TechSupport

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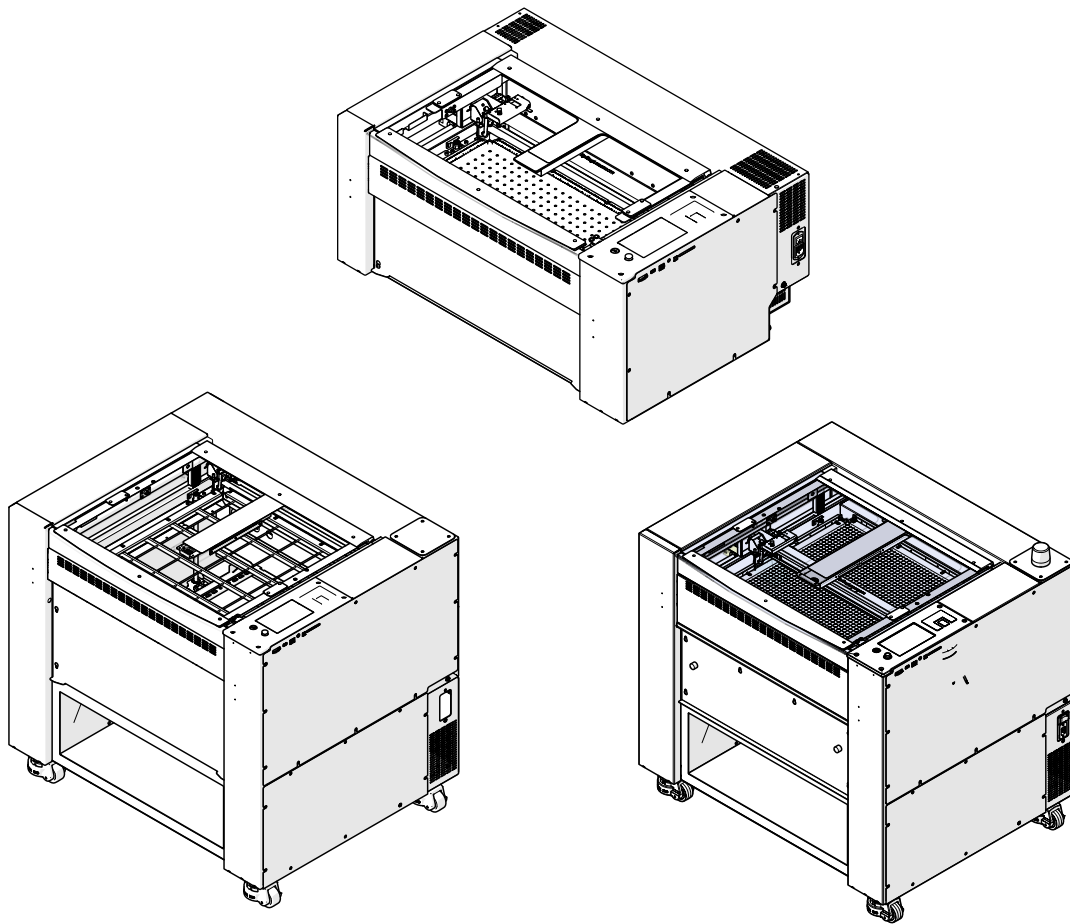tech@epiloglaser.com
303-215-9171

SD Card and Coin Battery Replacement
Fusion Maker - Fusion Edge - Fusion Pro

Parts Required

- CS1056 - SD Card, Industrial, 16GB
- CS0754 - 3V Lithium Coin Cell Battery

Tools/ Materials Required

- 5/32" Allen Wrench
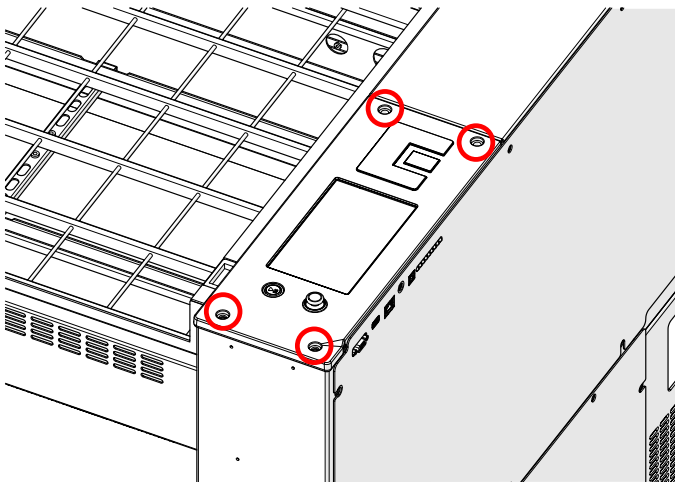- Anti-Static Bracelet

SD Card Replacement (Fusion Maker & Edge)

Control Module/SD Card 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. Remove the right panel of the engraver.

