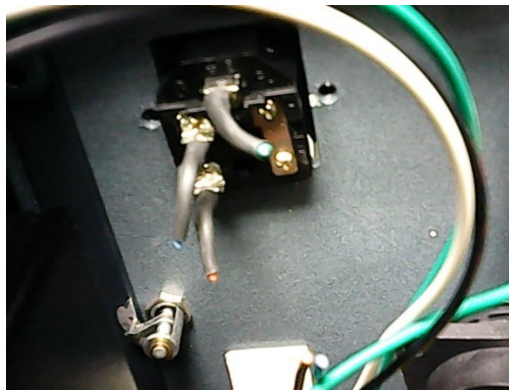


Upgrading a CPSM

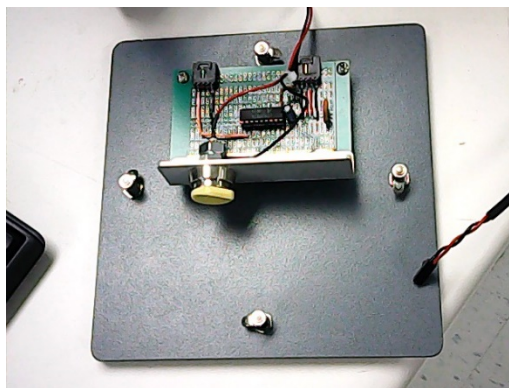
(TE83064-7 was converted to TE084050-10 for this guide)

Disassembly

- 1.) Remove the **Top Panel** and set it aside for reuse.
- 2.) Unscrew the 3 connections from the **Old Power Panel**.
- 3.) Disconnect the wires from the **AC Power Inlet**. In this case, the wires needed to be cut. They will be reattached later.

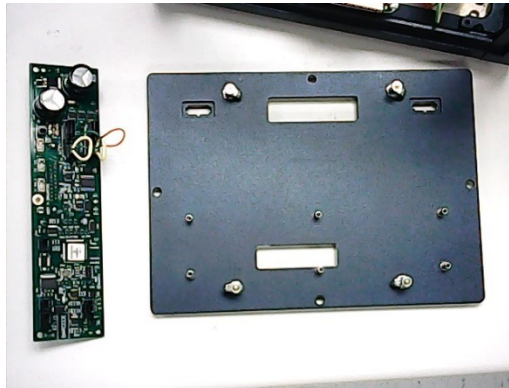


- 4.) Remove the **Old Power Panel**. It can be discarded.
- 5.) Disconnect the 3 connections to the **Custom Ecord Board**.
- 6.) Remove the **Custom Ecord Panel** leaving the **Custom Ecord Board** screwed in place. This section will be reused.



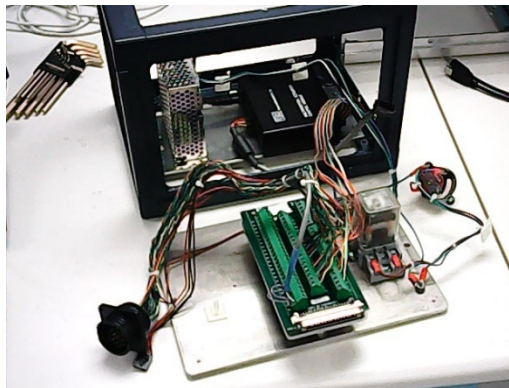
- 7.) Pop out the **VICI 10 Pin Cord** from the **Back Panel**.
- 8.) Disconnect the **Back Panel**.

9.) Unscrew the **Column Heater Board** (to be reused) and discard the **Back Panel**.



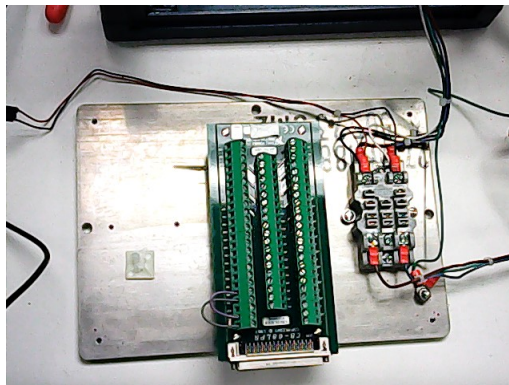
10.) Remove the **Front Panel** and set it aside for reuse.

