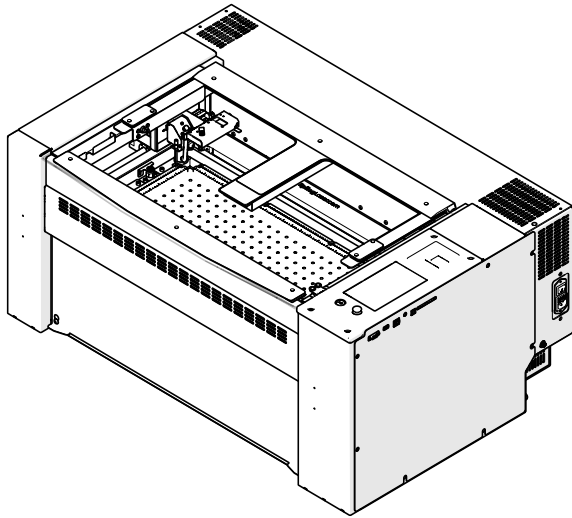
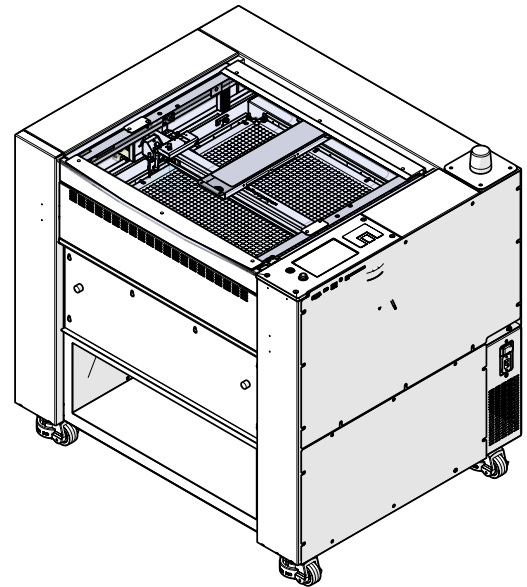


## X-Axis Drive Board Replacement Edge 12, 24 & 36, Pro 24 & 36



### Parts Required

- TE0104 - PCB, Servo Motor Drive



### Tools Required

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



An anti-static strap is required when working with any PCB in the Fusion Edge and Fusion Pro engraver. This strap prevents the buildup and accidental discharge of static electricity which can damage sensitive electronic components.

# 17000 X-Axis Drive Board Replacement

## Using the Anti-Static Strap

An anti-static strap is required when working with any PCB in the Fusion Pro engraver. This strap prevents the buildup and accidental discharge of static electricity which can damage sensitive electronic components.

1. Remove the anti-static strap from packaging.
2. Place the strap around your wrist and adjust the strap to be tight but comfortable.
3. After sizing the strap, ensure that the adjustment clamp is in the closed position:

Clamp Closed



Clamp Open



There is a small metal plate on the inside of the anti-static strap. Ensure that this metal plate is in contact with your skin.

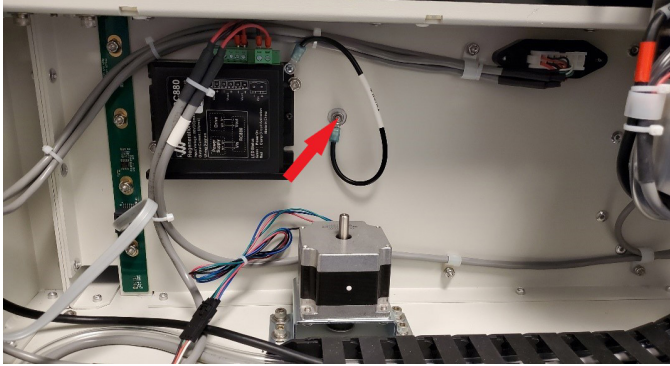
4. The image below shows the correct way to wear the anti-static strap:



5. Once the strap is secure to your wrist, attach the alligator clip to a bare metal surface in the engraver. Common locations include screw through holes, engraver side panel tabs, or the chassis.

