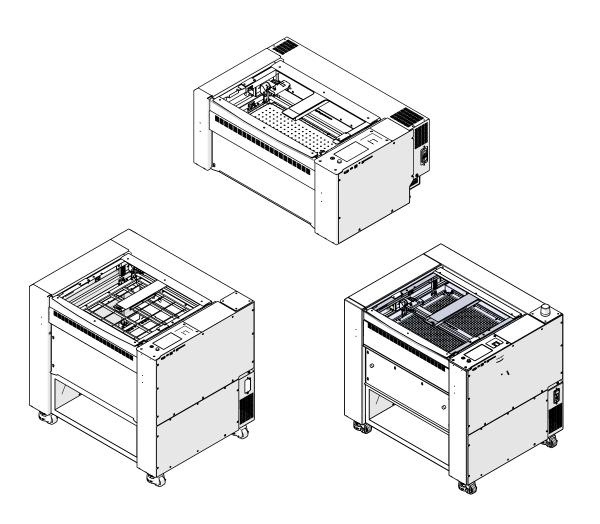


Lead Screw Replacement Fusion Maker - Fusion Edge - Fusion Pro 24 & 36



Parts Required

- RC0612 Lead Screw Assy Z Axis
 5/32" Allen Wrench

 - Some 24 x 12 tables
 LC0792 Assy, Lead Screw, Table
 Phillips Head Screwdriver
 9/16" Wrench
 - Some 24 x 12 tables, all 24 x 24 and 36 x
 11/16" Wrench 24 tables

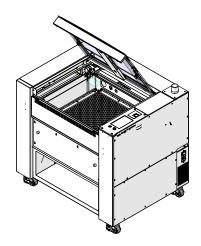
Tools/ Materials Required

- · Pencil or marker

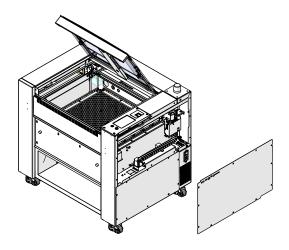
This procedure contains several steps for specific models which will be noted as such. If not noted for a specific model, steps apply to all models.

Lead Screw Removal

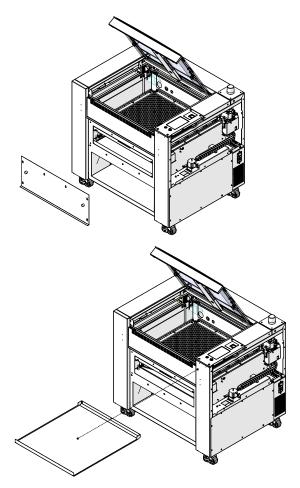
1. Turn the engraver on and use the Focus menu to lower the table to the middle of the cabinet:



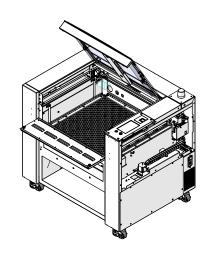
- 2. Turn off the engraver.
- 3. Disconnect the engraver from power.
- 4. Remove the right panel of the engraver:



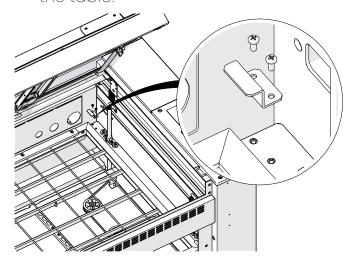
5. Remove the front access panel and the crumb tray of the engraver:



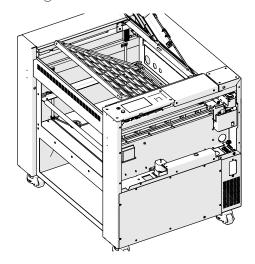
6. Pro only- lower the front drop down door:



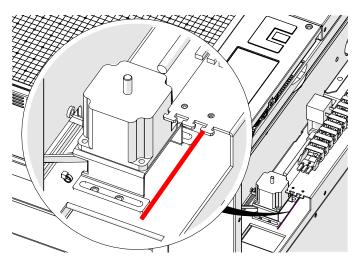
7. Edge and Maker only- loosen and remove the two (2) Phillips screws that secure the table clamps to the table support structure at each corner of the table:



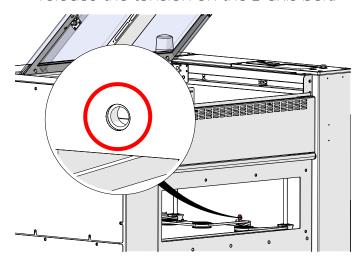
8. Lift the table up to clear the table locator pins then angle the front of the table upward and remove the table from the engraver:



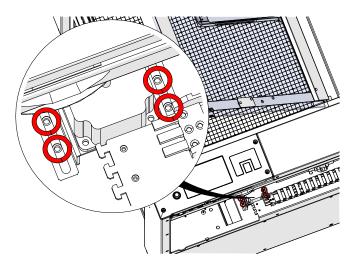
9. Using a pencil, make a mark on the engraver chassis that corresponds with the leading edge of the z-axis motor body. This will help to ensure the correct z-axis belt tension is applied when the new z-axis motor is installed:



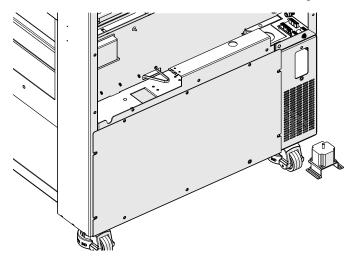
- 10. Disconnect the z-axis motor electrical harness.
- 11. Loosen, but do not remove the z-axis motor tensioner thumbscrew to release the tension on the z-axis belt:



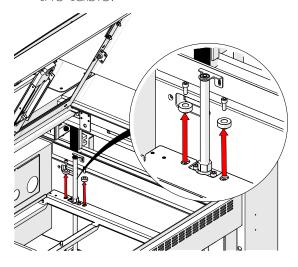
12. Loosen and remove the four (4) 5/32" Allen screws on the z-axis motor mount:



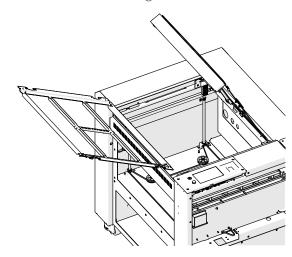
13. Remove the z-axis motor assembly:



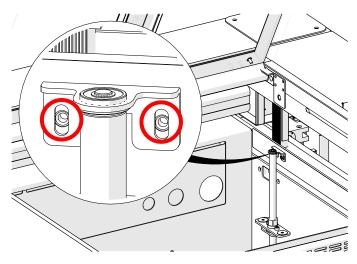
14. Loosen and remove the two (2) 5/32"
Allen screws and Delrin bumpers that secure the table levelers to the table support structure at each corner of the table:



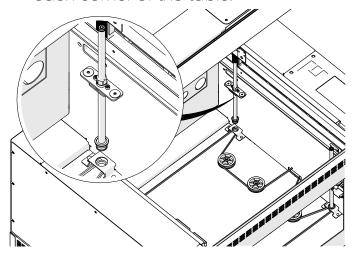
15. Pro only - Remove the table support structure from the engraver:



16. Loosen and remove the two (2) Phillips screws that secure the lead screws to the chassis of the engraver at each corner of the table:

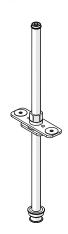


- 17. Remove the upper lead screw bracket at each corner of the table:
- 18. Remove the lead screw assembly at each corner of the table:

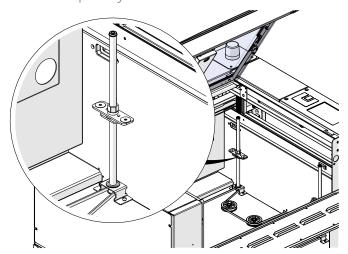


Lead Screw Installation

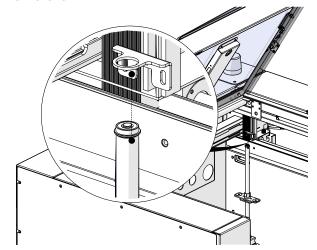
 Position the lead screw table support bracket in the middle of the lead screw assembly:



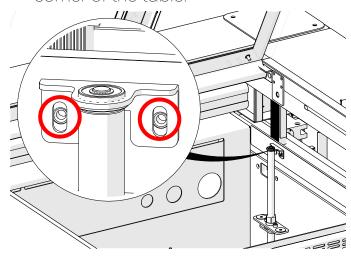
2. Install the lead screw assembly into the lower lead screw bracket at each corner of the table, ensuring that the z-axis belt wraps around the lead screw pulley:



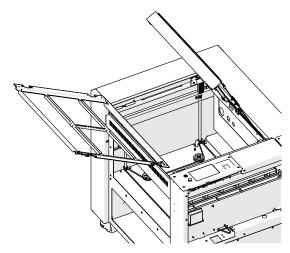
3. Install the upper lead screw bracket over the lead screw at each corner of the table:



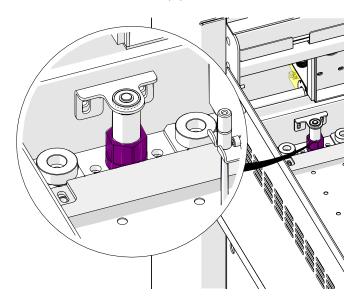
4. Install and tighten the two (2) Phillips screws that secure the lead screws to the chassis of the engraver at each corner of the table:



5. Pro only- Place the table support structure in the engraver:

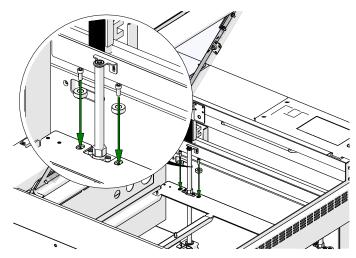


6. Use the 9/16" or 11/16" (depending on model) lead nut on the lead screw to level the table support structure:

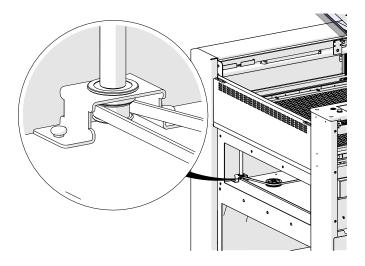


When leveling the table in step 6, choose a stationary point of reference in the cabinet of the engraver and adjust all lead screws to align with it.

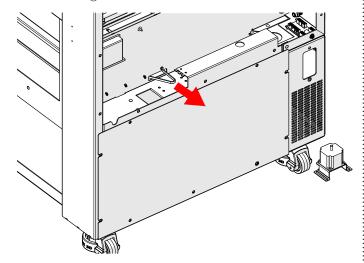
7. Install and tighten the two (2) 5/32" Allen screws and Delrin bumpers that secure the table levelers to the table support structure at each corner of the table:



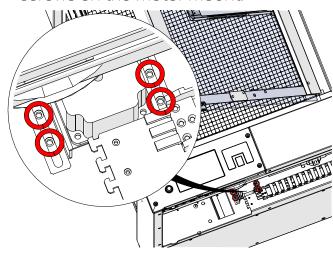
8. Inspect each lead screw pulley in the engraver to ensure that the z-axis belt has remained in place. If the z-axis belt has fallen below any of the lead screw pulleys, reposition the belt around the pulley:



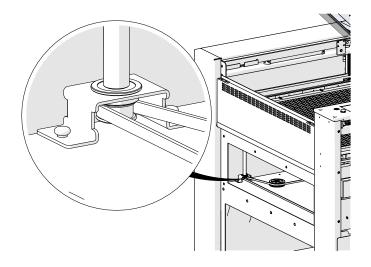
9. Pull the z-axis belt away from the machine to ensure that the belt wraps around z-axis motor drive pulley when installing the z-axis motor:



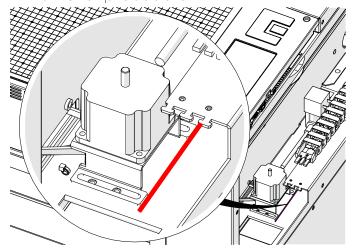
10. Place the z-axis motor into the z-axis motor housing and install, but do not fully tighten the four (4) 5/32" Allen screws on the motor mount:



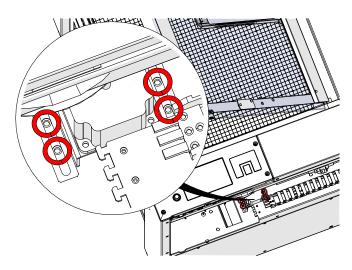
11. Inspect each lead screw pulley in the engraver to ensure that the z-axis belt has remained in place. If the z-axis belt has fallen below any of the lead screw pulleys, reposition the belt around the pulley:



12. Tighten the z-axis motor tensioner thumbscrew until the leading edge of the z-axis motor assembly is aligned with the pencil mark created in the removal procedure:

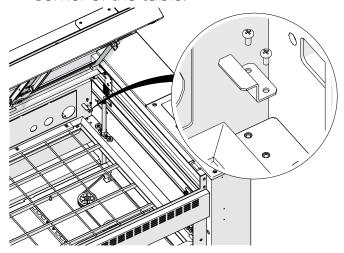


13. Tighten the four (4) 5/32" Allen screws on the z-axis motor mount:



14. Reconnect the z-axis motor electrical harness.

- 15. Insert the vector grid or raster table into the table support structure.
- 16. Edge only- Install the table clamps.
 Install and tighten the two (2) Phillips screws that secure the table clamps to the table support structure at each corner of the table:



17. Install the crumb tray, front access panel, and side panel of the engraver.

If further assistance is required, please contact Epilog Laser Technical Support by phone at 303-215-9171, or by email at tech@epiloglaser.com