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**Procedure Title:** X Motor Replacement

**Machine Type:** Legend 36EXT

**Tools Needed:** 5/32 Allen wrench  
Philips Head Screw Driver

**Intro:**  
This procedure details steps to replacing the x motor.

**Procedure:**

1. Remove both side panels.

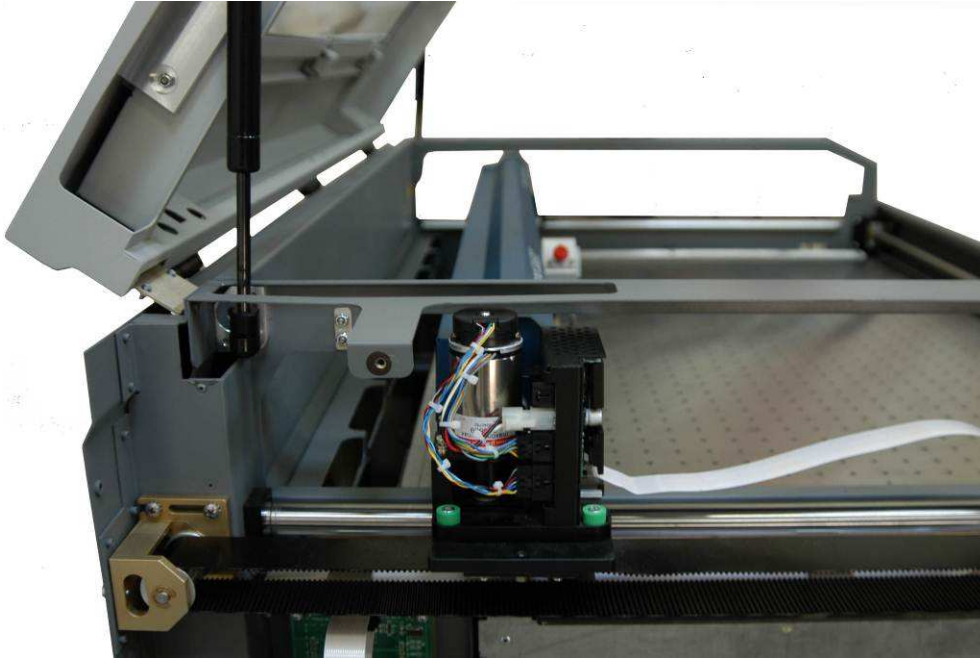


*Right Side*

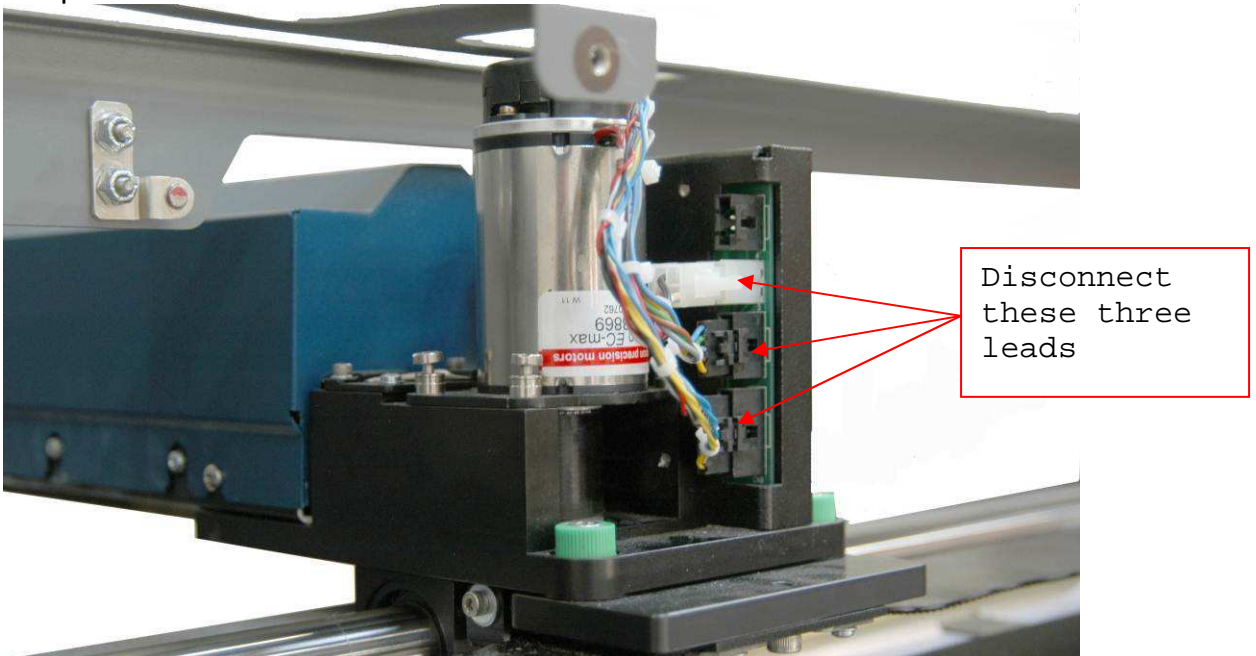


*left Side*

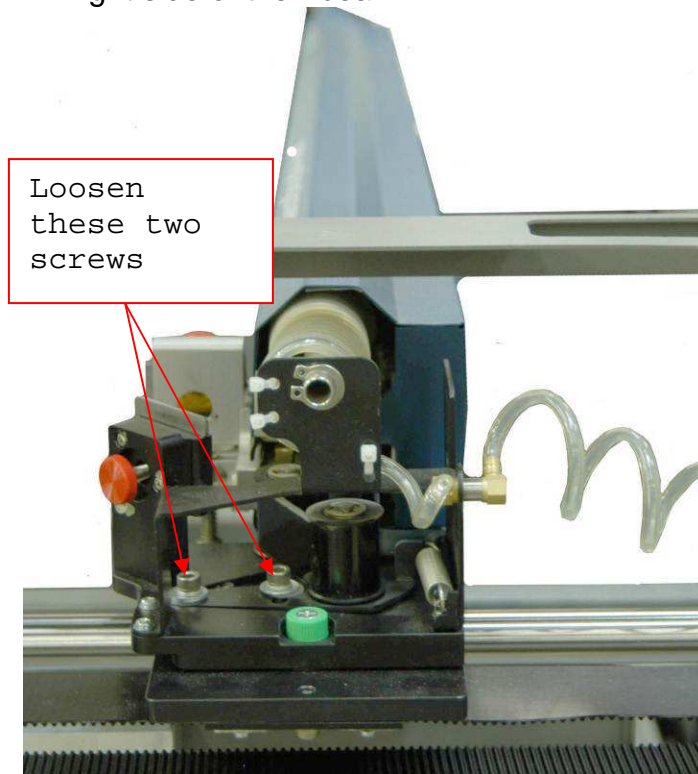
2. Push the I-beam until it is perpendicular to the opening on the left side of the machine.



