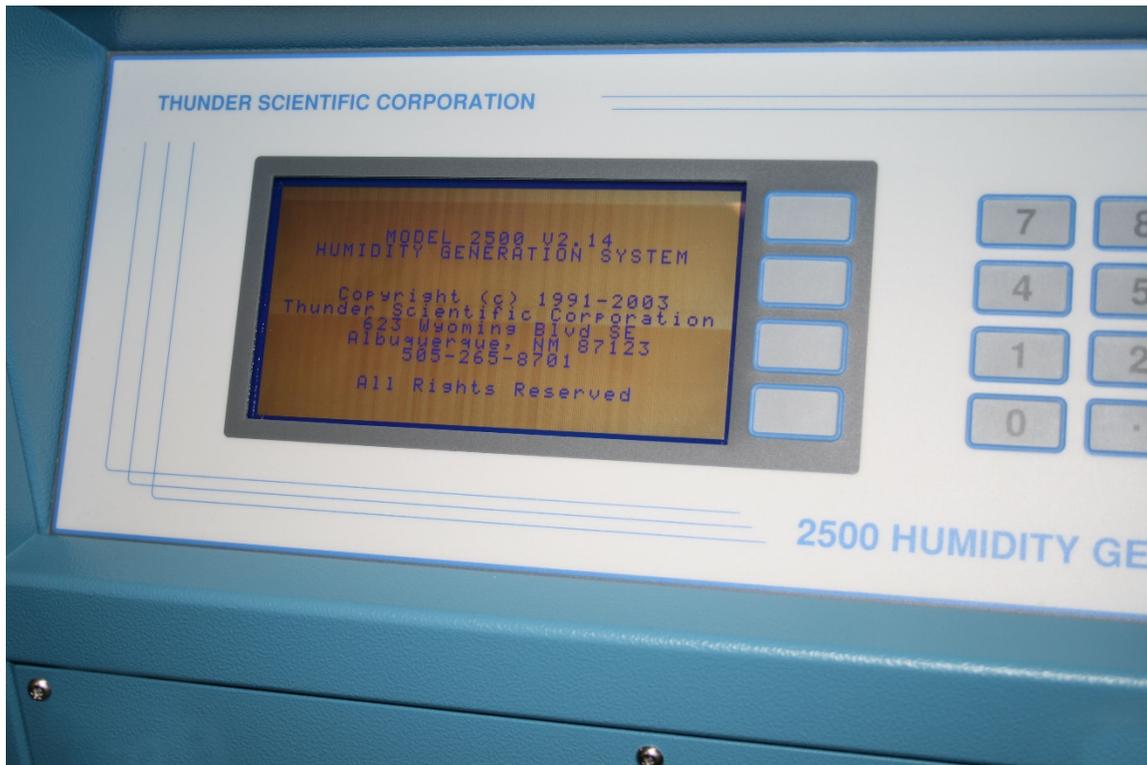


Humidity Generation and Calibration Equipment
THUNDER SCIENTIFIC®
CORPORATION THE HUMIDITY SOURCE

Model 2500

LCD Replacement Procedure



Tech Support Document TSD-0312
Revision Date: October 28, 2021



Model 2500 LCD Replacement Procedure

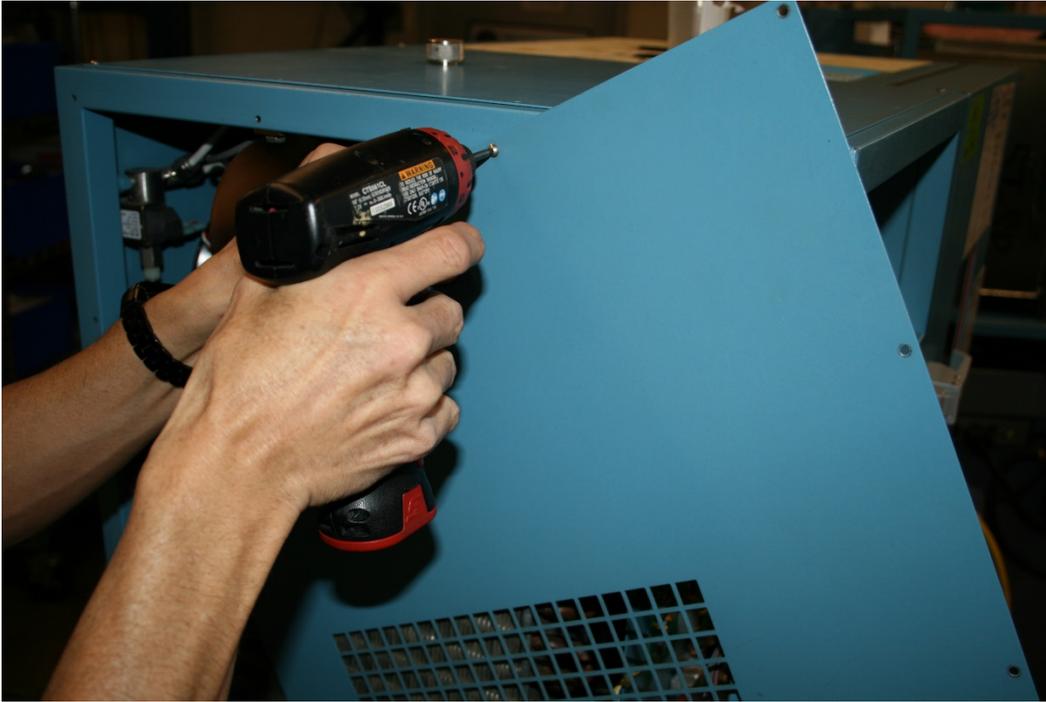
1. First turn the main power switch off.



2. Next remove the front panel.



3. Remove the left side panel.



4. Remove the reservoir fill port cap.



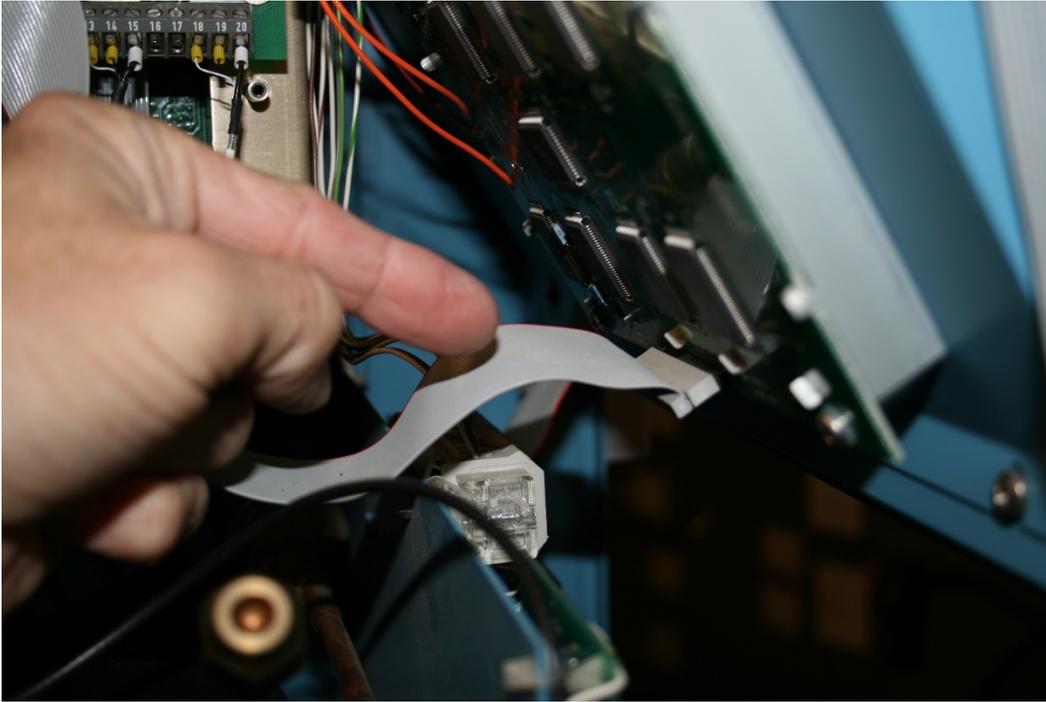
5. Remove the screws from the top left-hand panel.



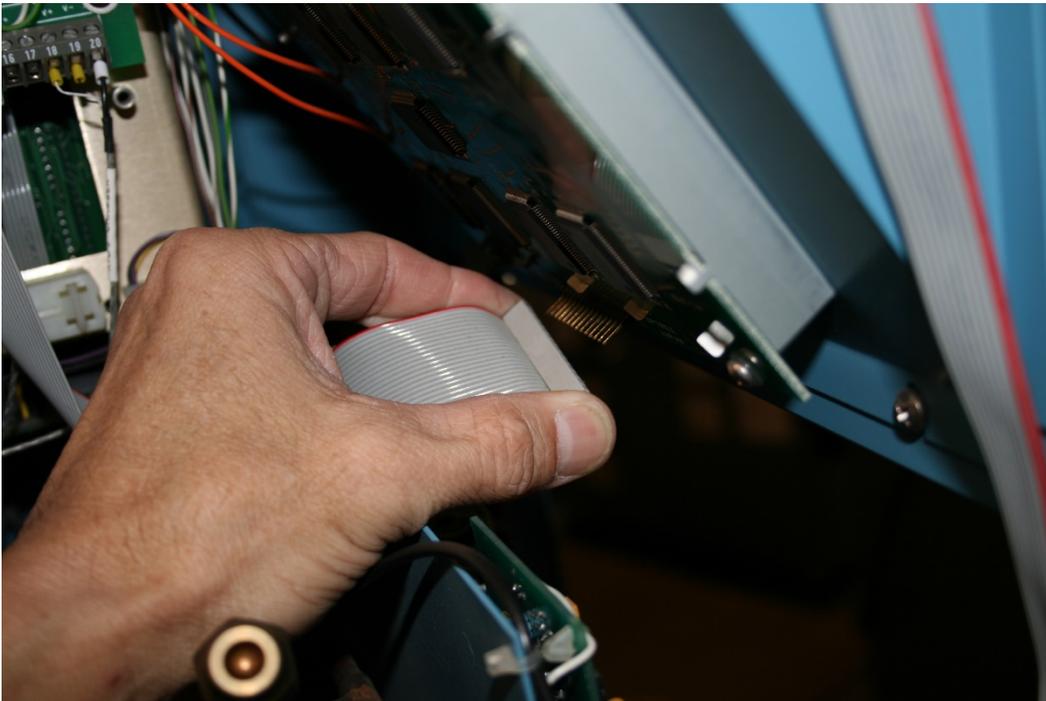
6. Now remove the left-hand top panel.