## 17000 X-Axis Drive Board Replacement

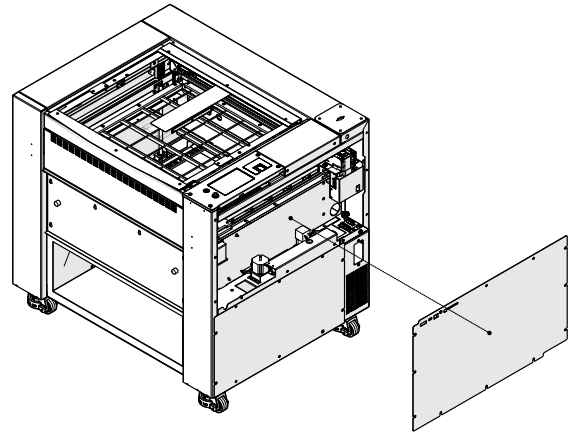
6. The preferred location to attach the alligator clip is the chassis bolt that connects to the ground from the regenerative clamp, located behind the right panel of the engraver:



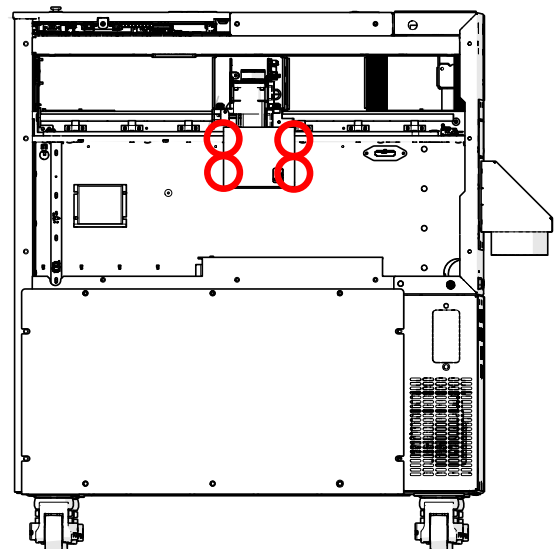
## X-Axis Drive Board Replacement

### X-Axis Drive Board Removal

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

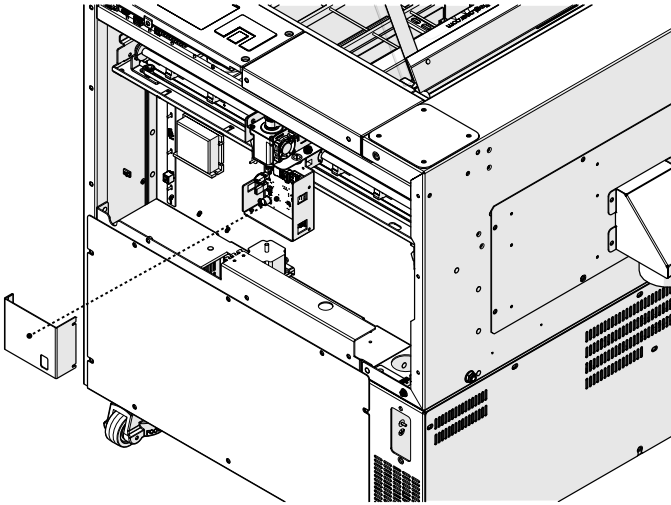


