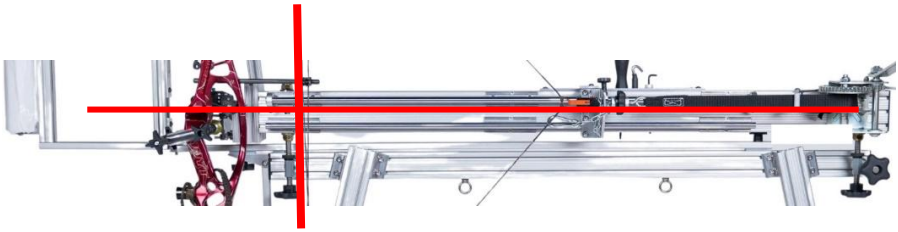
Remember to keep away from the front of the machine, never stand in front of the machine. Keep your hands and fingers out of the way. Keep your kids away. Check for loose bolts and always pay attention to what you are doing.

Plumbing the bow from left to right



To plumb the bow loosen the for screws and rotate the box left or right

When correct it will sight streight.
NOTE: this does not need to be perfefect but the closer the better



With everything close now you can install the uper limb brace

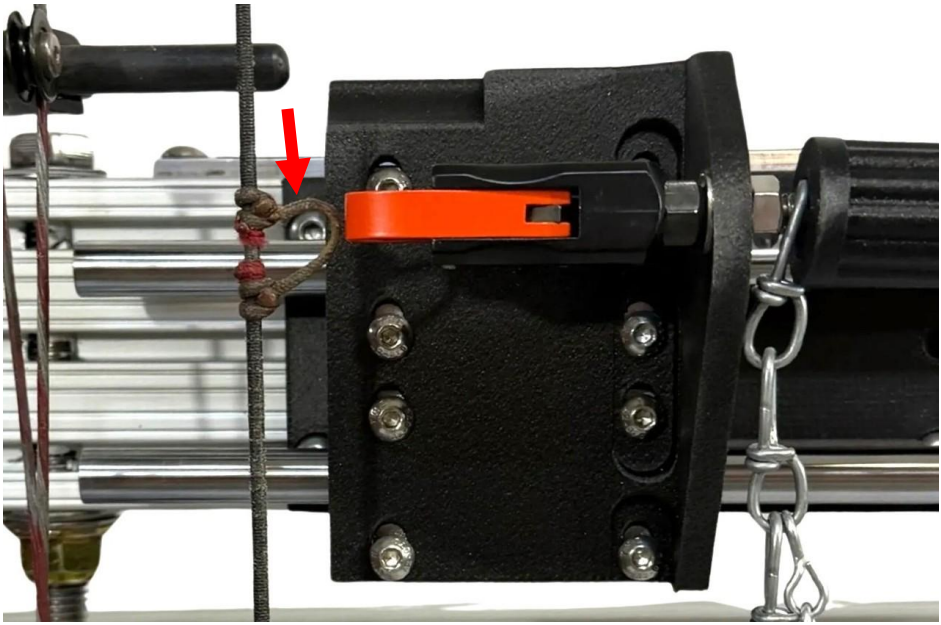
If you haven't pre-installed the knob, pin, and washer you may have to loosen the bow holder assembly to install in the side slot.

Stows folded in place until ready to use.

Find a spot on the riser. Preferably a flat spot and lock the brace in place without moving the bow.

NOTE: even with the brace installed the bow can move slightly when shot. A couple shots and it will settle in.

It may help to lower the bow a ¼ inch using the 5 inch block if it keeps moving.

