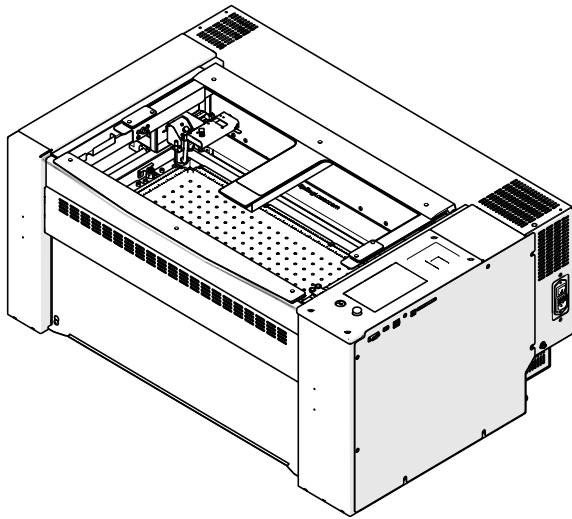


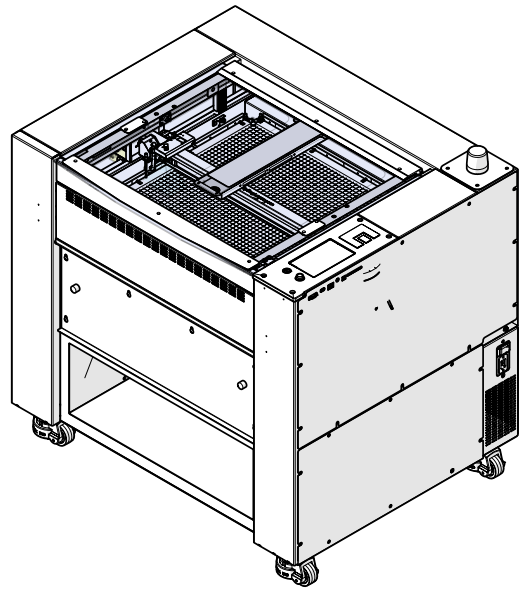
## X-Axis Assembly Replacement

Fusion Maker - Fusion Edge - Fusion Pro 24 & 36



### Parts Required

- X-Axis assembly for engraver model- refer to page 2 for part number and description



### Tools Required

- 5/32" Allen wrench
- Phillips head screwdriver
- Anti-static strap

# 17000 X-Axis Assembly Replacement

## Fusion Edge & Fusion Pro X-Axis Assembly Reference Guide

Model	Part Number	Description
Maker 12	LC1060-TS	Assy, X-Axis Rail, 24x12, Maker, TS
Edge 12 CO2	LC0485-TS	Assy, X-Axis Rail, 24x12, CO2, TS
Edge 12 Fiber	LC0486-TS	Assy, X-Axis Rail, 24x12, Fiber, TS
Edge 24 CO2	LC0970-TS	Assy, X-Axis Rail, 24x24, Edge, CO2, TS
Edge 24 Fiber	LC0971-TS	Assy, X-Axis Rail, 24x24, Pro, Fiber, TS
Pro 24 CO2	LC1034-TS	Assy, X-Axis Rail, 24x24, Pro, CO2, TS
Pro 24 Dual	LC1035-TS	Assy, X-Axis Rail, 24x24, Pro, Dual, TS
Edge 36 CO2	LC1056-TS	Assy, X-Axis Rail, 36x24, Edge, CO2, TS
Pro 36 CO2	LC1057-TS	Assy, X-Axis Rail, 36x24, Pro, CO2, TS
Pro 36 Dual	LC1058-TS	Assy, X-Axis Rail, 36x24, Pro, Dual, TS



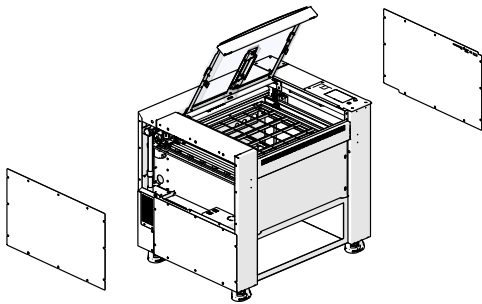
Fusion Maker engravers are not manufactured with the x-axis drive board referenced in this document. If removing the x-axis assembly in a Fusion Maker, disregard steps which reference the x-axis drive board.

