

G LASER

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Machine Type: Zing Engraver

Procedure: Replacing the Table Motor

Tools Required: #2 Phillips screw driver & Standard (Flat Head) screw driver

Note: A majority of this procedure will be done with the machine tipped on its left side so that you can access the table motor from the bottom of the machine. Please allow for adequate workspace when doing this procedure.

1. Disconnect the machine from its power source.
2. Remove the power cord from the machine.
3. Loosen the captive screws shown in picture 1

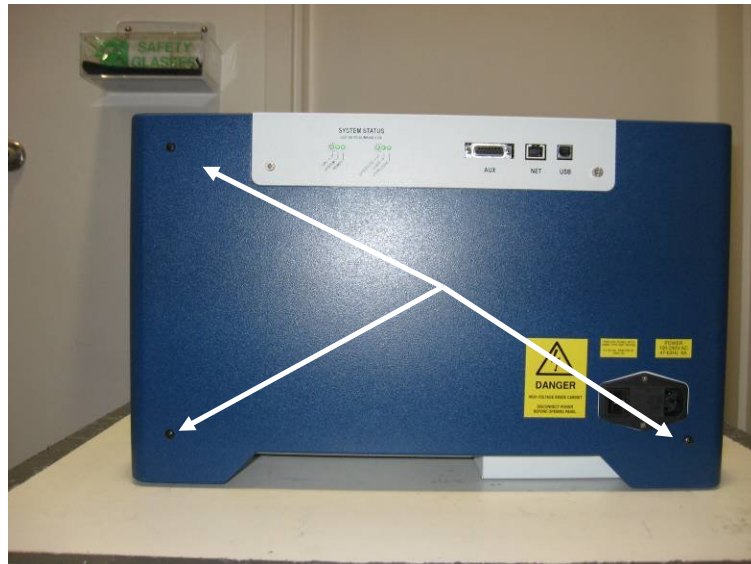


Picture 1

4. Remove the control/display assembly from the machine by grasping the captive screws and pulling the control board/display assembly toward you as shown in picture 2.



5. Remove the three screws shown in picture 2a and the one screw shown in picture 2b



Picture 2a



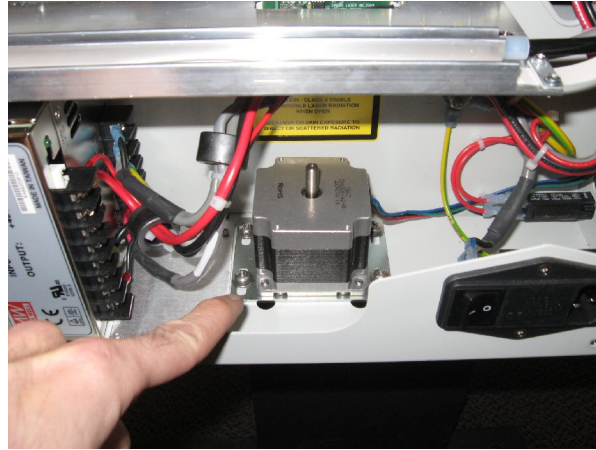
Picture 2b

6. To remove the right hand side cover, lift up on the bottom of the cover and pull toward you as shown in picture 3, and lift up.



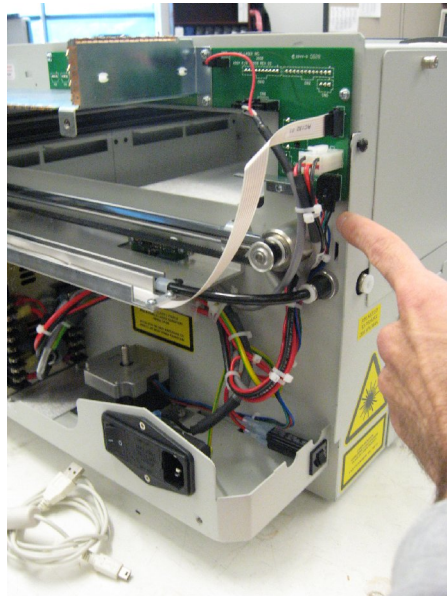
Picture 3

7. Locate the table motor as shown in picture 4 below and loosen the 4 Phillips head screws on the motor bracket. You only need to loosen these screws and not remove them from the machine.



