



EPILOG LASER

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Procedure Title: Replacing the Linear Rail Assembly

Machine Type: Legend EXT

Tools Needed: Large Philips head screw driver
3/32 Allen wrench
5/32 Allen wrench
7/64 Allen Wrench
Torx Screw Driver with 3/32 hex bit

Intro:

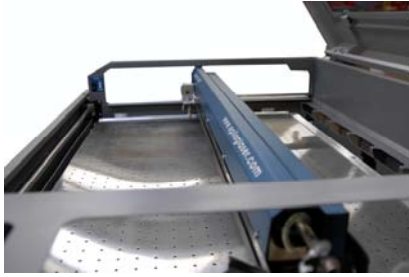
This procedure details steps to replacing the X-axis bearing set. The bearing set is the race and bearing bracket that guides the X-Axis carriage assembly from left to right. Before starting on this procedure, disconnect the power cord from the machine.

Procedure:

1. Remove both side panels.



2. Bring the X-beam to the center of the engraving table.
3. Remove the blue cover on the I-beam. This cover is attached to the I-beam by five hexagonal screws in the front and five Philips head screws in the back.
 - a. Use the 7/64 Allen wrench to take out the front screws.



Front of I-Beam

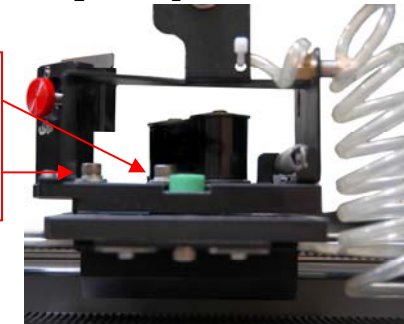
- b. There are several different Philips head screws in the back of the I-beam. Only remove the screws directly attached to the I-beam. The smaller screws found in the center and the left side of the I-beam can be left alone.



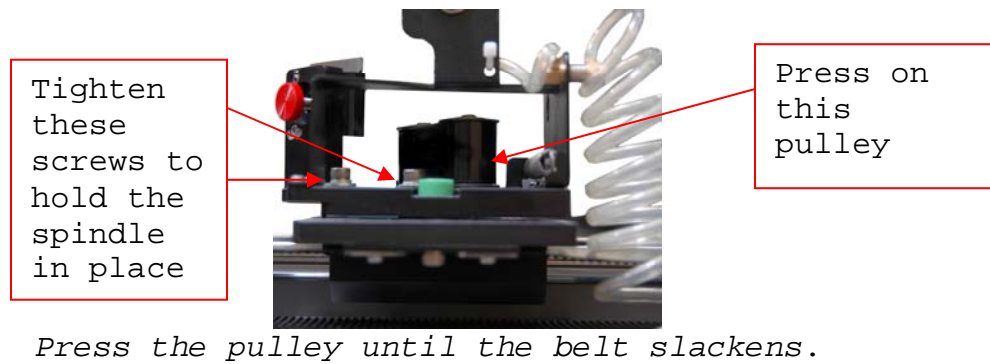
Back of I-beam

4. Slacken the belt by loosening the two screws holding the belt pulley.

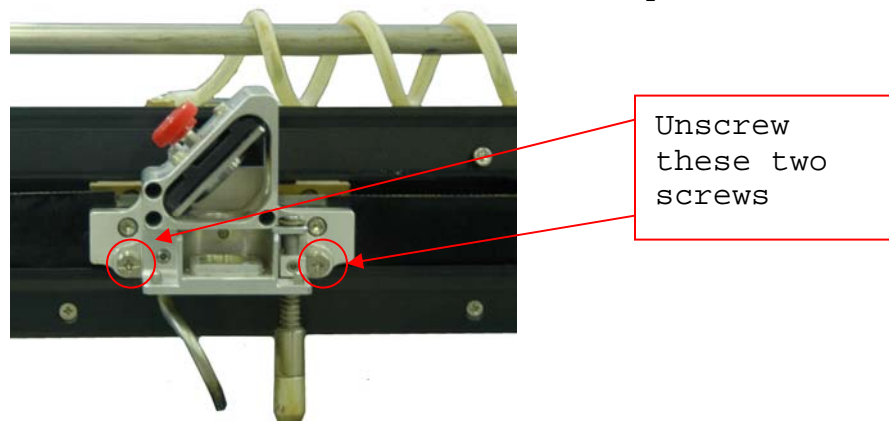
Use these two screws to adjust the pulley



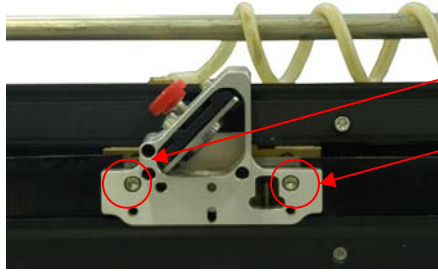
5. With the thumb, press hard on the pulley farthest right. Still pressing on the pulley, tighten the two screws that were loosened in step 8.