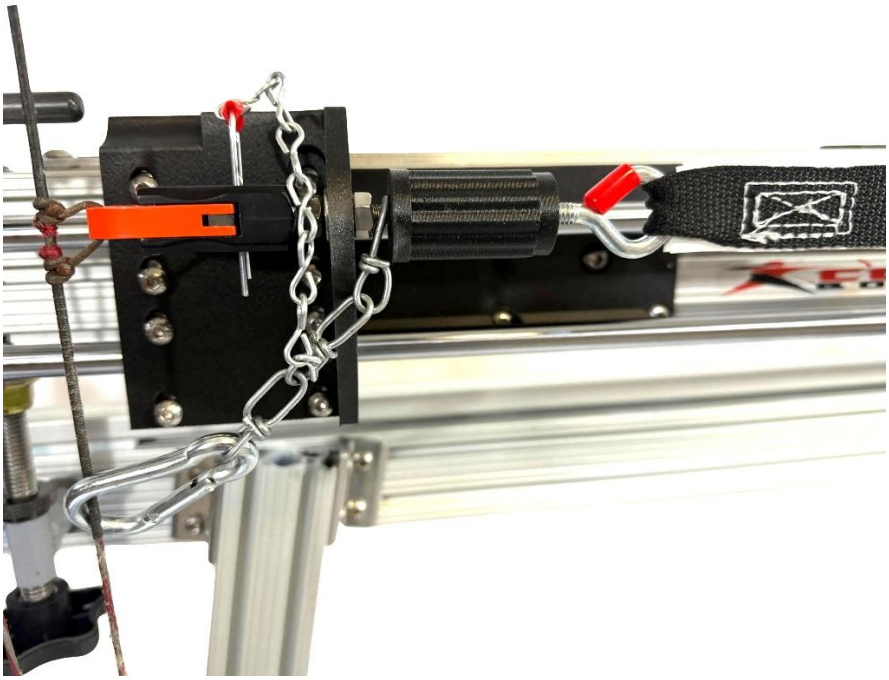


Shooting a arrow

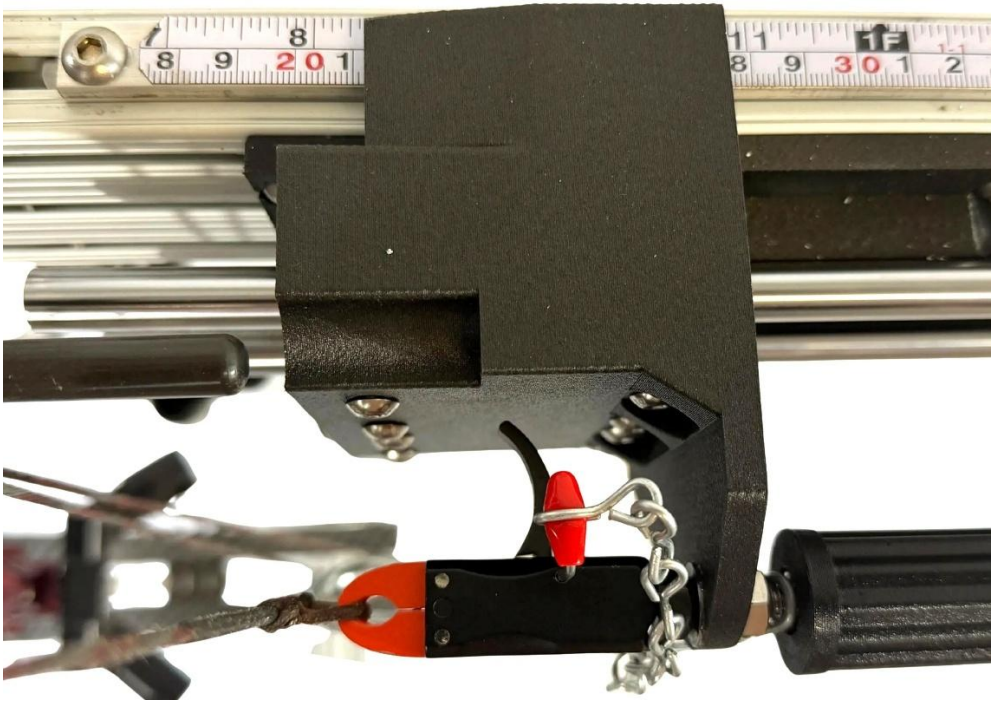
Before shooting go back and tighten the feet and leg bolts with the L wrehch.

