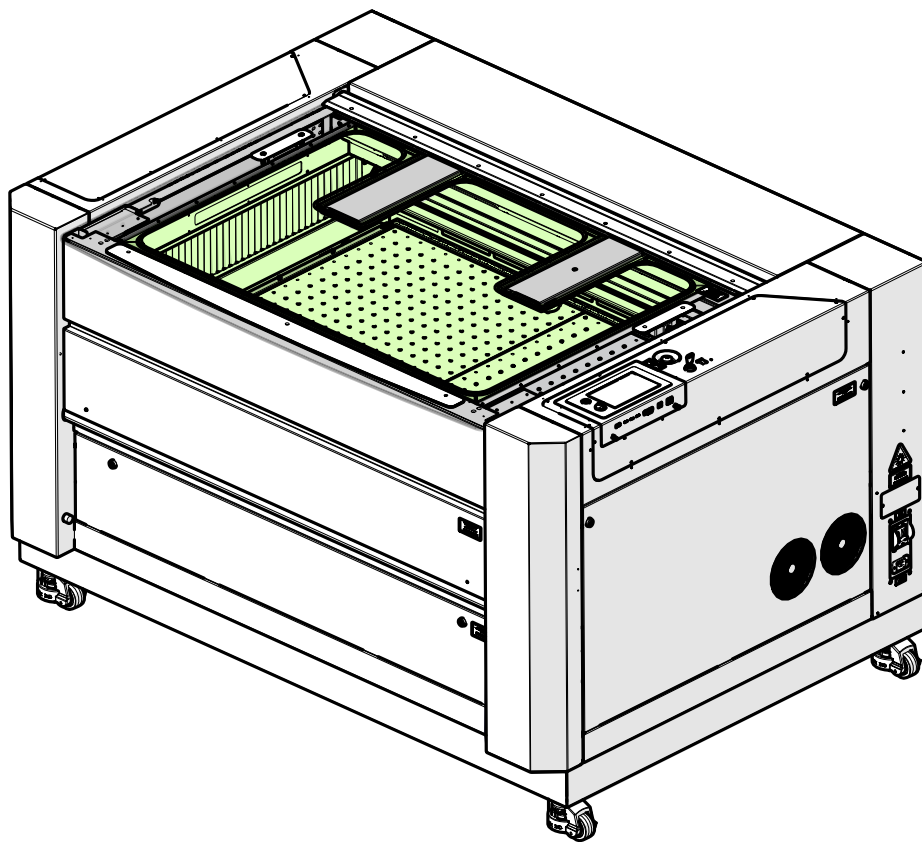


## Backplane Board Replacement Fusion Pro 32 & 48



### Parts Required

- CS0348 - PCBA, Backplane

### Tools/Materials Required

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

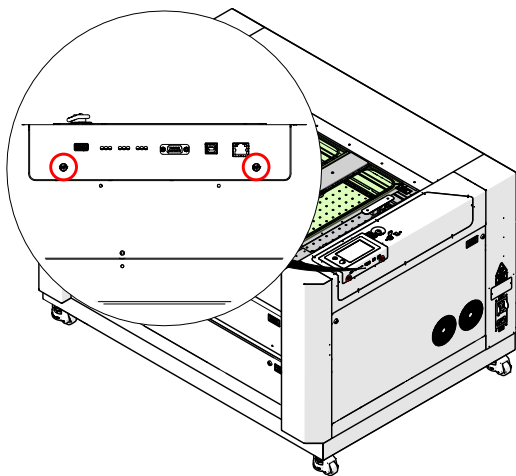
# Backplane Board Replacement

## Backplane Board Removal

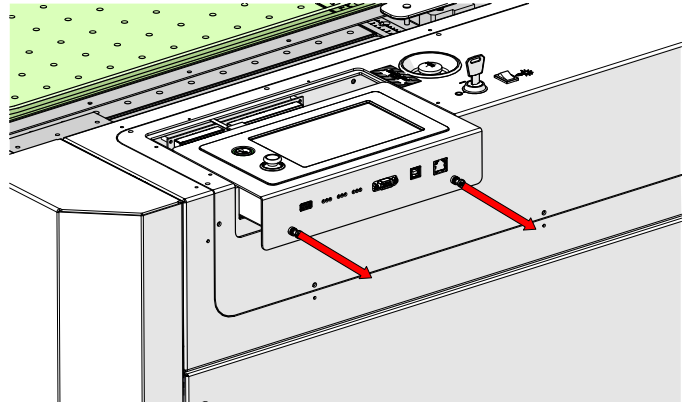
1. Turn off the engraver.
2. Disconnect engraver from power source.