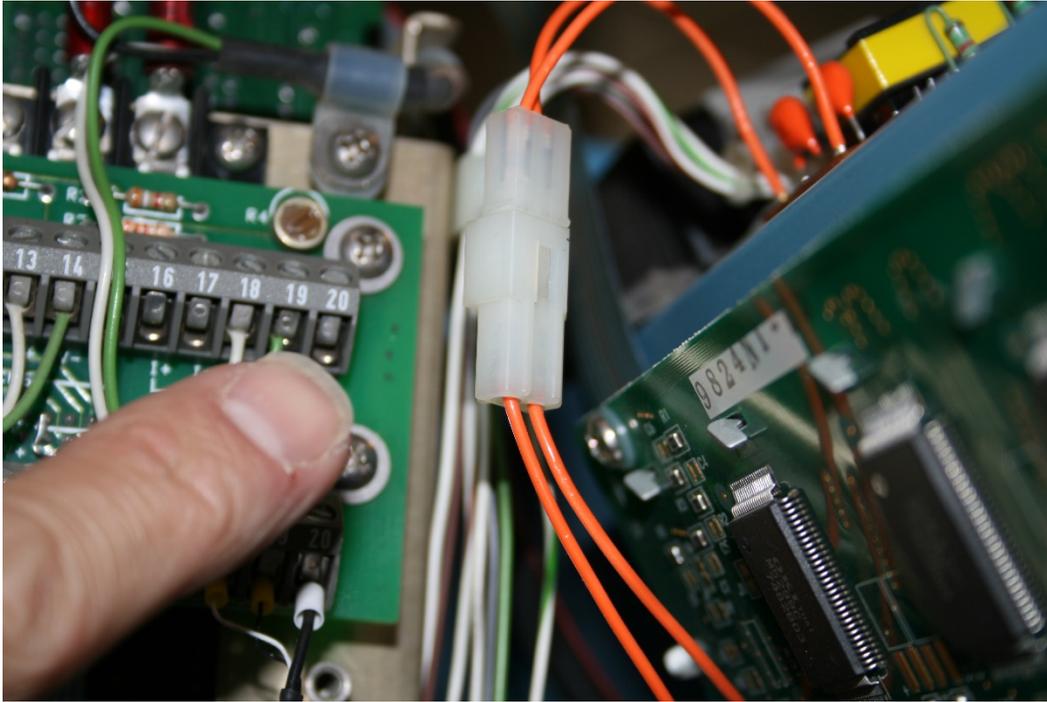
7. Locate the LCD Display Port ribbon cable.



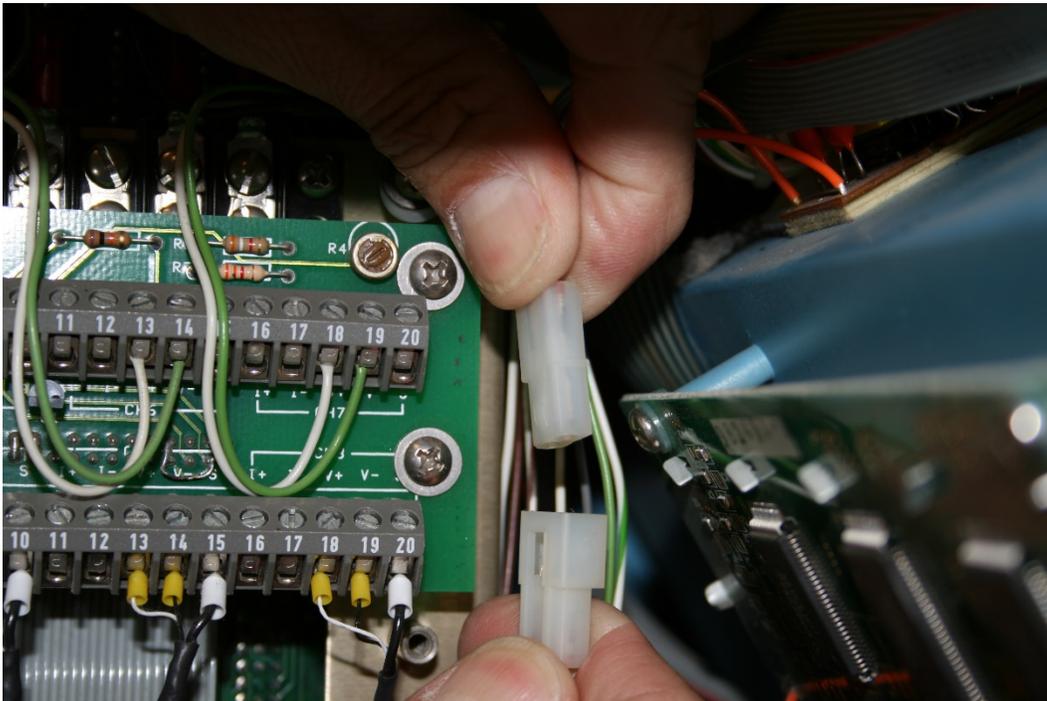
8. Slowly remove the ribbon cable and move it out of the way.



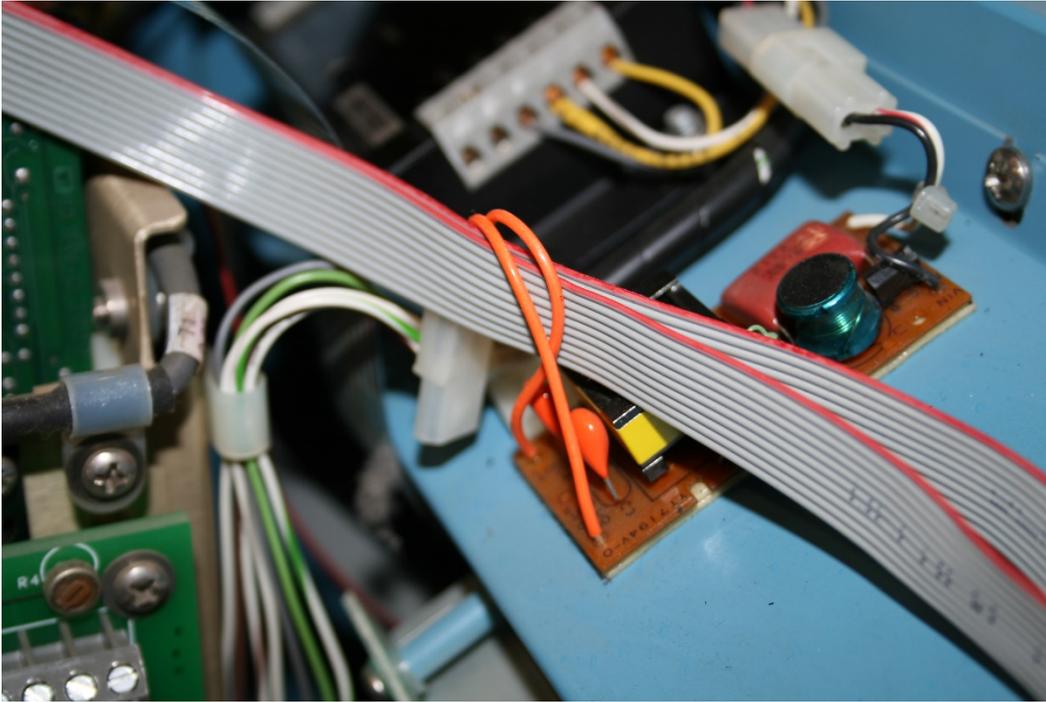
9. Locate the display inverter cable with the orange wires.



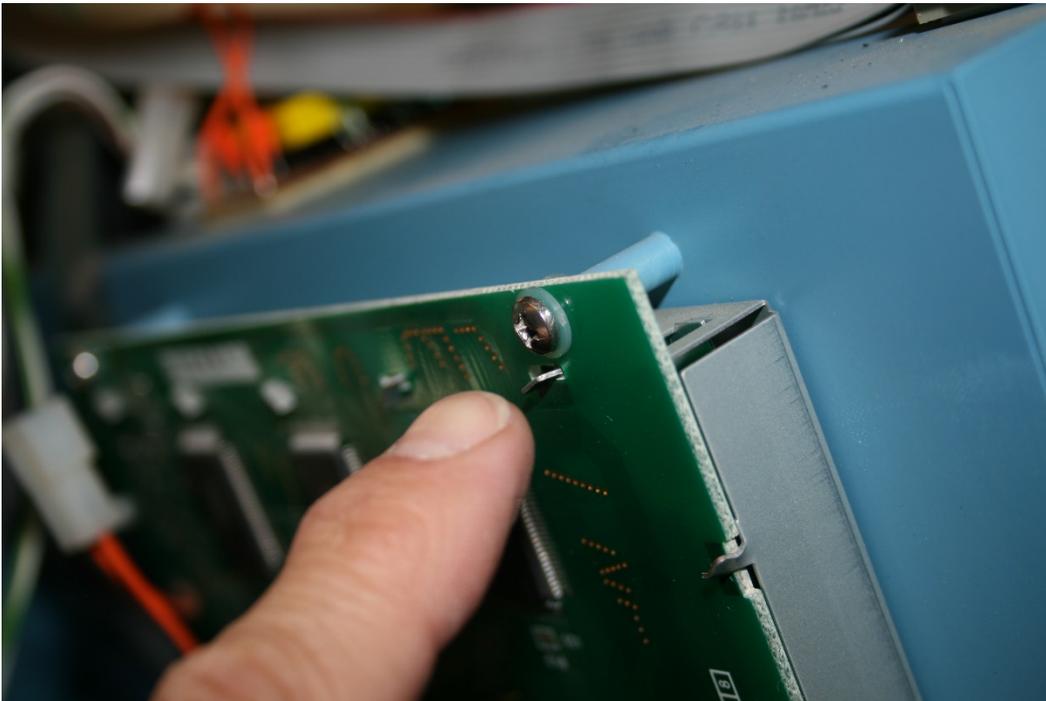
10. Pull the cable connectors apart.