They must be tight or they will move

Sand bag the feet or hang water buckets from the eye hooks

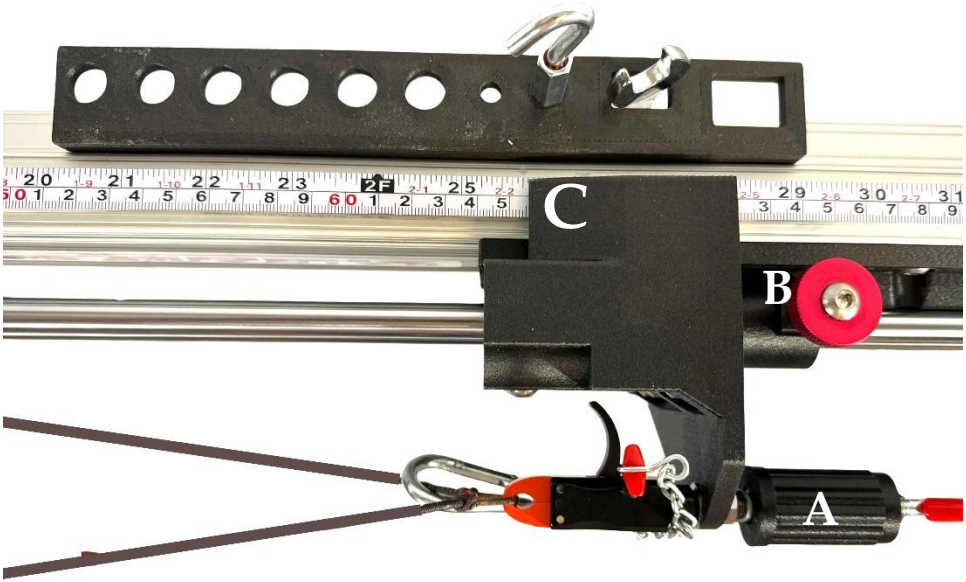


Slide your release forward close the jaws and install both safty devises.



If you know your bows brace hight set the scale to match in this case its 8.53

Crank the bow back smoothly to just short of full draw. Fine ajust with the micro adjustment (A).



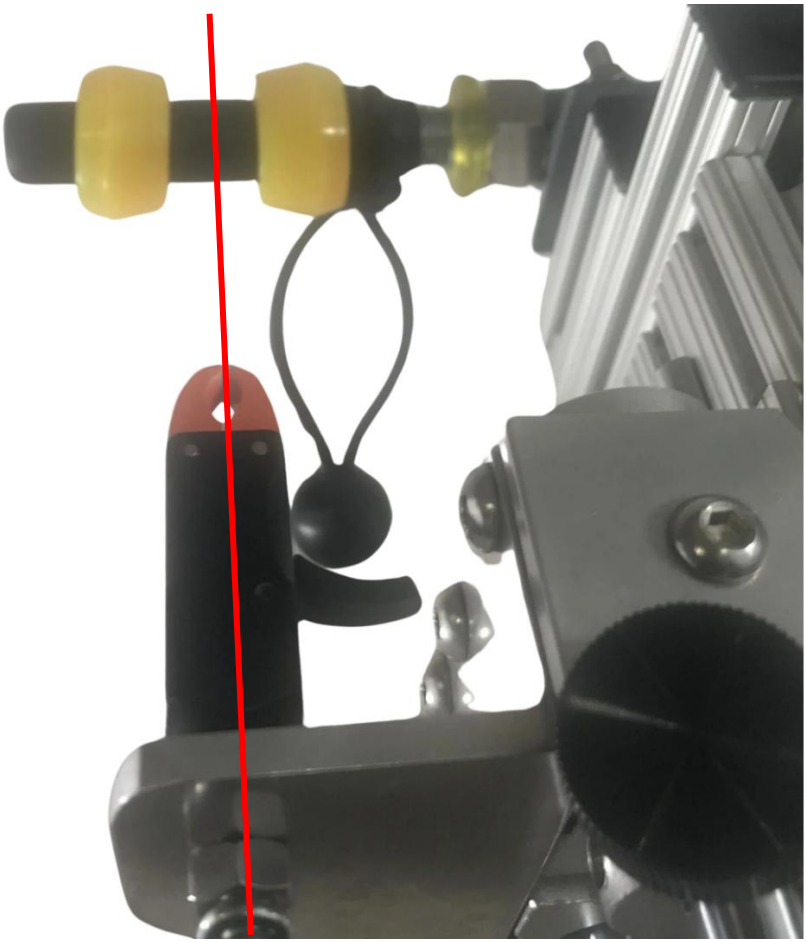
Set the draw stop in place (B).
Draw length is now displayed (C) Remove the string catch first, pull the pin and its ready to fire. Make sure of your target! No one in front!No body parts in or around the bow! Pull triger to fire. Use the draw scale On sucessive shots to relocate the exact draw point. Dont rely on the drawstop its just a saftey devise to prevend overdrawing your bow