# 17000 X-Axis Assembly Replacement

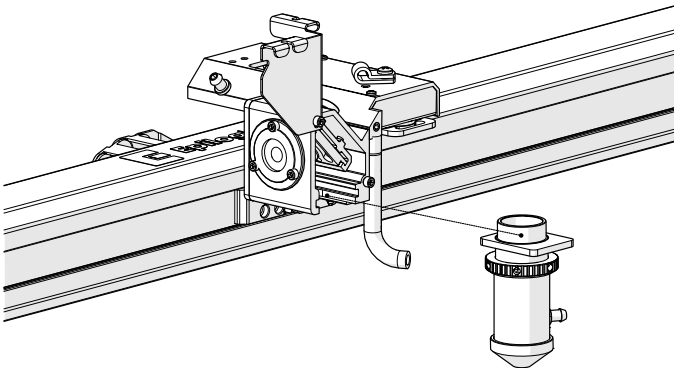
## X-Axis Assembly Replacement

### X-Axis Assembly Removal

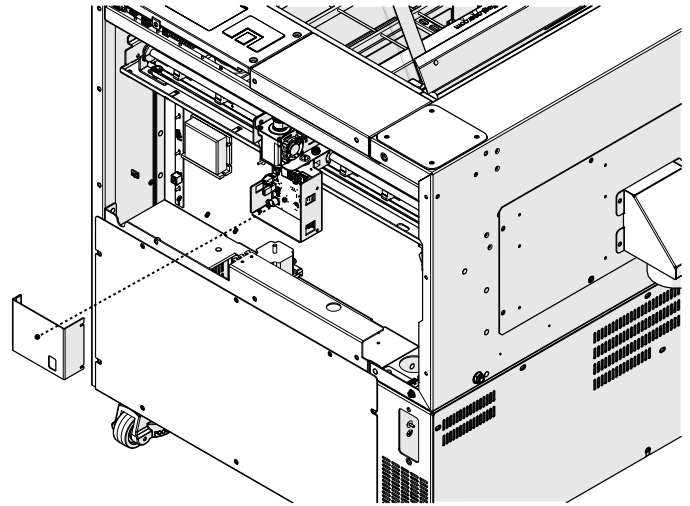
1. Turn off the engraver.
2. Disconnect the engraver from power source.
3. Remove the left and right panels of the engraver:



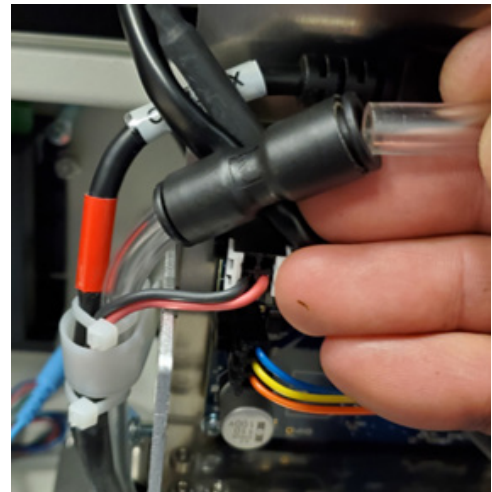
4. Loosen and remove the lens tube assembly from the x-axis assembly:



5. Remove the x-axis drive board cover:



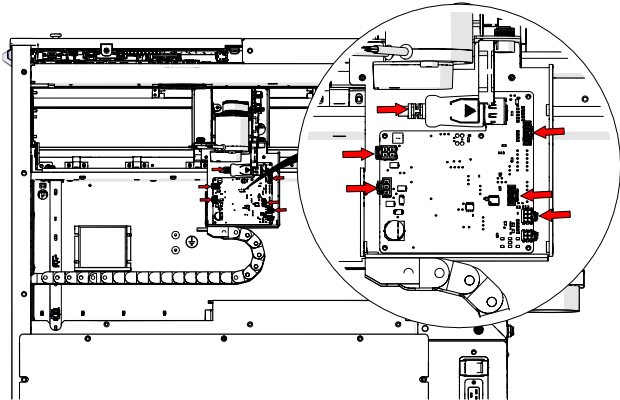
6. Disconnect the air assist tubing from the right side of the x-axis assembly:



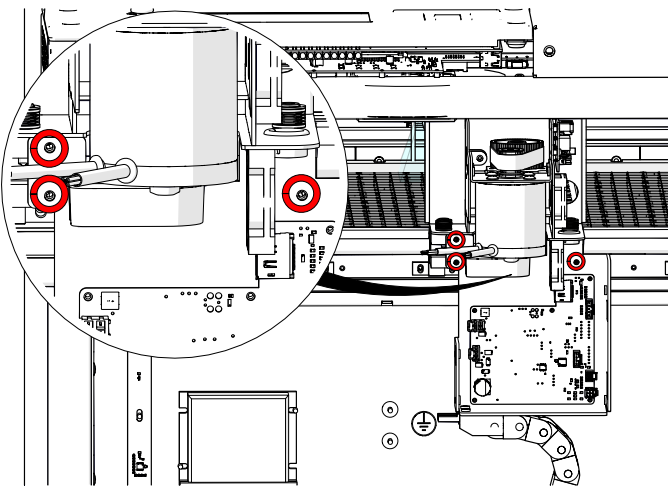
The AA tubing is held by a tubing coupler. To remove the tubing, press the tubing into the fixture. Then, while holding the retaining ring tight to the fixture, pull the AA tubing away from it.

# 17000 X-Axis Assembly Replacement

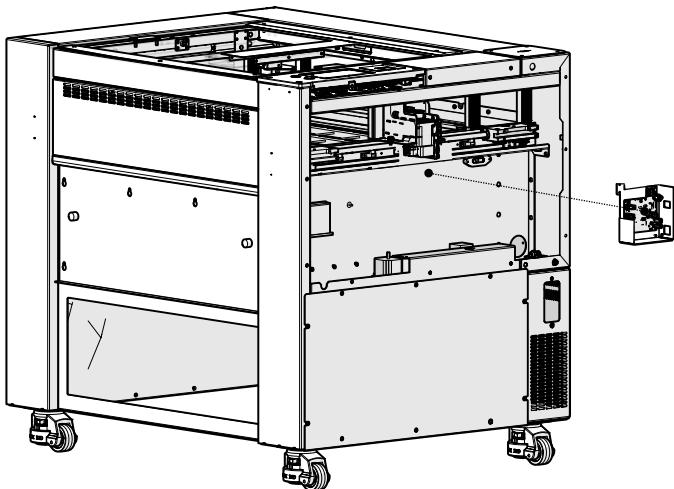
7. Remove the six (6) electrical connections on the drive board:



8. Loosen and remove the three (3) Phillips screws that secure the x-axis drive board mounting bracket to the x-axis assembly:

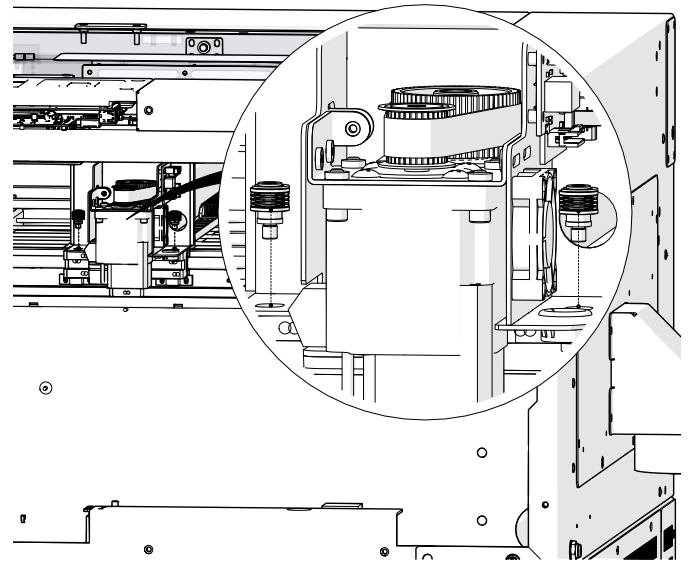
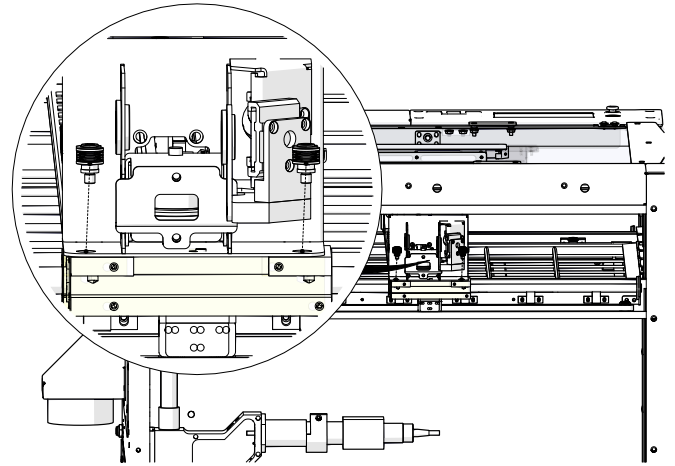


