



## EPILOG LASER

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**Procedure Title:** Replacing the X-motor

**Machine Type:** FiberMark

**Tools needed:** #1 Philips head screw driver  
Wire Snips

### Intro:

This procedure details the process of replacing the X-motor on the FiberMark. The X-motor moves the lens carriage on the X-Axis assembly from left to right.

### Procedure:

1. Unplug the machine from its power source.
2. Remove both side panels as shown in pictures 1 & 2.

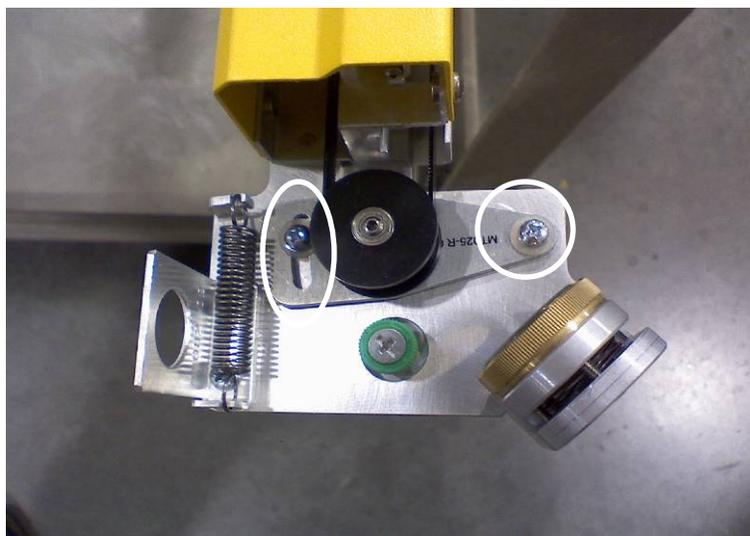


Picture 1  
Right side of machine



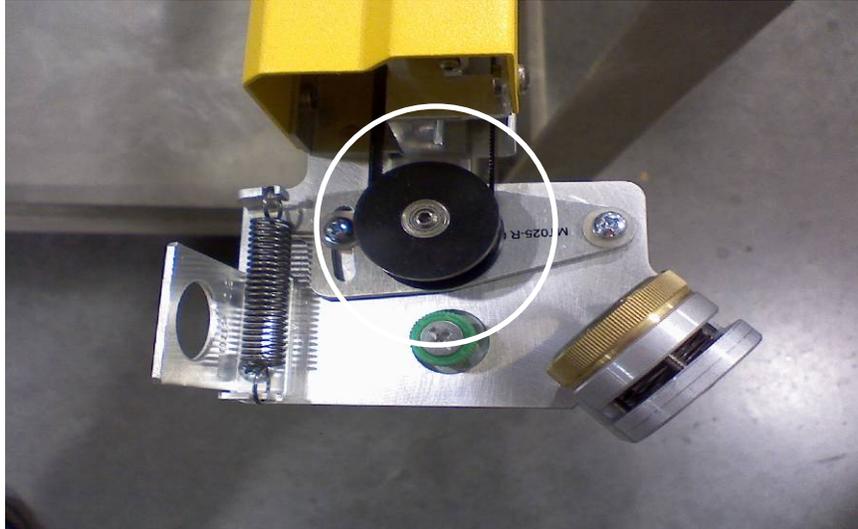
Picture 2  
Left side of machine

3. Pull X-Axis Assembly (Arm) to the center of the machine.
4. On the left side of the I-beam, as you face the machine from the front, there is a black pulley. Locate the two Phillips screws which secure the pulley mounting bracket. One of the screws has a curved slot around the screw, the other does not. Refer to picture 3 for the location of these screws. Loosen, but DO NOT remove them completely.