Using your Bowsmith Platinum as a draw board

Swap out the release for the draw board hook.

Always use the string catch

Torqueless bow holder



Set up is the same as the bow hand. keep it centered with the shot line.
This comes in handy when using as a draw board and doing multiple bows

Tuning Arrows with the Bowsmith Pro or the Platinum

Tuning arrows is a learning process. Fire a few arrows to settle the machine in. Don't move the bow after you shoot. You should be able to slide the release into place without touching the bow. The release should line up with the D loop every time. Your bow sight should stay level or close and your string should stay plumb or close. I tune fully fletched arrows only. Shoot 12 arrows and find the ones that hit the same hole, set these aside and tune the rest of the fletched arrows. Turn the nocks from the cock vane to the next vane and find the one that shoots closest to center. Most guys who tune this way keep all their vanes the same color and mark the cock vane with a marker. Pay attention that nothing

moves. I use one good arrow to double check things as I go.

A very accurate way to shoot after you have set the machine up and test fired a shot or two is to leave the winch clicker off. Crank the bow back to full draw with your right hand to just short of the overdraw stop and hold the winch handle and pull the release with your left hand.

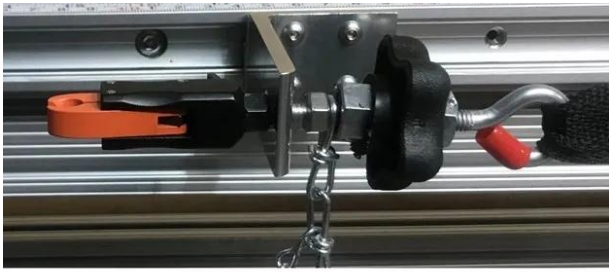
Remember to keep away from the front of the machine, never stand in front of the machine. Keep your hands and fingers out of the way. Keep your kids away. Check for loose bolts and always pay attention to what you are doing.

using a draw scale

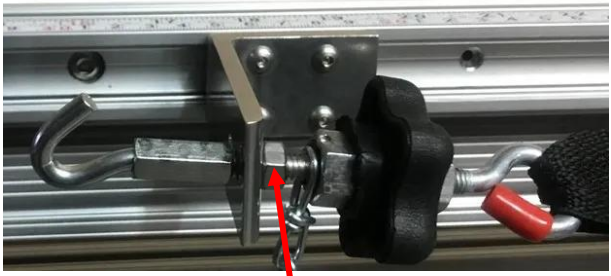
we strongly recommend using the **Last Chance Bow Scale 3.0.**

Note : if bought through us it comes with the needed draw board hook.

Never use the release on the machine to hold the bow scale!
Catastrophic damage can result.



swap the release for the included draw board hook



Note: Tighten in place!
Using the micro adjustment wile loose will allow it to back out and fire.

