

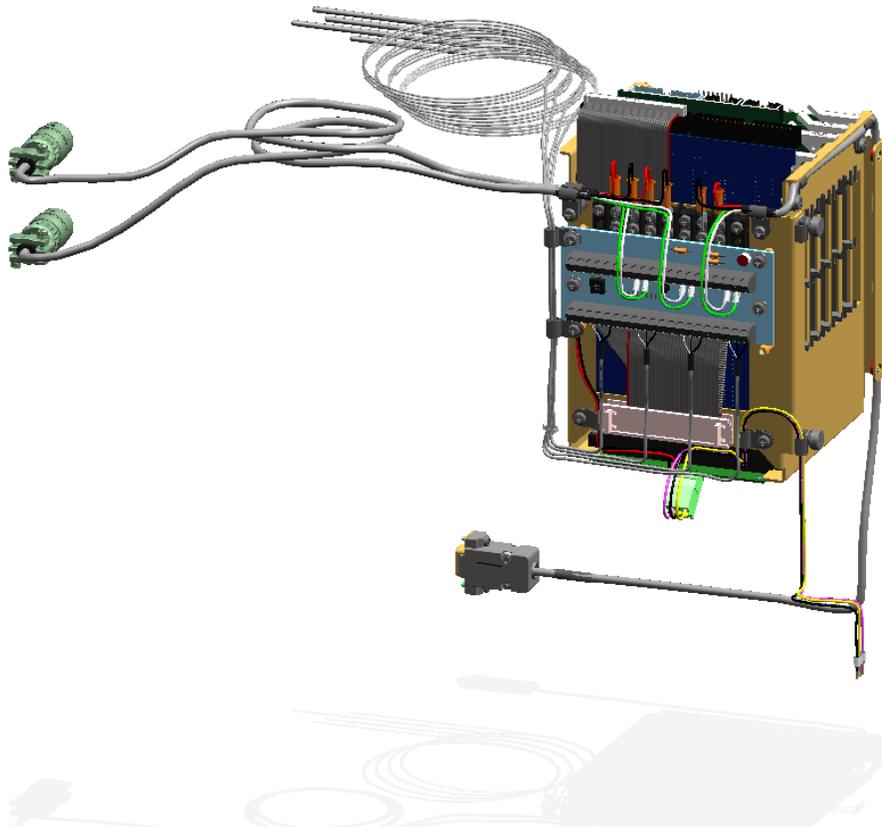
Humidity Generation and Calibration Equipment

**THUNDER SCIENTIFIC**

**CORPORATION** THE HUMIDITY SOURCE

# *Model 2500*

## System PCB Card Installation



Tech Support Document TSD-0232

Revision Date: January 7, 2010

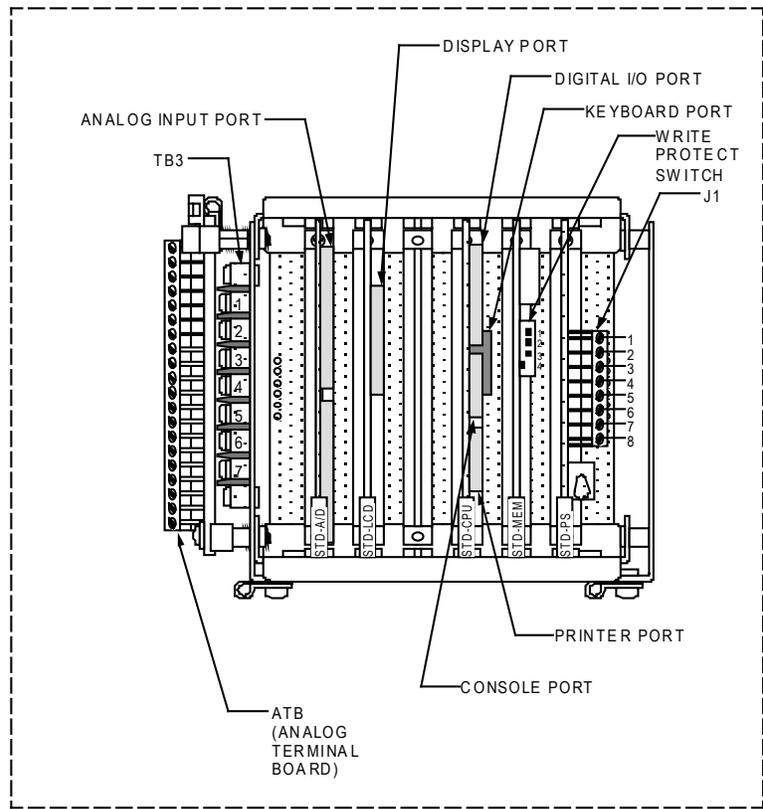
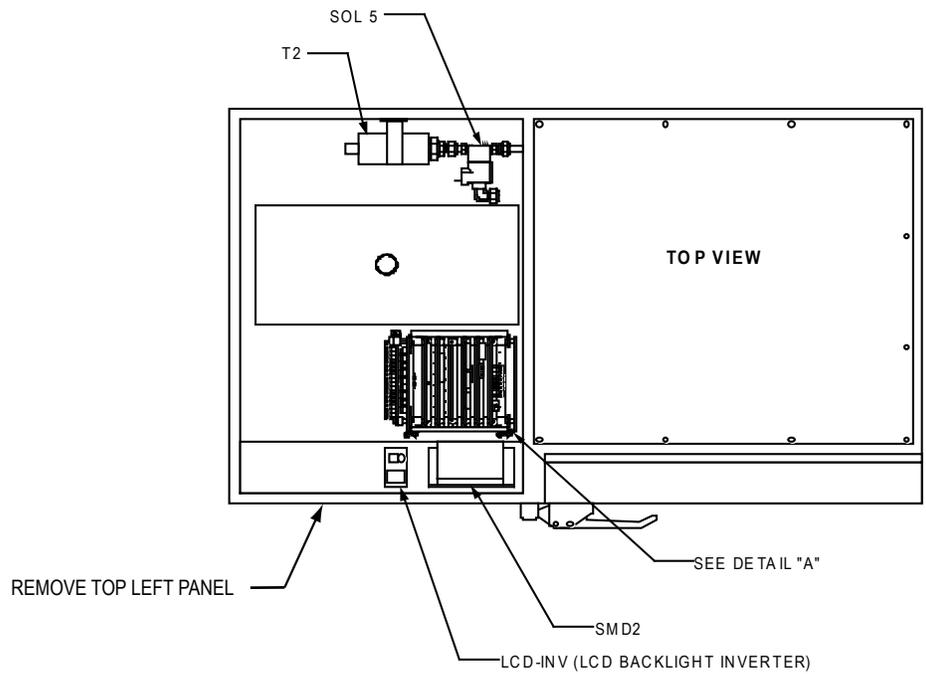
623 WYOMING BLVD. SE



ALBUQUERQUE, NM 87123-3198  
[WWW.THUNDERSCIENTIFIC.COM](http://WWW.THUNDERSCIENTIFIC.COM)