⚠️

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

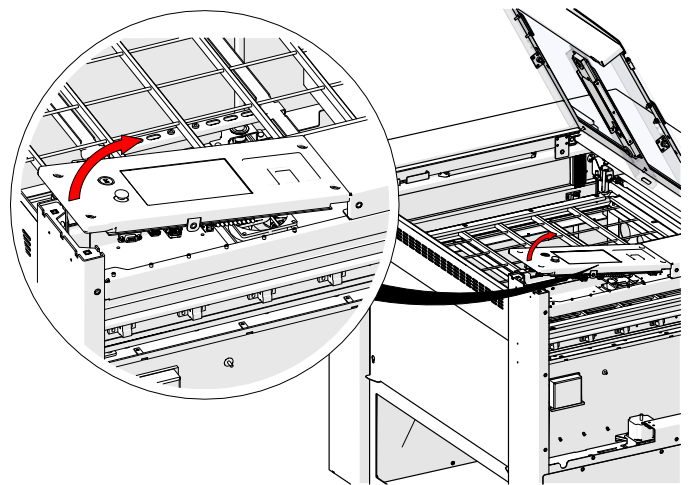6. Loosen and remove the four (4) 5/32" Allen screws on the control module:
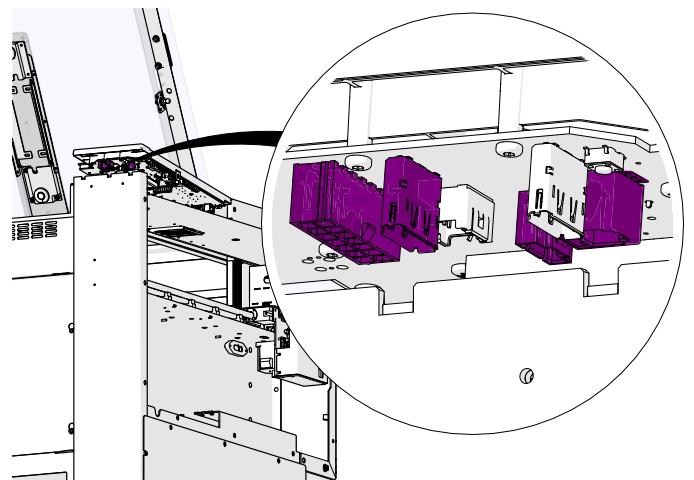

Two (2) of the control module mounting screws are longer than the others. These longer screws secure the top side of the control module to the rear mounting locations.
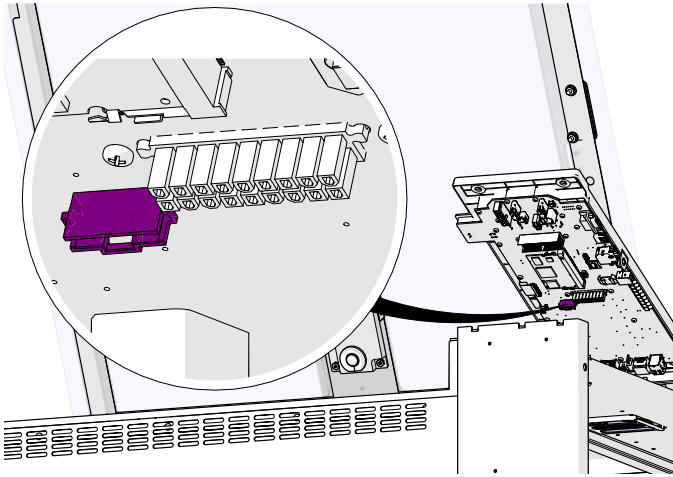
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7. Grasp the bottom of the display shroud and gently raise the bottom of the control module upwards to gain access to the front electrical harnesses:
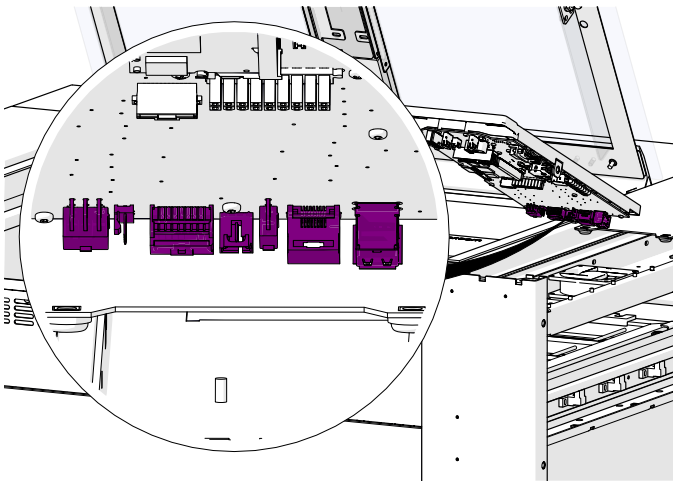