Hook to string only . Do not trust d-loop alone

Follow directions that come with scale

Paper Tuning

Paper tuning is rather straight forward. I will be using the Bowsmith pro with its attached paper holder.
Slide the paper holder from its stowed position and lock it into place. Then rotate the paper frame into its shooting position. Note: trying to slide this in or out without the paper frame in its stowed position **will cause binding.**
Make sure your arrow is aimed at the backstop and shoot an arrow through the paper. As you can see in figure 81, we have a perfect bullet hole. If the bow is set up correctly you should get this on almost any new set up. If you have a rip or offset hole, follow the diagram on figure 82 to correct.

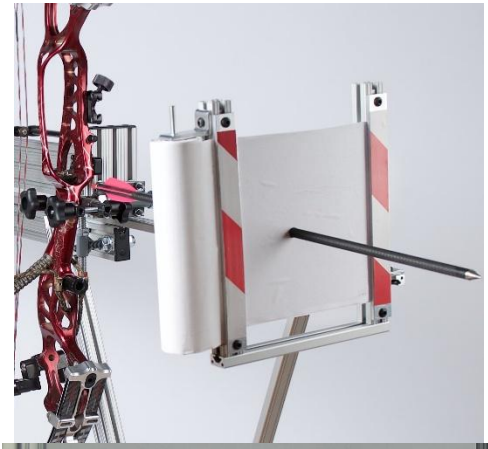


Figure 80 Figure 81

Don’t waste your time shooting bare shafts threw paper! Without fletching, the back of the shaft tends to follow the hole the point made.

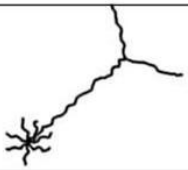
rip = nock high, point low
*move nocking point down

rip = nock low, point high
*move nocking point up

rip = nock left, point right
*move rest to the right
*yoke tune or timing problem
*spine too weak

rip = nock right, point left
*move rest to the left
*yoke tune or timing problem
*spine too stiff

IF YOU HAVE A COMBINATION OF THE ABOVE RIPS, CORRECT VERTICAL TEAR FIRST THEN MOVE TO THE HORIZONTAL CORRETION....



UNTIL YOU ACHEIVE.. PERFECT!!

Figure 82

Using Bow Master L Brackets with the Bowsmith Pro

We offer a modified version of Bowmaster. (figure 22) It doesn't include the compressing device and is designed to work with a draw-board. But the original Bowmaster works just fine with all our machines,

NEW G2 VERSION FOR 2016

NOW WORKS WITH LARGE CAMS AND ON BOWS UP TO 6° PAST PARALLEL

Logo stamped on the bracket indicates it is suitable for past parallel"

Split Limb L Brackets G2

This compact, light weight bracket provides a quick and easy attachment point for the Bowmaster Bow Press. The L design presses from the limb tips and compress the limbs in much the same way as when the bow is drawn. This new design works on a wide variety of bows, including those up to 6° past parallel. They work equally well on both solid and split limb bows and also work on bows with flared limb tips.

The NEW Bowmaster G2 Split Limb L Brackets are longer than previous versions and are designed to fit large cams like those on the newer universal fit compound bows. Like the 2015 version of the Split Limb L Brackets the new G2 L Brackets will also work on bows up to 6 degrees past parallel.

The Split Limb L Brackets are available in 2 widths. The standard width L Brackets will fit a maximum cam width of 3/4", which will cover about 95% of the bows on the market. The wide width will fit a maximum cam width of 1 1/8" which are intended for bows with wide cams like some models from Alpine®, Bowtech® and Diamond®.

Not included please order from our website

The bow L clamps are by Bow Master and can be used on past parallel bows, but only up to 6 degrees past parallel. If the past parallel limbs are more than 6 degrees past parallel to the limb tips, then, the Bow Master L clamps cannot be used. The Bow Master L clamps **do not work for all bows! Caution must be used!** Here is an easy way to tell if your bow is past parallel at rest. Below are photos of two different bows. Put a piece of paper up to the limb with one edge of the paper parallel with the string. (figure 23) The edges of the paper make it easy to see the angle of the limb. The picture on the left is of a bow that is not quite parallel as you can see by the yellow line (yellow line is the angle of the limb tip). The picture on the right is a bow that is past parallel. Only use the Bow Master L clamps on bows that do not have past parallel limbs greater than 6 degrees.

