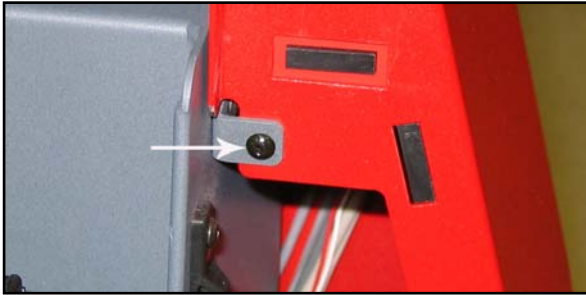


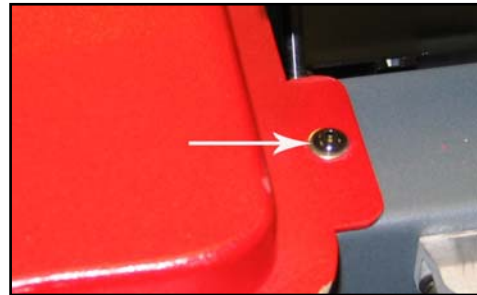
### **X Axis Arm Squaring**

- 1) Turn on your Red Dot Pointer.
- 2) Using the top ruler as your guide, move the Focus Carriage from the right side of the table to the left side of the table. Does the Red Dot Point stay on the edge of the ruler from right to left? If not, proceed to step 3.
- 3) Home the XY axis.
- 4) Power system off.
- 5) Facing the front of the system, remove the 2 button head screws on the left side of system.

Front Door



Rear Door















- 6) Lower the left side cover.
- 7) Facing the rear of the system, remove the cover from the location in Figure 1.



- 8) Loosen the locking screw Figure 2.
- 9) Rotate the drive gear (making sure the drive shaft does not spin) toward you if the Red Dot Pointer runs off of the ruler and away from you if the Red Dot Pointer runs on the ruler.
- 10) Test until squaring meets your approval.
- 11) After Arm Squaring has been completed, you must perform the Beam Alignment procedure.

## Alignment Mode

Used for performing beam alignment and to test for max power.

1. Remove the lens kit from the focus carriage by removing thumb screws.
2. Using masking tape, tape over the beam entrance hole on left side of carriage.
3. Press  then  to access the System Options Menu.
4. Scroll down to Alignment Mode, press  to select.
5. A screen will appear with defaults of 5% power and 2 KHz and Both for laser option.
6. If changes need to be made to the default settings, press  to edit, then using the arrow keys  select which setting you wish to edit. Press  to confirm.
7. Press  to return to the previous window.
8. Using the arrow keys , move the carriage to the upper left corner.
9. Press  to fire the laser, press again to stop firing the laser. Fire the laser only long enough to discolor the tape.
10. Using the arrow keys , move the carriage to the lower right corner.
11. Press  to fire the laser, press again to stop firing the laser. Fire the laser only long enough to discolor the tape.
12. Both burns should be overlapping and in the center of the tape.
13. If not, make adjustment to the #2 mirror assembly until 2nd burn covers the 1<sup>st</sup>.
14. Press  to quit. Motion will return home.