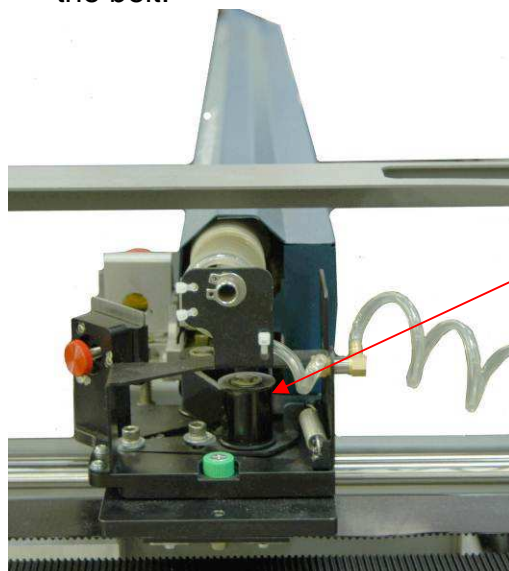
3. Disconnect the three leads connected to the motor that are shown in the picture below.



4. Loosen the I-Beam belt
  - a. Using a 5/32 Allen wrench, loosen the two screws found on the right side of the I-beam.

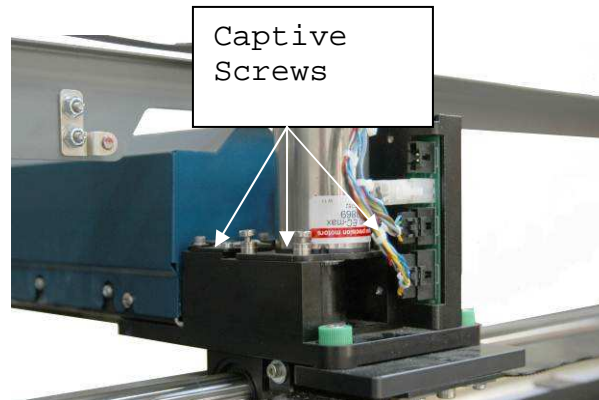


- b. Push the black spindle toward the left side of the machine, making sure that the belt is slack while tightening the two screws. Tightening the screws will hold the spindle in place while replacing the belt.