Almost Past Parallel Versus Parallel

Almost parallel – 1 degree

Past-parallel +6 degrees

Figure 23. Almost Parallel versus Past Parallel

The Bow Master L clamps can slip off past parallel limb tips greater than 6 degrees. Use caution whenever using the Bow Master L clamps on any bow
Our NEW strap system is designed to work with any bow master split limbs. They are designed to work with any draw board / shooting machine to hold the limbs making cable adjustment possible without a press.

Works the same as our old cable set up.

Do not use at full draw a couple inches is all that is necessary. Draw bow 3 to 5 inches and hang hooks in place. Adjust the bottom hook so it is just short of the limbs by pulling on loose end of the strap. Back the bow back down paying attention to hook placement on the limps. be slow and cautious. When satisfied with placement you can now unhook the string and do your adjustments.

When done hook the string to the bow using both safeties, slowly draw the bow and watch that your cables are all in place. Now remove the hooks. **don't use the clasp on the strap to release or try and press the bow by pulling on the strap.**

Draw your bow just enough to fit the Bow Master L Brackets onto your bow. Set the L brackets in place. Adjust the length of the Bow Master L brackets making sure your cable ends are in the proper place, and the latch on the L bracket is fully engaged. See figures 44 and 45. **Find the longest setting possible, with the least amount of draw!**

Now, back off the Bowsmith Pro winch and watch to make sure the hooks are centered and the cable is latched. You can now replace your string and cables, adjust twists in end loops and even remove cams if you are careful.

Remember to always keep your face and fingers out of the way!

Figure 24.

Figure 25.

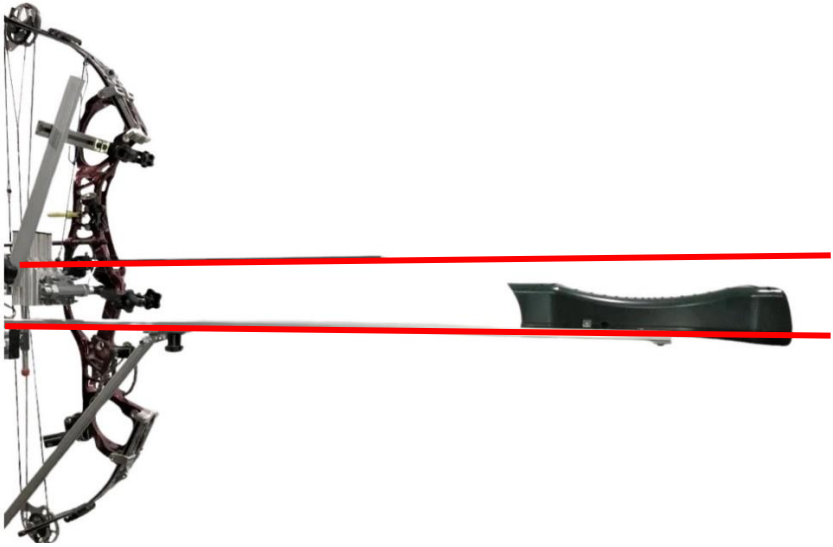
If your limb stops are in the way you may want to remove them. Set the Bowsmith's Pro over-draw stop while your bow is at full draw and before going any further.