11.) Remove the **Bottom Panel**.

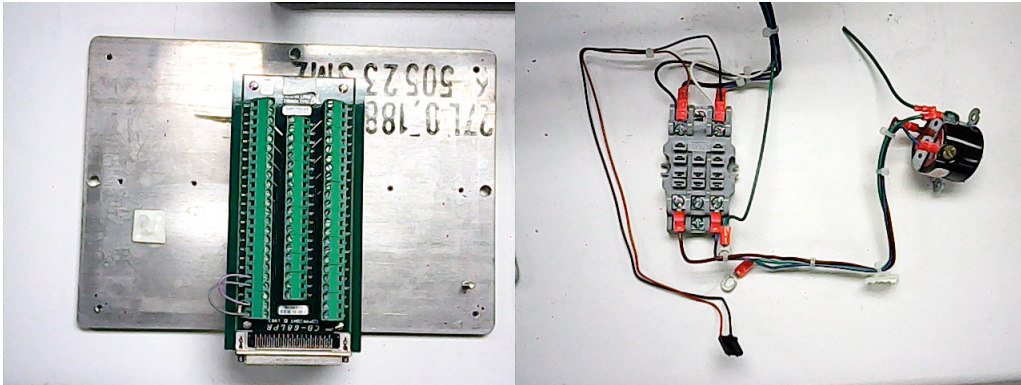


12.) Disconnect all the wires from the **Old NI Card**.

13.) Remove the **Relay (5V)** and discard.



14.) Unscrew the **Relay Block** and any grounding wires from the **Bottom Panel**. The **Relay Block** will be reused. The **Bottom Panel** can be discarded.

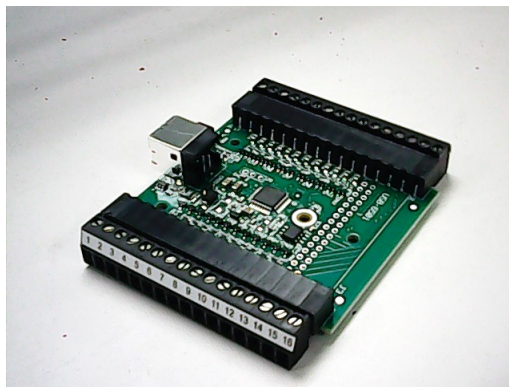


Rewire

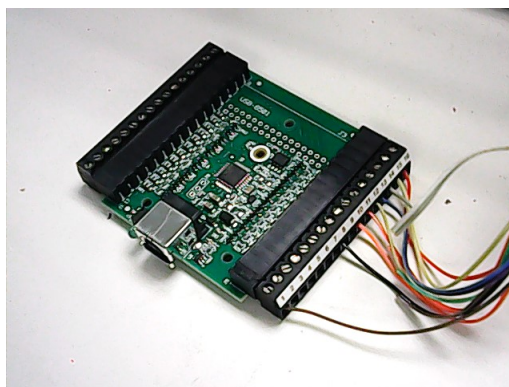
- 1.) Remove the **NI USB-6501** from its housing.