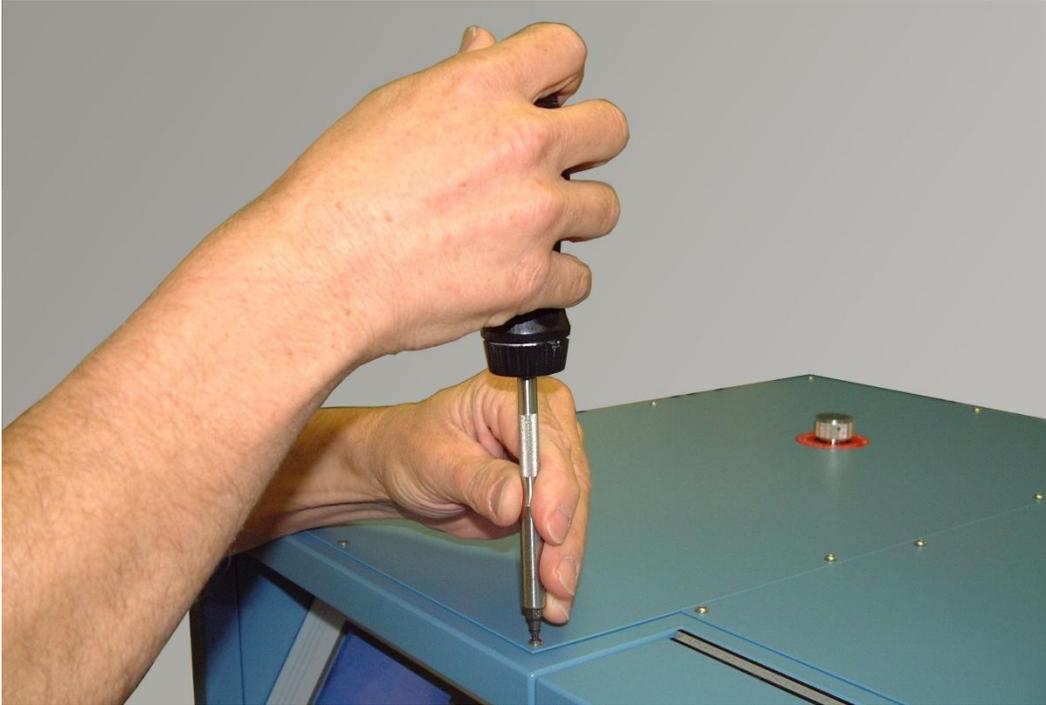
TEL: 505.265.8701  
FAX: 505.266.6203



**DETAIL "A"**  
 SCALE = 1: 2

## Model 2500 System PCB Card Installation

1. Disconnect power from the 2500 system.

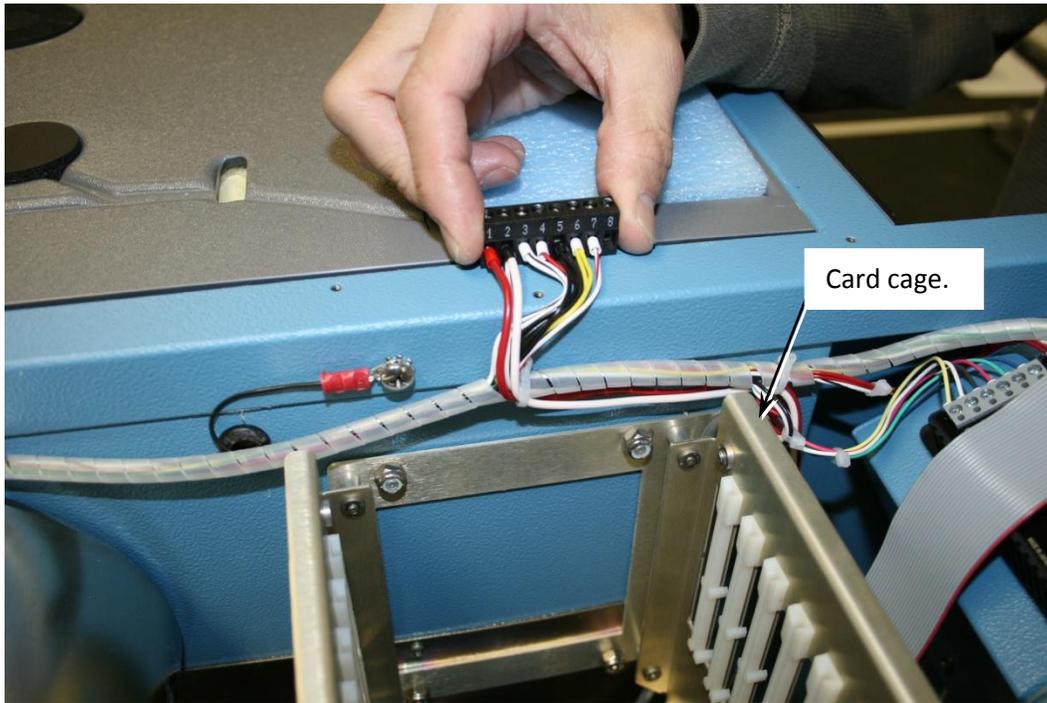


2. Using the Torx driver provided with the system remove the Torx screws on the top left panel.

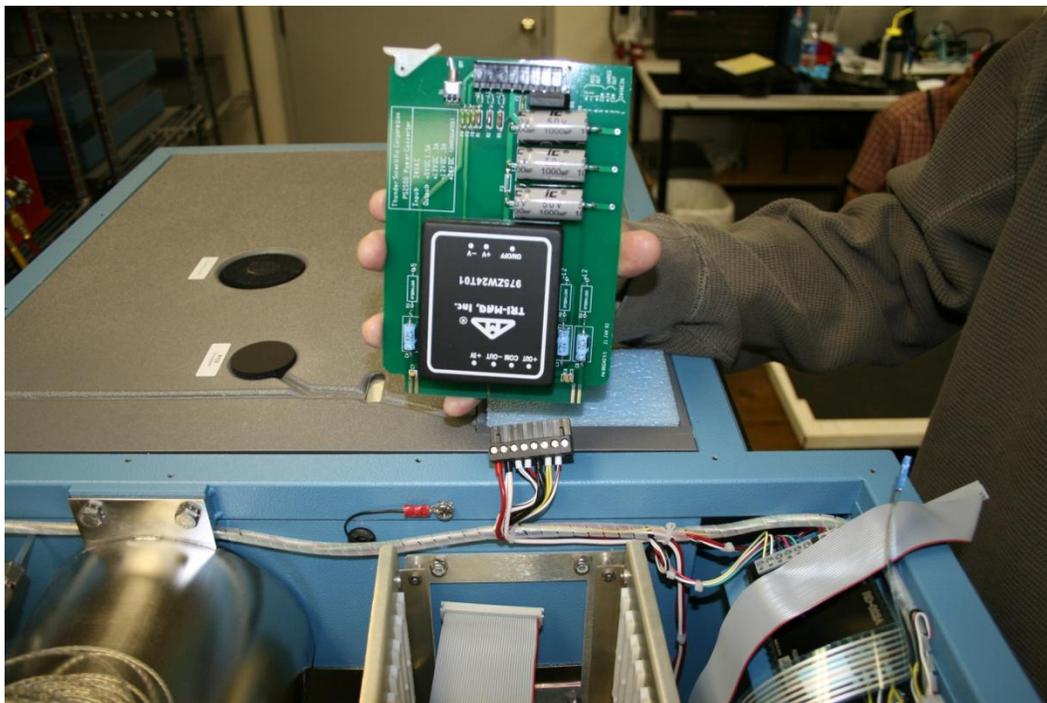


3. Now remove the reservoir fill port cap.

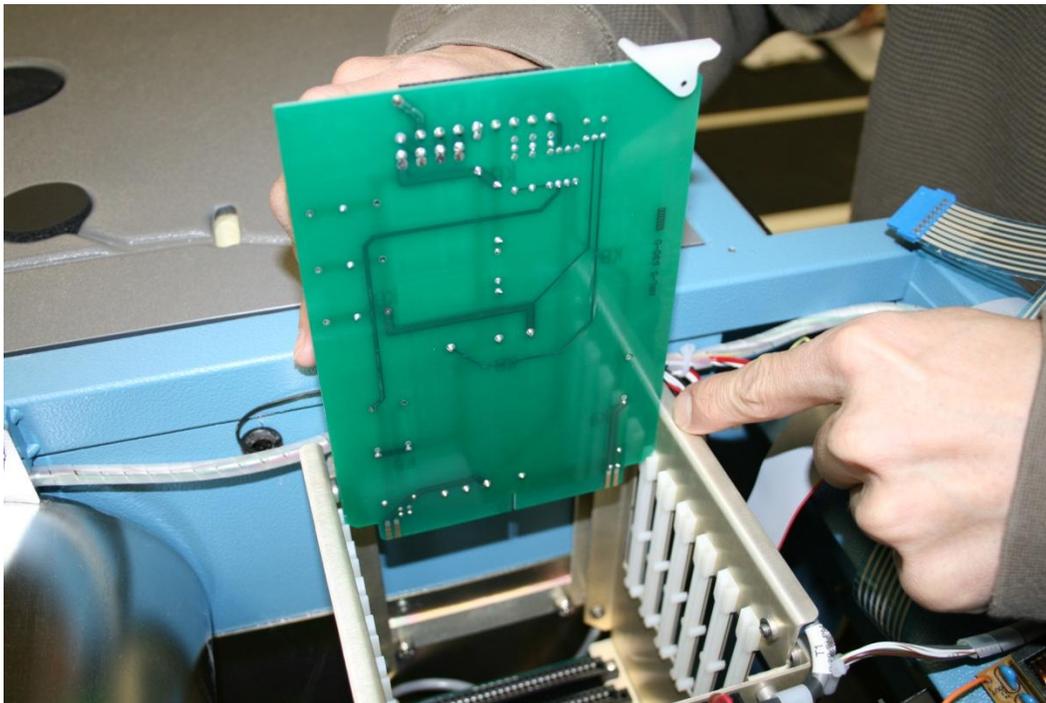
4. Locate the system card cage and pull back the power supply harness.



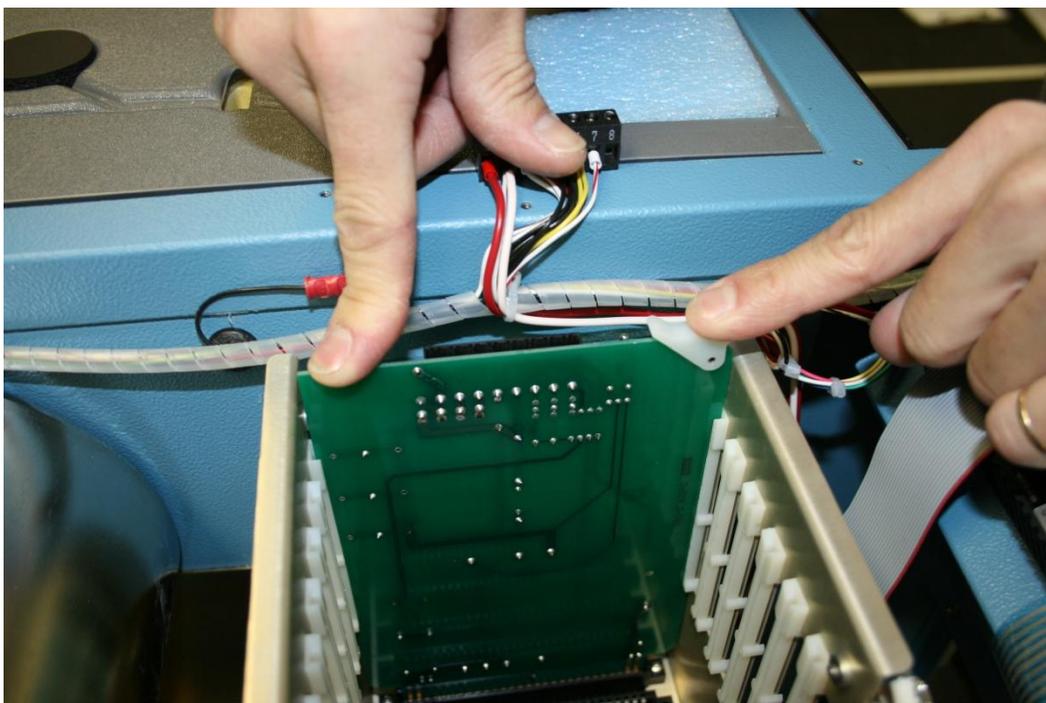
5. Note: use static free precautions when handling the circuit cards.
6. The first card to insert will be the power supply card.