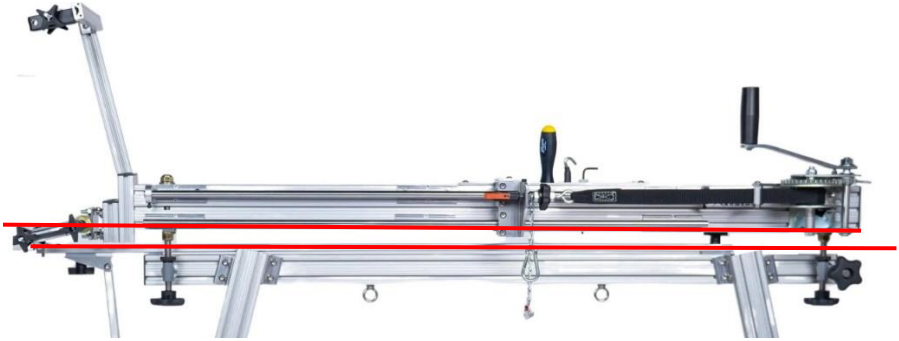
Chronograph

To use your chronograph, remove the paper holder and install the holder as shown in the picture. The flat bar should be installed from the bottom.

Make sure your arrow is above the chronograph. Bracket is stowed on the side of the paper holder.

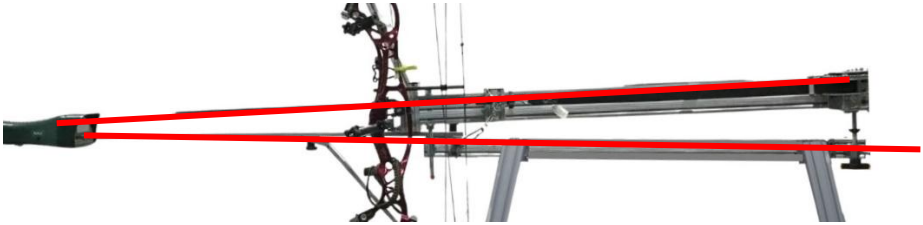
Slide the holder all the way out and lock it in place.
DO NOT lift the chronograph as you tighten the knobs as this could raise it to a dangerous level. It should look like the picture.





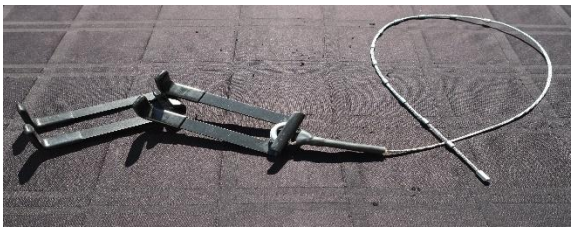
Your machine should look like this both rails parallel.

Do not do this.



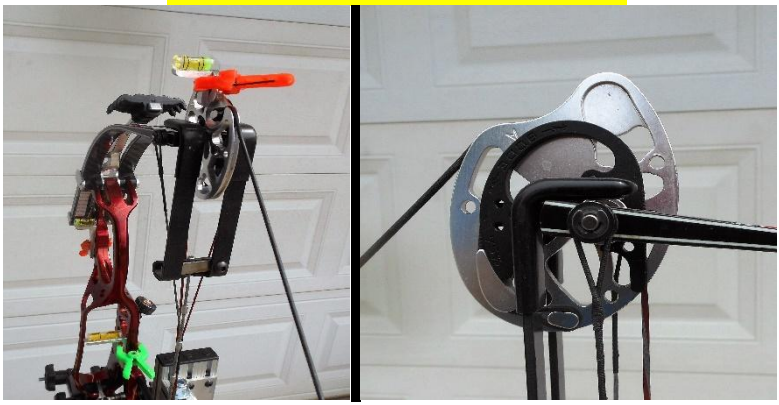
Do not adjust the back of your bow up as seen in picture above.
You will shoot your chronograph!
Follow your chronographs directions and you should get excellent results.

Another useful tool is a Bowmaster cable press or our custom-made limb retainers.



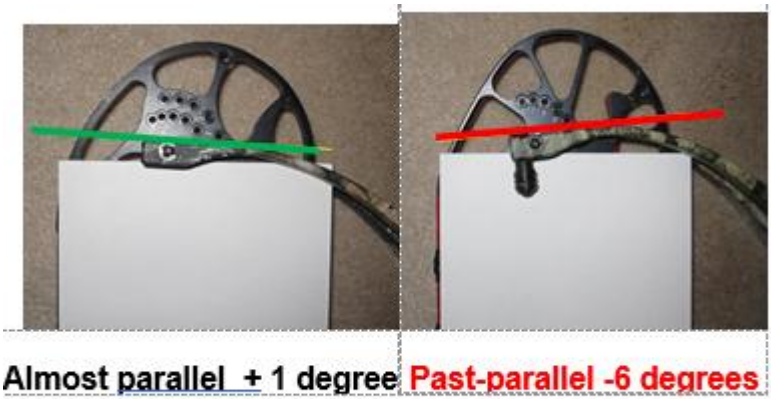
You only need a couple of inches of a draw to apply.