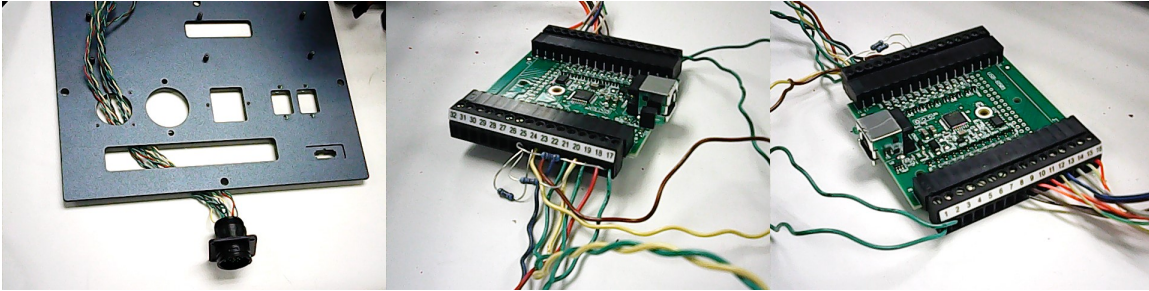
- 2.) Attach the 2 female pin connectors to the **NI USB-6501** and label accordingly.



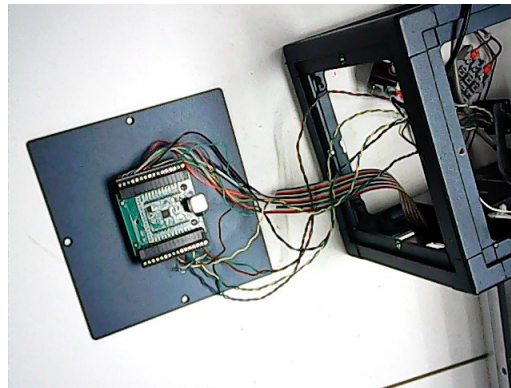
- 3.) Using the **Internal Wiring II** tab of the **Wiring Diagram**, connect the **PSU Wire Bundle** to the **NI USB-6501**.



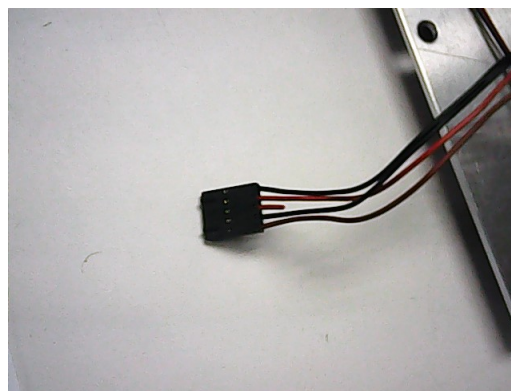
- 4.) Using the **Internal Wiring I** tab of the **Wiring Diagram**, connect a **CPC Connector (16 Pin)** to the **NI USB-6501**. Thread the wires through the appropriate slot in the **New Back Panel** as you connect them (see the first image below).



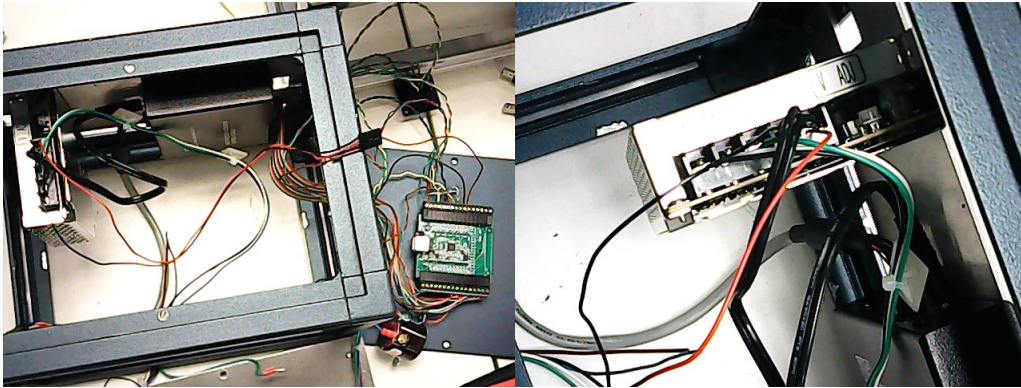
- 5.) Thread the **NI USB-6501** through the appropriate side of the box (see below). Attach the **NI USB-6501** to the **NI USB-6501 Panel**.



- 6.) Cut the center wire of the **Custom 5 Pin Cord**.



