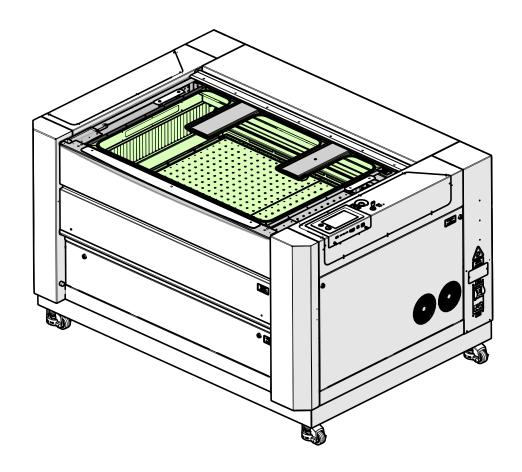


X-Axis Assembly Replacement Fusion Pro 32 & 48



Parts Required

- CS0400 Assy, X-Axis Rail, 32x20 · 5/32" Allen Wrench
 - Fusion Pro 32
- · CS1200 Assy, X-Axis Rail, 48x36 · Phillips Head Screwdriver
 - · Fusion Pro 48

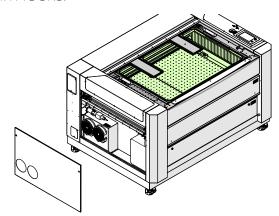
Tools/Materials Required

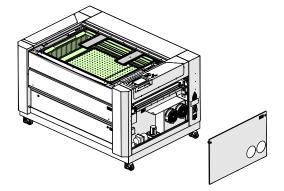
- · 5/16" Nut Driver

X-Axis Assembly Replacement

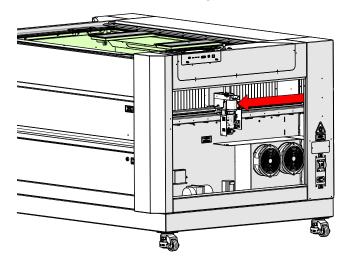
X-Axis Assembly Removal

- 1. Turn off the engraver.
- 2. Disconnect engraver from power source.
- 3. Remove the left and right panels of the engraver by loosening the 5/32" cam locks:

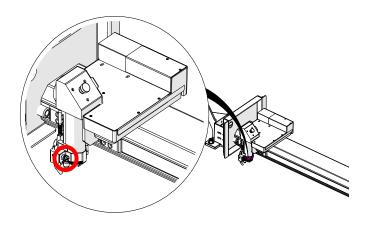




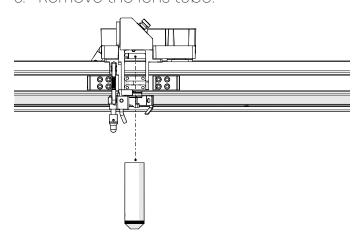
4. Manually move the x-axis assembly to the middle of the engraver:



5. Loosen the Phillips screw on the lens tube retaining collar. Make sure to hold the lens tube to ensure that it does not fall:



6. Remove the lens tube:

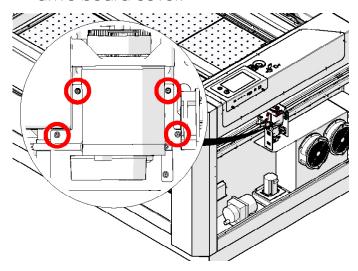


16000 - X-Axis Replacement

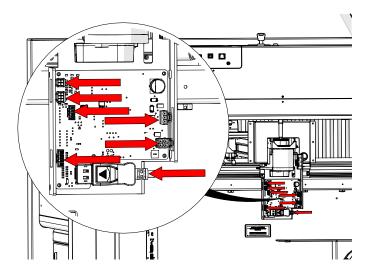
7. Remove the left and right bellows by loosening the six (6) 5/16" nuts and backing plate:



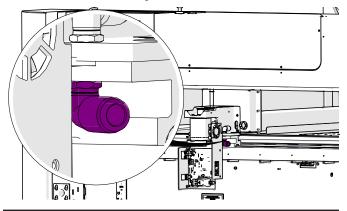
Loosen, but do not remove the four
(4) Phillips screws that hold the x-axis drive board cover:



- 9. Remove the x-axis drive board cover.
- 10. Disconnect the seven (7) electrical connectors from the drive board:

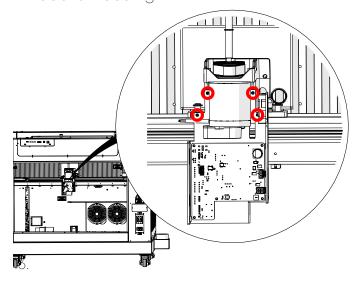


11. Disconnect the air tubing from the elbow connector at right side of the x-axis assembly:



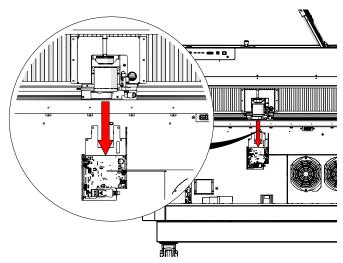
The air tubing is held by a retaining fixture. To remove the tubing, press the tubing into the fixture. Then, while holding the orange retaining ring tight to the fixture pull the air tubing away from it.

12. Loosen and remove the four (4) 7/64" hex screws that hold the x-axis drive board housing:

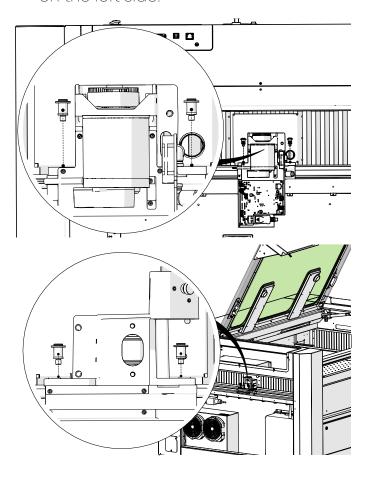


16000 - X-Axis Replacement

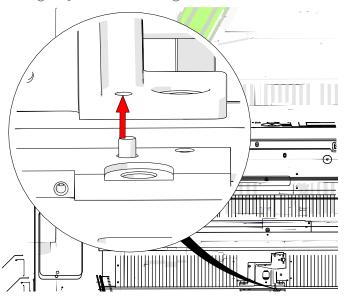
13. Remove the x-axis drive board housing:



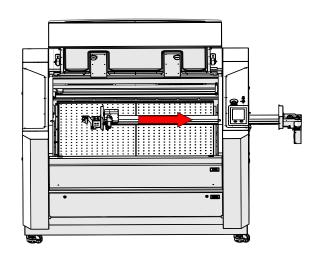
14. Remove and or loosen the four (4) 5/32" fasteners that secure the x-axis assembly to the y-axis bearings. There are two (2) on the right side and two (2) on the left side:



15. Lift the x-axis assembly upwards to clear the locator pins on the left and right y-axis bearing blocks:

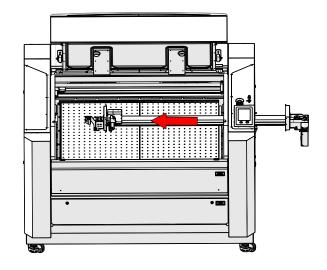


16. Slide the x-axis assembly out of the engraver through the right side:

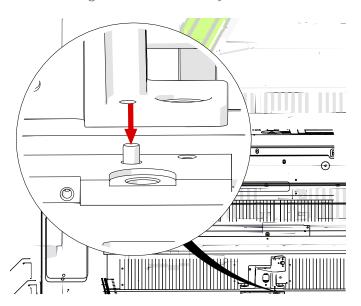


X-Axis Assembly Installation

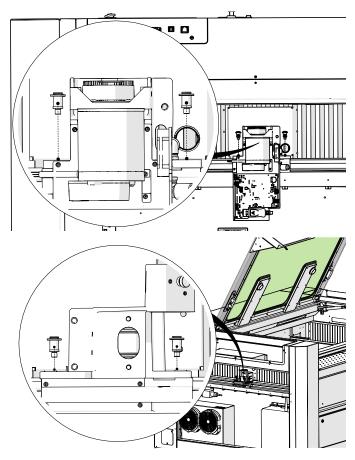
1. Slide the x-axis assembly into the engraver through the right side of the machine:



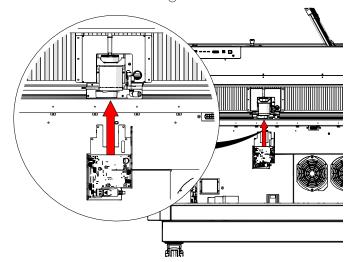
2. Place the x-axis assembly on the y-axis bearing blocks, ensuring that the locator pins enter the upper bearing block assembly:



3. Install and/or tighten the four (4) 5/32" fasteners that secure the x-axis assembly to the y-axis bearings. There are two (2) on the right and two (2) on the left side:

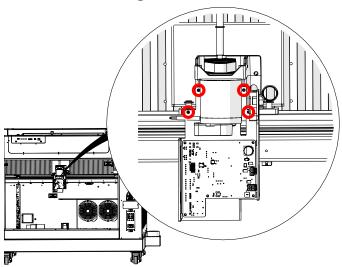


4. Position the x-axis drive board housing over the mounting holes:

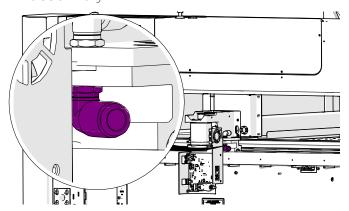


16000 - X-Axis Replacement

5. Install and tighten the four (4) 7/64" hex screws that hold the x-axis drive board housing:

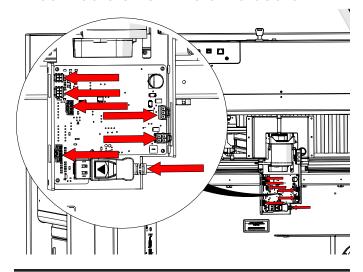


6. Reconnect the air tubing to the elbow fitting at the right side of the x-axis assembly:



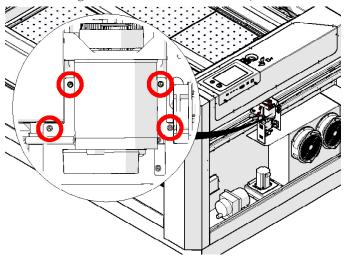
To reconnect the air tubing into the retaining fixture, simply insert the tubing into the collar. To ensure that it is securely connected, gently pull on the tubing.

7. Reconnect the seven (7) electrical connectors from the drive board:

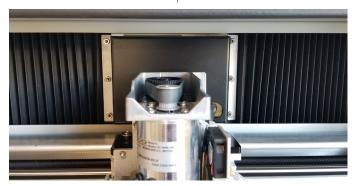


The electrical connectors on the drive board are all unique and will only fit into one receptacle.

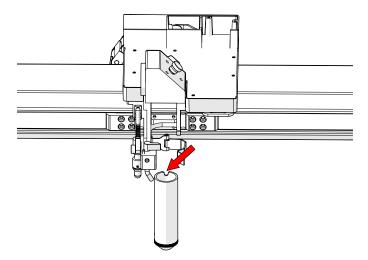
8. Install the x-axis drive board cover and tighten the four (4) Phillips screws:



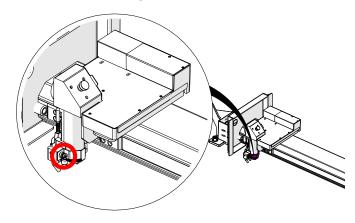
9. Install the backing plate and bellows. Install and tighten the six (6) 5/16" nuts that hold them in place:



10. Position the lens tube in the lens assembly, ensuring that the notch in the tube faces the rear of the engraver. Make sure to hold the lens tube after inserting to ensure that it does not fall:



11. Tighten the Phillips screw on the lens tube retaining collar:



- 12. Replace both the left and right panels of the engraver.
- 13. Reconnect to power and turn on the engraver.

Updates and Programming

The x-axis assembly contains many components, including circuit boards, cameras, and a motor. Further procedures are required.

Updating the Carriage Camera

1. On the display, press the gear icon to enter the Settings menu:





2. Press and hold the word "Settings" that appears at the touch of the touchpad to gain access to the Advanced Settings menu:



3. Enter the Diagnostics menu and scroll to the Camera tab. Press Test & Update:



4. Press Update:



5. Allow the engraver to complete the update. Once done, a success message will appear:



Updating the Peripherals

1. At the display panel, press the gear icon in the upper right-hand corner of the display to open the Settings menu:

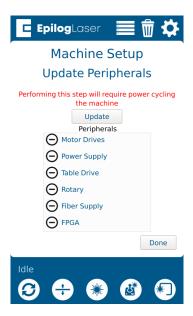




2. Press Program to enter the Peripheral Update menu:



3. Once in the Peripheral Update menu, select Motor Drives and FPGA. Press Update:



When running a peripheral update, do not power off the engraver. During a peripheral update it is common for the display to power off. Once the update has been applied, the engraver will prompt to restart.

4. Once the engraver prompts you to restart, power cycle the engraver.

After replacing the x-axis assembly, complete a full focus calibration and laser alignment.

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