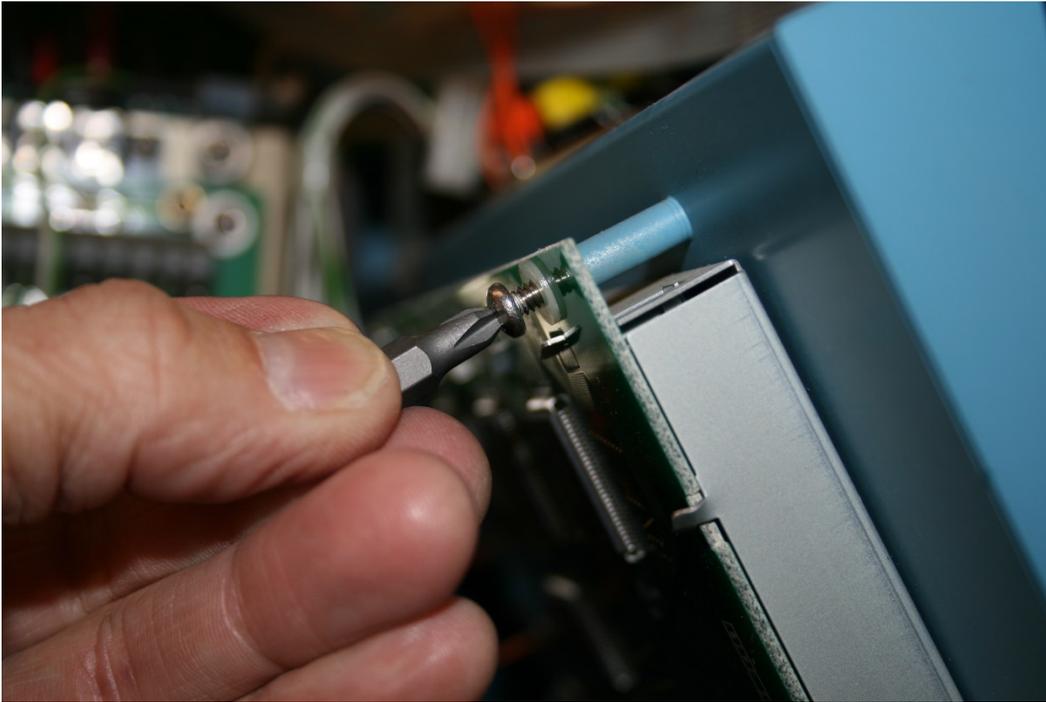
11. Place the top part of the cable behind the top two ribbon cables out of the way.



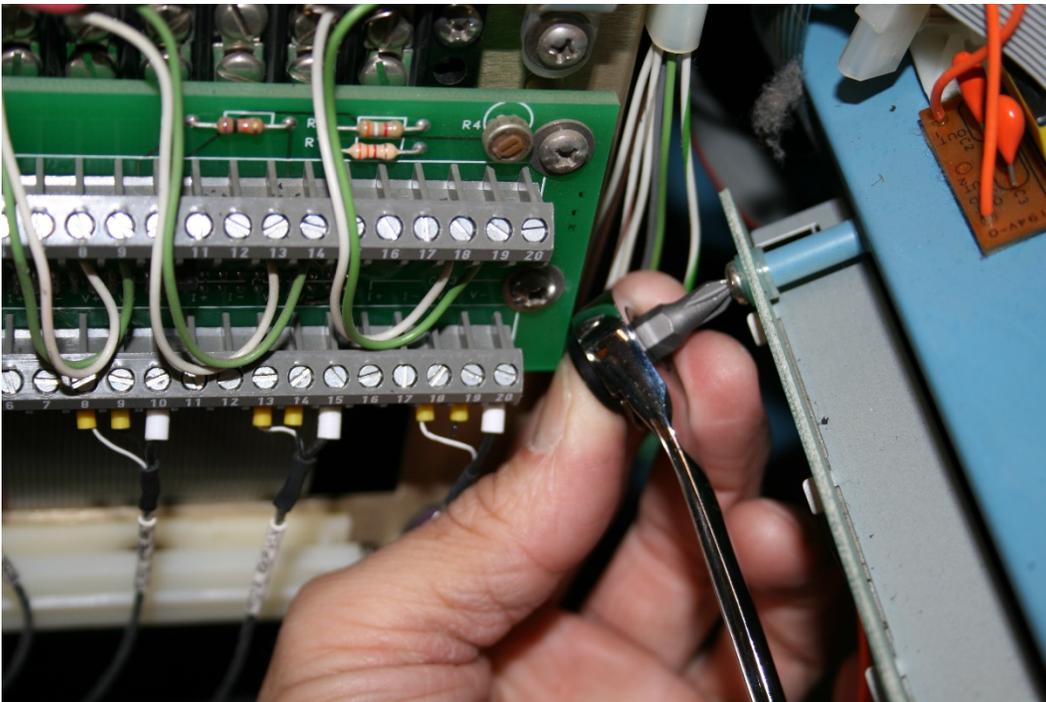
12. Locate where all four mounting screws are on the LCD display.



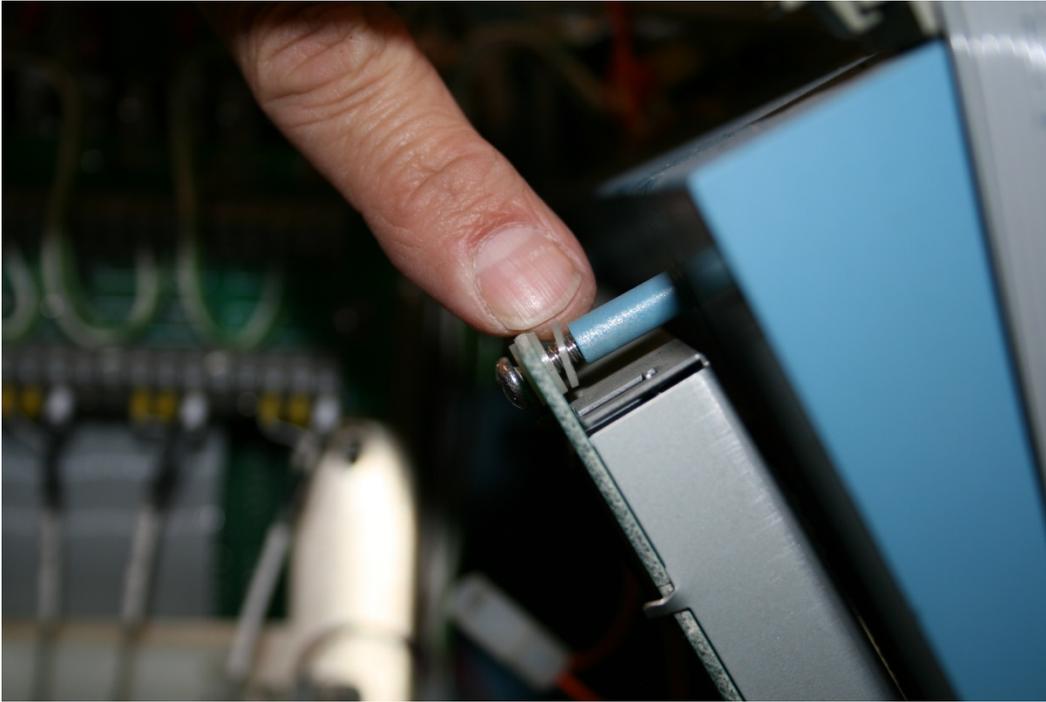
13. Now using a number 1 Philips head screwdriver with a 90° bend or a ratchet drive, loosen but do not remove the top right-hand screw.



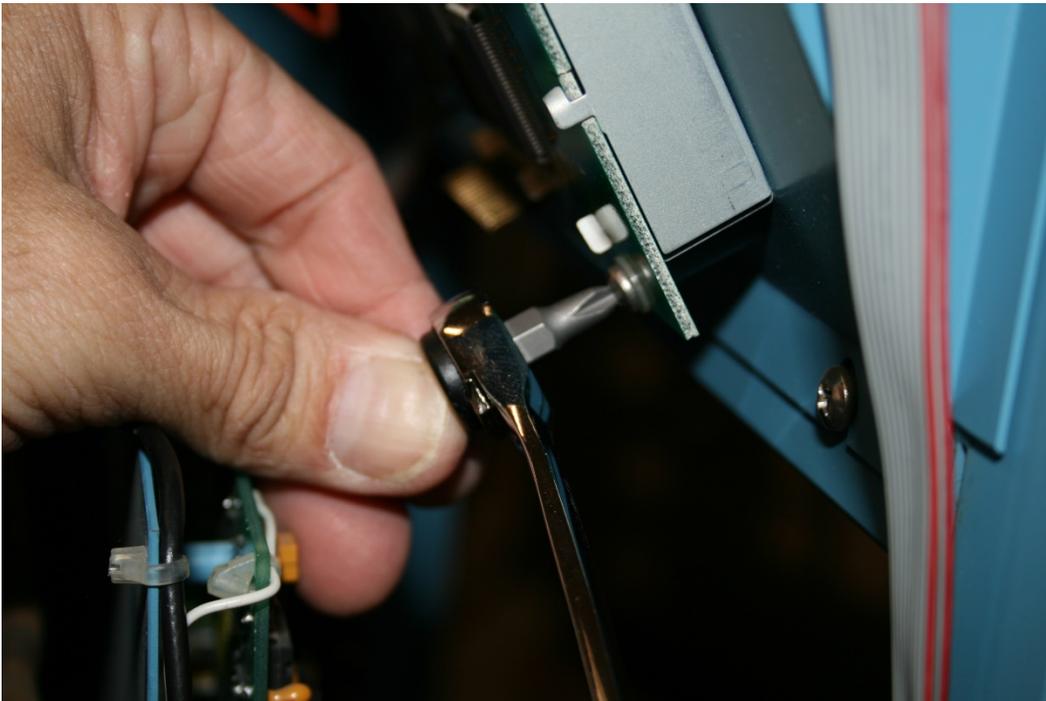
14. Loosen but do not remove the top left-hand mounting screw.