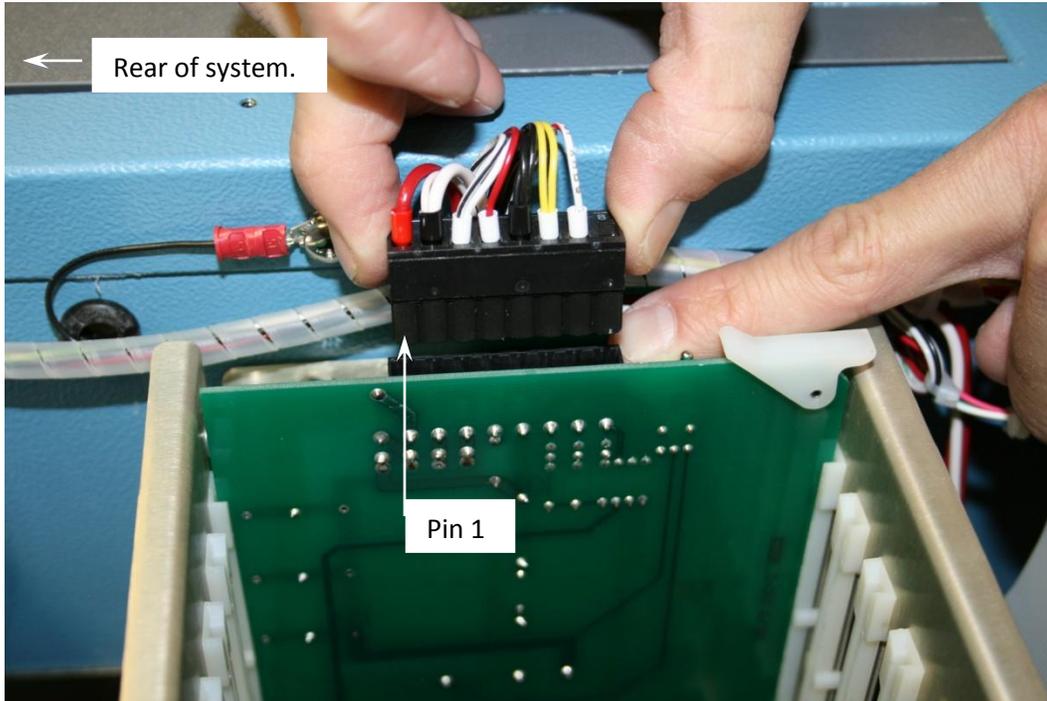
7. Rotate the power supply card 180° and slide it in the first slot guides.



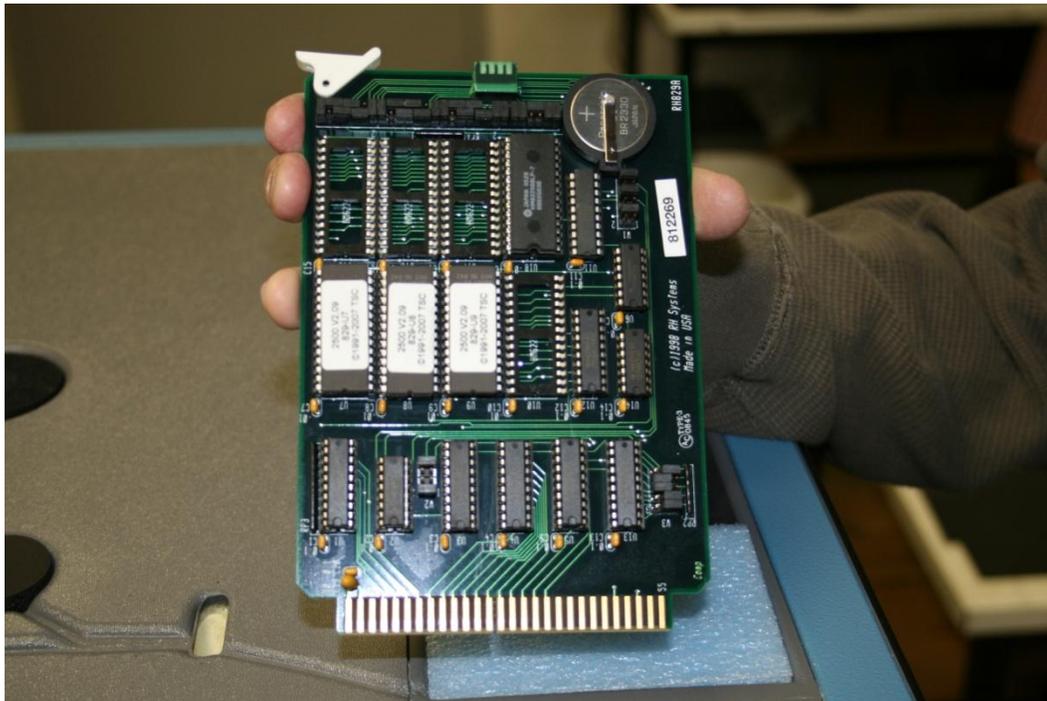
8. Push down on the card until you here a click.



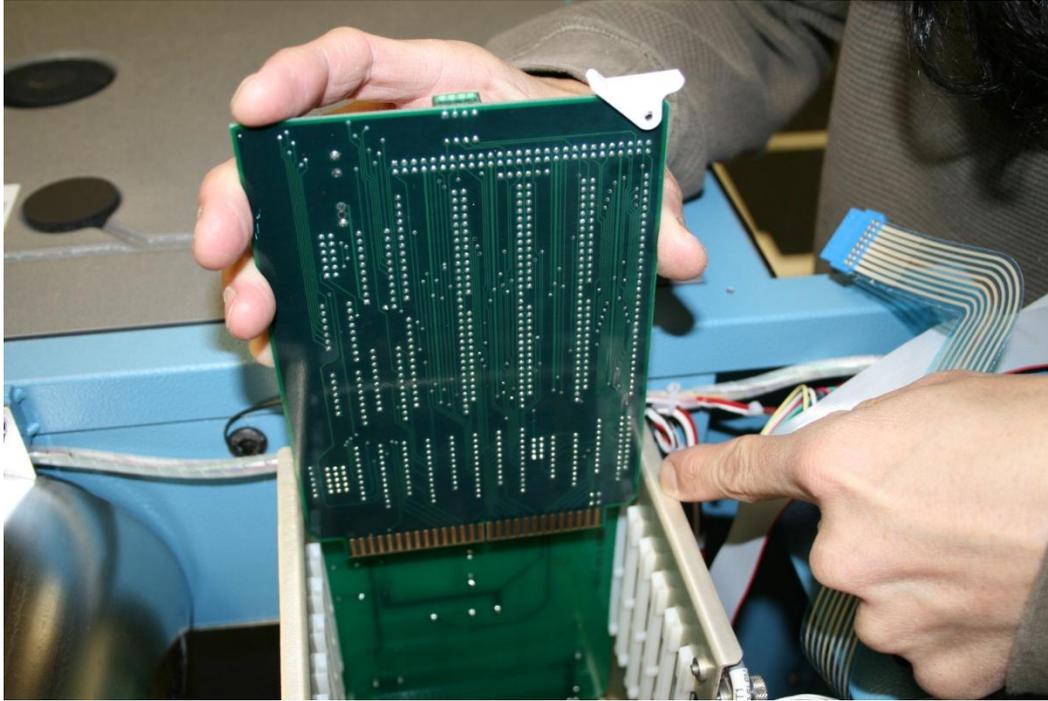
9. Push on the power harness connector with pin 1 facing towards the rear of the machine.



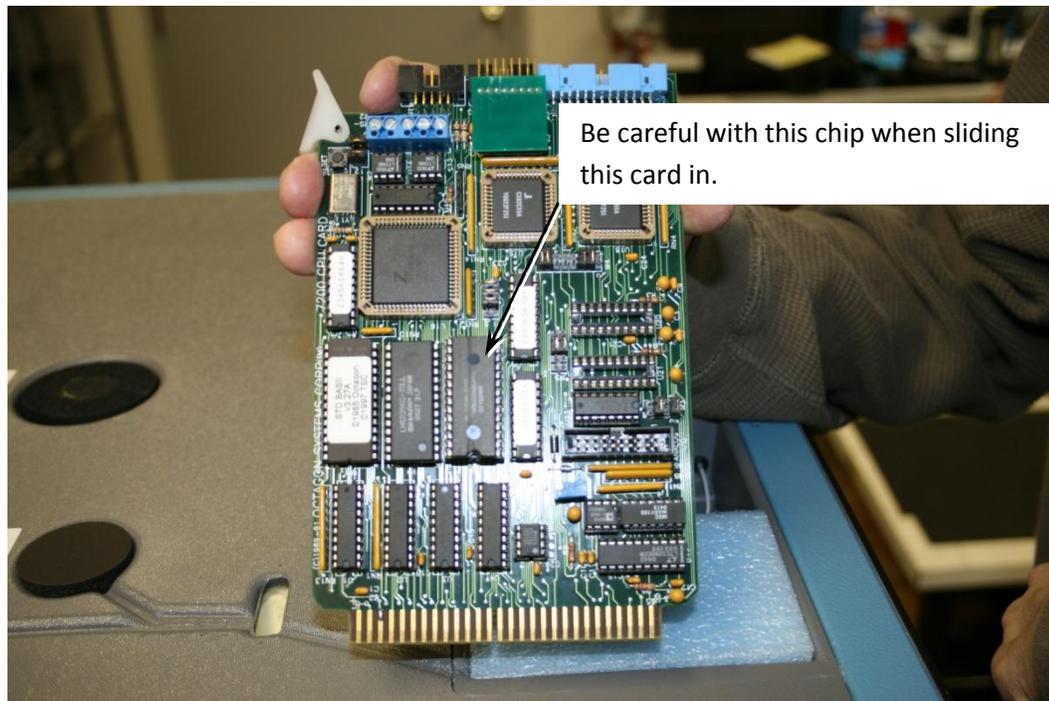
10. The next card to insert will be the memory card.