3. Disconnect the connection cable (USB, Ethernet, fan control, etc.) from the engraver.



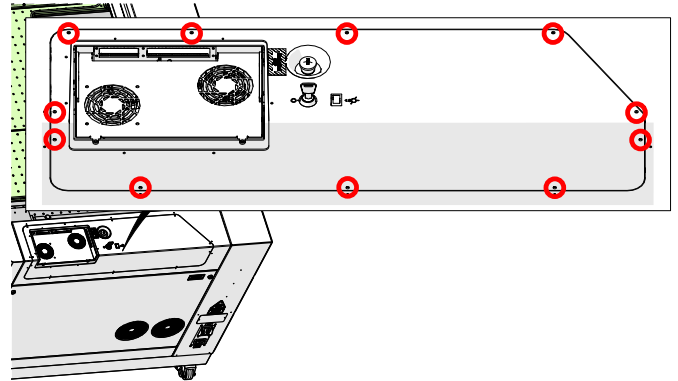
4. Place the anti-static strap around your wrist and attach the clamp to a bare metal surface on the machine.
5. Loosen the two (2) Phillips screws on the control module:



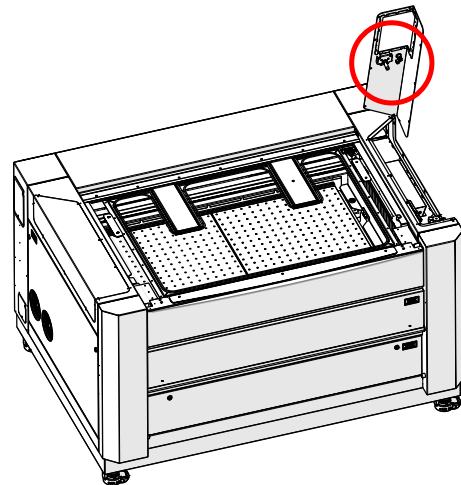
6. Grip the two Phillips screws and gently pull the control module straight away from the engraver:



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

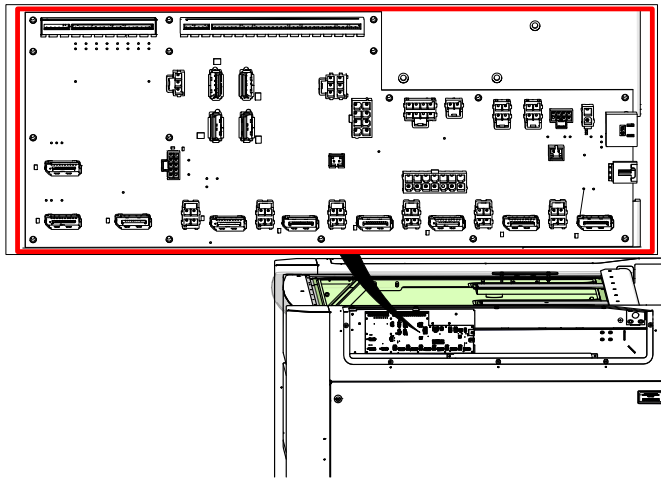


8. Gently lift the upper right corner panel up and disconnect the key switch and emergency stop electrical connections:



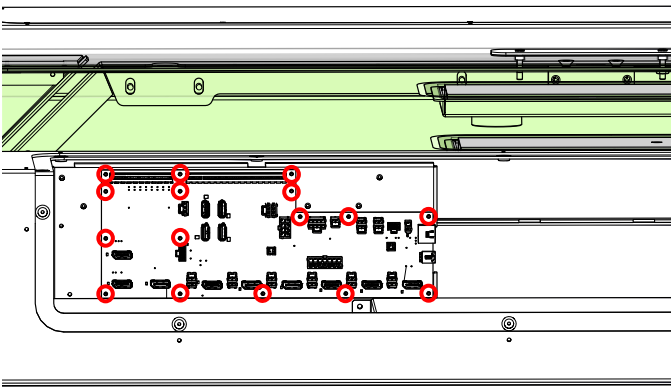
## 16000 - Backplane Board Replacement

9. Disconnect the electrical harnesses on the backplane board:

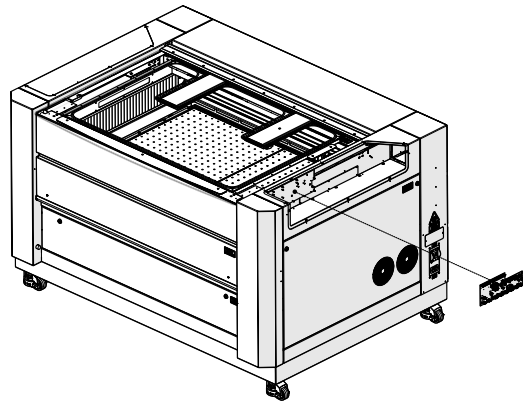


Each receptacle and corresponding harness on the backplane board is labeled. To avoid confusion when reinserting the connections, it may be helpful to take a photo of the backplane connections before removing them.

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



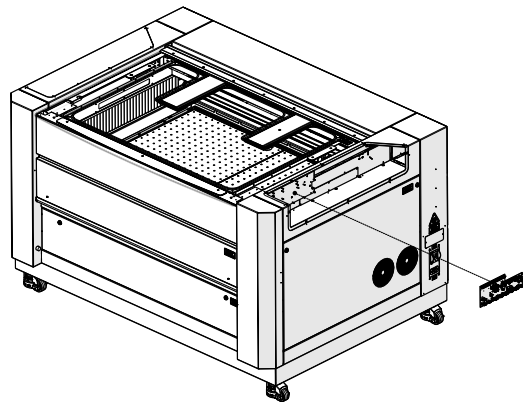
11. Remove the backplane board from the engraver:



## Backplane Board Installation

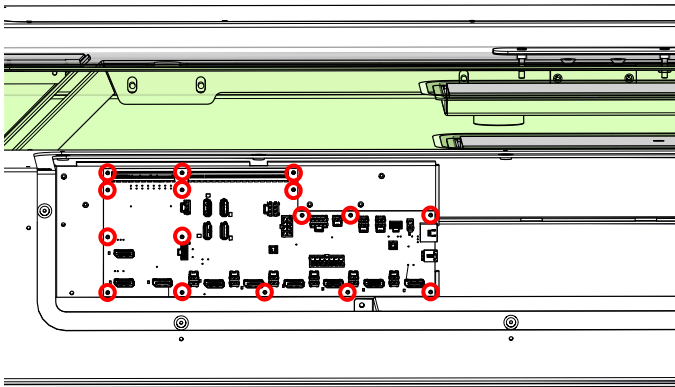


1. Place the anti-static strap around your wrist and attach the clamp to a bare metal surface on the machine.
2. Install the backplane board:

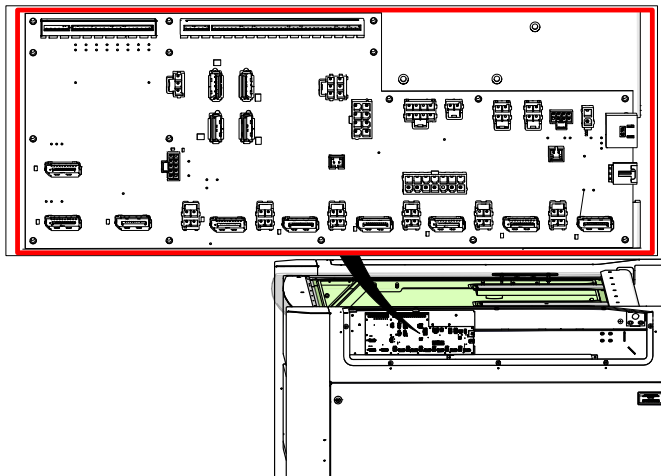


## 16000 - Backplane Board Replacement

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

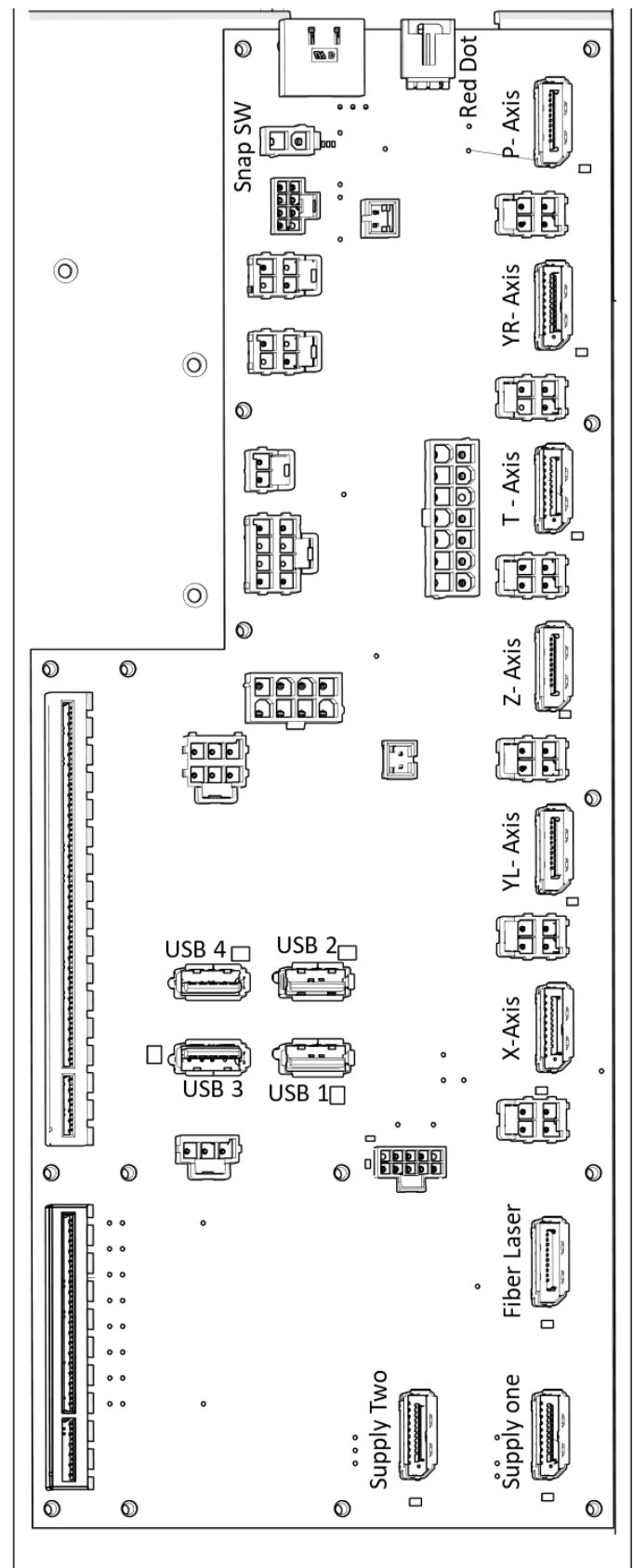


4. Connect the electrical harnesses on the backplane board:



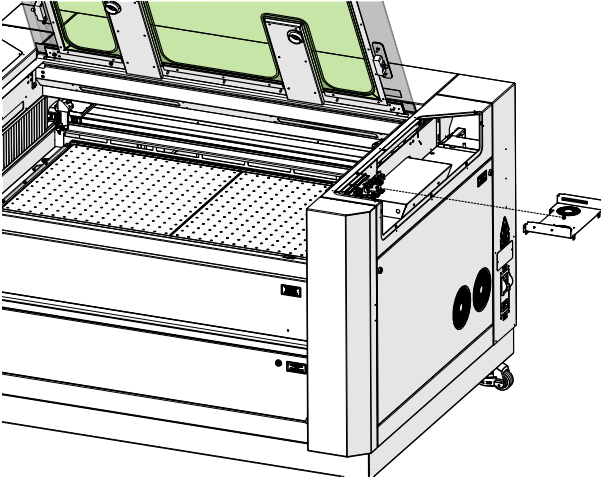
The following image shows a detailed and labeled view of the backplane board receptacles.