8. Disconnect the four (4) electrical harnesses from the underside of the control module:
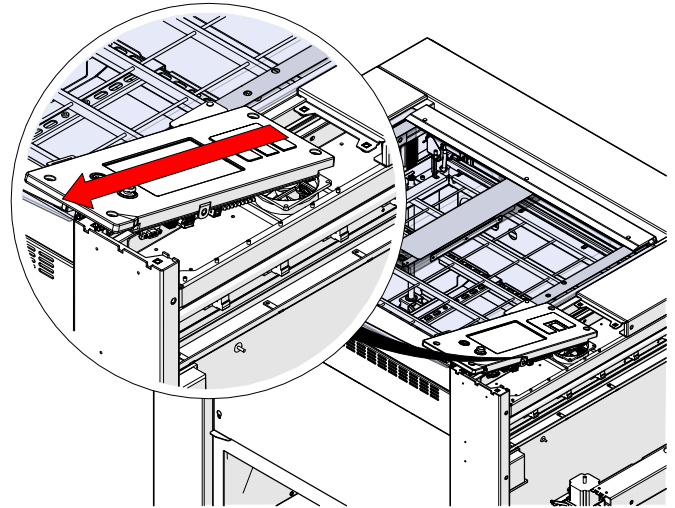
9. Continue raising the bottom of the control module upwards to gain access to the flex cable. Disconnect the flex cable:

10. Continue raising the bottom of the control module upwards to gain access to the rear electrical harnesses. Disconnect the seven (7) electrical harnesses from the underside of the control module:
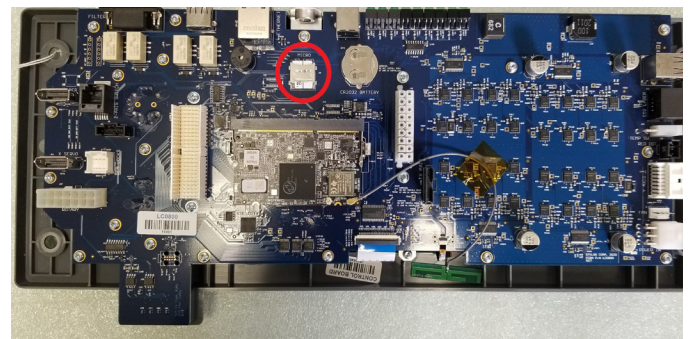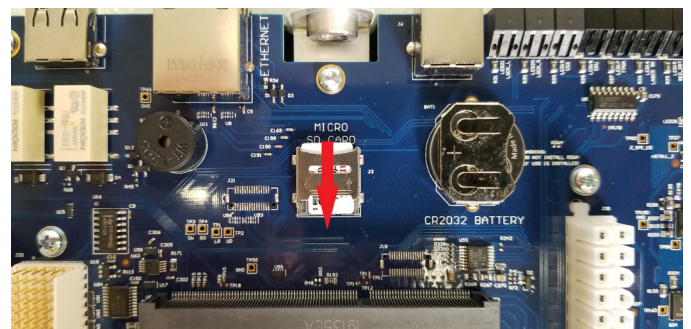