15. Unscrew the top two screws leaving ample room for movement, about two threads.



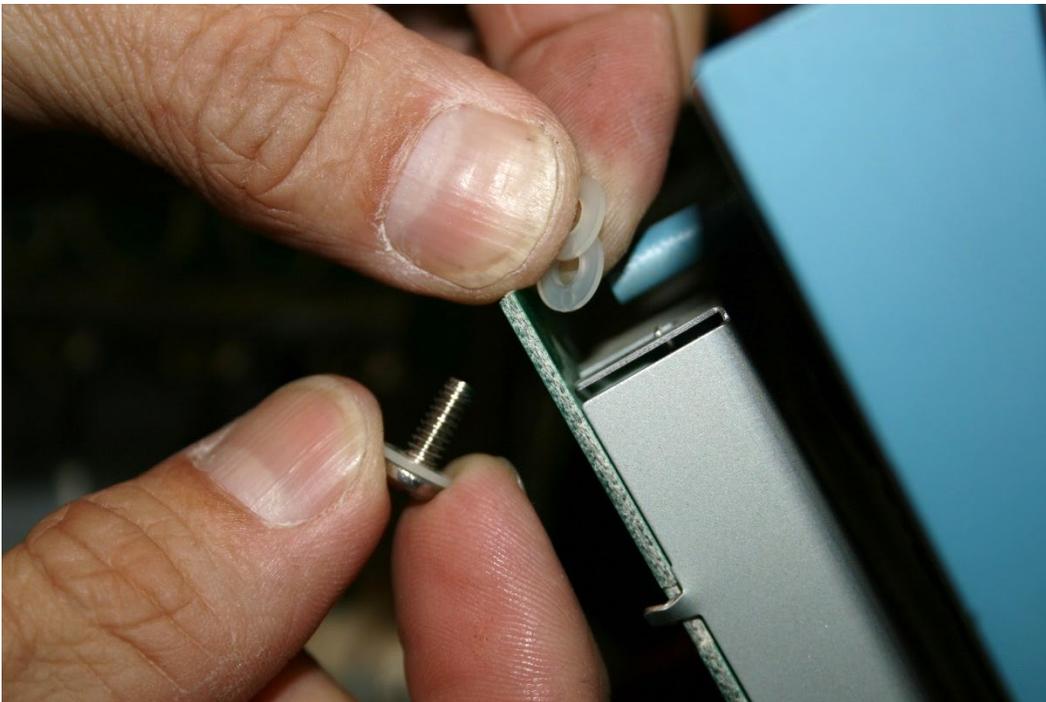
16. Loosen the lower two screws but do not remove them.



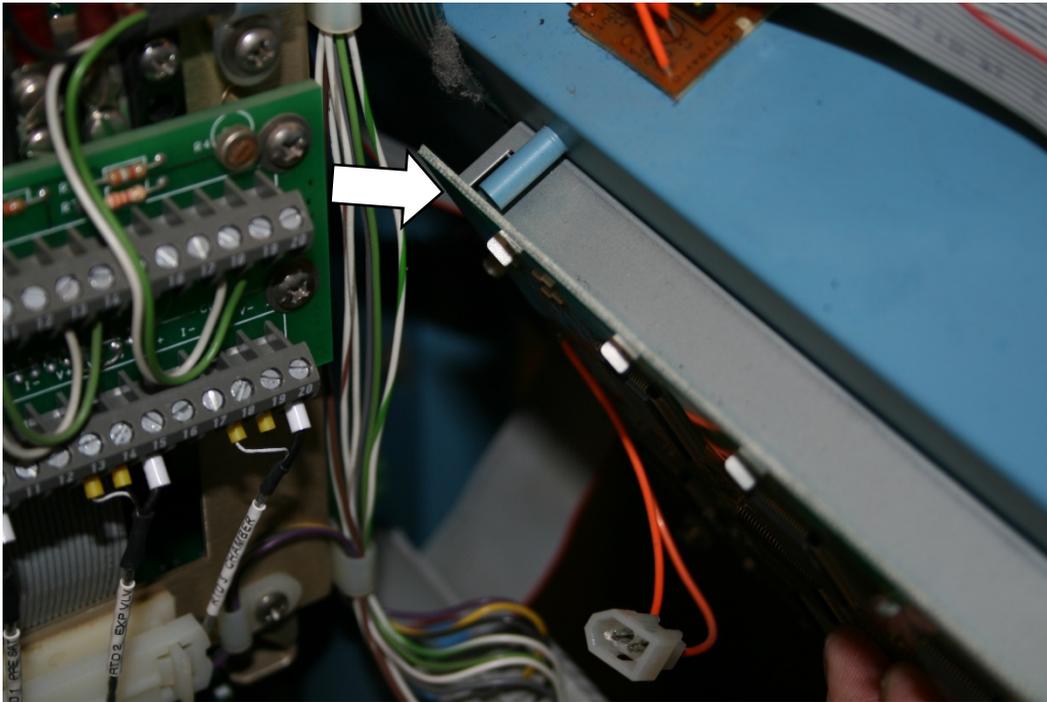
17. Rotate the top of the LCD display downward.



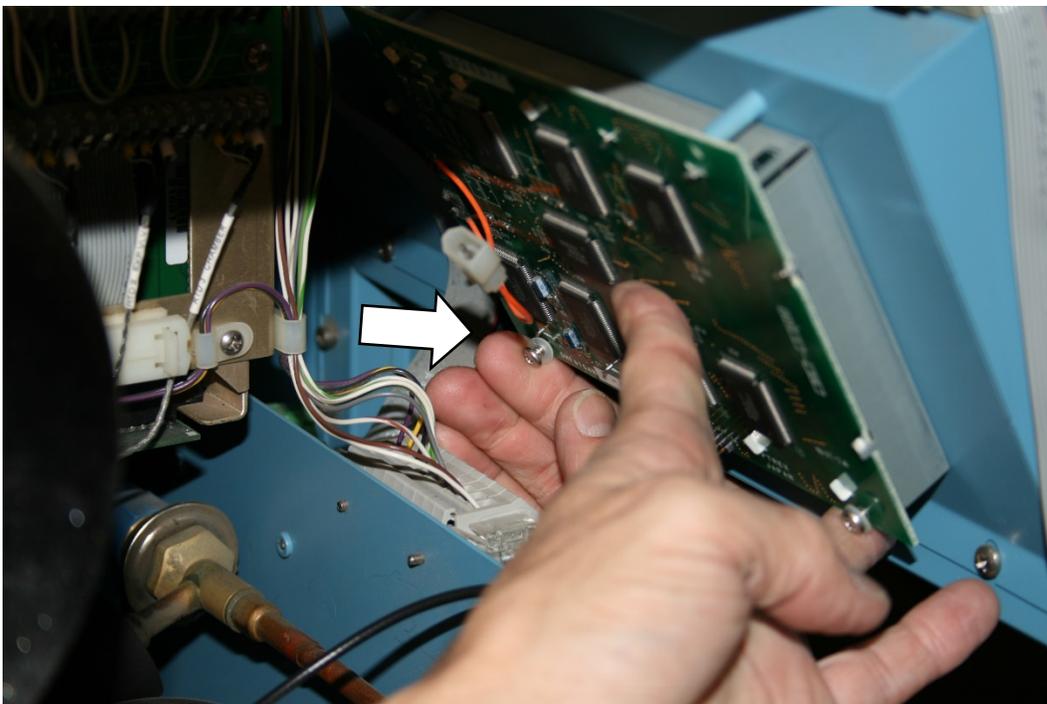
18. Carefully remove the top right-hand screw, and as you remove the screw grab the two nylon washers.



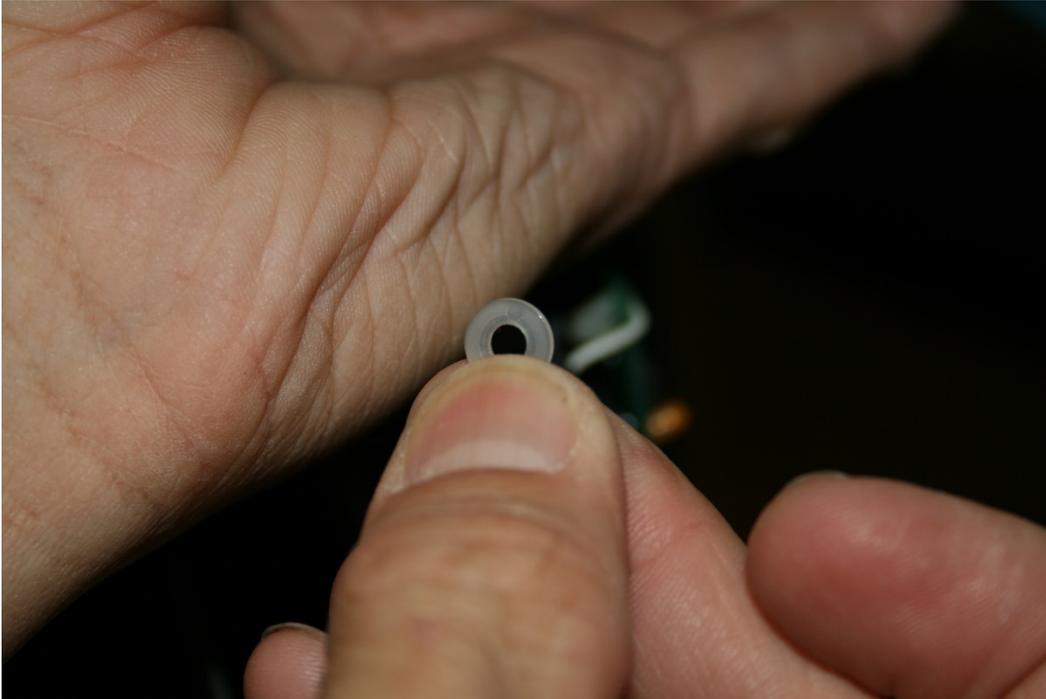
19. Do the same screw and washer removal step as the right side.



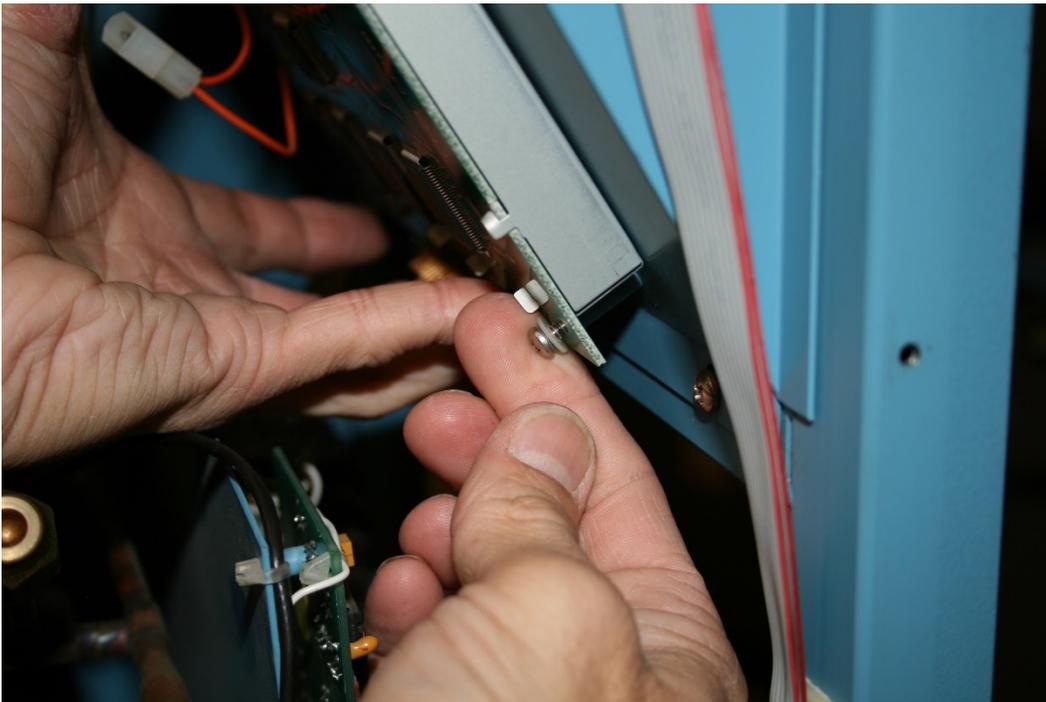
20. Push and hold the LCD display against the front hood and remove the left-hand lower screw and washer.