- 7.) Using the **Relay Driver** tab of the **Wiring Diagram**, connect the wires to the **PSU** and **NI USB-6501**.

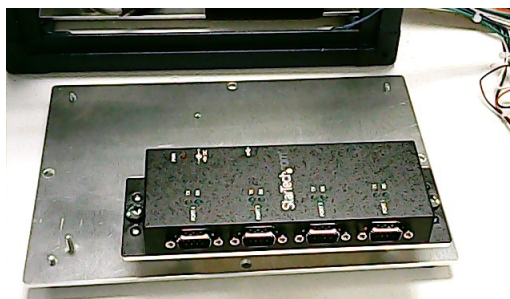


Assembly

- 1.) Assemble the **New Bottom Panel Assembly** as shown below.

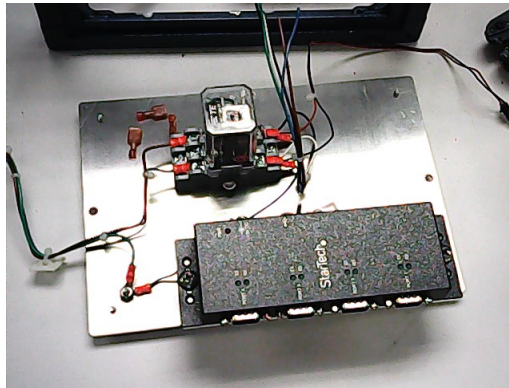


- 2.) Attach the **Startech Serial Port** to the **New Bottom Panel**.

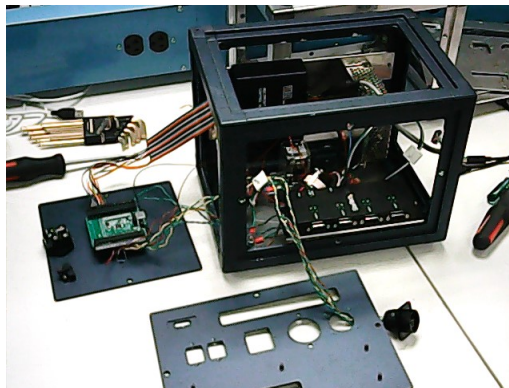


- 3.) Attach the **Relay Block** to the **New Bottom Panel**. If there are ground wires, connect them to the ground screw anchor.

4.) Plug the **Relay (24V)** into the **Relay Block**.



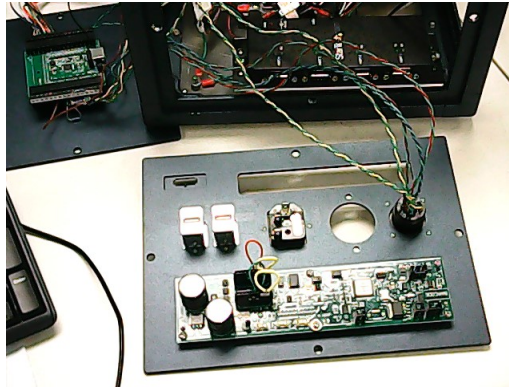
5.) Attach the **New Bottom Panel** to the CPSM Structure.



6.) Attach the **CPC Connector (16 Pin)**, the **AC Power Inlet**, and 2 **AB USB Adaptors** to the **New Back Panel**.



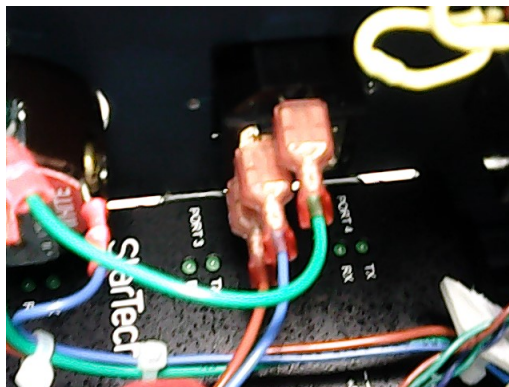
- 7.) Per the **AC Wiring** tab of the **Wiring Diagram**, place a 10A / 125V fuse into the **AC Power Inlet**.
- 8.) Attach the **Column Heater Board** to the **New Back Panel**.



