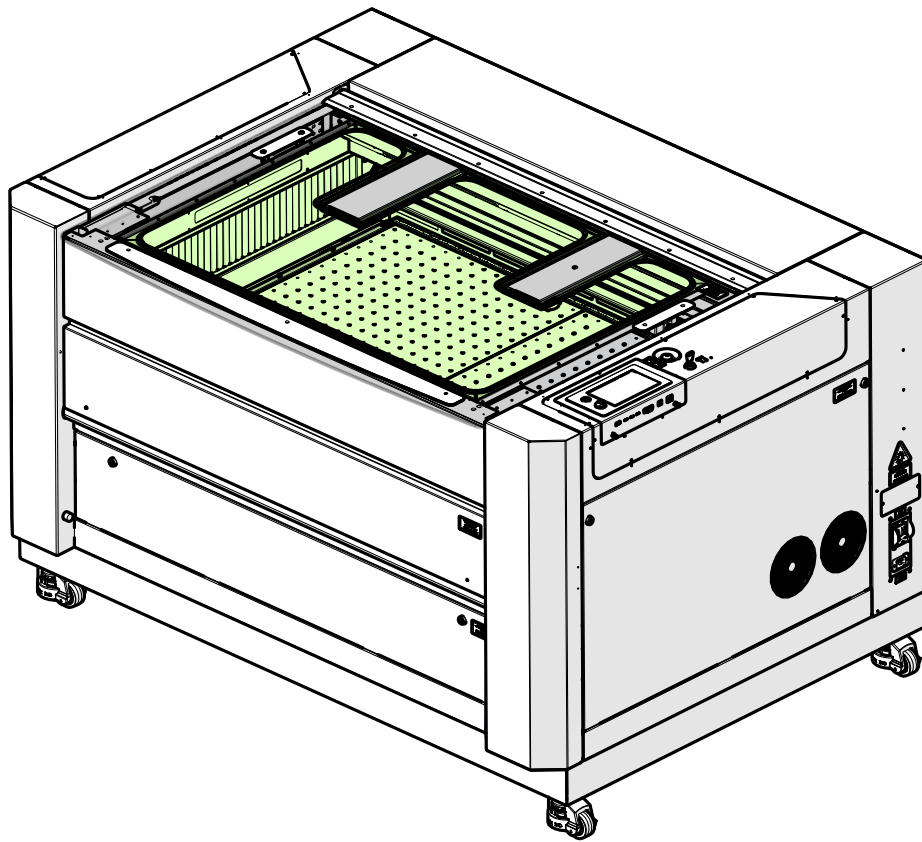


Floating Backplane Board Upgrade Fusion Pro 32 & 48



Parts Required

- CS0574 - Bracket, UI, Chassis
- CS1048 x 3 - Standoff, Backplane Board
- 10/32 x 3/8" Socket Head Cap Screw x 3
- #10 Washer x 3

Tools/Materials Required

- T8 Torx Driver
- Phillips Head Screwdriver
- Anti-Static Strap



This procedure applies to Fusion Pro 32 and Pro 48 engravers manufactured before mid-2020. If unsure that an engraver is equipped with a floating backplane, use this procedure to help identify the installed equipment in the engraver.