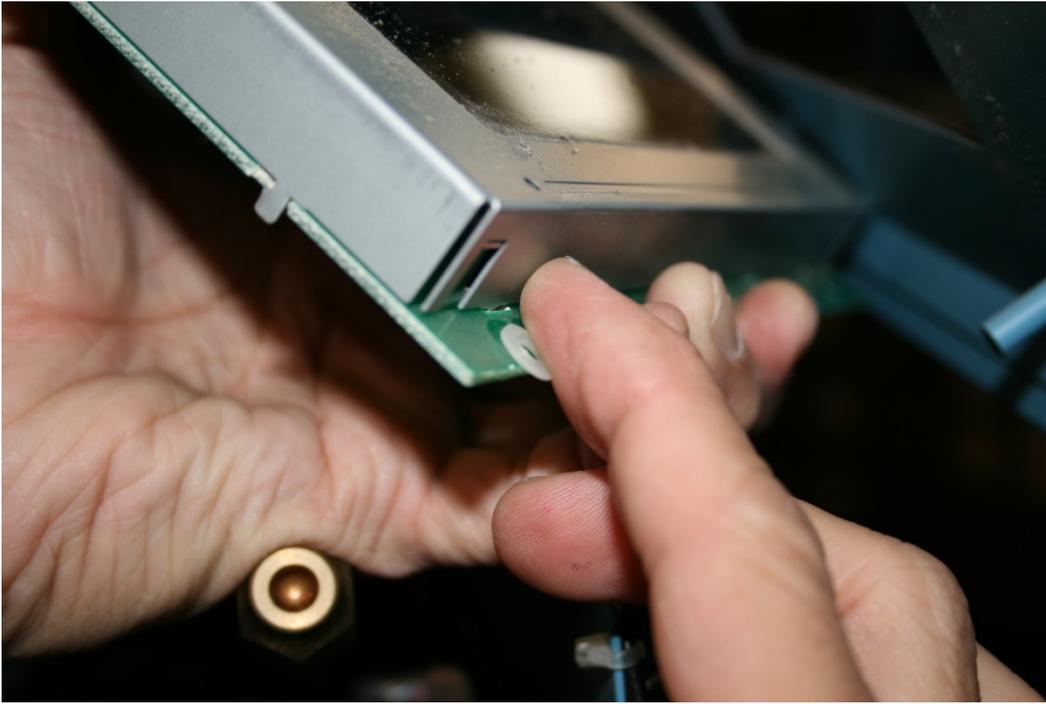
21. While holding the display against the front hood, position your other hand underneath the display in the lower left-hand corner, then pull the display away slightly to release the single front nylon washer into your hand.



22. While still holding the display against the front hood, remove the screw located in the lower right-hand corner.



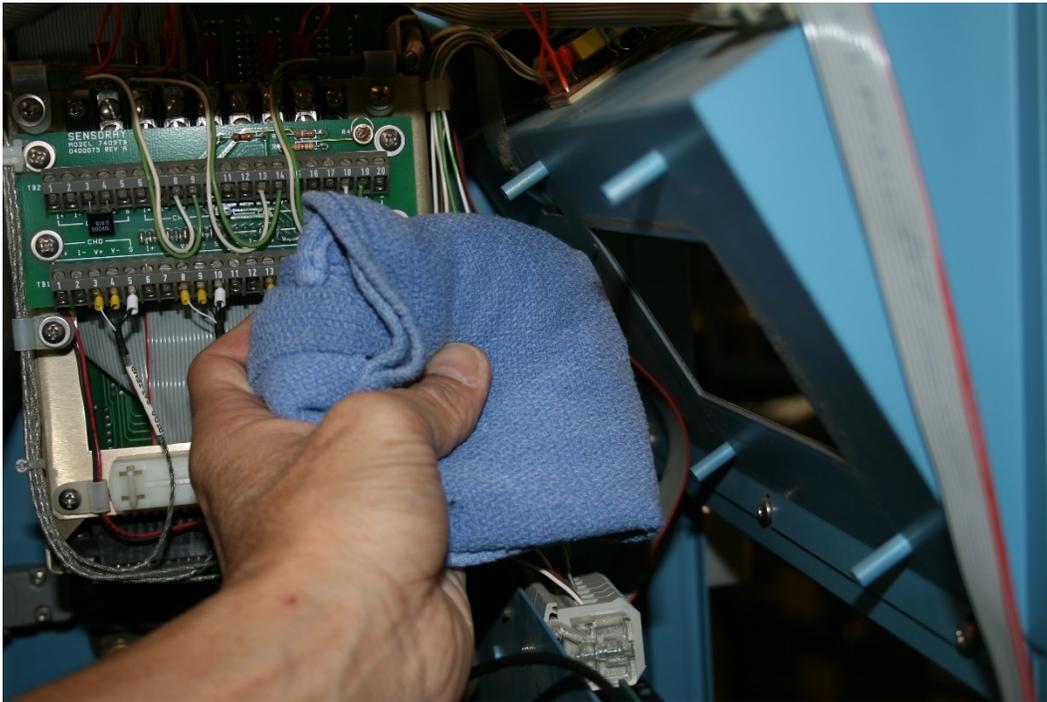
23. Slowly pull away the LCD display using one hand and use the other to capture the nylon washer as you pull it away.



24. Remove the display and dispose of it properly. (E-waste)



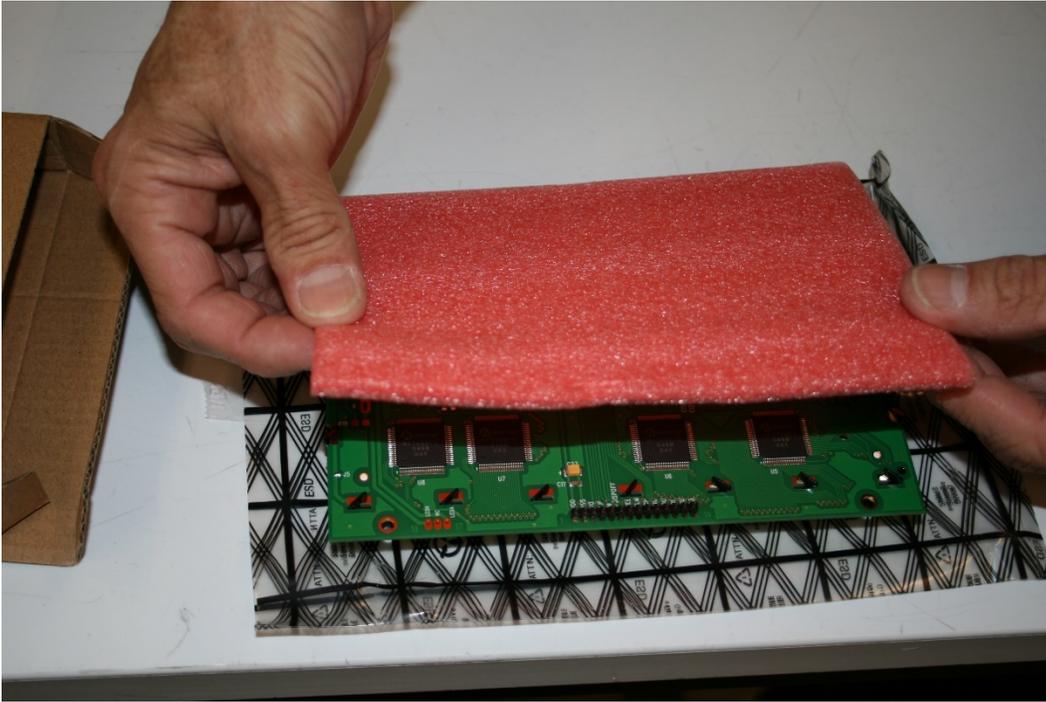
25. Clean the back side of the display hood.



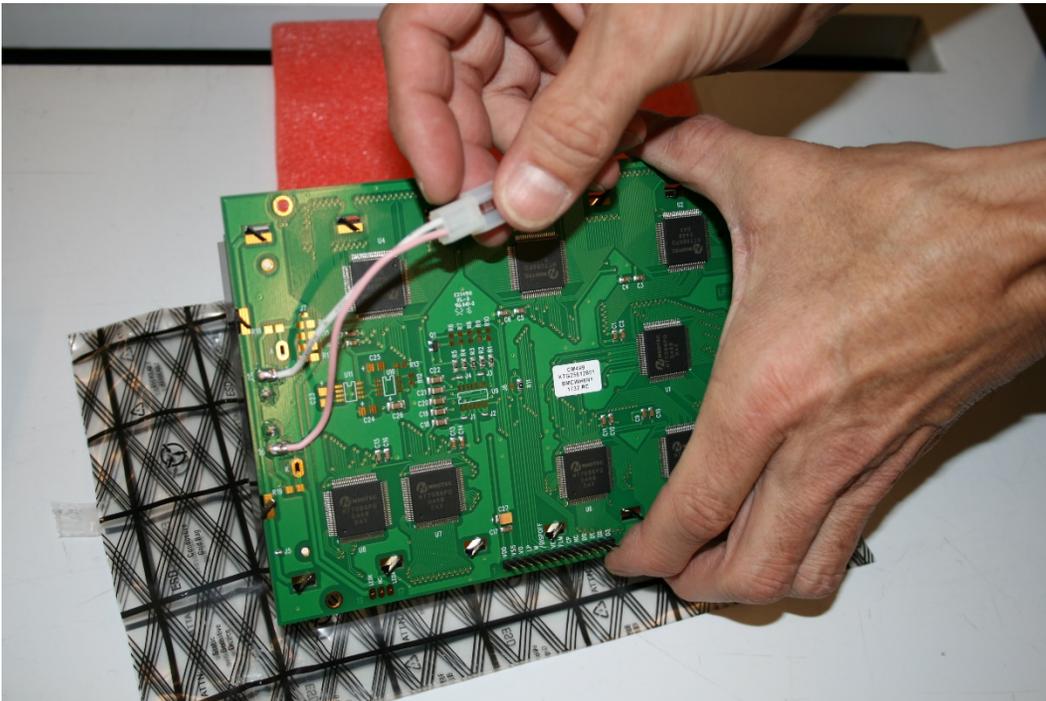
26. Take the new display out of the box and inspect for any damage.