4. Loosen, but do not remove the four (4) Phillips screws on the x-axis drive board cover:



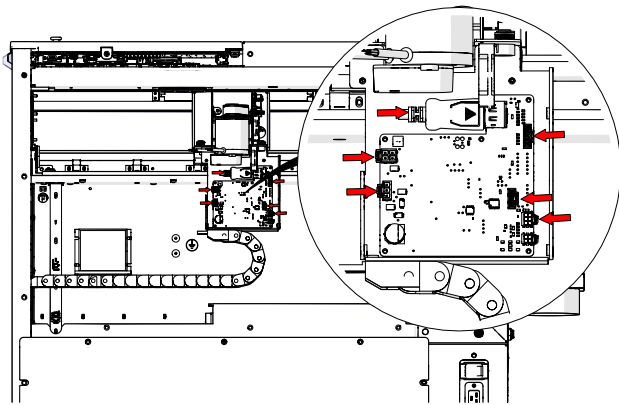
# 17000 X-Axis Drive Board Replacement

5. Remove the x-axis drive board cover:

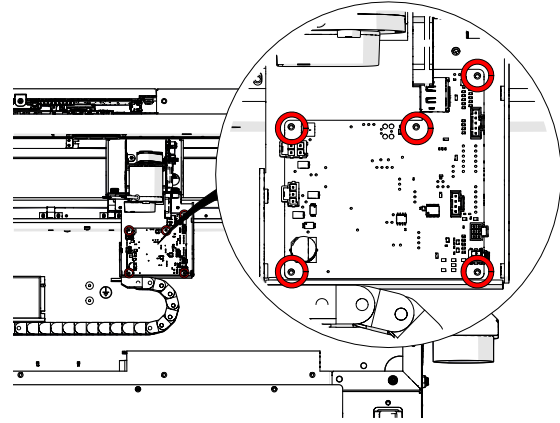


6. Place the anti-static strap around your wrist and attach the clamp to a bare metal surface in the machine. Refer to Chapter 9 for further information on using the anti-static strap.

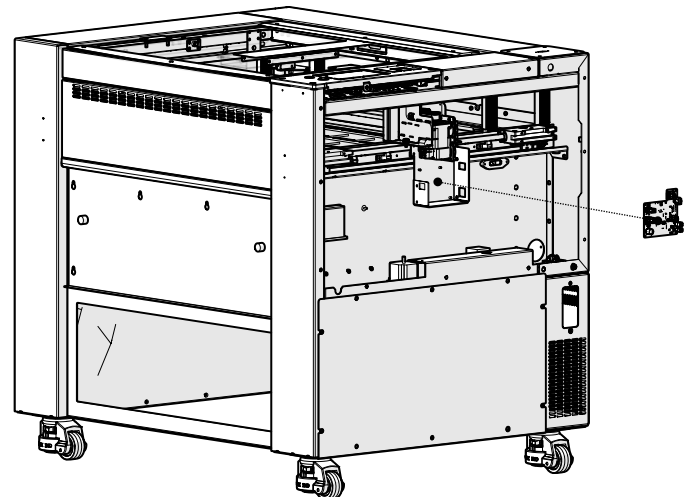
7. Remove the six (6) electrical connections on the drive board:



8. Loosen and remove the five (5) Phillips screws that secure the x-axis drive board to the housing:



9. Remove the x-axis drive board:

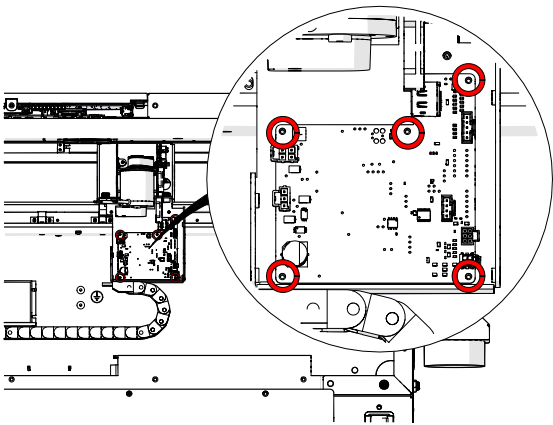


# 17000 X-Axis Drive Board Replacement

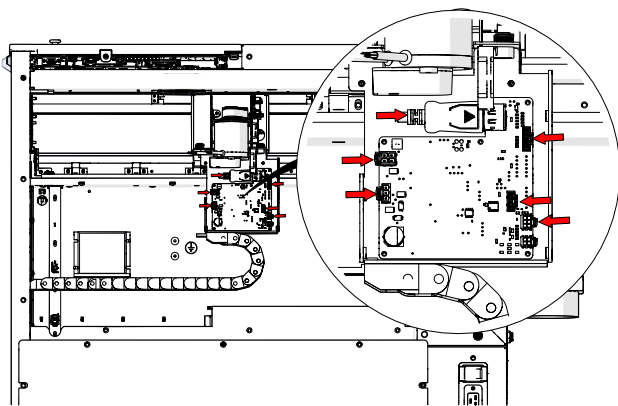
## X-Axis Drive Board Installation



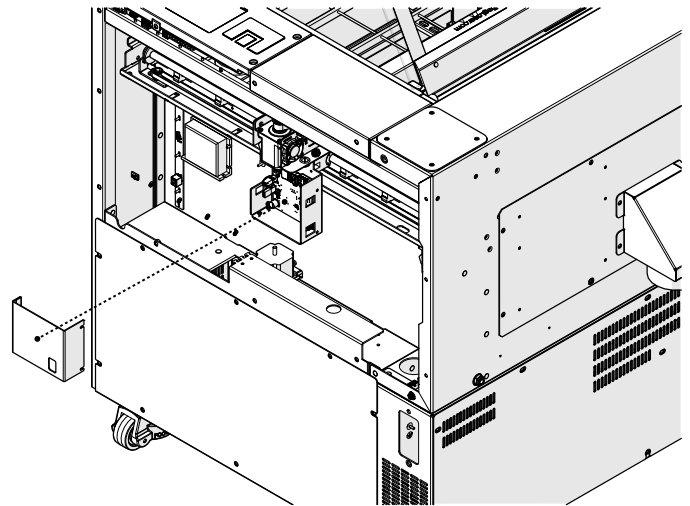
1. Place the anti-static strap around your wrist and attach the clamp to a bare metal surface in the machine.
2. Place the x-axis drive board in the housing. Install and tighten the five (5) Phillips screws that secure it:



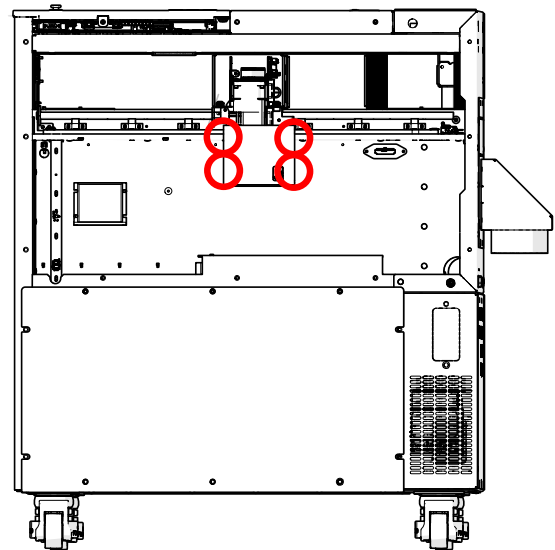
3. Reconnect the six (6) electrical connections on the drive board:



4. Install the x-axis drive board cover:



5. Tighten the four (4) Phillips screws on the x-axis drive board cover:



6. Replace the right panel of the engraver.
7. Reconnect to power and turn on the engraver.



# 17000 X-Axis Drive Board Replacement

## Programming the X-Axis Drive Board

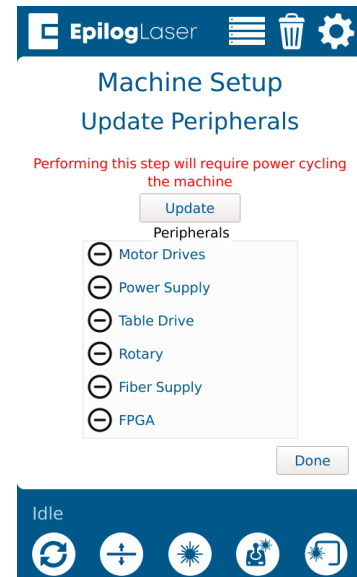
1. At the display panel, press the gear icon in the upper right-hand corner of the display to open the Settings menu:



2. Press Program to enter the Peripheral Update menu:



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



4. Allow the engraver to run the update process.



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.

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

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