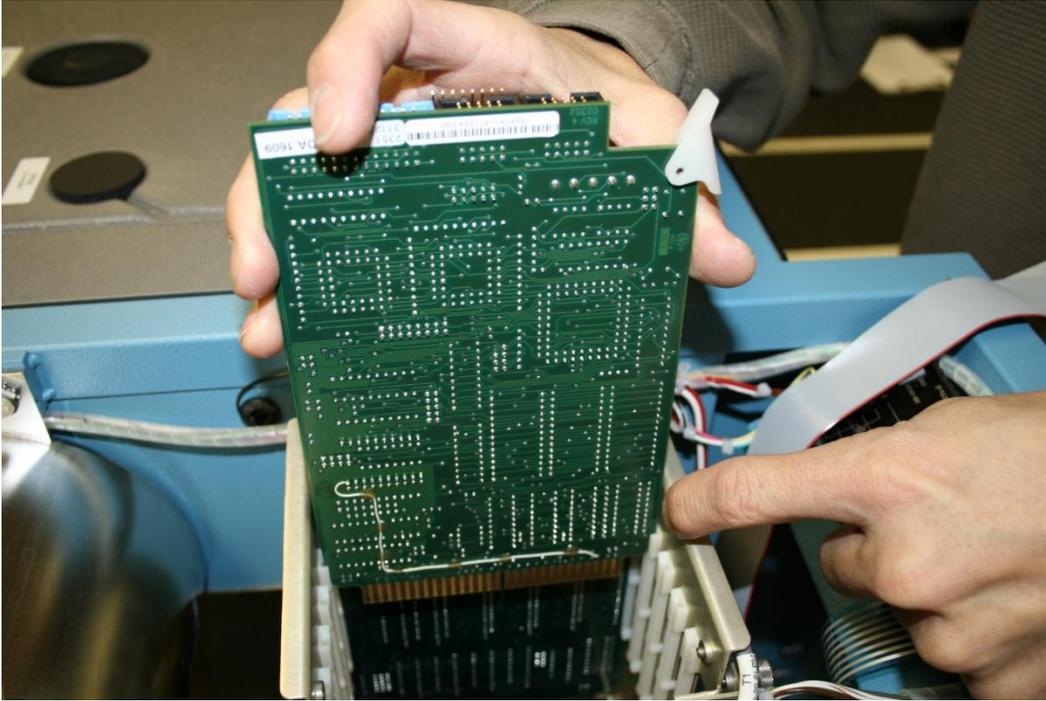
11. Rotate the memory card 180° and slide it in the second slot but do not push down into the motherboard yet.



12. The next card to insert will be the CPU card.



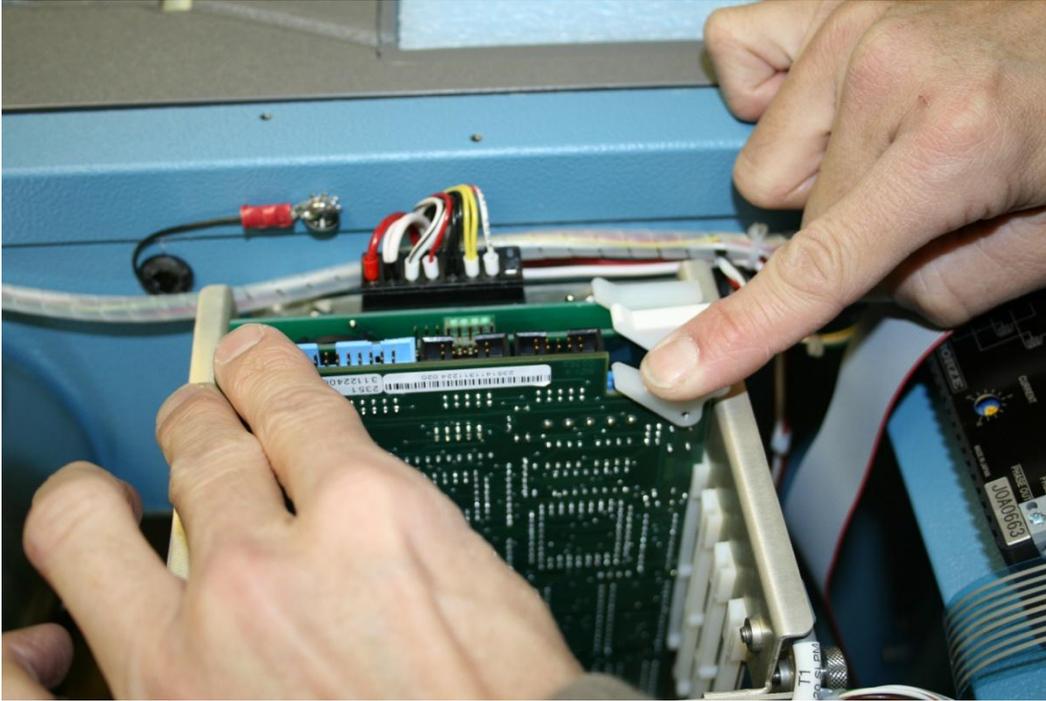
13. Rotate the CPU card 180° and slide it in slot three but do not push down into the motherboard yet.



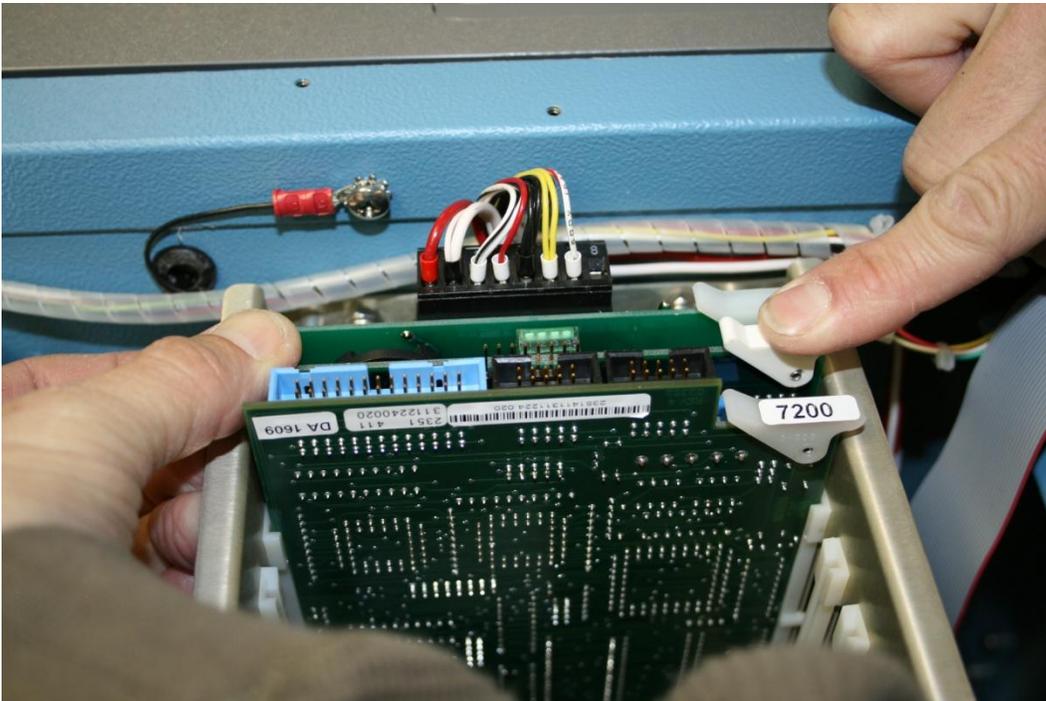
14. Pull the CPU card and the memory card apart from each other so that the CPU card will pass by the memory card freely.



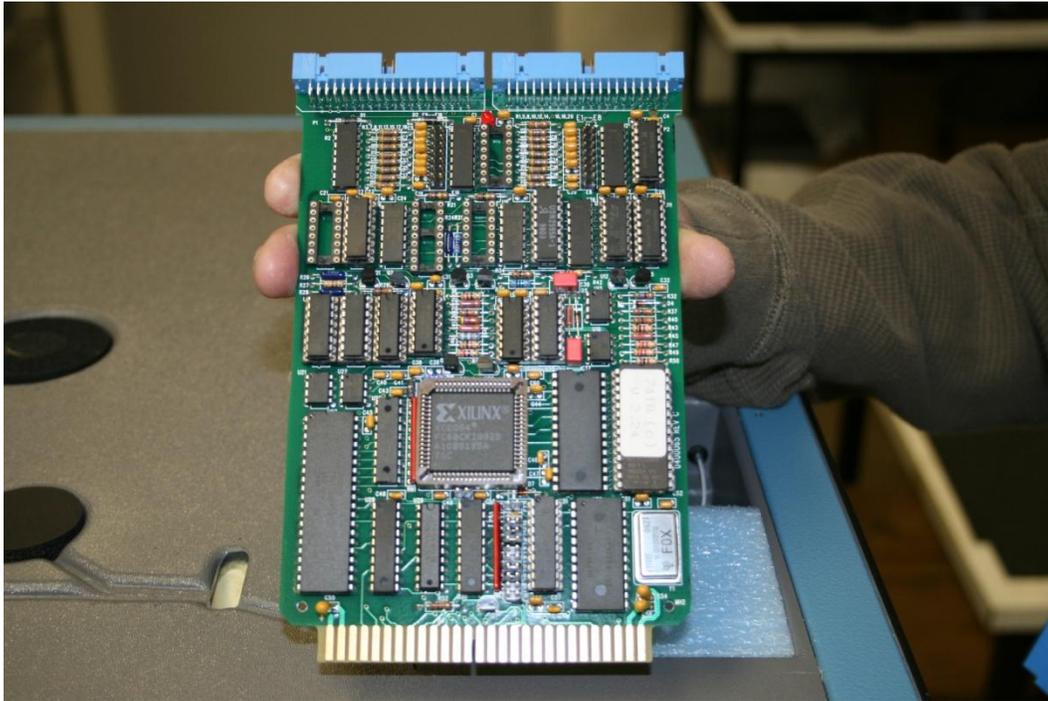
15. Now push down the CPU card into the motherboard.