9. Remove the x-axis drive board and housing:



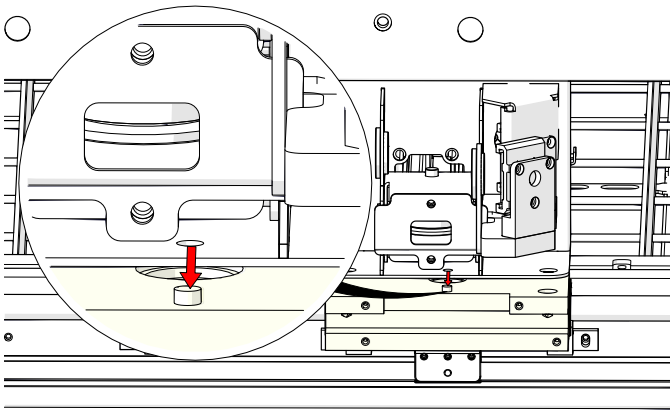
10. Disconnect the belows on the left and right side of the engraver.

11. Remove the four (4) 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:

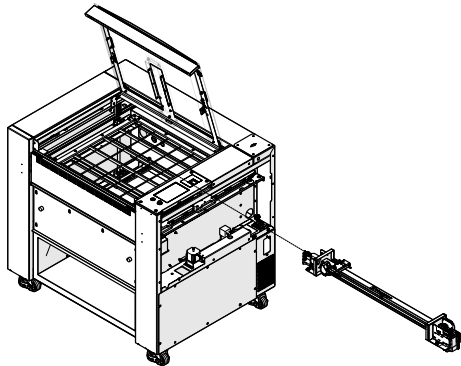


# 17000 X-Axis Assembly Replacement

12. Gently lift on the x-axis assembly to free it from the locator pins on the y-axis bearing blocks:

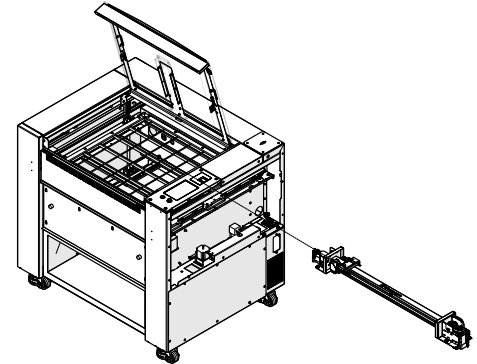


13. Slide the x-axis assembly out of the cabinet through the right side of the engraver:

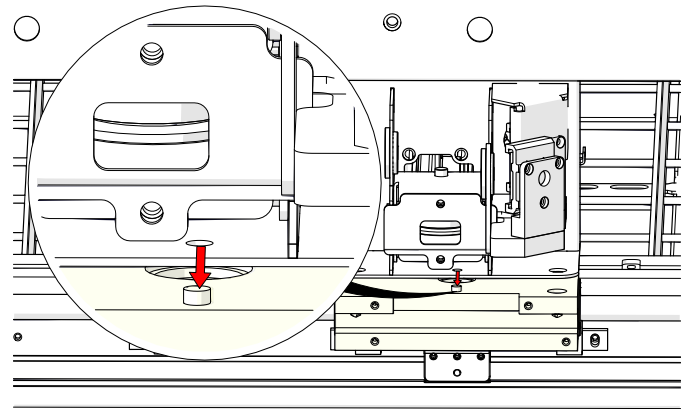


