



EPILOG LASER

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Procedure Title: Replacing the X-Axis belt

Machine Type: Legend 36EXT

Tools Needed:
5/32 Allen wrench
7/64 Allen Wrench
Philips head screw driver

Intro-

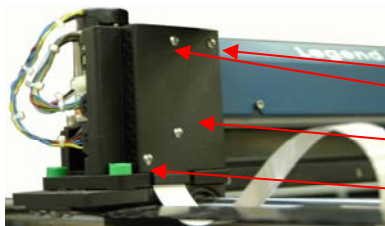
This procedure details steps to replace the belt that carries the laser head. These belts may get worn out and must be replaced for optimal performance from your machine.

Procedure:

1. Remove both side panels.

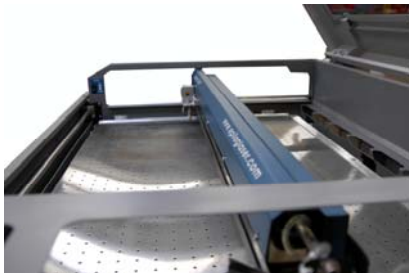


2. Bring the I-beam to the center of the engraving table.
3. Take off amplifier cover-found on the left side of the I-Beam.



Unscrew
the
four
screws

4. 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.



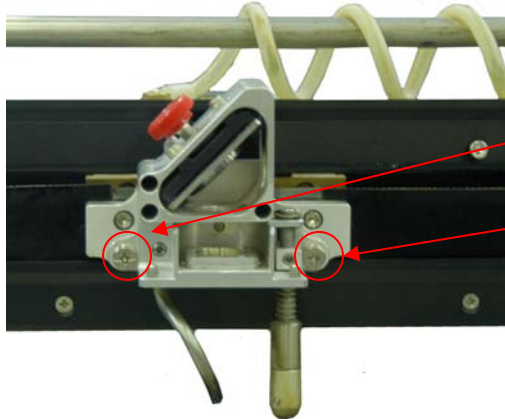
Front of I-Beam

- 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

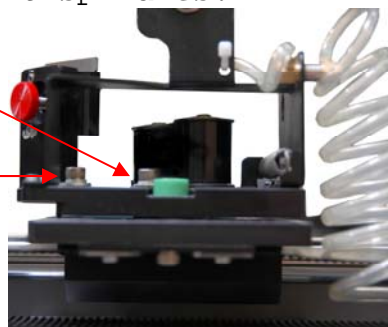
5. Remove the laser head



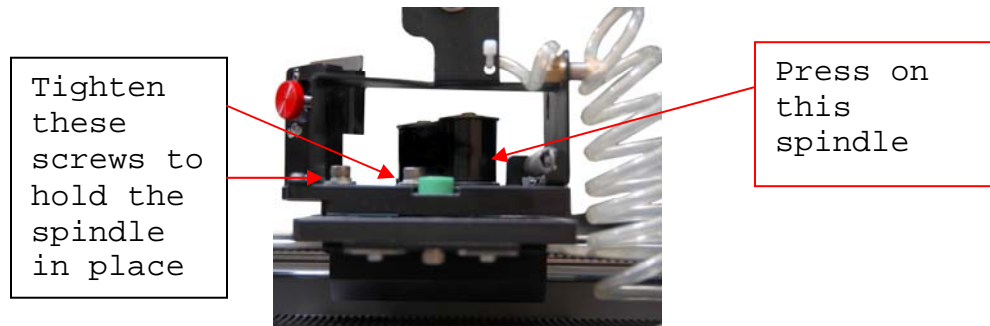
Unscrew
these two
screws

6. Slacken the belt by loosening the two screws holding the belt spindles.

Use these two
screws to
adjust the
spindle

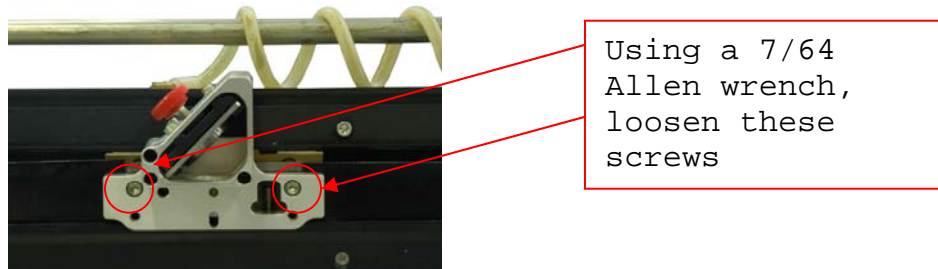


7. With the thumb, press hard on the spindle farthest right. Still pressing on the spindle, tighten the two screws that were loosened in step 8.

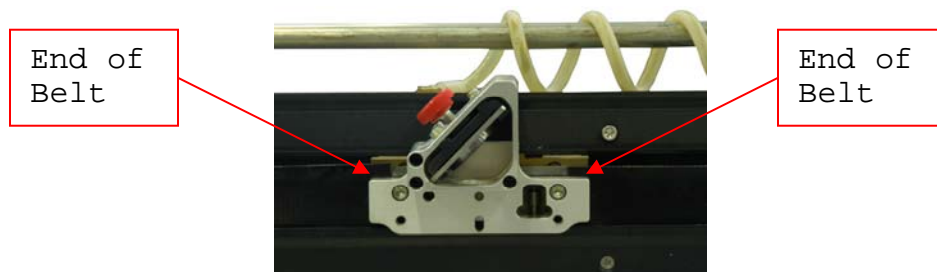


Press the spindle until the belt slackens.