11. Remove the control module:

12. Set the control module face-down on a soft surface to ensure it does not become damaged.

13. Locate the SD card holder on the underside of the control module:
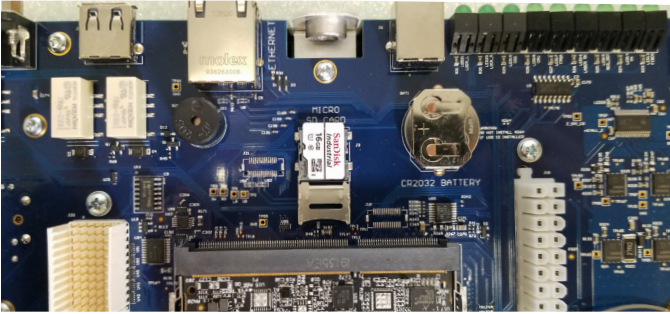

14. Slide the SD card retention latch down to unlock it and carefully lift the SD card out:
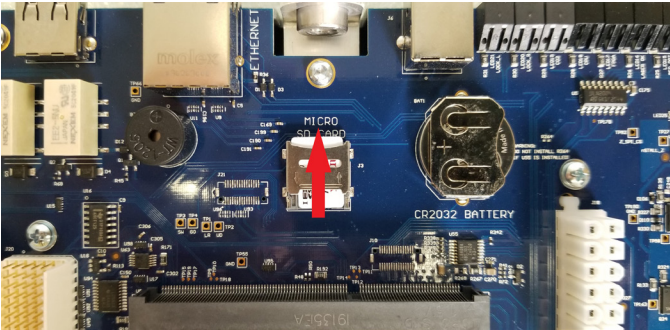
15. Carefully insert the new SD card into the SD card holder ensuring the proper orientation. The exposed copper terminals should face the control board:

16. Carefully press down on the retention latch and slide it up to secure the SD card:
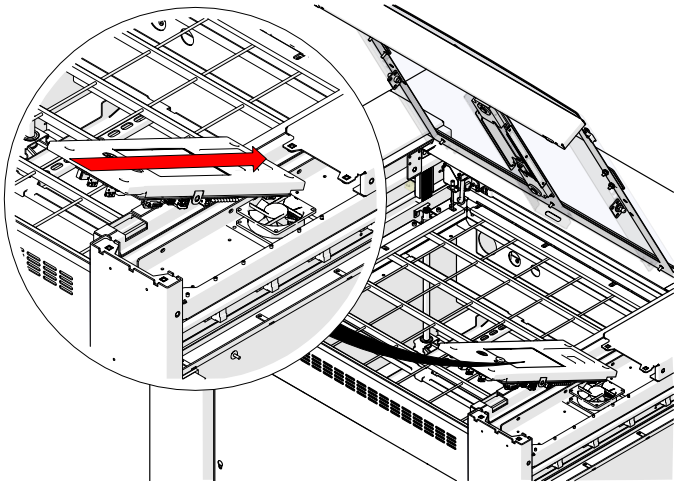

