



EPILOG LASER

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Procedure Title: Replacing the Z-motor

Machine Type: FiberMark

Tools Needed:

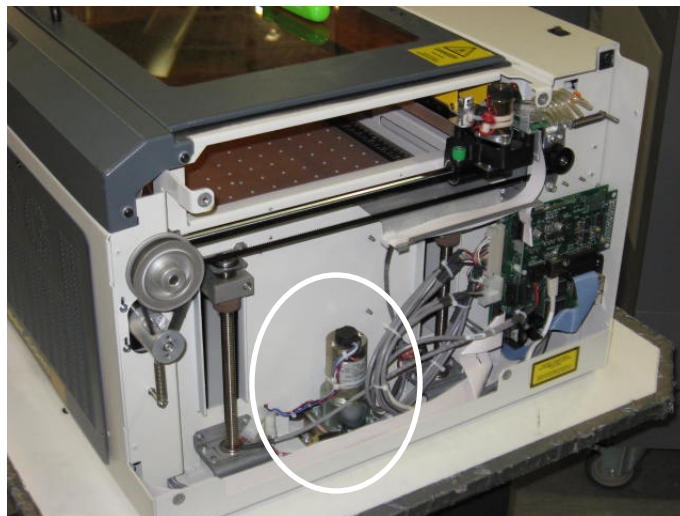
- #1 Philips head screw driver
- 5/16 Nut Driver
- 3/32 Hex wrench
- Wire Cutters
- Pencil

Intro:

This procedure details steps to replacing the Z-motor. The Z-motor drives the Z-belt, which controls the engraving table up and down.

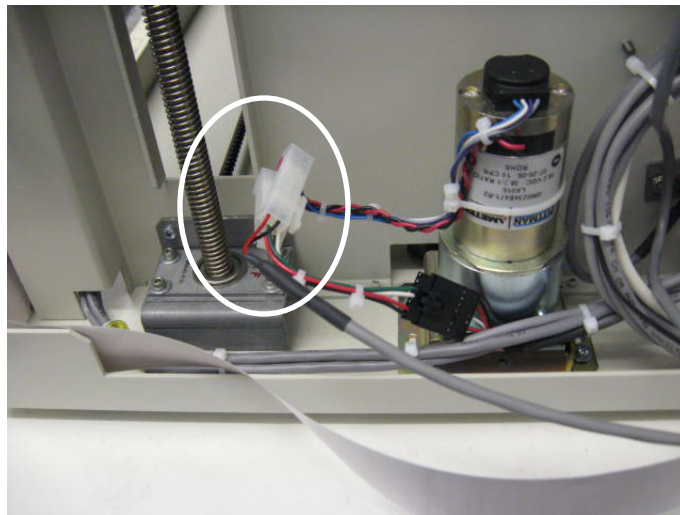
Procedure:

1. Raise the table as far as it will go in the machine.
2. Disconnect the machine from the power source.
3. Remove the right side panel. Picture 1 illustrates the location of the Table or Z-motor.



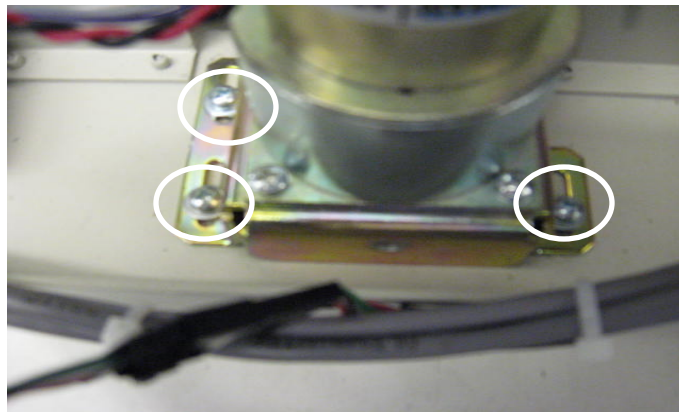
Picture 1

4. There are two white connectors on the wires that come from the z-motor and connect to the main harness. The connectors are shown in picture 2. Disconnect both connectors from the main harness.



Picture 2

5. There are three Philips head screws (identified by the circles) which secure the motor assembly to the machine chassis. There are adjustment slots around each of the mounting screws. The belt needs to be at certain tightness in order for the motor to work properly. Therefore, before removing the motor assembly, obtain a pencil and place a small mark on the chassis to indicate the location of the motor mount before it was removed. See Picture 3



Picture 3

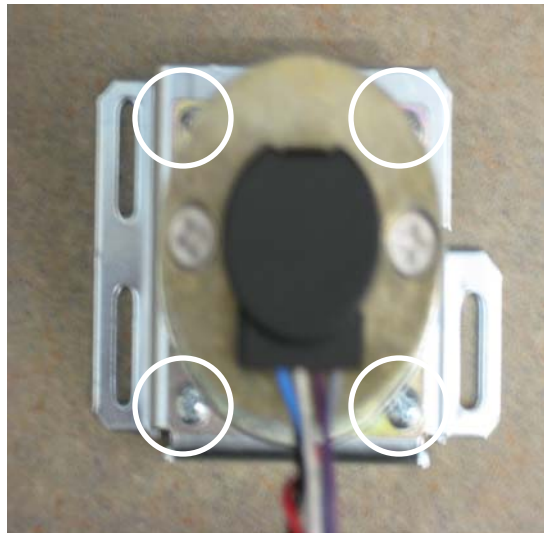
6. Once you have removed the three Philips screws, and slip the belt off of the pulley that is underneath the motor then the whole motor assembly will come out.

7. We now have to remove the bracket and pulley from the motor to get the motor completely out of the assembly.
8. To remove the pulley you will need to loosen the set screw with an 3/32 Hex wrench. See picture 4 below to see where the set screw is located.



Picture 4

9. Now we're ready to remove the bracket. To remove the bracket, remove the four Phillip screws. The bracketed Look at the arrows on Pic#5 and see the location of the screws



Picture 5

10. Install the motor on the bracket and tighten the 4 Phillip head screws.
11. On the motor shaft there is a flat spot that has been machined in to the shaft. This flat spot is intended for the set screw. The pulleys set screw needs to be positioned over the flat spot on the shaft. When the set screw is tightened, the flat spot keeps the pulley from spinning on the shaft. Tighten the set screw.
12. Position the new motor assembly in the machine. Remember to slip the belt around the pulley. Make sure the belt is squarely on the pulley.

13. Loosely install the three Philips screws.
14. Line the motor mount up with the marks that you made before the mounting screws were removed and tighten the mounting screws.
15. Reconnect the two white motor connectors to the main harness.
16. Replace the side panel.

This completes the Z-motor installation. Start the engraver and ensure proper operation.

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