



EPILOG LASER

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Procedure Title: FiberMark Alignment.

Machine Type: FiberMark Laser Engraver

Tools Required: Masking Tape
Alignment Target
3/32 Hex or Allen wrench

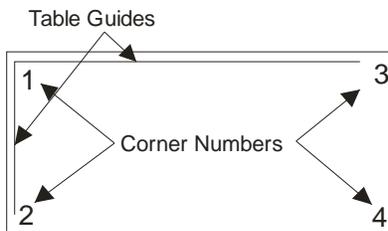


WARNING:

UNDER NO CIRCUMSTANCES ARE YOU TO ATTEMPT TO OPERATE THE FIBERMARK LASER ENGRAVER WITH THE SAFETY INTERLOCKS DEFEATED, THE SIDE PANELS OR THE FRONT DOOR REMOVED. SERIOUS, PERMANENT EYE DAMAGE MAY OCCUR.



1. Install the Alignment target in the lens carriage
2. Turn on the Red Dot pointer.
3. Depress the “X-Y Off” button on the control panel.
4. Depress the Go button, the carriage can now be moved around the table.
5. The alignment will be performed based on the distance of the lens carriage from the laser source. The diagram below, diagram 1, shows the order that the corners will be tested.



6. Move the lens carriage to the left rear corner (position 1) of the engraver. The diagram
7. Check to see if the Red Dot is centered on the target. The Red dot on the FiberMark is quite large. Center it as best you can on the target. Unfortunately, the red dot image does not photograph well. The picture below, picture 1, is a good representation of the size of the red dot on the target.



Picture 1

8. Remove the left hand side panel, as you face the machine from the front.

9. In left rear of the machine, there is a small orange box. This box is the periscope. Installed in the periscope are two mirrors. An upper and a lower.
10. If the Red Dot is not centered on the target, use the lower periscope mirror and the adjustment diagram shown in picture 2 to move the red dot pointer to the center of the target.



Picture 2*

***The White Dot denotes the screw that is being turned and the white arrow indicates the direction that the screw is turned. The image to the right, with the white arrow across the target indicates which direction the red dot will move**

11. Move the lens carriage to the left front of the engraver.

12. Using the Upper periscope mirror and the diagram shown in picture 3, adjust the mirror so that the Red Dot pointer is centered on the alignment target as in picture 3.



Picture 2*

****The White Dot denotes the screw that is being turned and the white arrow indicates the direction that the screw is turned. The image to the right, with the white arrow across the target indicates which direction the red dot will move***

13. Move the lens carriage back to position 1 to verify that the alignment has not changed. If it has moved, complete steps 49 through 53 again, until there is little change in the red dot position when you move from the front to the back.
14. Move the X-axis rail to the rear of the engraver.
15. Check to see if the Red Dot pointer is on the target. Adjust as necessary to move the Red Dot image to the center of the target.

16. Move the lens carriage to the right, watching the position of the Red Dot, if it moves off of the target, stop; move the lens carriage back and adjust so the red dot is in the center of the target. Otherwise move the lens carriage to the far right hand side of the engraver, and adjust so that the Red dot is in the center of the alignment target.

17. One last time, with the Target in place and the Red Dot pointer on, move the lens carriage to the outer limits of the table, making sure that the Red Dot image stays in the center of the target.

If you have any questions please call Epilog's Technical Support

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