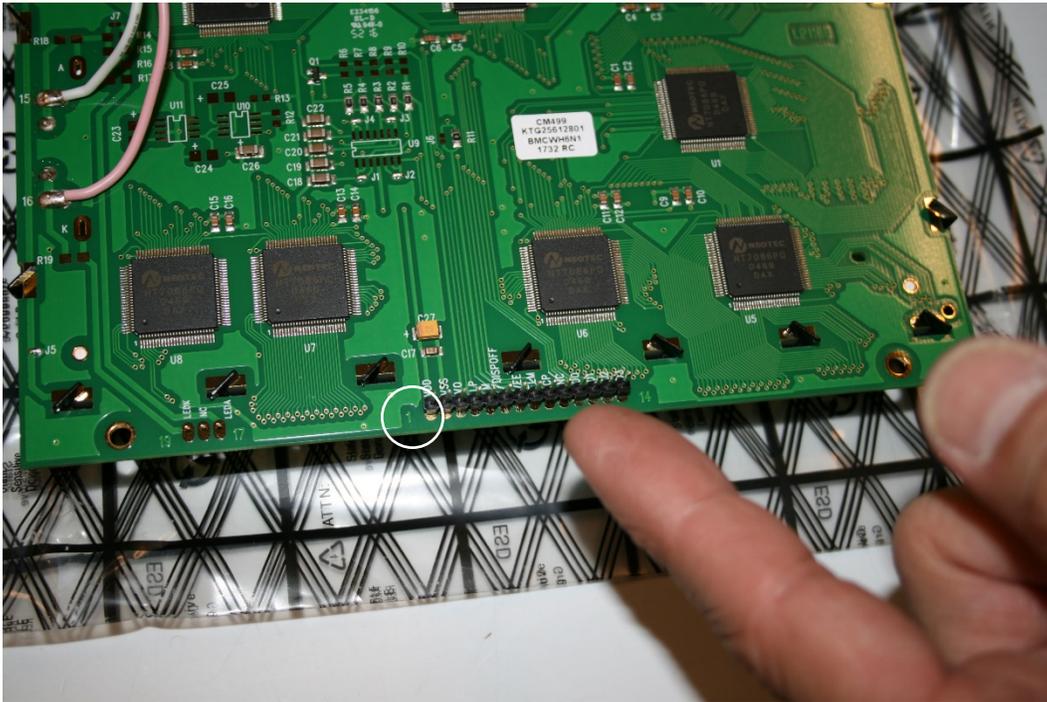
27. Remove the foam protection from the circuit board on the back.



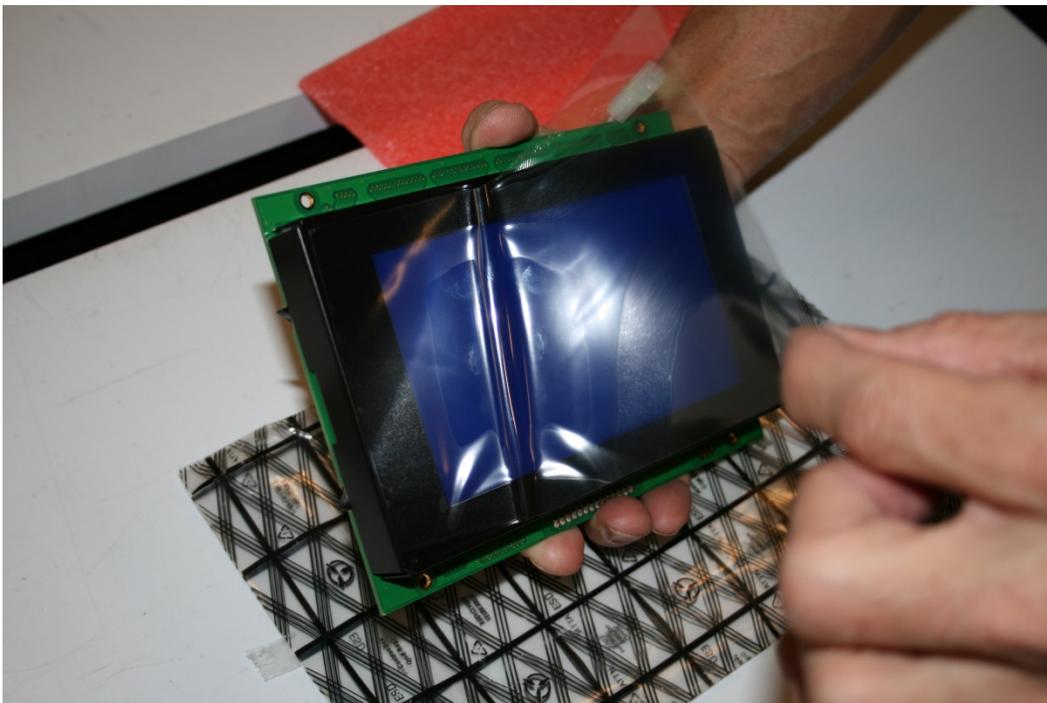
28. Move the wire connector to the rear of the board.



29. Locate and inspect the ribbon pin connector and find pin 1.



30. Peel back the protective plastic and save.



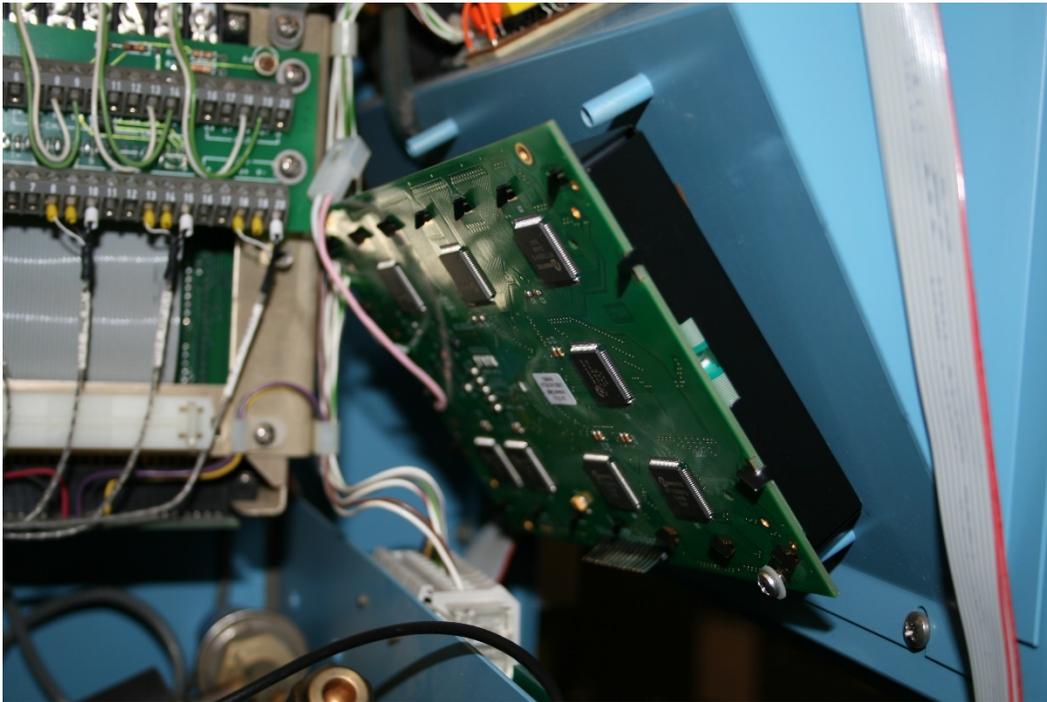
31. Move the LCD display towards the back side of the display hood, making sure you have the ribbon connector pins at the bottom.



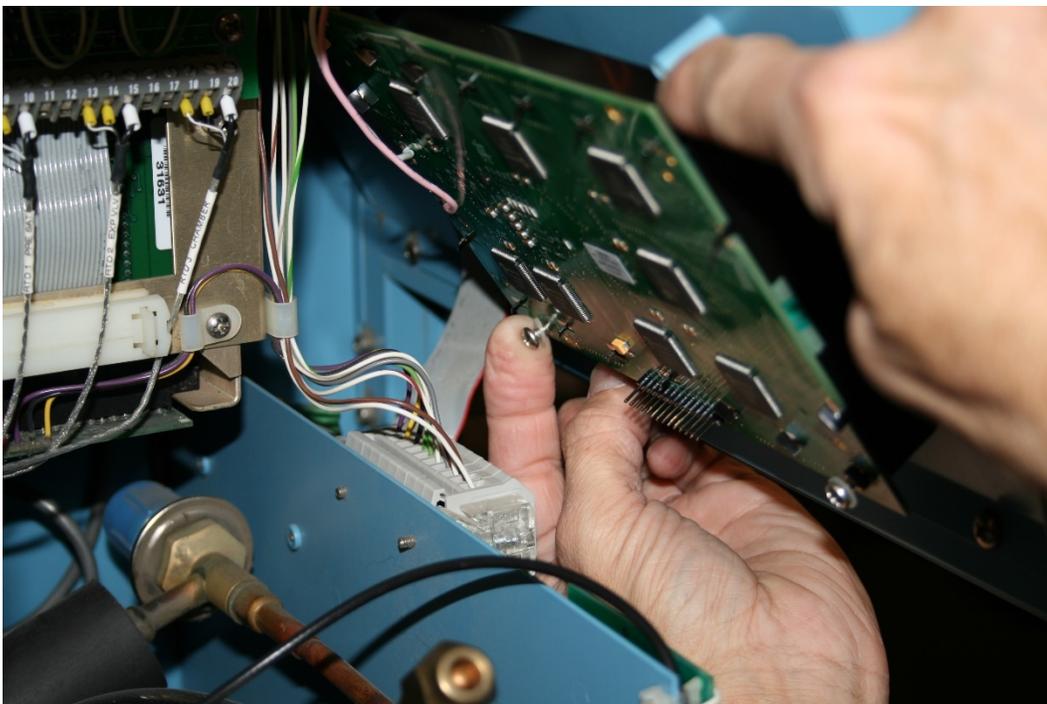
32. In the lower right-hand corner put the screw and washer on the bottom or back side of the display, then slide on only one washer over the screw on the front side.