## Backplane Board Detailed View

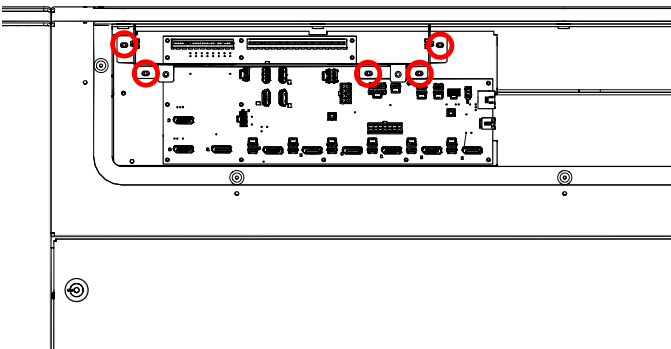


## 16000 - Backplane Board Replacement

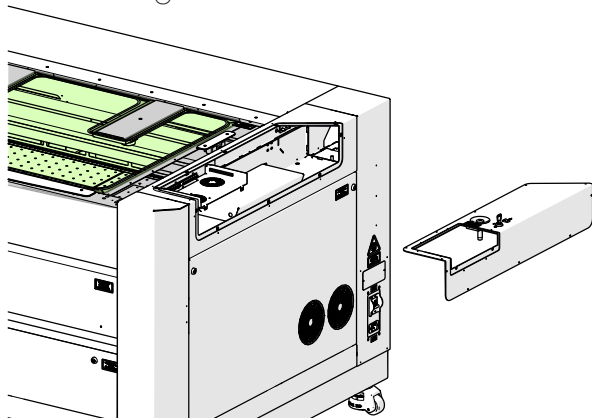
5. Install the fan tray:



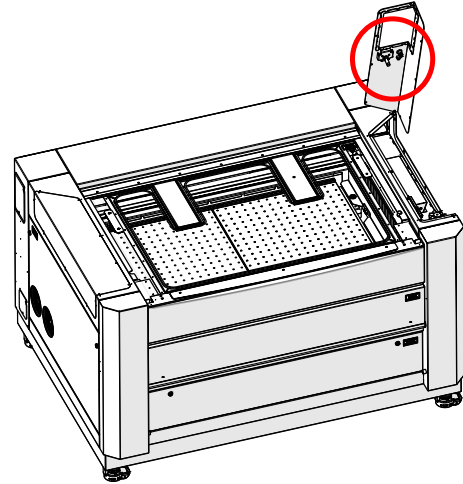
6. Install and tighten the five (5) Phillips head screws that secure the fan tray to the engraver:



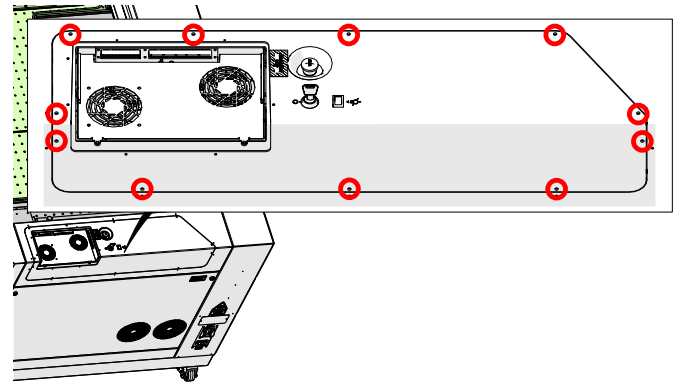
7. Place the upper right corner panel on the engraver:



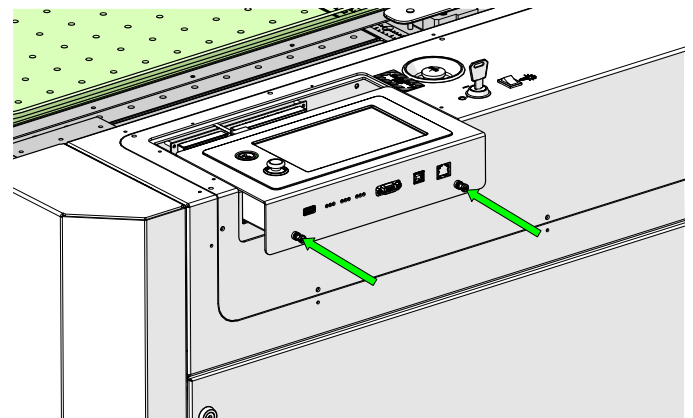
8. Connect the key switch and emergency stop electrical harnesses:



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

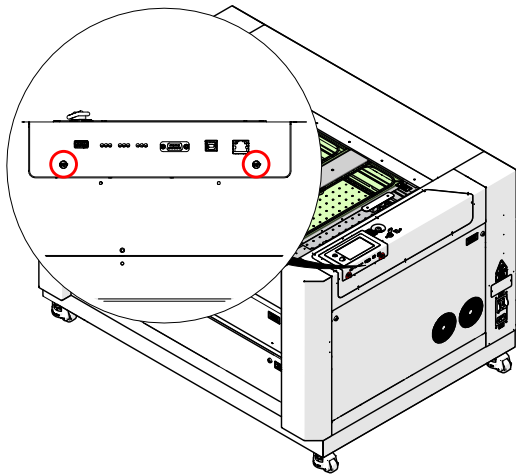


10. Place the sides of the control module in the tracks on the control module housing and gently slide the control module into the housing:



## 16000 - Backplane Board Replacement

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



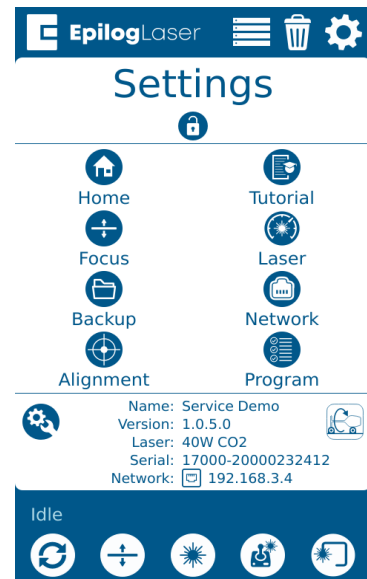
12. Reconnect to power and turn on the engraver.

## Programming the Backplane Board

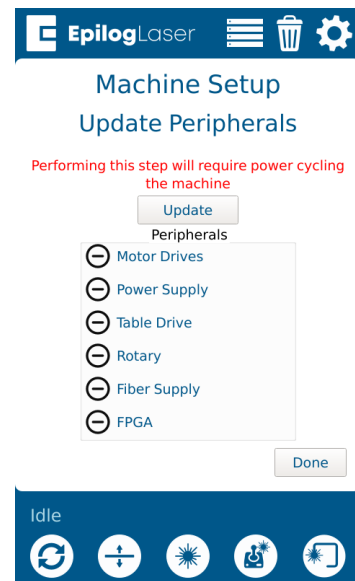
1. At the display panel, press the gear icon in the upper right-hand corner of the display to open the Settings menu:



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.



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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.

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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](mailto:tech@epiloglaser.com).