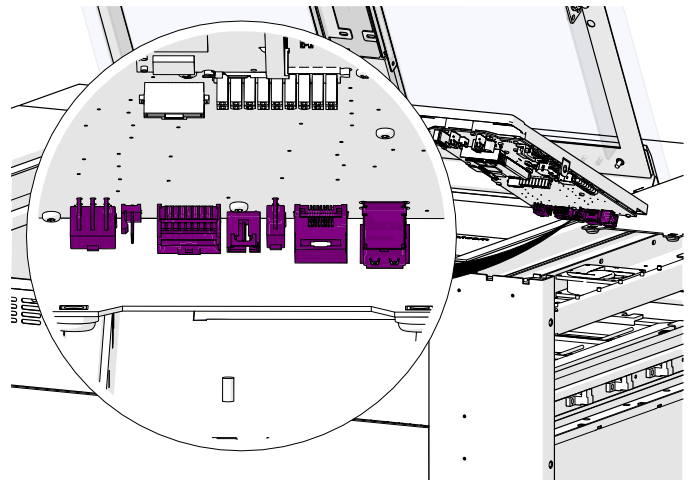# Control Module/SD Card Installation

1. Place the anti-static strap around your wrist and attach the clamp to a bare metal surface on the machine.
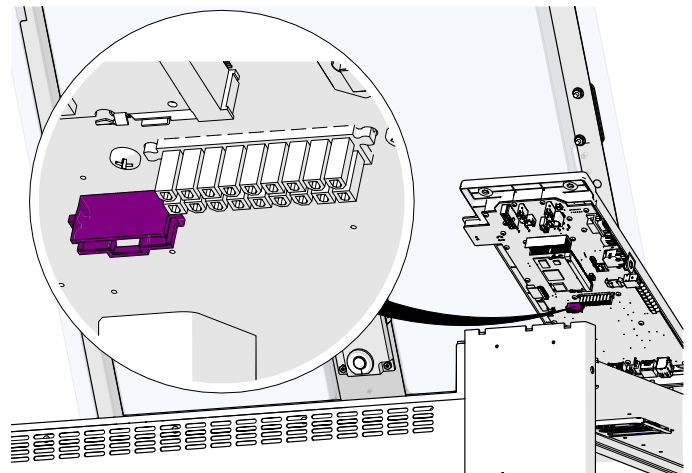
2. Place the control module in position with the top of the module near the rear mounting location:
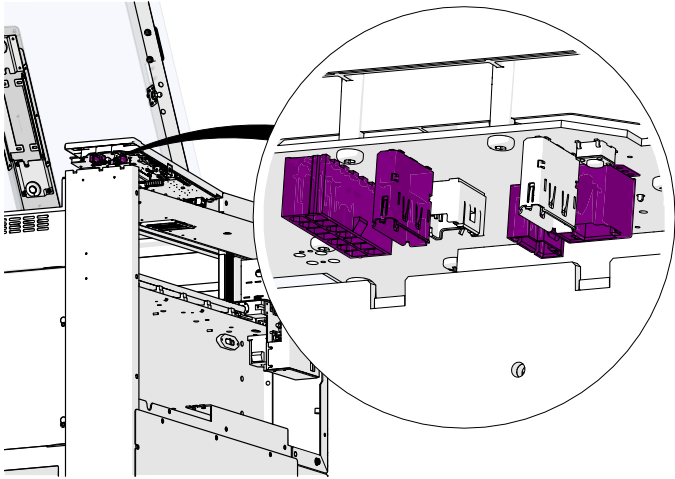

3. Connect the seven (7) electrical harnesses at the rear of the control module:

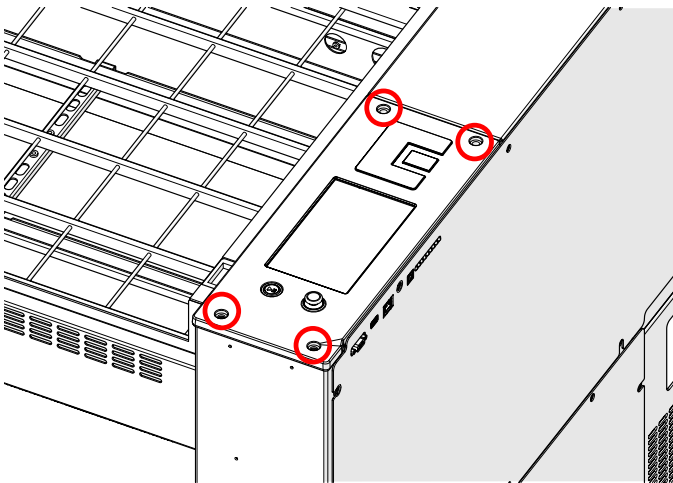4. Connect the flex cable at the middle of the control module:

5. Connect the four (4) electrical harnesses at the front of the control module:

The x-axis drive and fiber source receptacle both use a display port connector. Ensure that the display port cable is plugged in to the appropriate receptacle when reconnecting the front electrical harnesses.

6. Install and tighten the four (4) 5/32" Allen screws on the control module ensuring the two (2) longer screws are installed towards the rear:

7. Reconnect to power and turn on the engraver.
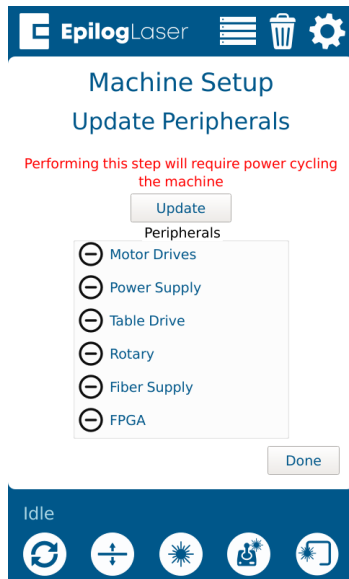
Programming the SD Card

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.

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.