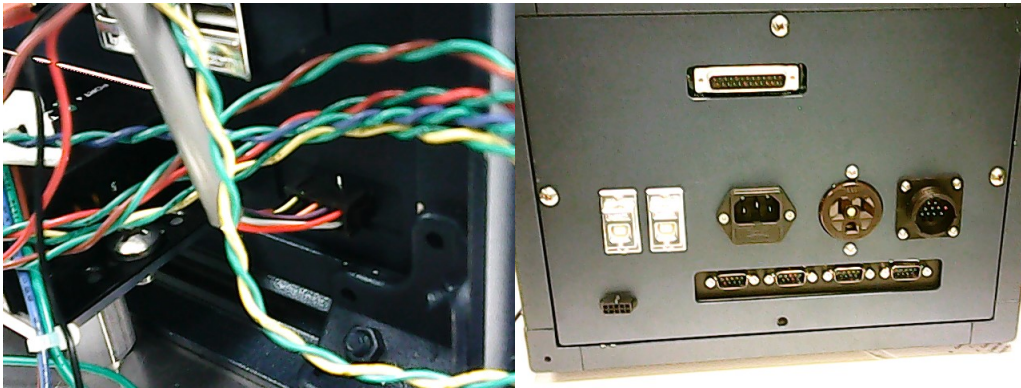
- 9.) Attach the **New Back Panel** to the CPSM Structure.
- 10.) Attach the **Hubbell Adaptor** to the **New Back Panel**.



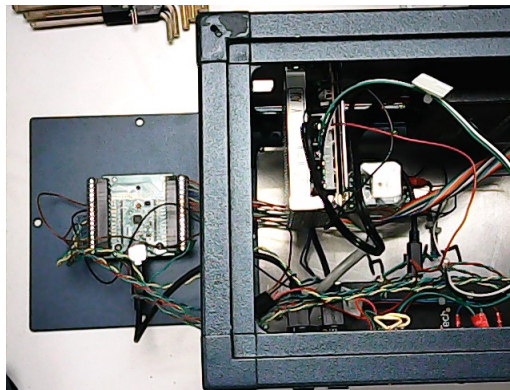
- 11.) Connect the wires from the **Relay Block** and the **Hubbell Adaptor** to the **AC Power Inlet** per the **AC Wiring** tab of the **Wiring Diagram**.



12.) Pop the **VICI 10 Pin Cord** into the appropriate slot.



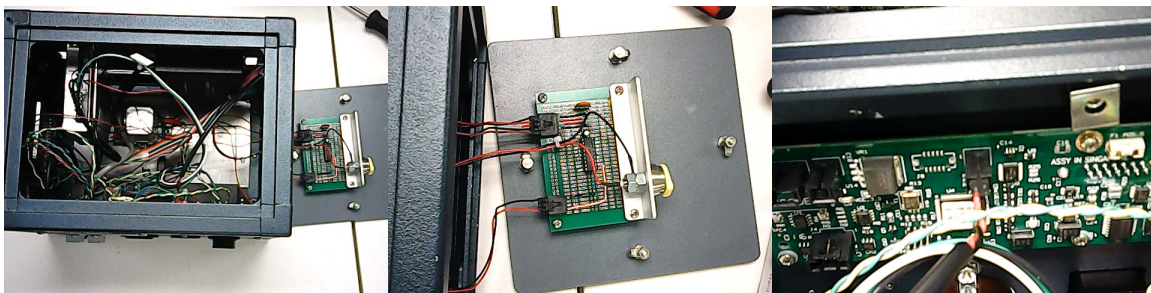
13.) Take 2 **AB USB Cords** and connect the **NI USB-6501** and the **Startech Serial Port** to the 2 **AB USB Adaptor**.