33. Twist in the screw in by hand so that it's just tight enough to hold the display in.



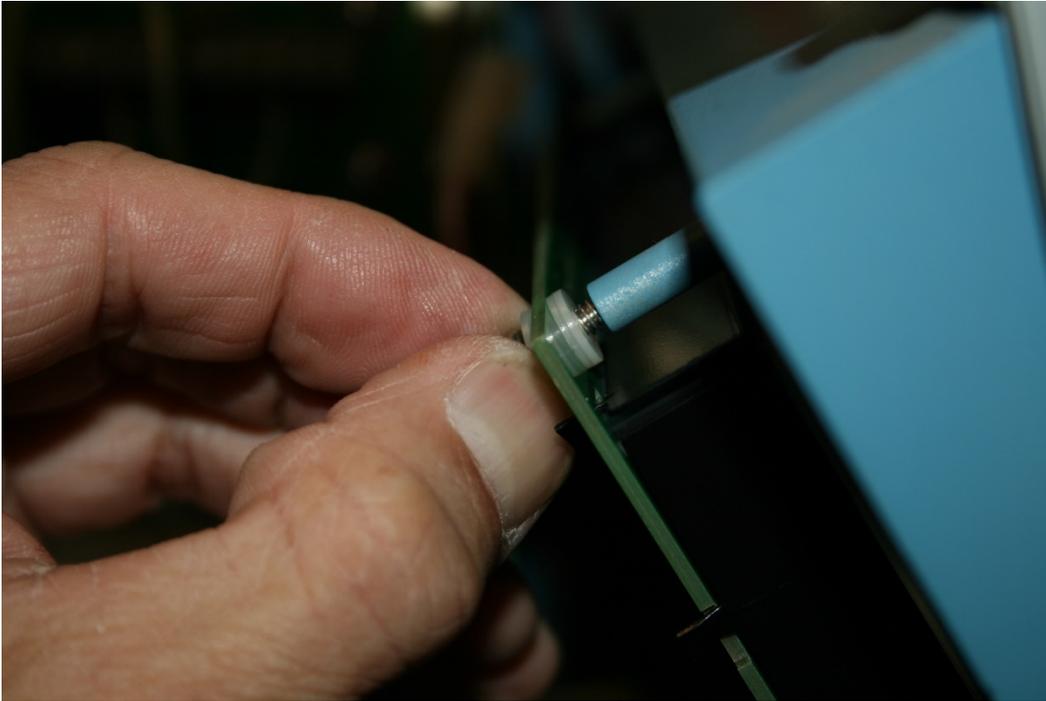
34. On the lower left side of the display place the screw and washer on the back side and on the front side slide the washer over the screw.



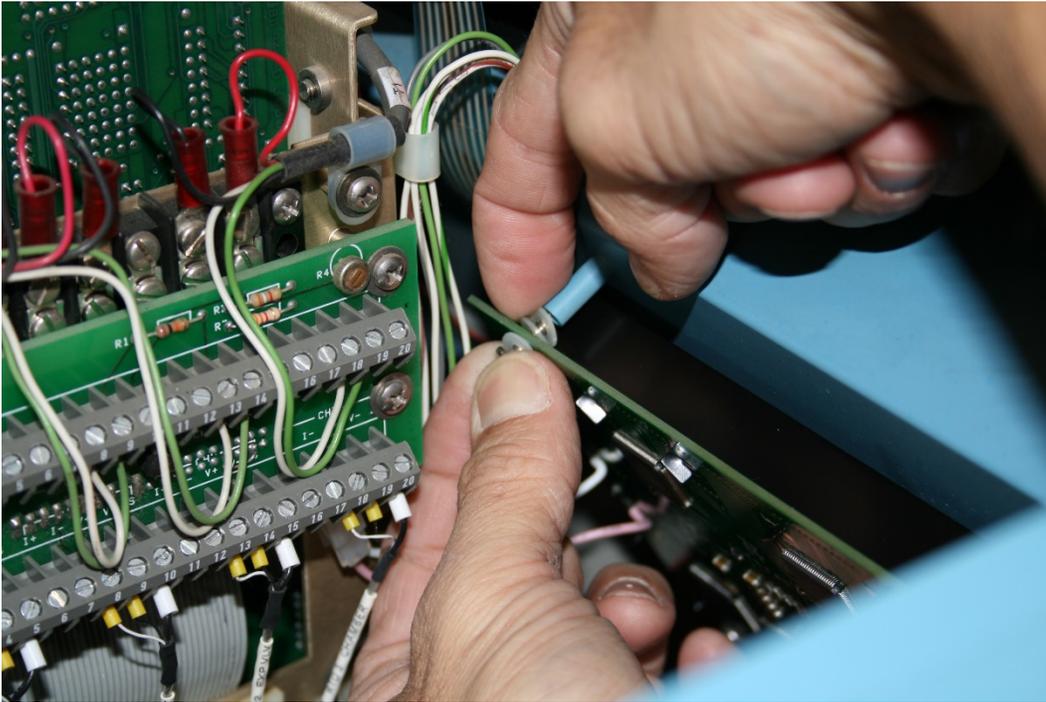
35. On the top upper right corner of the display add one washer to the screw and slide it through the back side, then on the front, slide on two washers.



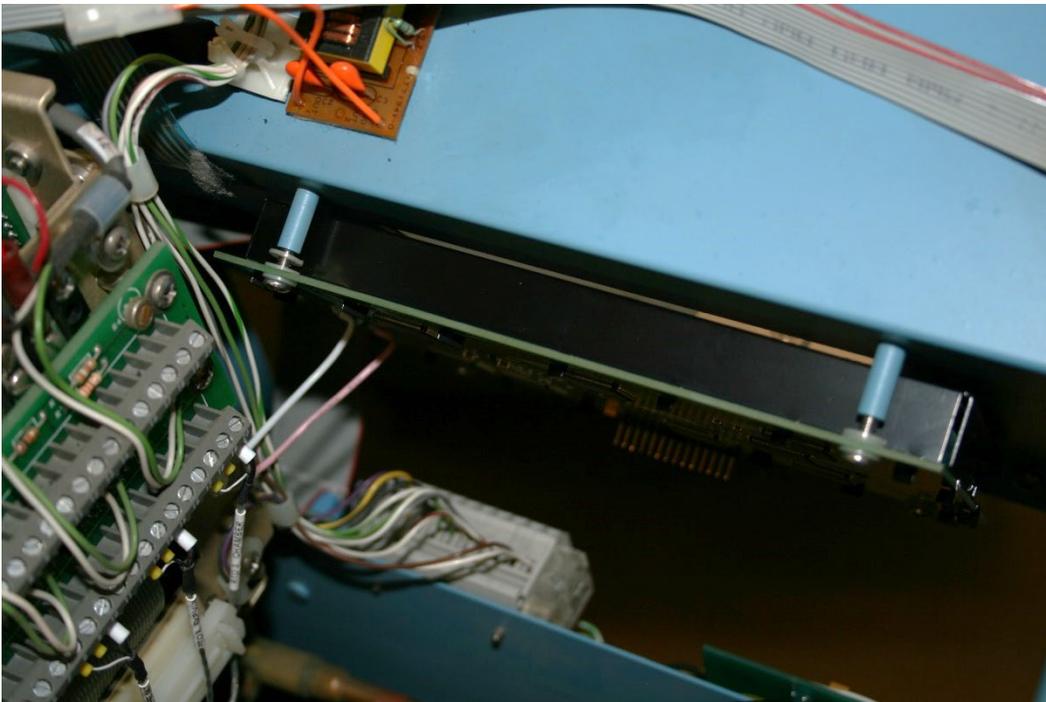
36. Screw it in by hand until it just catches the threads to hold the display up.



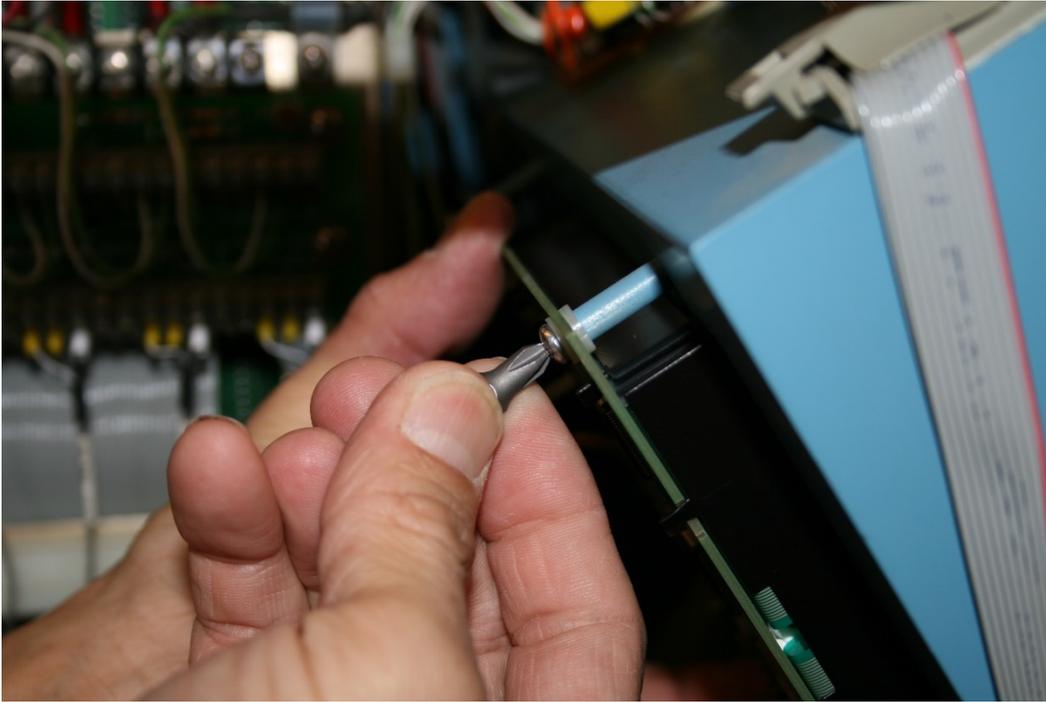
37. On the upper left side of the display, add the screw and washers in the same way as the right side.