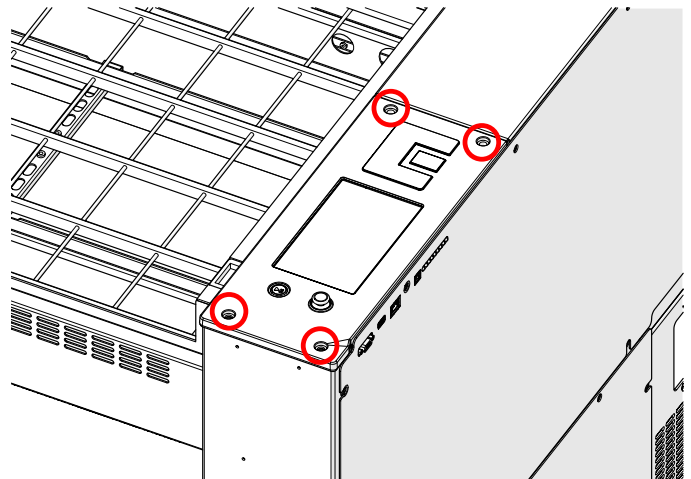5. Once the engraver prompts you to restart, power cycle the engraver.

SD Card Replacement (Fusion Pro 24/36)

Control Module/SD Card Removal

1. Turn off the engraver.

2. Disconnect engraver from power source.

3. Open the top door of the engraver.

4. Disconnect the connection cable (USB, ethernet, fan control, etc.) from the engraver.

5. Remove the right panel of the engraver.

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

7. Loosen and remove the four (4) 5/32" Allen screws on the control module:
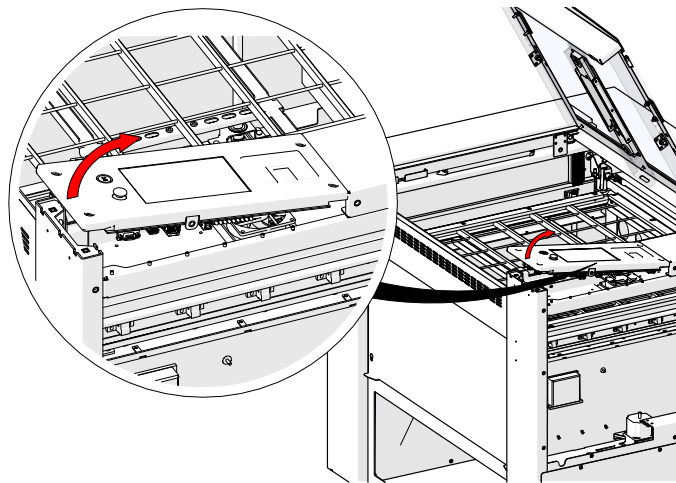
The control module on the Fusion Pro 24 and Fusion Pro 36 interfaces with the engraver much differently than the Fusion Edge engraver.

Whereas the Fusion Edge engraver houses electrical connections directly on the underside of the control module, the Fusion Pro 24 and Fusion Pro 36 engraver control module uses two (2) multi-pin connectors that interface with a backplane board.

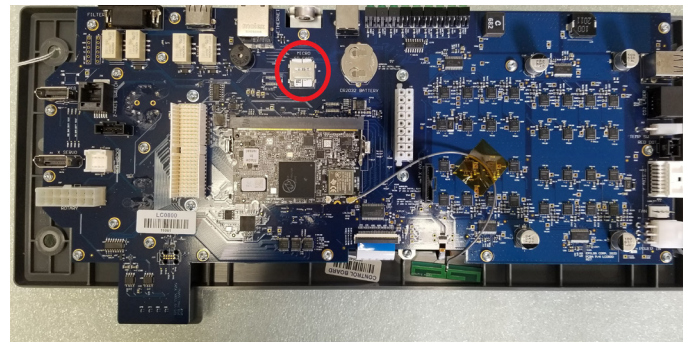Take care when removing and installing the control module, ensuring that the multi-pin connectors are not damaged.

8. Grasp the bottom of the display shroud and gently raise the bottom of the control module upwards, applying gentle pressure to unseat the mutli-pin connectors:
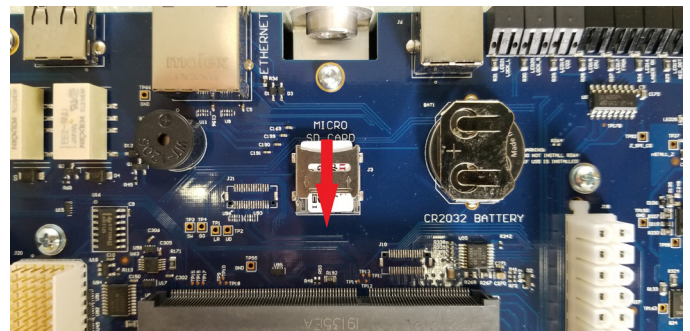