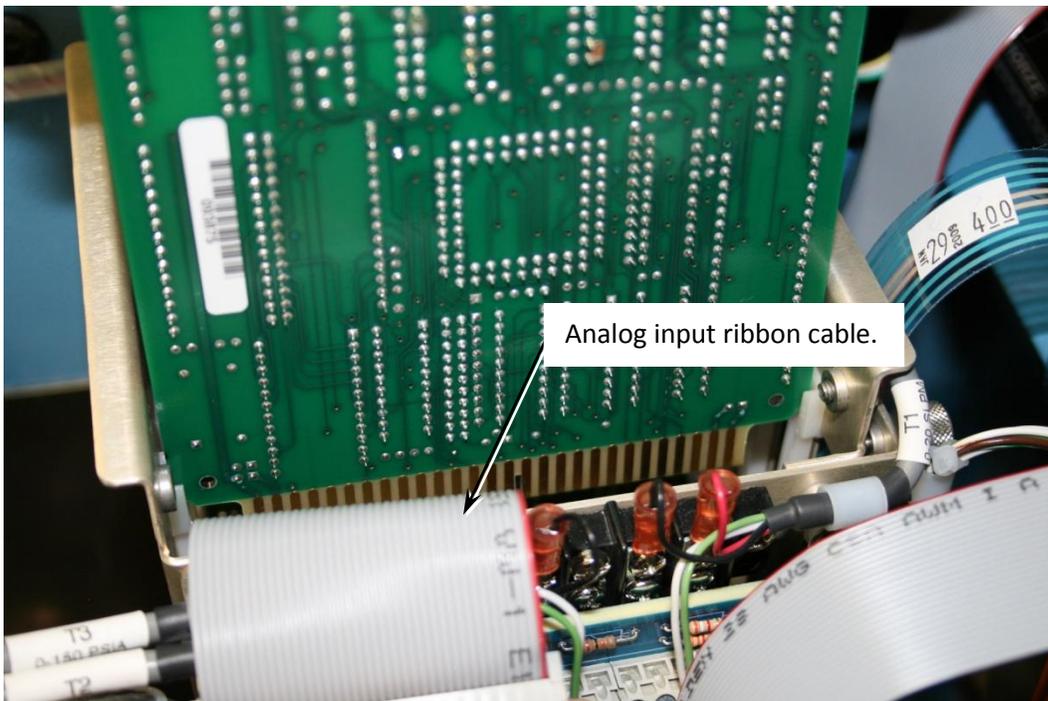
16. Next push down the memory card until it clicks.



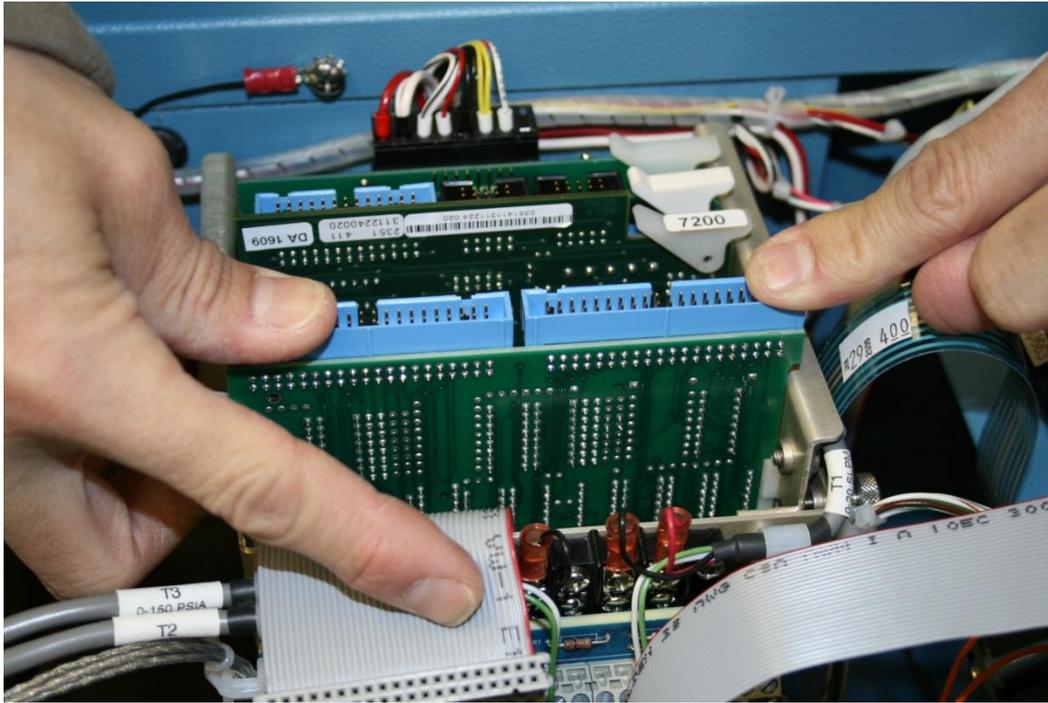
17. The next card to insert will be the A to D card (Analog to Digital).



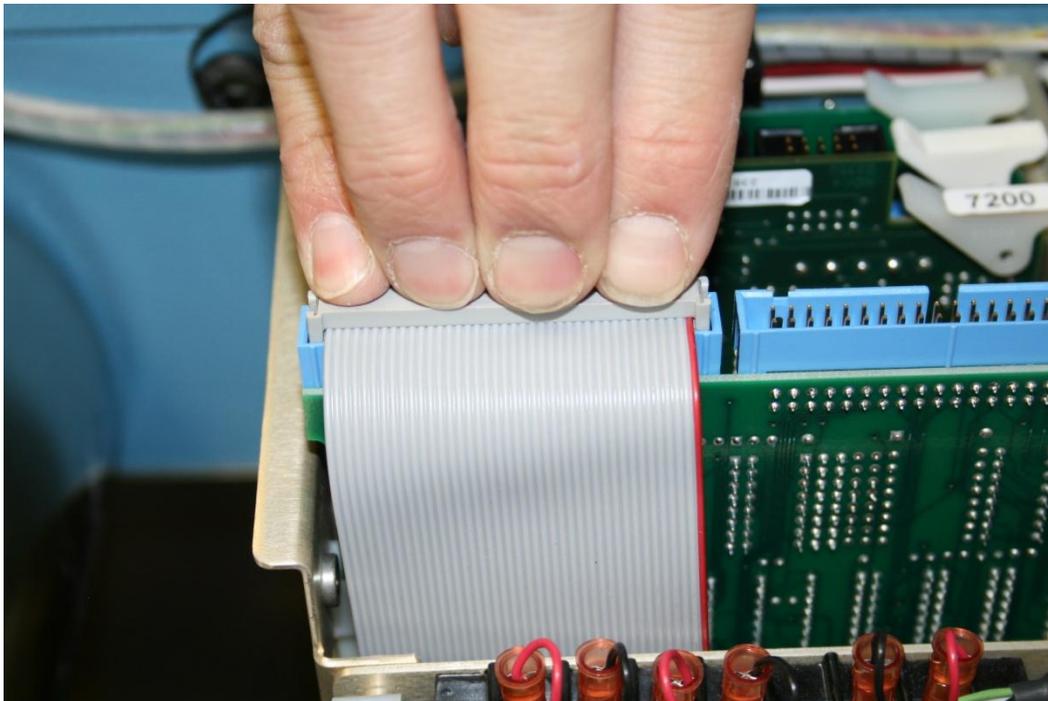
18. Rotate the card 180° and put it in slot six of the card cage and holding back the analog input ribbon cable.



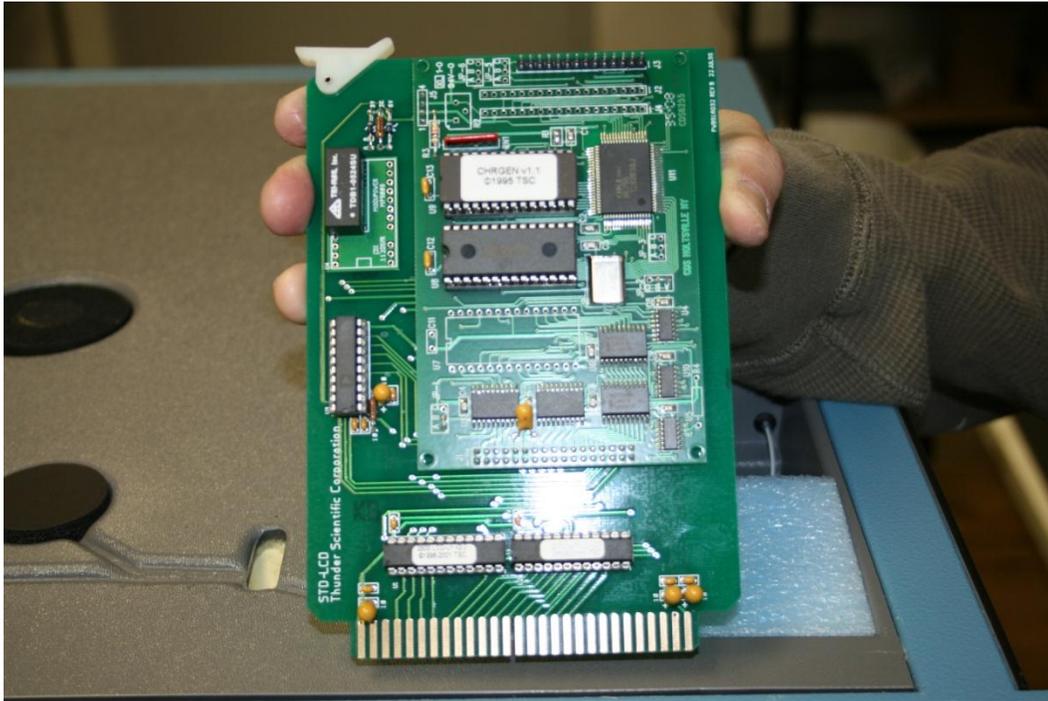
19. Push down firmly on the A to D card until you hear it click into the motherboard.