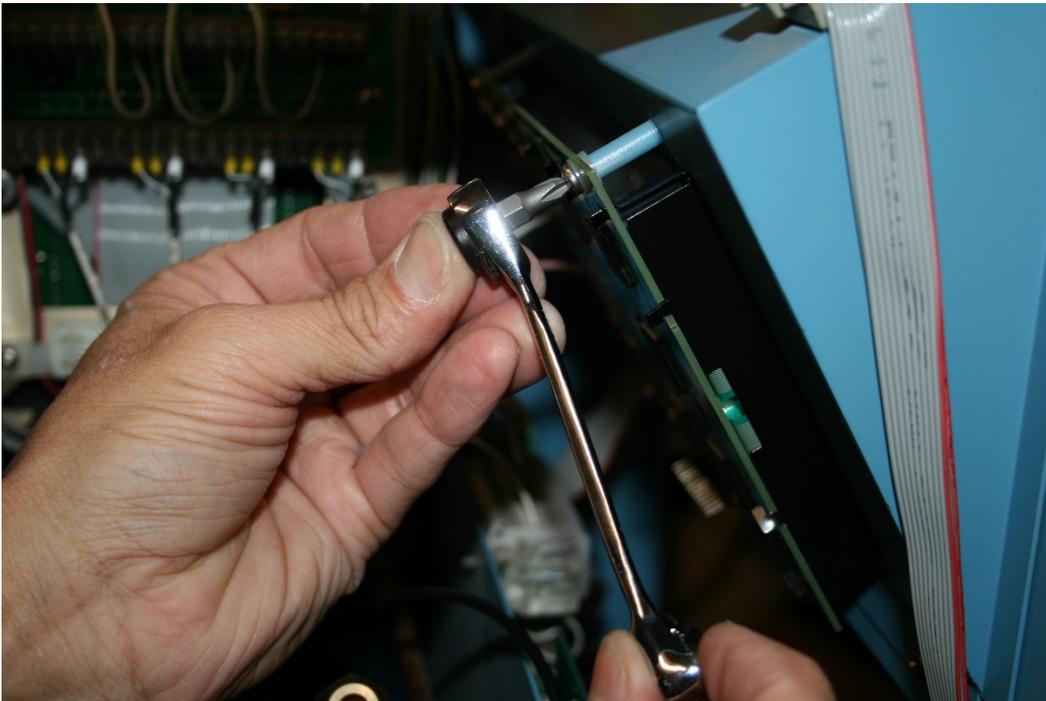
38. As you can see the display is held in very loosely by the screws.



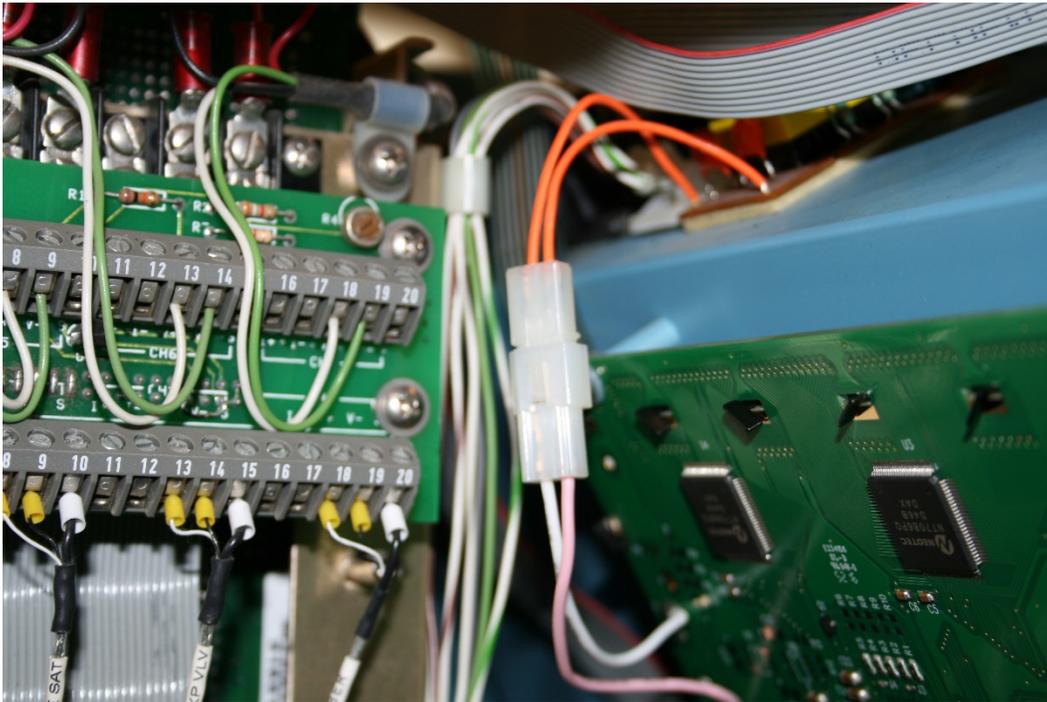
39. Take the screwdriver and screw in each of the four screws.



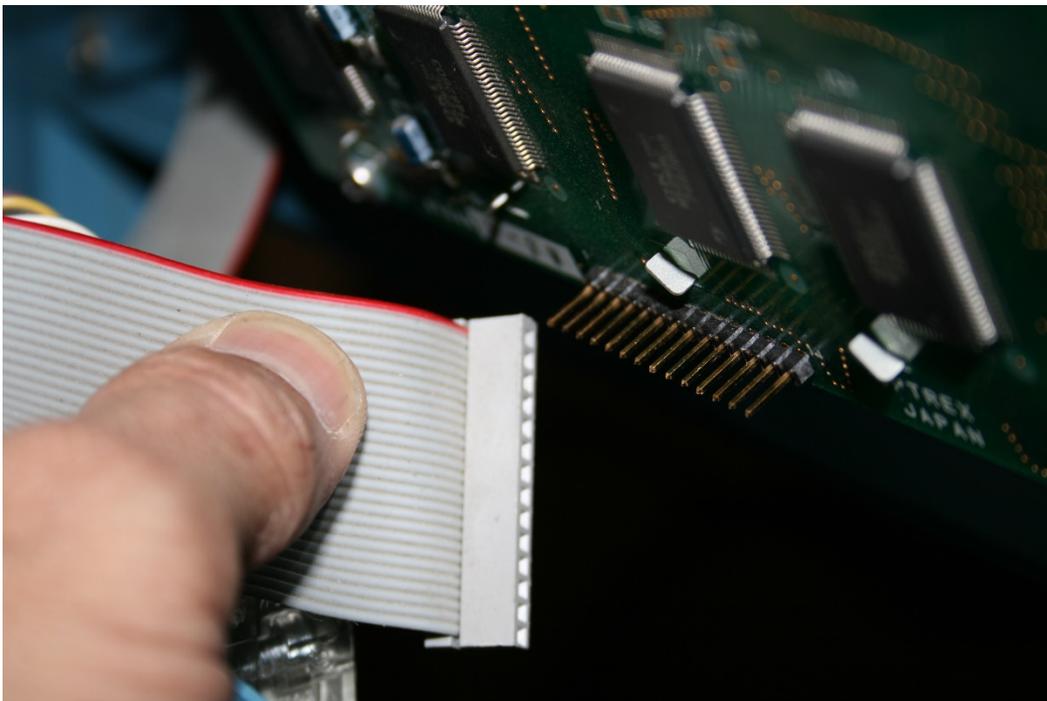
40. Then tighten each screw down using the ratchet drive.



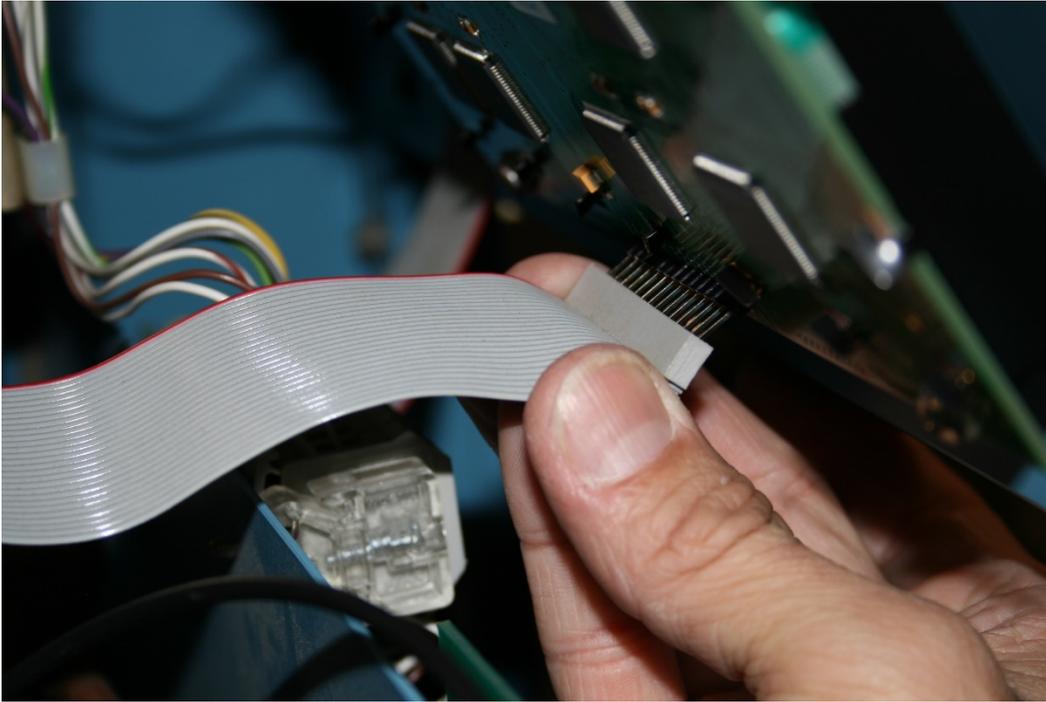
41. Reconnect the inverter board wiring connector at the top.



42. Get the LCD display ribbon cable and locate the red pin one on the cable.



43. Now reconnect the ribbon cable to the display board, pin one is the furthest away from you.



44. If needed you can place the protective plastic over the display.



45. Turn the main power switch on.



46. Check to see if the LCD display comes on.



You are now done with this procedure.

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