9. Remove the control module.

10. Set the control module face-down on a soft surface to ensure it does not become damaged.
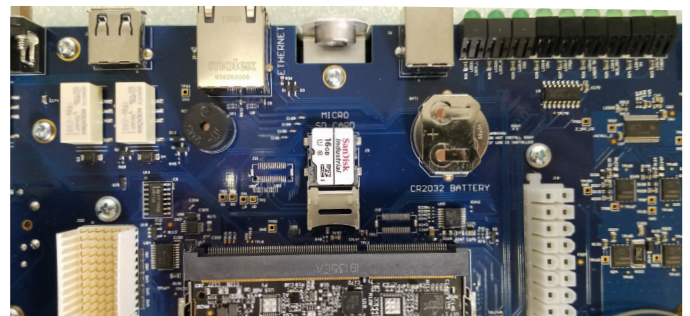
11. Locate the SD card holder on the underside of the control module:
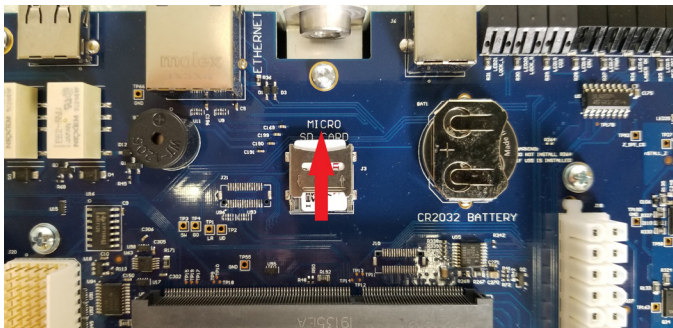

12. Slide the SD card retention latch down to unlock it and carefully lift the SD card out:

13. Carefully insert the new SD card into the SD card holder ensuring the proper orientation. The exposed copper terminals should face the control board:
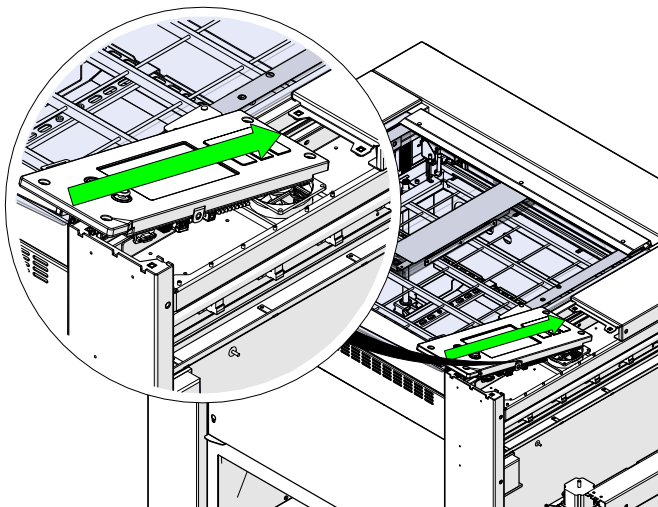
14. Carefully press down on the retention latch and slide it up to secure the SD card:
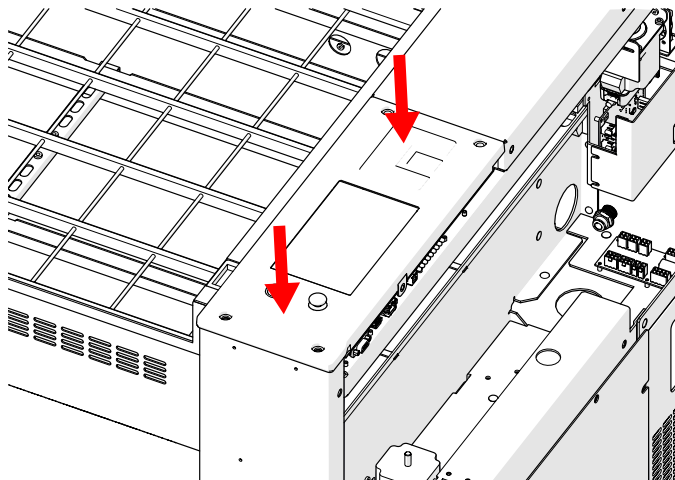

Control Module/SD Card Installation

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

2. Place the control module in position, ensuring that the screw holes in the display shroud align with the mounting screw holes on the chassis of the engaver:

3. Once the control module is in the appropriate position, push down on the control module, applying gentle pressure to seat the multi-pin connectors:

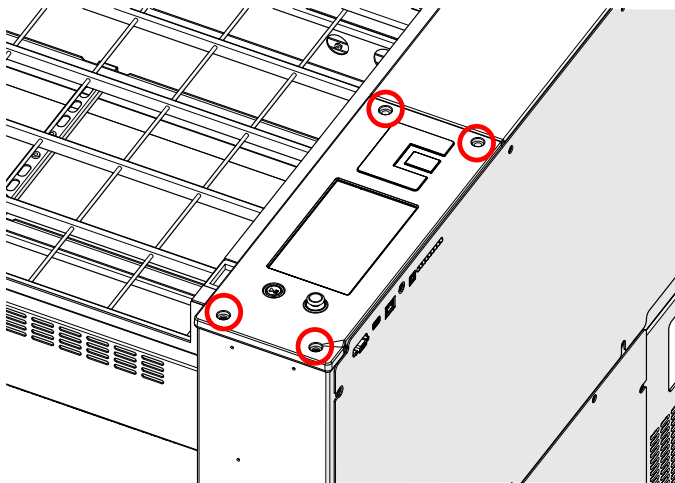**If the control module does not seat with gentle pressure, do not force it down as the multi-pin connectors may become damaged. Lift the control module away from the engraver and ensure proper positioning with the chassis of the engraver before attempting installation again.**

4. When the control module successfully seats, there will be tactile and audible feedback as the multi-pin connectors and receptacles join together.

5. Install and tighten the four (4) 5/32" Allen screws on the control module ensuring the two (2) longer screws are installed towards the rear:
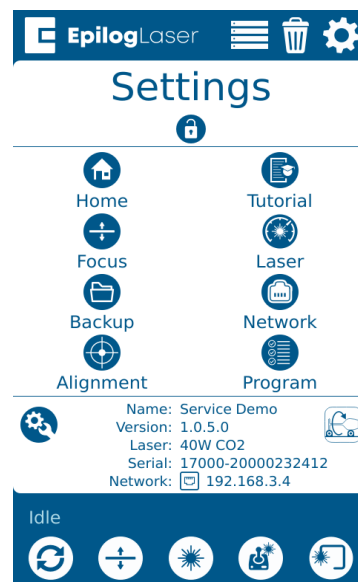

6. Reconnect to power and turn on the engraver.
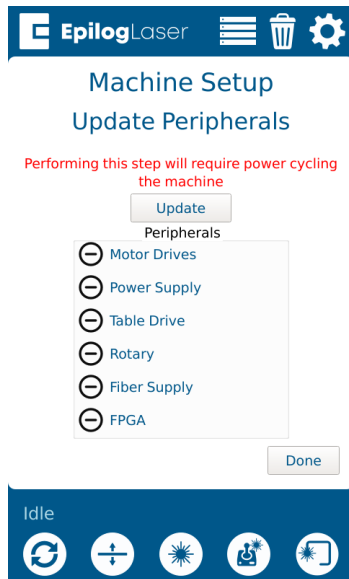
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2. Press Program to enter the Peripheral Update menu:

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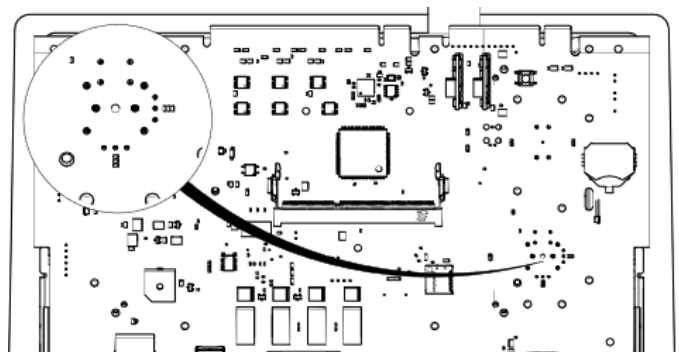
5. Once the engraver prompts you to restart, power cycle the engraver.

Coin Battery Replacement

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 engraver.

5. Remove the control module as outlined in the Control Module Removal procedure above.

6. Set the control module face-down on a soft surface to ensure it does not become damaged.

7. Locate the battery holder on the underside of the control module:

8. Slide the battery out of the battery holder.

11. Slide the new battery into the battery
     holder, ensuring proper orientation.
     The positive terminal will face up, while
     the negative terminal will face the
     control board.

12. Install the control module as outlined
     in the "Control Module Installation"
     procedure.

13. Turn on the engraver, and let it
     complete the startup process.

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