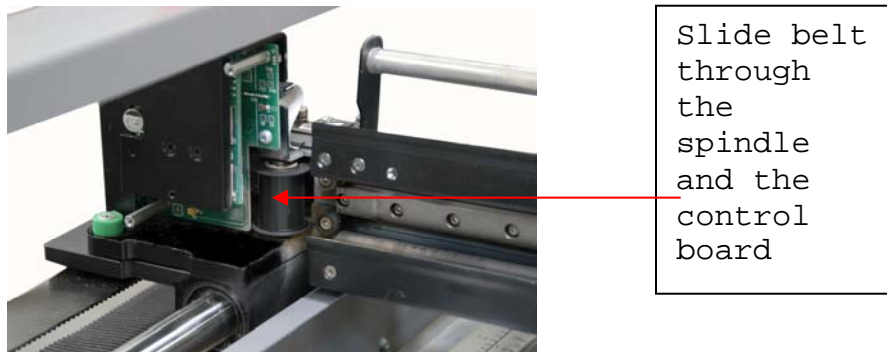
8. Locate the ends of the belt connected to the laser head. The belt is held by a clamp of two hexagonal screws. Loosen these screws.



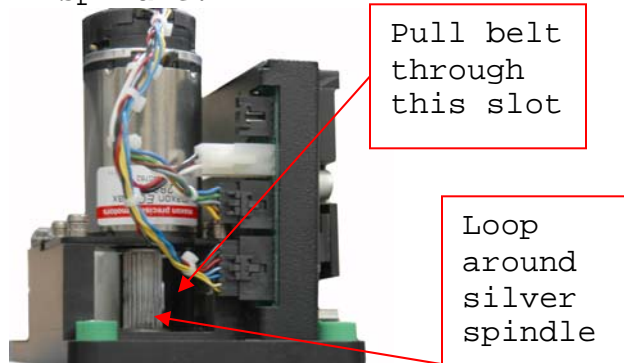
9. Pull the belt ends up and out of the clamp. By pulling on one end of the belt slowly, the belt will come out.



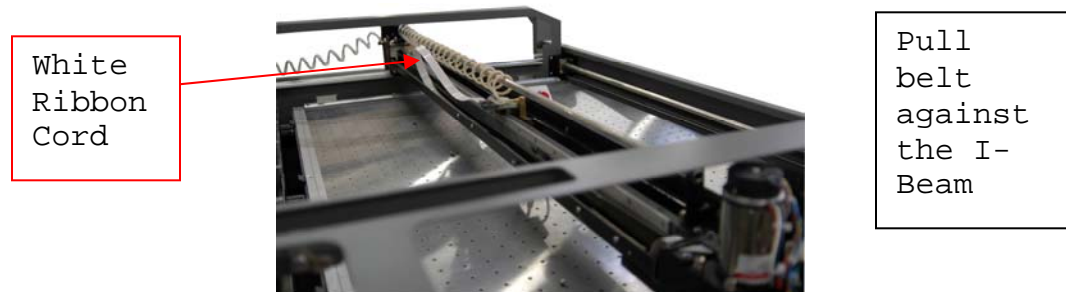
10. Take a new belt and make sure the grooves are towards the inside of the machine.
11. Put the left end of the belt through the left side of the I-beam.
 - a. The belt should go between the black spindle and the control board.



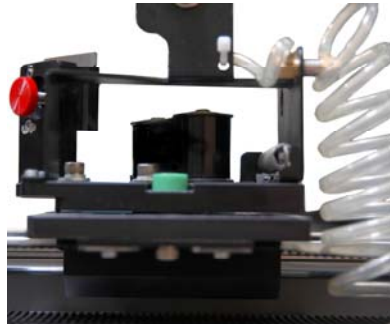
- b. Push the belt through the motor covering, making sure the belt loops around the silver spindle.



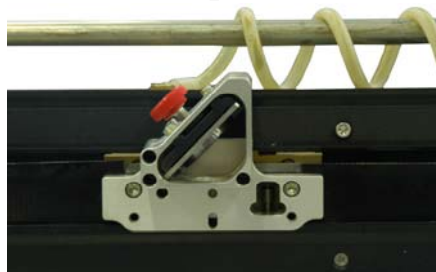
- c. Pull the belt close to the I-beam, making sure to pull the belt to the inside of the white-red ribbon cord.



- d. Loop the belt around both of the black spindles and back toward the laser head.

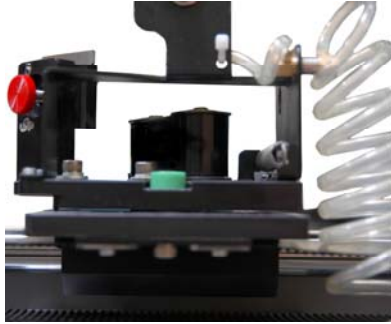


- e. Put each end into its respective end of the clamp, twisting the hexagonal screws to tighten the clamp.



12. Loosen the screws holding the right side pulley, letting the belt become tight. When the spindle

returns to its furthest back position, tighten the screws.



13. Put I-Beam cover back on. The cover does not need to fit snugly on the screws, rather, while screwing in the front of the cover, raise the edge up a little so the hexagonal screws do not hinder the movement of the laser head. To make sure the screws do not hinder the laser head, slide the laser head back and forth along the I-beam after the cover is fully mounted. If the edge of the laser head hits a screw, loosen the front of the cover, lift the cover a little and retighten the screws.

14. Replace amplifier cover

15. Put back side panels

If you have any questions, please contact Epilog's
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