6. Remove the lens module assembly.

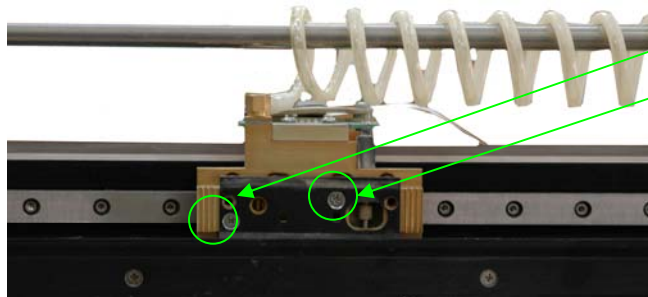


7. Remove the lens clamp assembly.



Using a 7/64
Allen wrench,
remove these
screws

8. Place the belt ends away from the X-beam. Do not remove the belt from the X-beam.
9. Remove the black bracket.



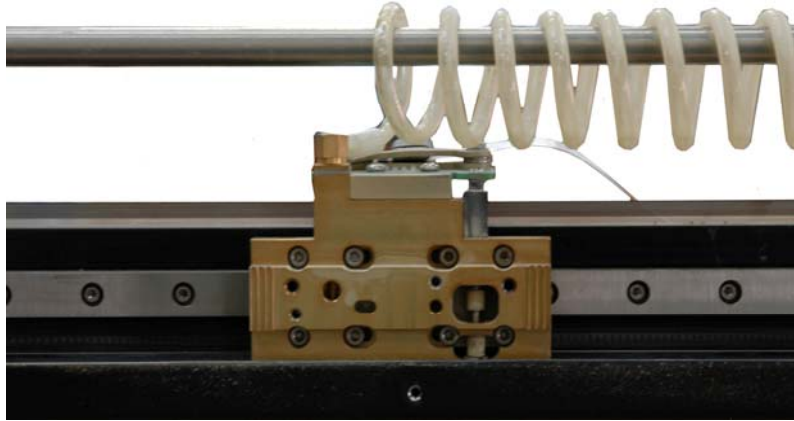
Remove
these two
screws

10. Remove the bottom X-Axis belt guard.



Remove these nine screws

11. Remove the X-Axis Carriage base plate.



Use a 3/32
Allen wrench
to remove
the eight
hex screws

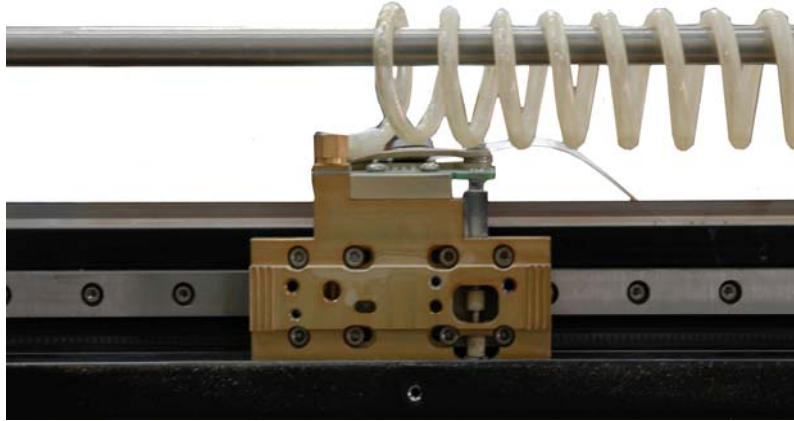
12. Remove the 42 3/32 hex screws holding the mirror.



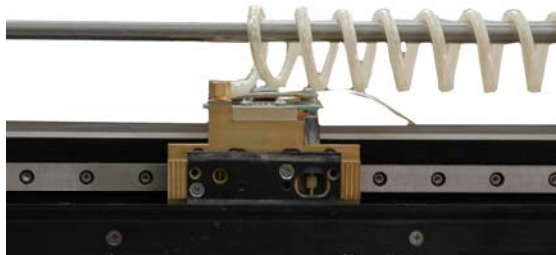
13. Replace the rail with a new rail. While tightening the 42 3/32 hex screws, press down on the rail gently.

14. Torque the 42 3/32 hex screws.

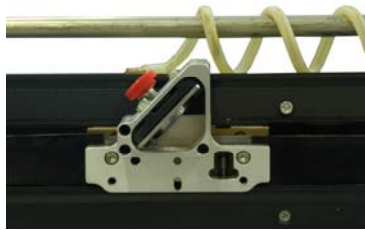
15. Replace the X-Axis carriage base plate



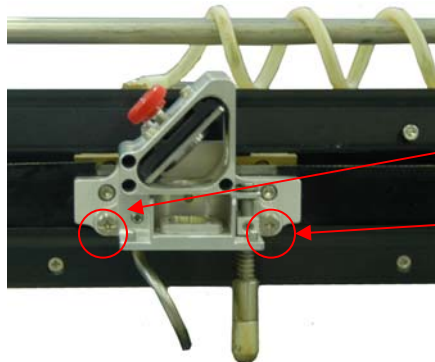
16. Replace the black bracket



21. Replace the lens clamp assembly. Put the belt ends into the side of the clamp then tighten the two hex screws on the clamp.



17. Replace the lens module assembly.

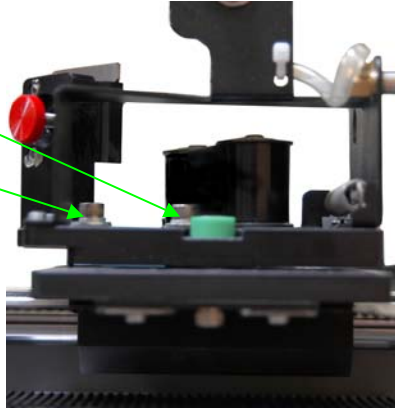


Tighten
these two
screws

18. Tighten the X-beam belt. Loosen the two screws on the right side of X-beam and allow the pulley to

snap back. Gently pull on the pulley and simultaneously tighten the two hex screws.

Use these
two screws
to adjust
the pulley



19. Replace the blue X-beam cover.
20. Slide the lens assembly along the rail to ensure smooth movement.
21. Replace the side panels.

If you have any questions, please contact Epilog's
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