Picture 4

8. Follow the wire harness from the motor and disconnect the harness from the computer board in the upper left corner on the right side as shown in picture 5 below. This harness is secured to other wires in the machine with zip ties. You must cut the zip ties to completely remove the motor from the machine.



Picture 5

9. Once the tensioning screws are loosened on the motor bracket and the motor harness is unplugged, you must now flip the machine onto its left side to access the bottom panel as shown in picture 6. Before doing this, tape the front door down with some masking or electrical tape as the

shocks will force the door open once on its side and if not careful, you can break the glass lid.



Picture 6

10. With the Standard (flat head) screw driver, remove the bottom panel by prying the panel from the chassis. The panel is held on with 6 black plastic securing pins. You will need to pry the panel away from the chassis, forcing the pins out of their holes. It is best to start from the top left and work your way down to the bottom left and then from the top right, working your way down to the bottom right as shown in pictures 7 and 8.

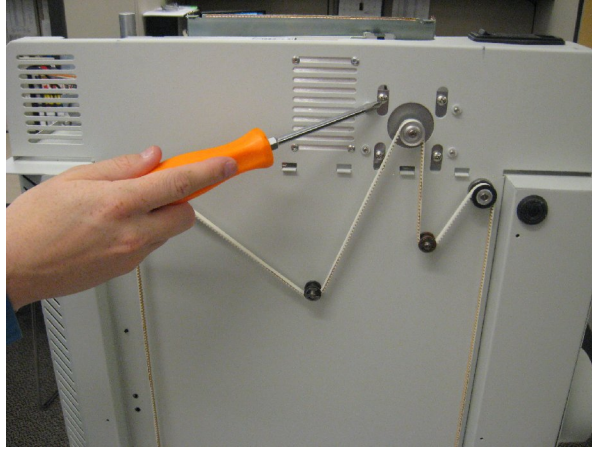


Picture 6 (Right side of Panel)



Picture 7 (Left side of Panel)

11. Once the panel is removed, you will see the 4 screws that secure the motor to the motor bracket. You will need to remove these screws as shown in picture 9.



Picture 9

12. Once the screws are removed, you can now maneuver the motor and pulley from the table belt and out of the machine. To install the new motor, you will put the motor with the attached pulley through the hole and around the belt as it was on the old motor. Once done, you will line up the screw holes for attaching the motor to the motor plate and tighten each screw down, securing the motor to the motor plate. (the same screws removed in step 10 of this tech note)
13. With the motor securely fastened to the motor plate, you will now reinstall the bottom panel using the replacement securing nuts that were included with the replacement motor. You will need to push the pins through the holes on the bottom plate and line them up with the corresponding holes in the chassis. Use the butt end of the screw driver to push the pins fully into place, securing the bottom panel to the chassis of the machine.
14. Tip the machine back onto its bottom and tighten down the 4 Phillips head screws that you loosened in step 7 of this tech note. Before you tighten the screws down, gently pull the motor to the right side of the machine, putting tension on the belt and as you are doing this, tighten one screw down to secure the motor in place, ensuring that proper tension is on the belt. Next, tighten the last 3 Phillips head screws down until secure.

15. Plug the motor wire harness into the computer board. This is the same harness that was unplugged in step 8 of this tech note. You can re-secure the harness to the other wires in the machine using zip ties. This is optional and not necessary for completion of this procedure.

16. Replace the side panel and the display/control board assembly as described in steps 3, 4 and 5 of this tech note.

17. Plug the machine in and turn it on. Press the focus button and using your arrow keys, confirm that the table is going up and down properly.

If you are still experiencing problems or have any questions about this procedure, please contact a Technical Support Representative at 303-215-9171 or email tech@epiloglaser.com