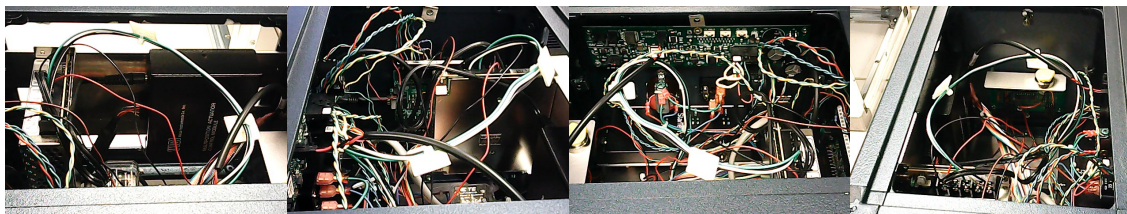
14.) Attach the **NI USB-6501 Panel** to the CPSM Structure.

15.) Connect the wire from the **Relay Block** and the **Custom 5 Pin Cord** to the **Custom Ecord Board**.

16.) Connect the wire from the **Custom Ecord Board** to the **Column Heater Board**.



17.) Attach the **Custom Ecord Panel** to the CPSM Structure.



18.) Attach the **Top Panel** and the **Back Panel**.



Glossary



Front Panel



Back Panel



Custom Ecord Panel



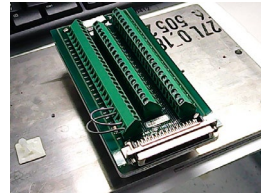
Old Power Panel



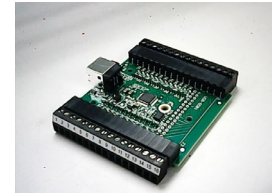
CPC Connector (24 Pin)



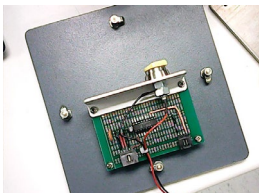
CPC Connector (16 Pin)



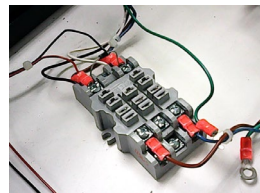
Old NI Card



NI USB-6501



Custom Ecord Board



Relay Block



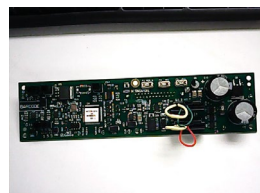
Relay (5V)



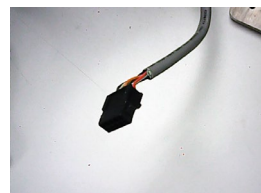
Relay (24V)



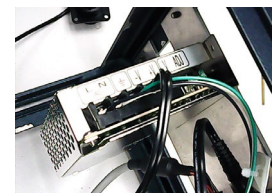
Startech Serial Port



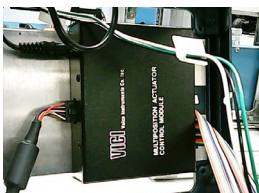
Column Heater Board



VICI 10 Pin Cord



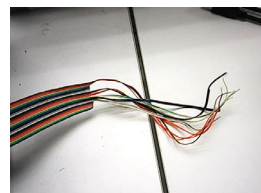
PSU



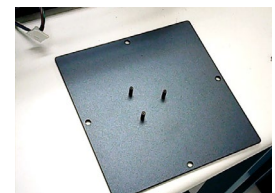
Controller



Custom 5 Pin Cord



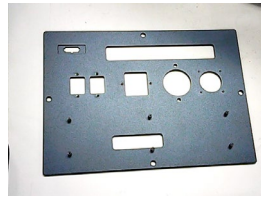
PSU Wire Bundle



NI USB-6501 Panel



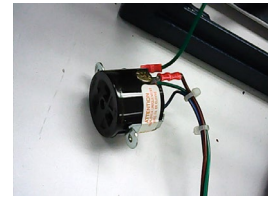
**New Bottom Panel
Assembly**



New Back Panel



AC Power Inlet



Hubbell Adaptor



AB USB Adaptor



AB USB Cord