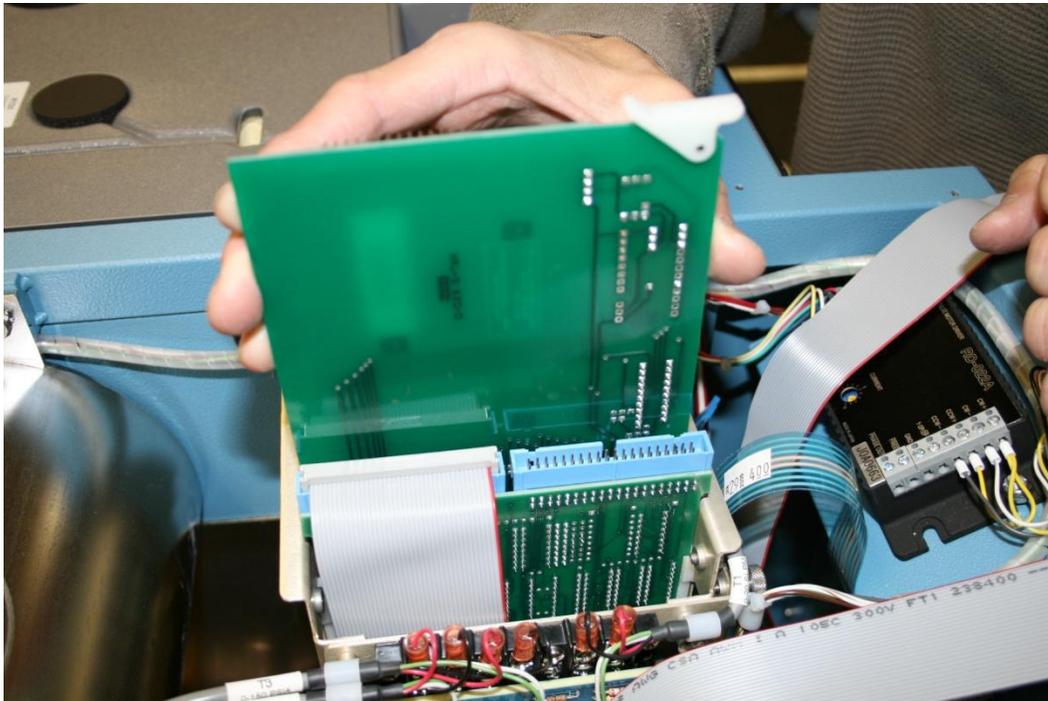
20. Now take the analog input ribbon cable and press it in the connector towards the rear of the system.



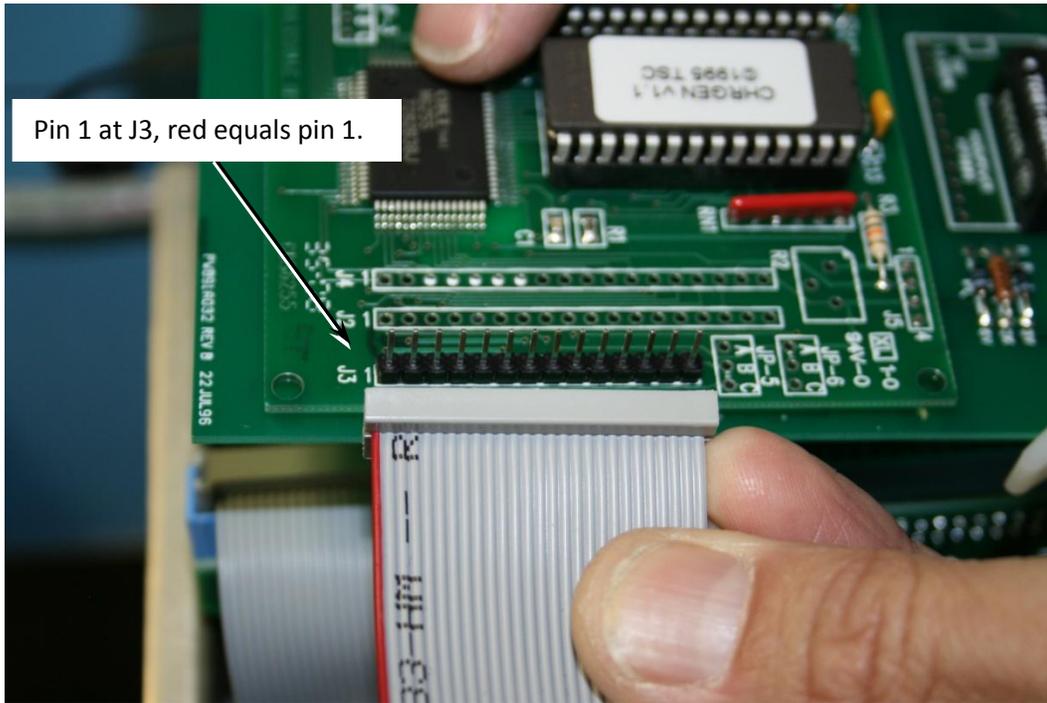
21. The next card to insert will be the LCD card.



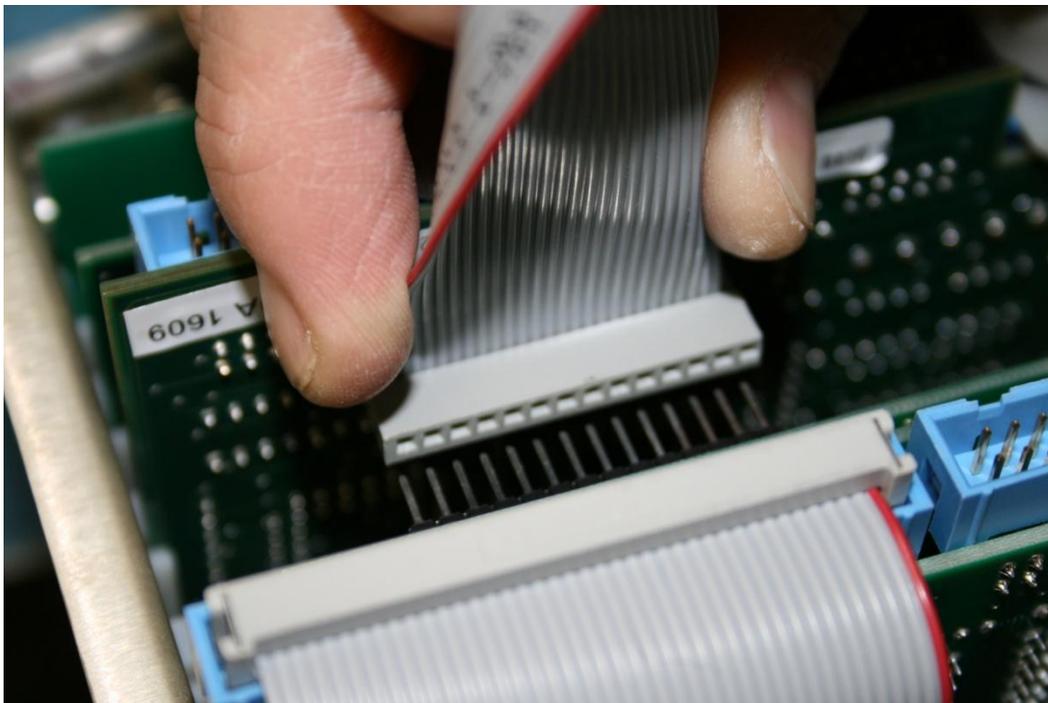
22. Rotate the LCD card 180° and slide it in the fifth slot.