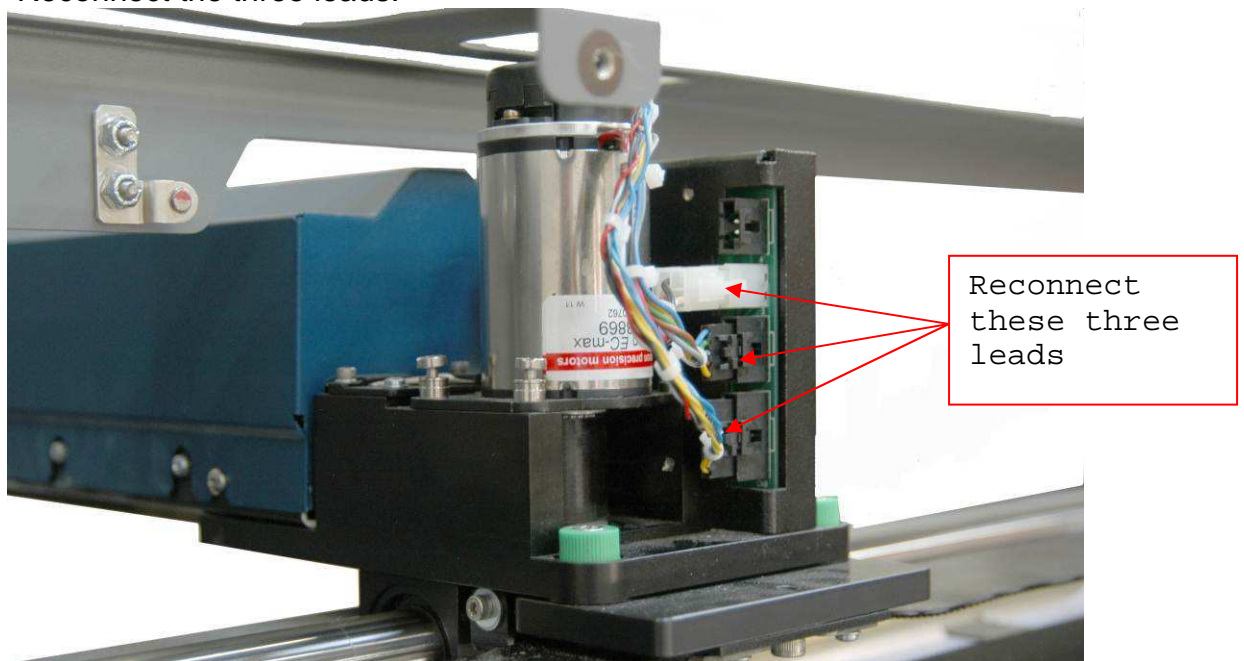


Push this spindle to the left to release the belt.

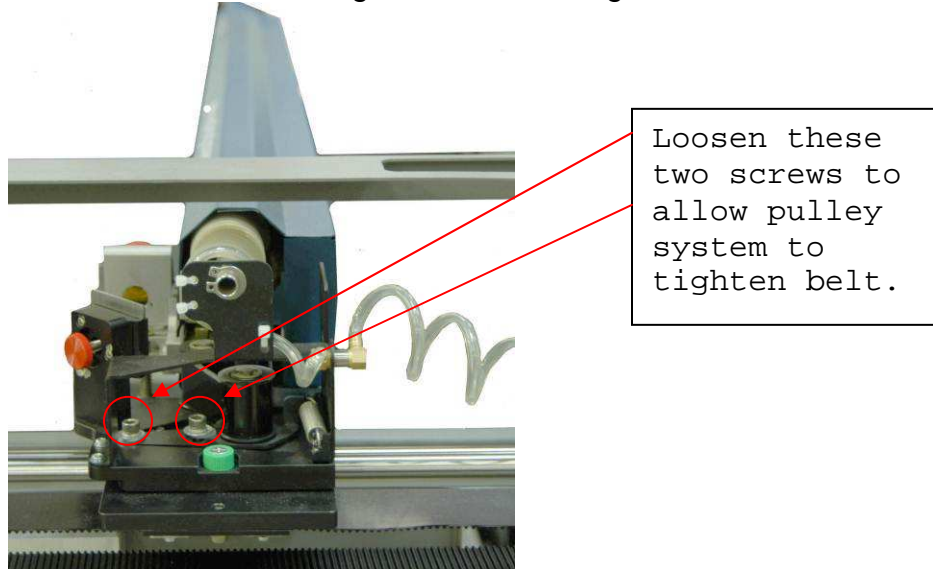
5. The X-motor is held in place by four captive screws; loosen these screws to remove the motor.



6. Remove the X-axis motor from the machine.
7. When installing the new motor, make sure that the belt loops over the silver spindle attached to the motor. This is an important step, if not installed properly; you will not be able to properly tension the x-axis belt.
8. Tighten the 4 captive screws.
9. Reconnect the three leads.



10. Tension the x-axis belt. .
  - a. Loosen the two hexagonal screws using the 5/32 Allen wrench.



- b. Make sure the pulley system snaps into place—the belt should be tight.
    - c. Move the lens carriage to the right and left a few times to ensure proper belt tension and to ensure that it is fully seated.
    - d. Tighten the two hexagonal screws.
11. Replace the two side panels.
12. Re-connect the machine to its power source.
13. Start the machine and verify that it completes its startup sequence.

This completes the X-axis motor replacement process for an EXT laser engraver.

If you have any questions, please contact Epilog's Technical Support @

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