Do not use at full draw!



These retainers were designed to be used with the Bowsmith Pro but work well on any Draw Board. Extreme caution must always be used! Never put your face near the cams or put your fingers in the cams while the clamps are on.

Do not use bows with extreme curl like the Bear Carnage.



Almost Parallel versus Past Parallel

The Bow Master L clamps can possibly slip off when used on past parallel limbs greater than 6 degrees. Use caution whenever using the Bow Master L clamps on any bow.

Draw your bow just enough to fit the Bow Master L Brackets onto your bow. Set the L brackets in place and adjust the cable for the proper fit.

Set up and use for bow hooks

Scan QR code with your phones camera to access video.

Scan for store for all options

I'm always interested in hearing from users who have found new ways to use our machine. Please drop me a line at

coopsbowsmith@gmail.com
Good shooting, Coop
(815)-325 -9128

OWNER _____

MAKE AND MODEL _____

FACTORY SETTINGS	ACTUAL BEFORE TUNE
AXEL TO AXEL ____	_____
BRACE HEIGHT ____	_____
DRAW LENGTH _____	_____
DRAW WEIGHT _____	_____
LIMB BOLT SETTING _____	_____
PEEP HEIGHT _____	_____
SIGHT RADIUS _____	_____

TUNED SETTINGS

AXEL TO AXEL ____

BRACE HEIGHT ____

DRAW LENGTH _____ D- LOOP _____

DRAW WEIGHT _____

LIMB BOLT -TOP _____ BOTTOM_____

PEEP HEIGHT _____

SIGHT RADIUS _____

TILLER + - BOLT TURN TOP_____ BOTTOM _____

ARROW Shaft_____ WEIGHT _____

SPEED/ CHRONOGRAPH _____

OWNER _Vern Coop_____

MAKE AND MODEL _2014 Hoyt pro comp, gtx-2, 75%

FACTORY SETTINGS ACTUAL BEFORE TUNE

AXEL TO AXEL 36-15/16 37-1/8

BRACE HEIGHT __7-15/16__ ___8___

DRAW LENGTH _-26.25__ 25.75 D-loop- 26.25

DRAW WEIGHT 40-50_ _47_

LIMB BOLT /TILLER top_ 2.25 bottom_ 1.75

PEEP HEIGHT static 5-7/16_ full draw _4___

TUNED SETTINGS

AXEL TO AXEL __37__

BRACE HEIGHT __8__

DRAW LENGTH __25.75___ D- LOOP _26-1/8th_____

DRAW WEIGHT __47____

LIMB BOLT -TOP __2_____ BOTTOM ___2_____

PEEP HEIGHT __5-7/16____

SIGHT RADIUS __32.125_____

TILLER + - BOLT TURN TOP__0___ BOTTOM ___0__

ARROW Shaft_____ WEIGHT _____

SPEED/ CHRONOGRAPH _____

Now with your bow shooting good from the machine, it's time for you to shoot the bow. Concentrate on trying to use your best form. If you have good form your shots should duplicate that of the machine. And you should be shooting bullet holes. If you are getting major tears, contact a coach and have him check your form and adjust if needed.

For small imperfections, about the diameter of your shaft, no adjustment is needed as it is common for your form to move around a touch until you become as good as your favorite pro.

I am a good shot, and it is typical for me to have a slight left tear one day and a slight right a few days later. It's important that you know your bow is correct!

Remember we all have good and bad days. Don't start tweaking your bow because you're having a bad day.