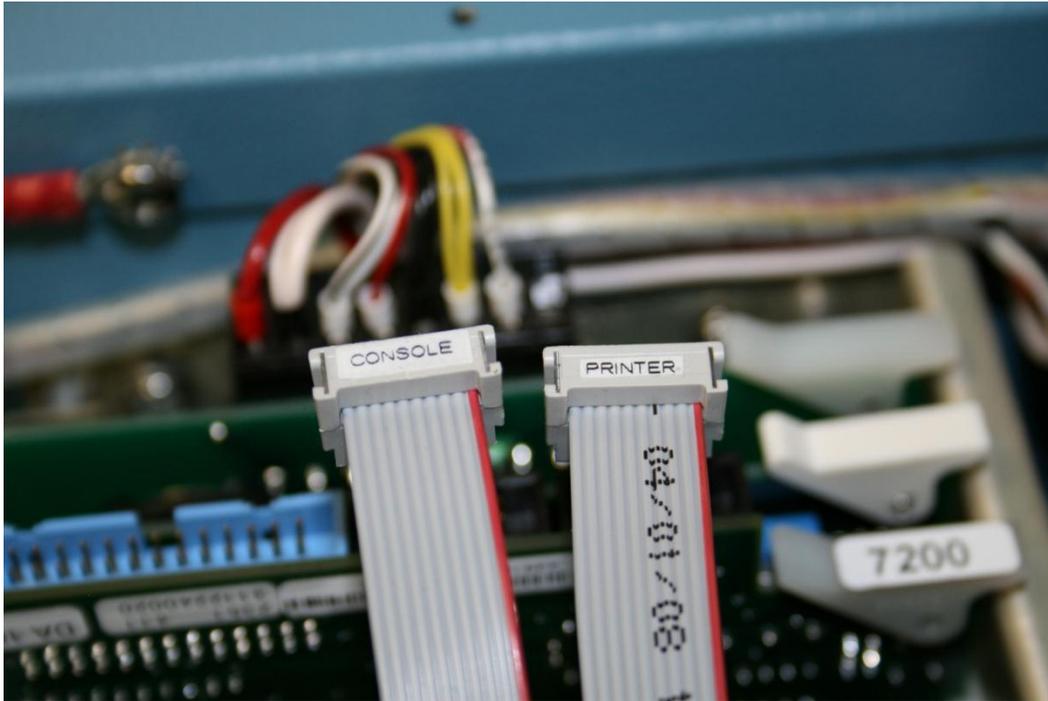
23. Now locate the display port connector at J3 and find pin 1.



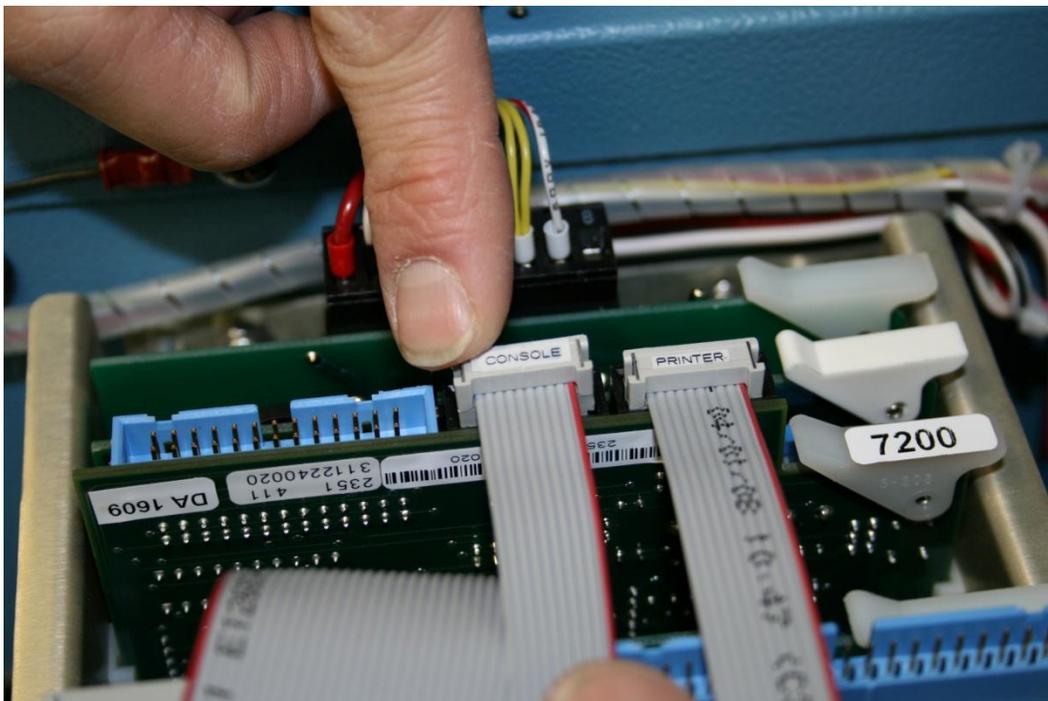
24. Push the display port ribbon cable on the J3 connector.



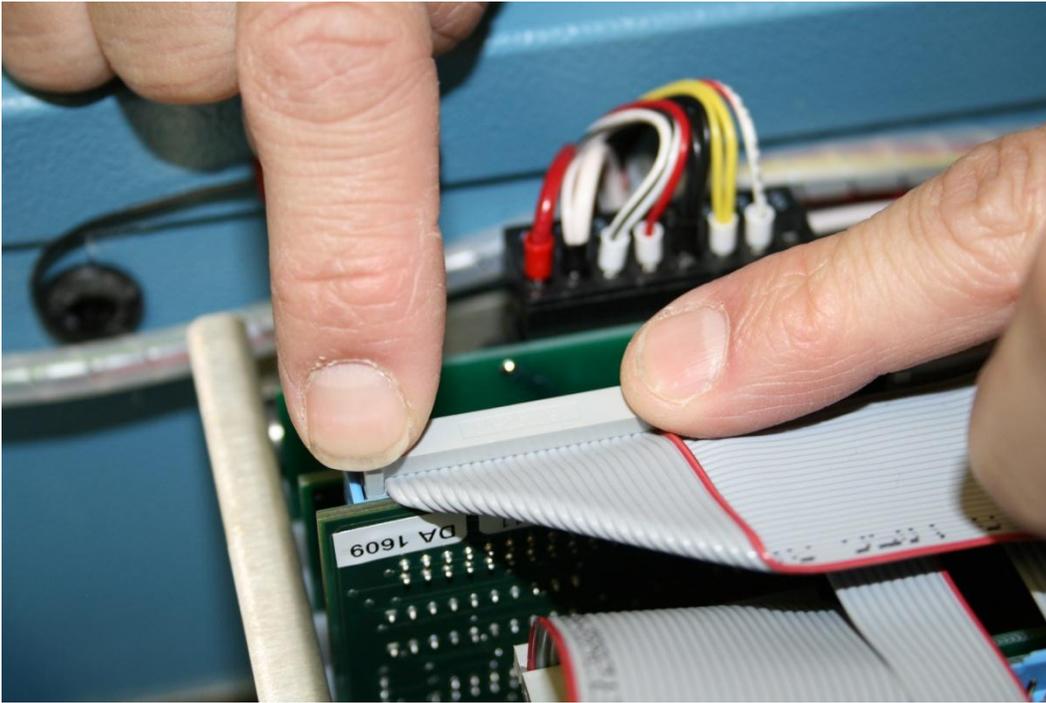
25. Find the console and printer port ribbon cables.



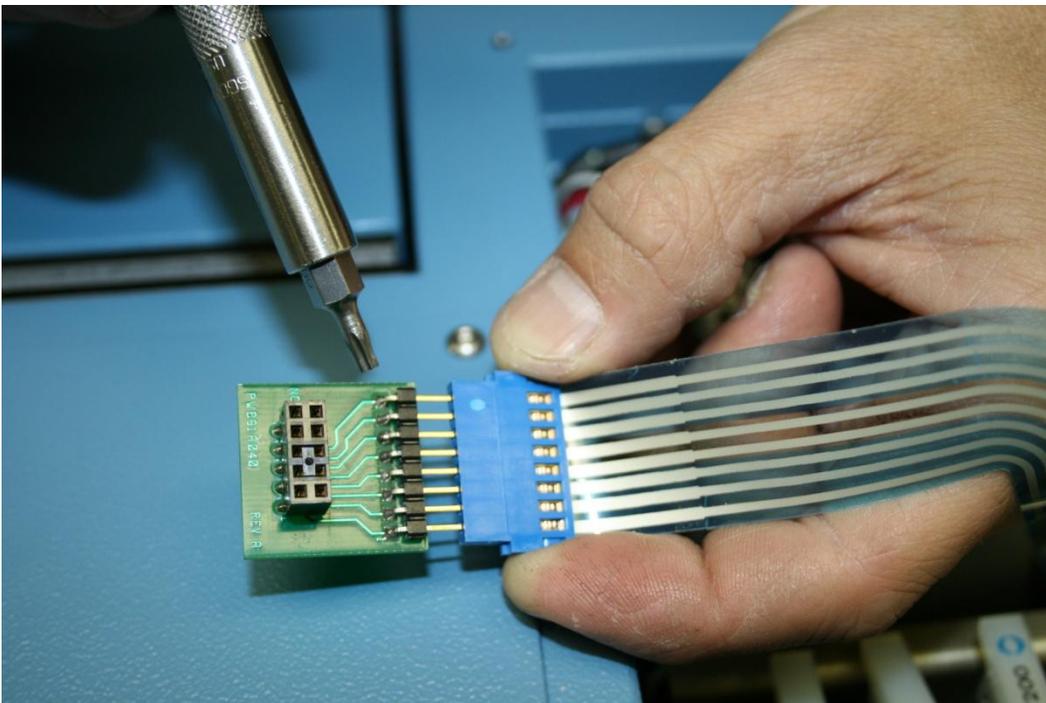
26. Locate the CPU card push the printer port ribbon cable into the connector closest to the front of the system and the console port ribbon cable next to it.