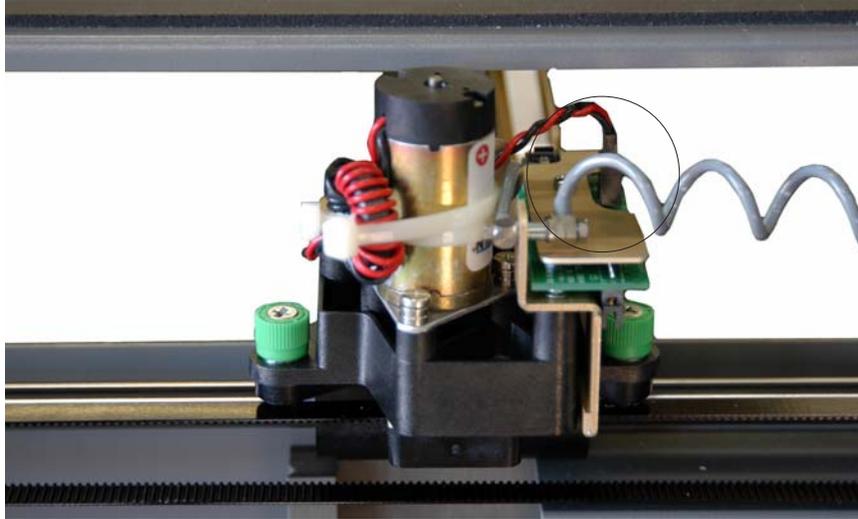
Picture 3

5. Push the black pulley (Picture 4) toward the right side of the machine and retighten both of the screws. Tightening the screws will keep the pulley in place and the tension off of the X-belt while we replace the motor.



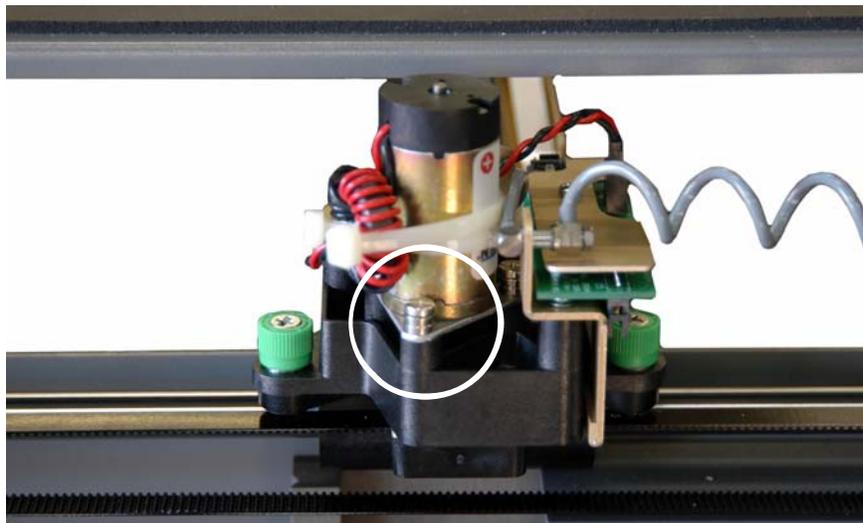
Picture 4

6. Directly to the rear of the X-motor is the electrical connection for the X-Motor. This connection is held in place by a lock. If you depress the center of the lock, the connection can be lifted from the connection. The location of the electrical connector is shown in picture 5. Remove this connection by depressing the lock on the connector and lifting up on the connection.



Picture 5

7. Located around the X-Motor there are three captive screws. One is shown in picture 6. Loosen all three screws.



Picture 6

8. Remove the motor.

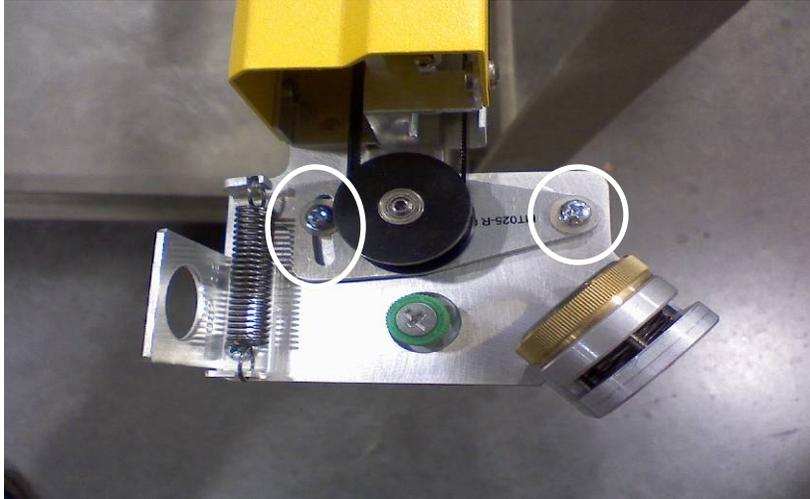
## Installing the new motor

9. With your index finger, pull the belt and loop the belt around the silver pulley as shown in picture 7



Picture 7

10. Make sure the belt is centered on the pulley
11. Place the motor into the motor bracket
12. Tighten the three captive screws around the motor.
13. Reconnect the electrical connector (red and black twisted wires).
14. Loosen the two pulley screws on the left side of the I-beam, as shown in picture 8, then move the lens carriage head back and forth three or four times. This will help to seat the belt. Tighten down the screws.



Picture 8

15. Replace side panels.
16. Restart the engraver.

This completes replacing the X-axis motor in your FiberMark laser engraver.

If you have any questions, please contact Epilog's  
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