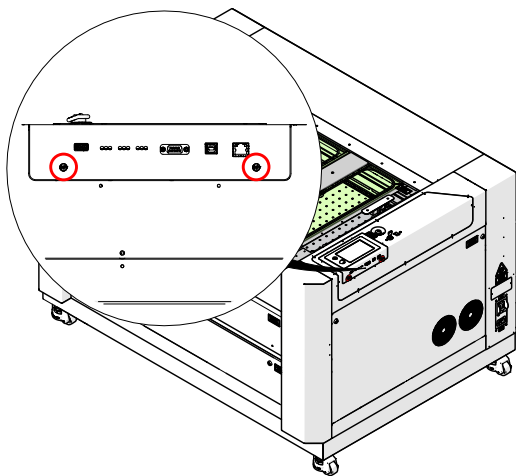
Floating Backplane Upgrade

Backplane Board Removal

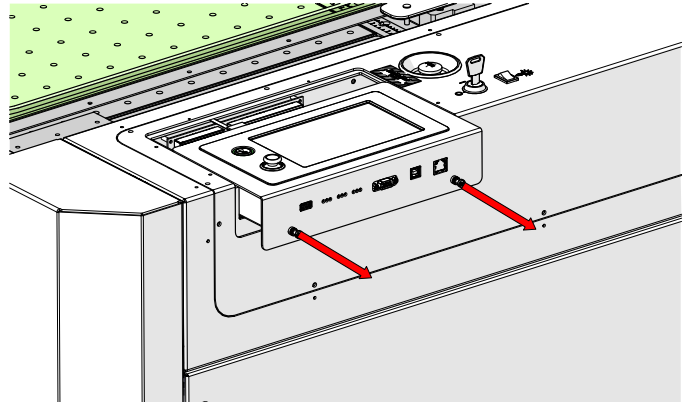
1. Turn off the engraver.
2. Disconnect engraver from power source.
3. Disconnect the connection cable (USB, Ethernet, fan control, etc.) from the engraver.



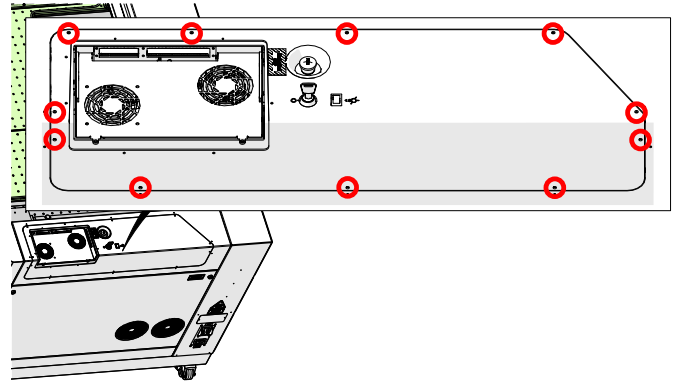
4. Place the anti-static strap around your wrist and attach the clamp to a bare metal surface on the machine.
5. Loosen the two (2) Phillips screws on the control module:



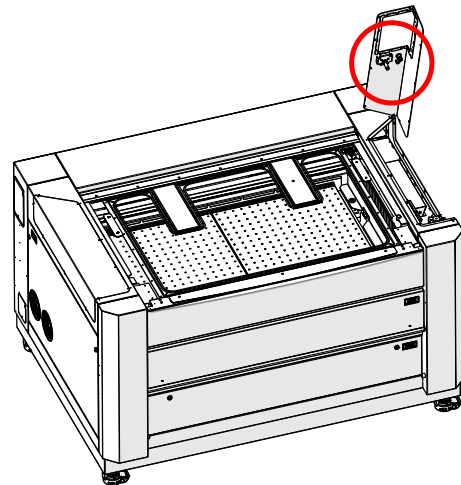
6. Grip the two Phillips screws and gently pull the control module straight away from the engraver:



7. Loosen and remove the nine (9) T8 Torx screws on the upper right corner panel:

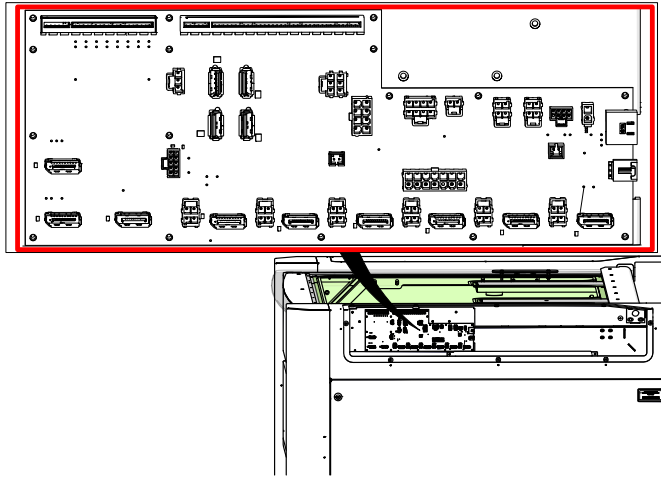


8. Gently lift the upper right corner panel up and disconnect the key switch and emergency stop electrical connections:



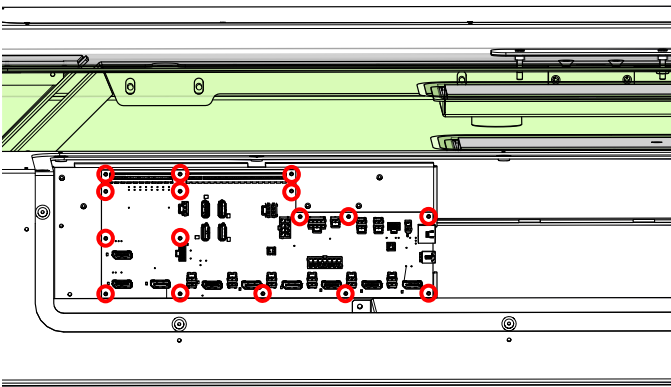
16000 - Floating Backplane Upgrade

9. Disconnect the electrical harnesses on the backplane board:

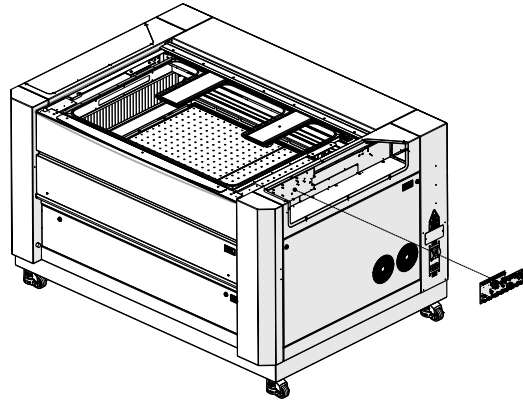


Each receptacle and corresponding harness on the backplane board is labeled. To avoid confusion when reinserting the connections, it may be helpful to take a photo of the backplane connections before removing them.

10. Loosen and remove the sixteen (16) Phillips screws on the backplane board:

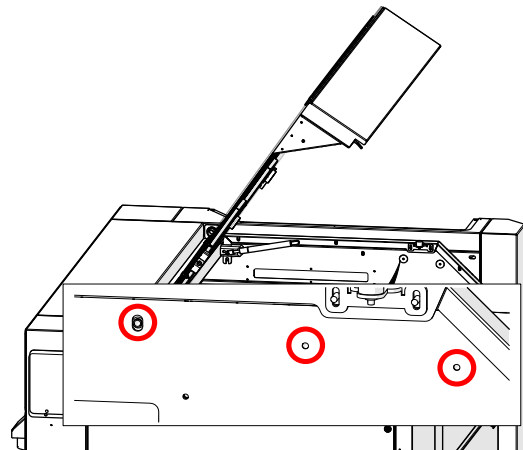


11. Remove the backplane board from the engraver:



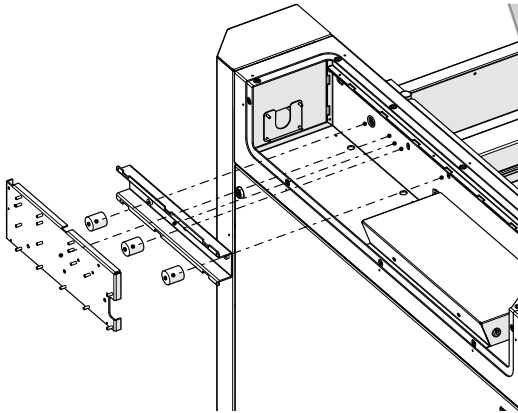
Backplane Board Installation

1. Inside the engraver cabinet, locate and remove the three (3) Allen screws that secure the backplane mounting plate to the engraver chassis and remove the mounting plate:

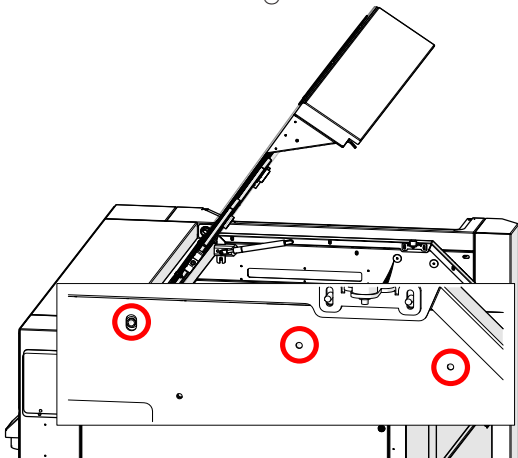


16000 - Floating Backplane Upgrade

2. Position the new backplane board mounting bracket, the three (3) spacers, and the backplane mounting plate using the image below as a guide:

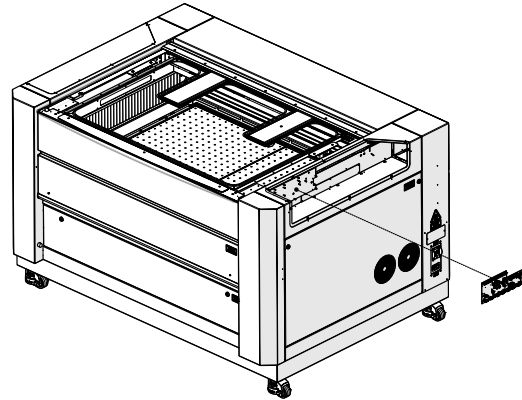


3. Install the three (3) Phillips head screws. The screws should be installed from the interior of the engraver cabinet:

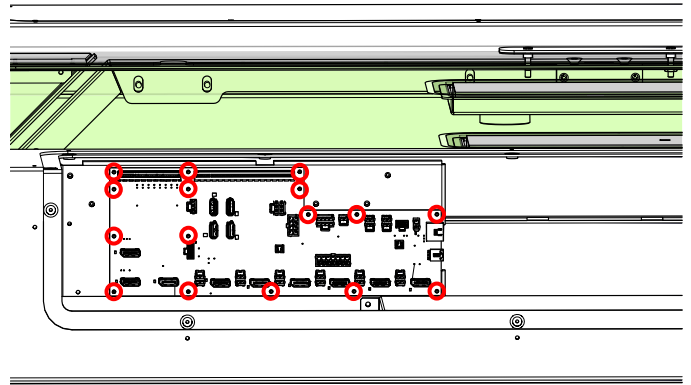


9. Place the anti-static strap around your wrist and attach the clamp to a bare metal surface on the machine.

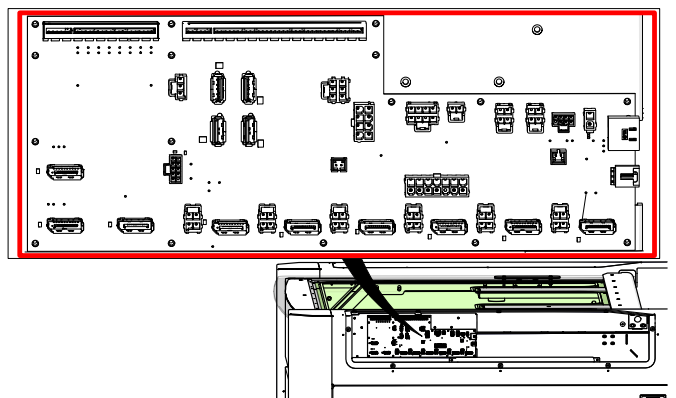
1. Install the backplane board:



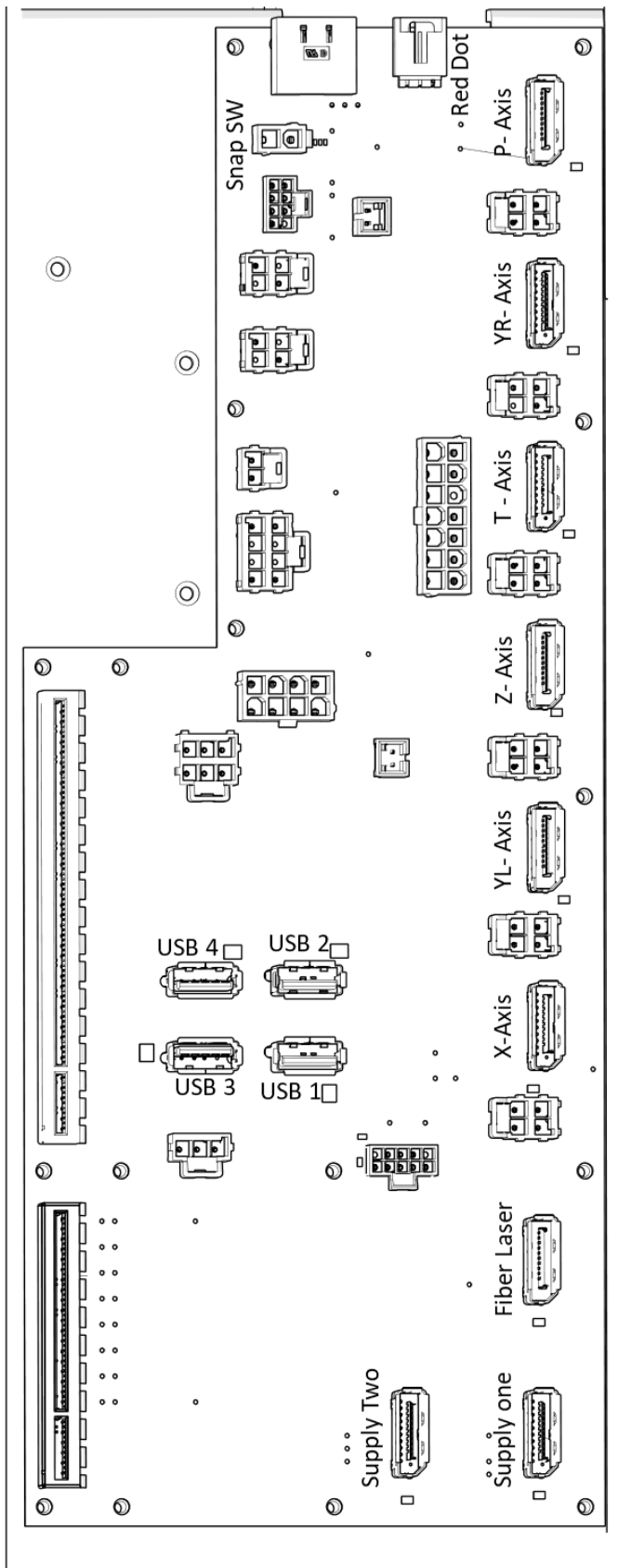
2. Install and tighten the sixteen (16) Phillips screws that secure the backplane board to the engraver:



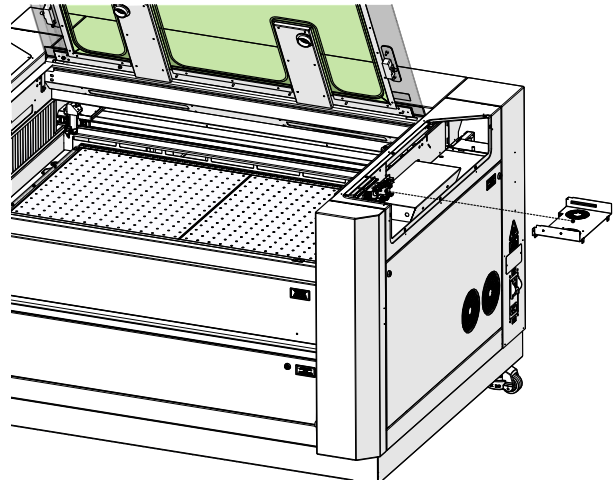
3. Connect the electrical harnesses on the backplane board:



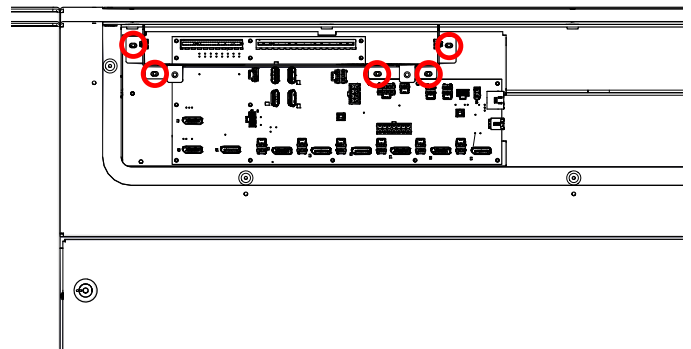
Backplane Board Detailed View



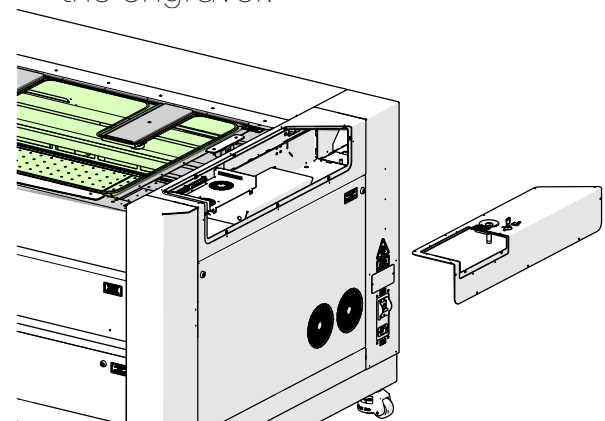
13. Install the fan tray:



14. Install and tighten the five (5) Phillips head screws that secure the fan tray to the engraver:

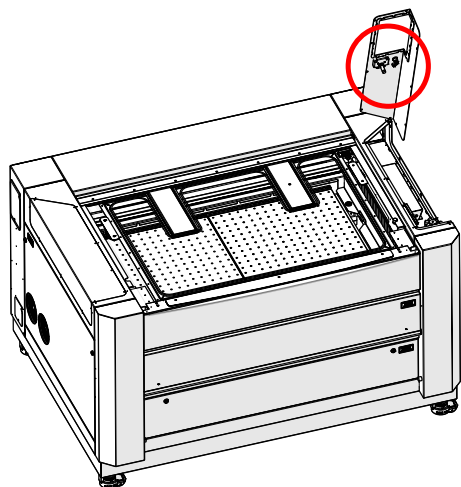


15. Place the upper right corner panel on the engraver:

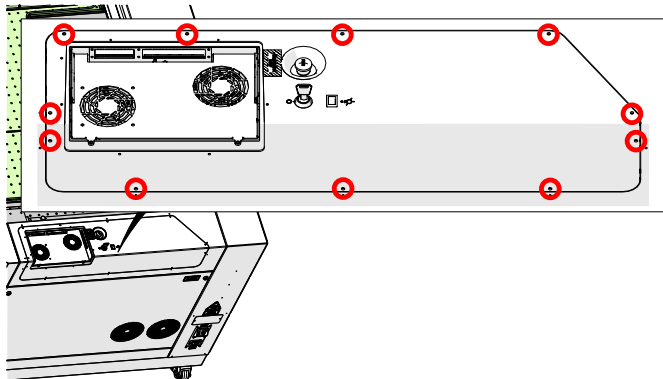


16000 - Floating Backplane Upgrade

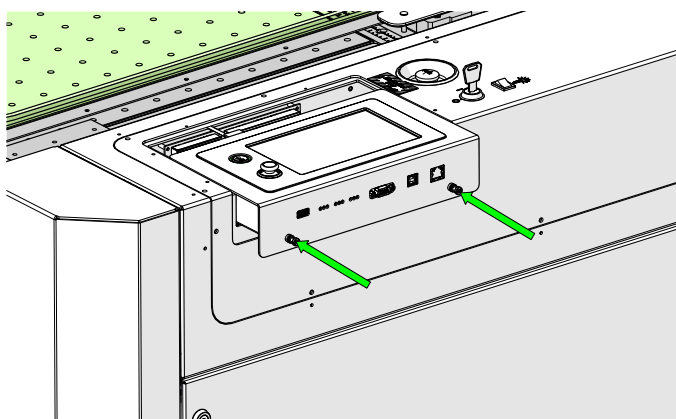
16. Connect the key switch and emergency stop electrical harnesses:



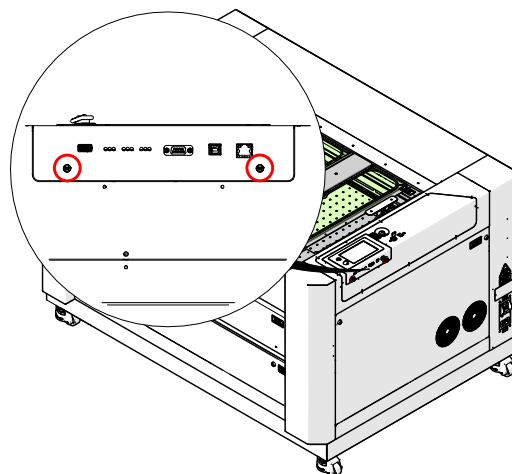
17. Install and tighten the nine (9) T8 Torx screws on the upper right corner panel:



18. Place the sides of the control module in the tracks on the control module housing and gently slide the control module into the housing:



19. Tighten the two (2) Phillips screws on the control module:



20. Reconnect to power and turn on the engraver.

Programming the Backplane Board

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

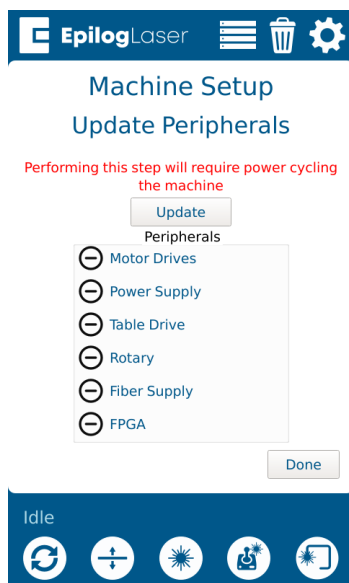


16000 - Floating Backplane Upgrade

2. Press Program to enter the Peripheral Update menu:



3. Once in the Peripheral Update menu, select all available components 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, contact Epilog Laser Technical Support by phone at 303-215-9171, or by email at tech@epiloglaser.com.