## X-Axis Assembly Installation

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

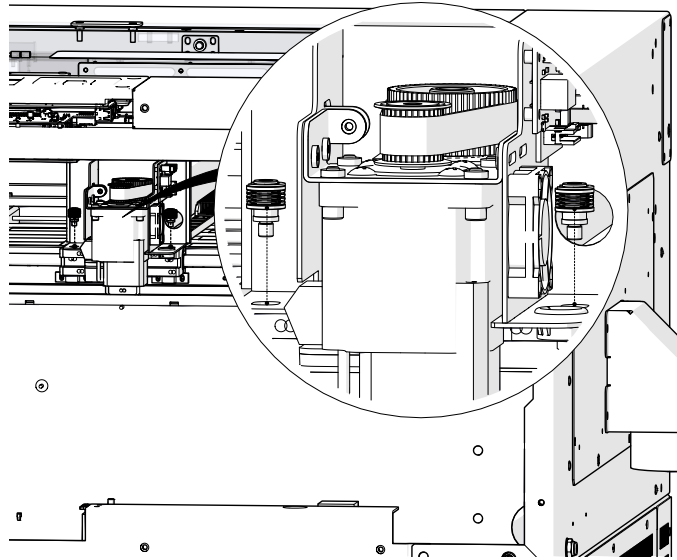
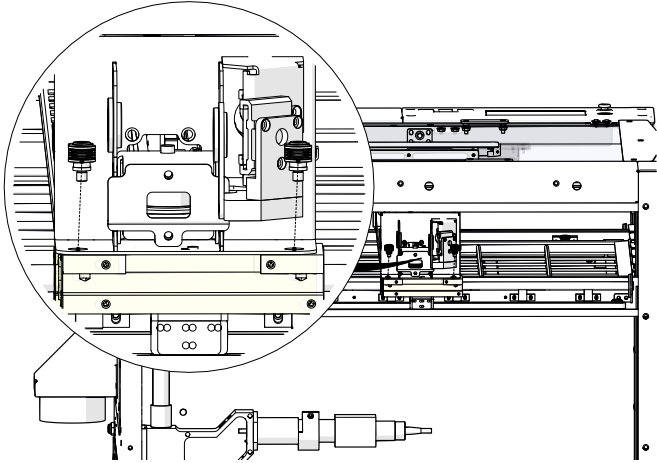


2. Place the x-axis assembly on the y-axis bearing blocks ensuring that it sits on the locator pins:

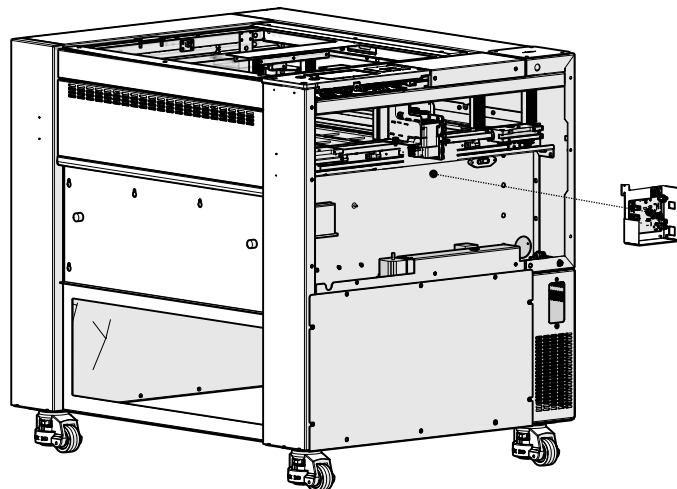


# 17000 X-Axis Assembly Replacement

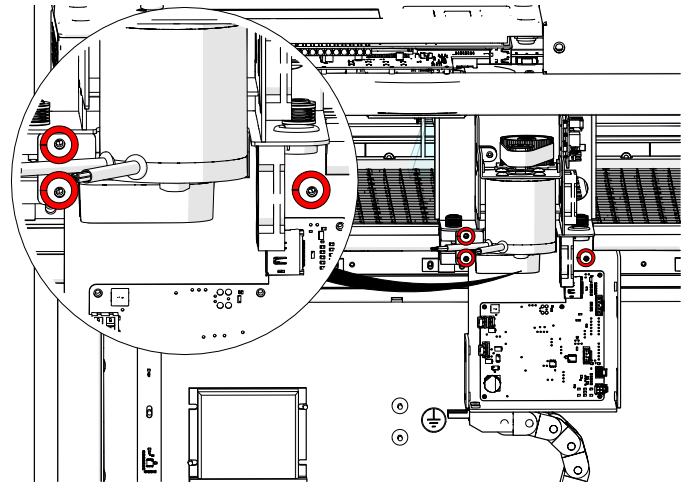
3. Install and tighten the four (4) fasteners that secure the x-axis assembly to the y-axis bearings. There are two (2) on the right side and two (2) on the left side:



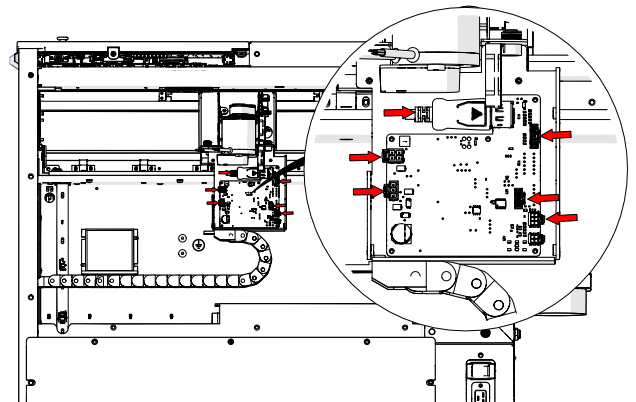
4. Place the x-axis drive board and housing into position:



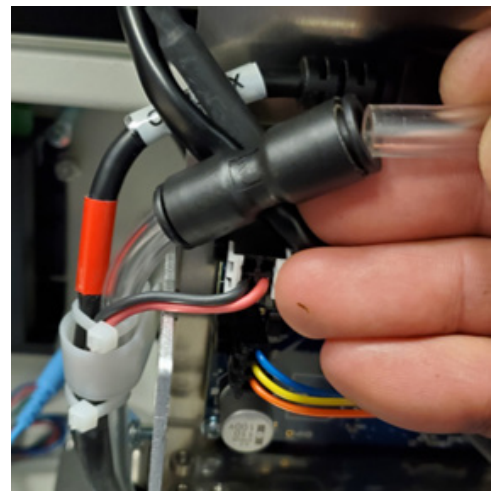
5. Install and tighten the three (3) Phillips screws that secure the x-axis drive board mounting bracket to the x-axis assembly:



6. Connect the six (6) electrical harnesses on the drive board:



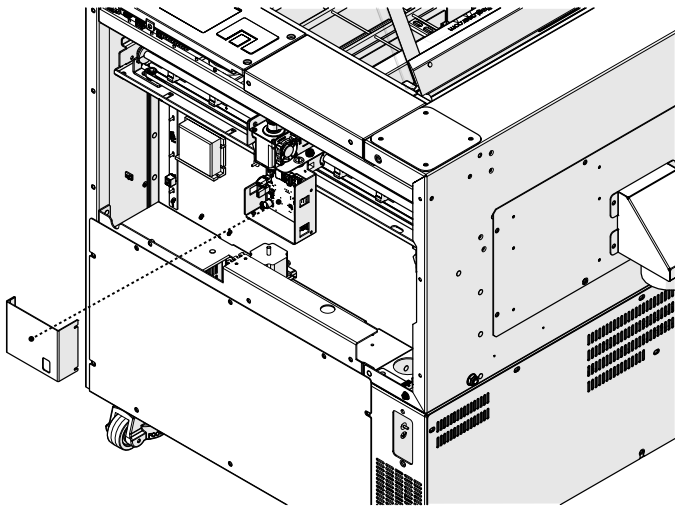
7. Connect the air assist tubing to the right side of the x-axis assembly:



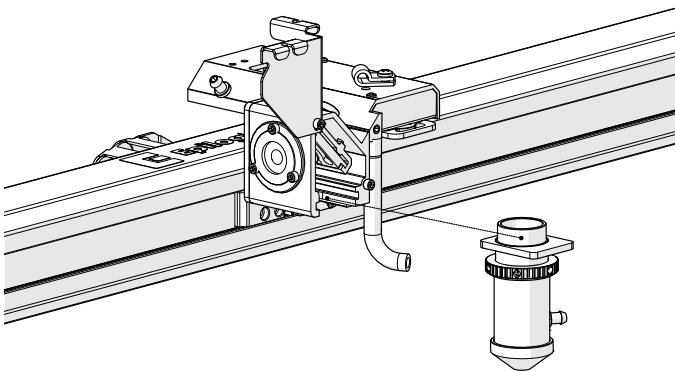


# 17000 X-Axis Assembly Replacement

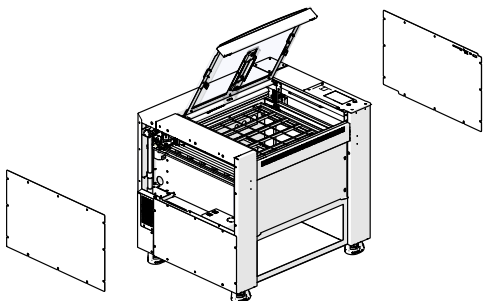
8. Install x-axis drive board cover:



9. Install the lens tube assembly in the x-axis assembly:



10. Replace the left and right panels of the engraver:

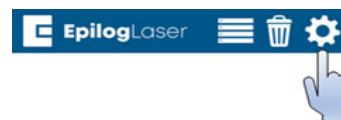


## Updates and Programming

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

### Updating the Carriage Camera (Pro Models Only)

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

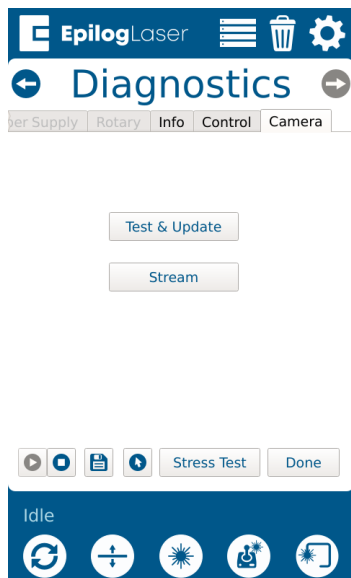


2. Press and hold the word “Settings” that appears at the touch of the touchpad to gain access to the Advanced Settings menu:

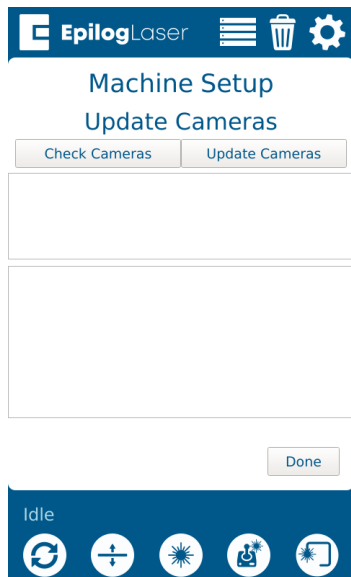


## 17000 X-Axis Assembly Replacement

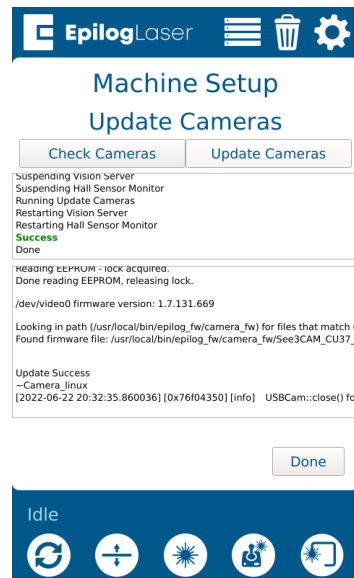
3. Enter the Diagnostics menu and scroll to the Camera tab. Press Test & Update:



4. Press Update:



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



In some cases the focus calibration and camera calibration procedures must also be completed. Please refer to the Fusion Edge/Pro User's Manual for more information on the focus and camera calibrations.

## 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:





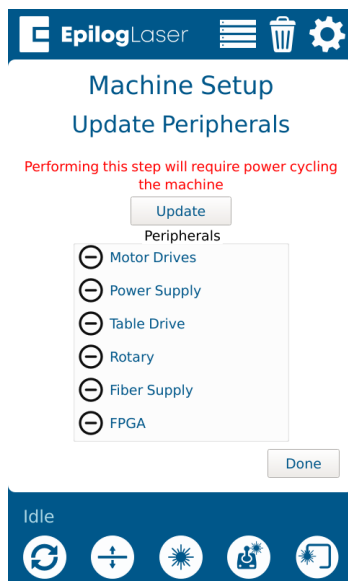
# 17000 X-Axis Assembly Replacement

2. Press Program to enter the Peripheral Update menu:



If further assistance is required, please contact Epilog Tech Support by phone at 303-215-9171, or by email at [tech@epiloglaser.com](mailto:tech@epiloglaser.com)

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.