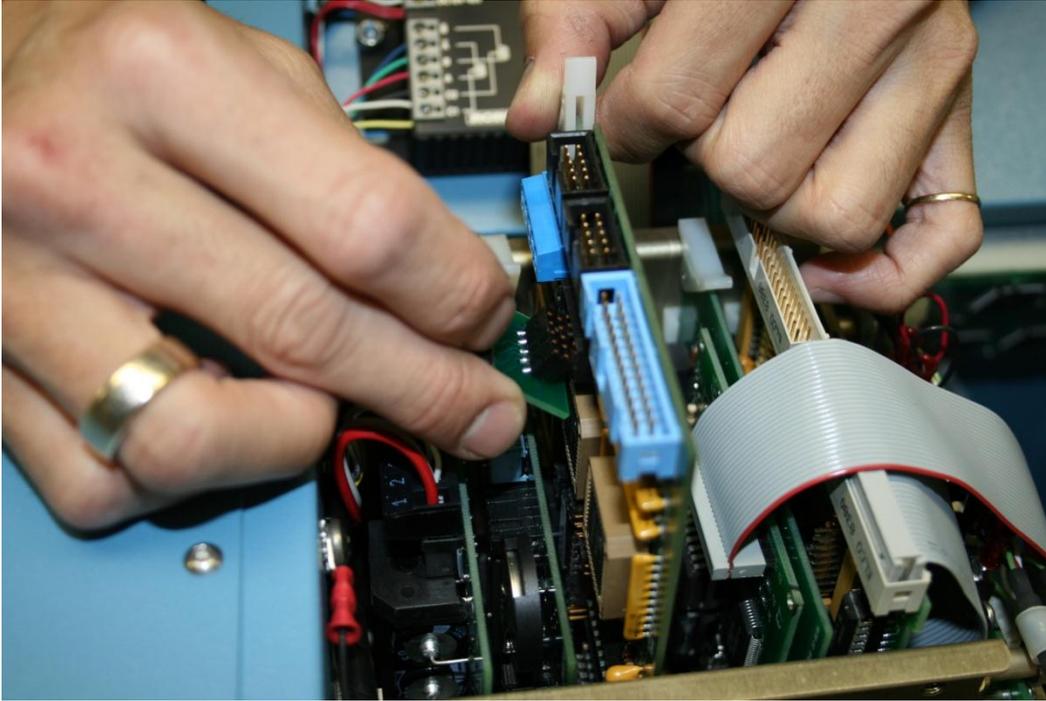
27. On the same card locate the digital input output port and plug in the digital I/O ribbon cable in.



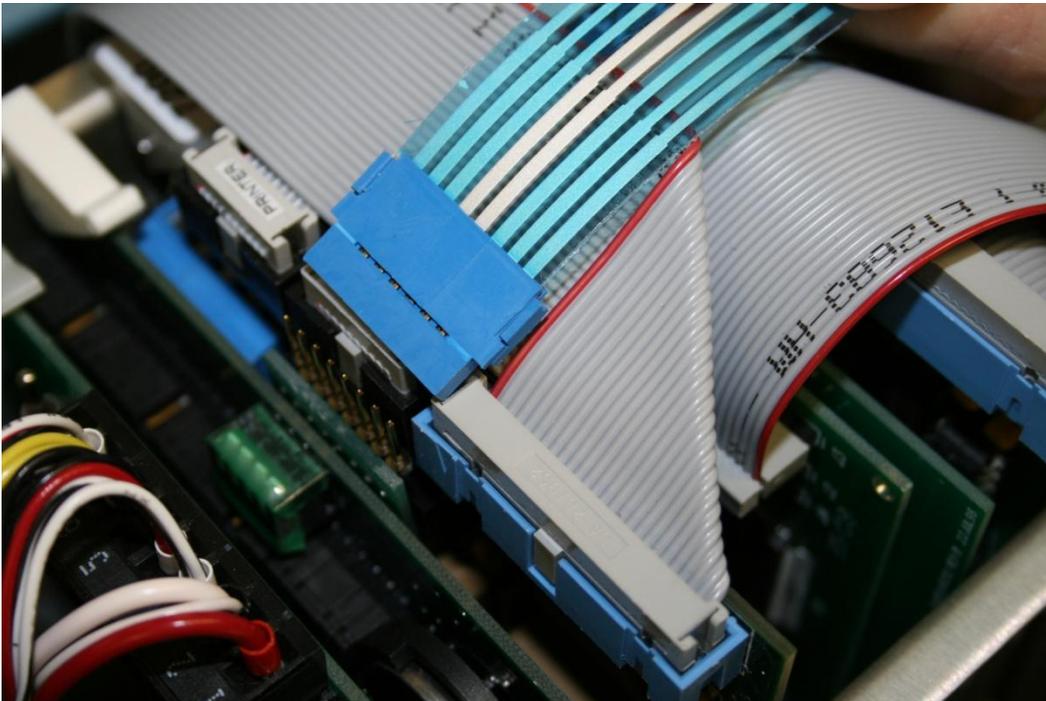
28. If the keyboard interface board assembly has been removed reinstall it on the CPU card.



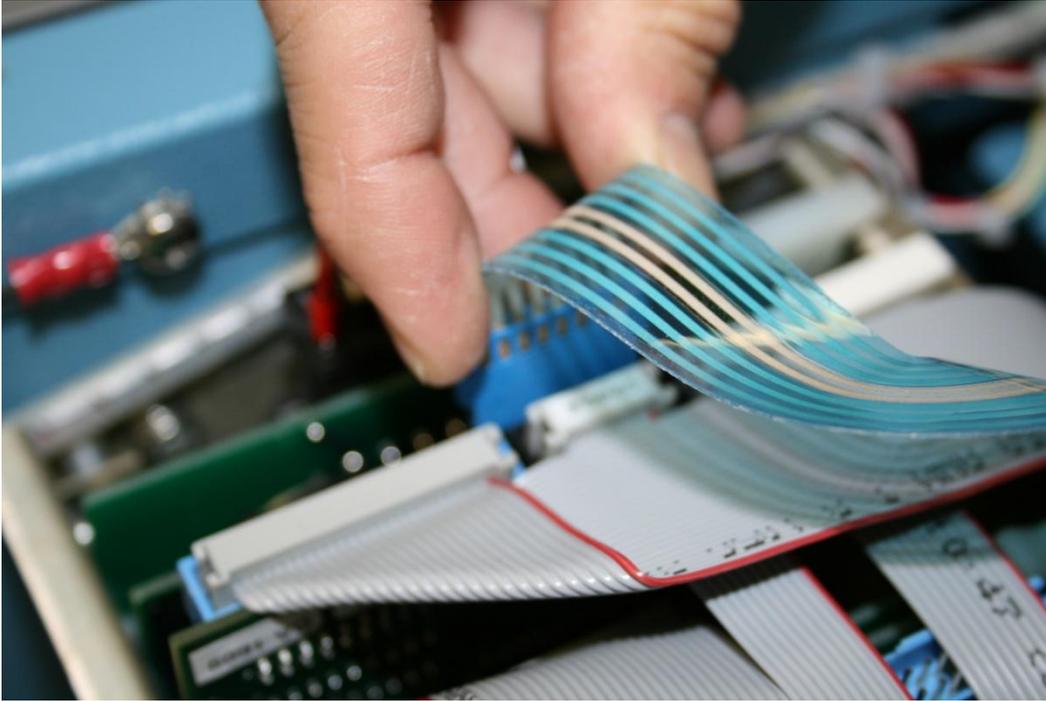
29. Make sure that all connector pins are lined up before connecting the keyboard interface board.



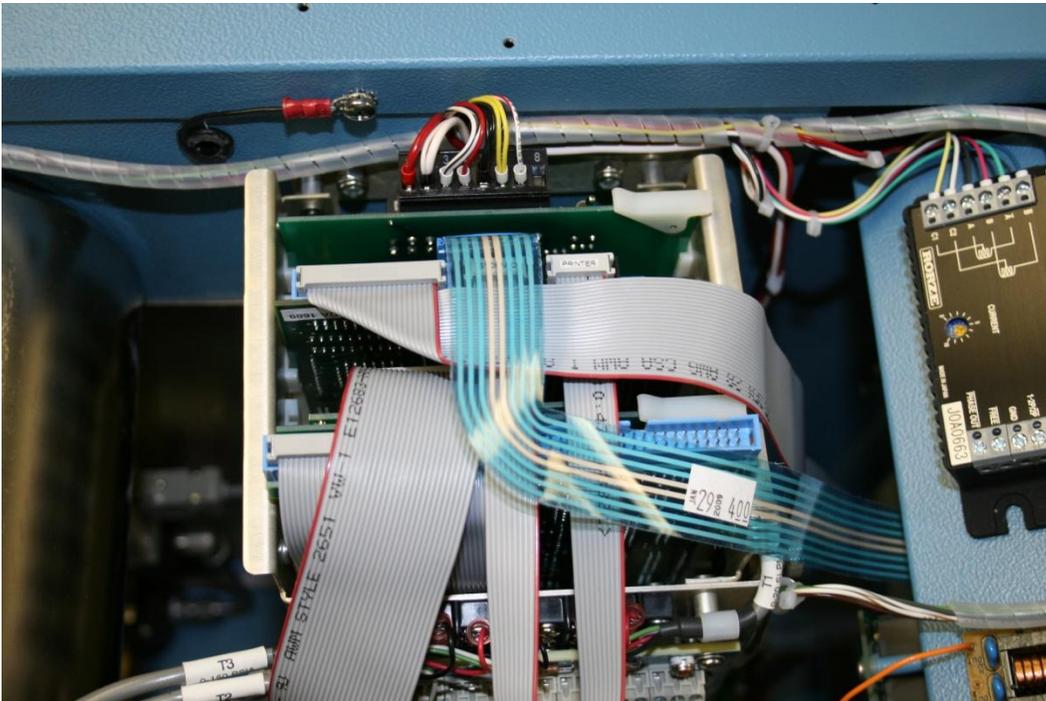
30. Next match up the 8 pin connector on the CPU card with the keyboard ribbon cable.



31. Connect the keyboard ribbon cable.



32. Final card cage assembly should look like this.



Please Call 1-800-872-7728, Fax 1-505-266-6203, or E-mail [support@thunderscientific.com](mailto:support@thunderscientific.com) should you have any questions.