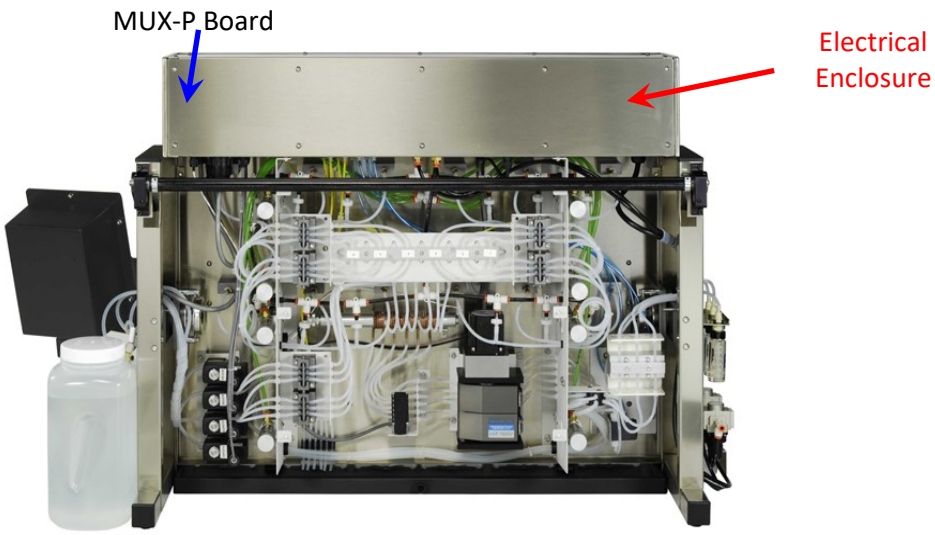
MUX-P Circuit Board Replacement

TDF112

Service Procedure

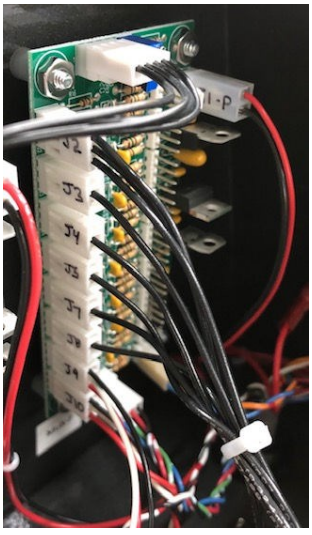
TS044

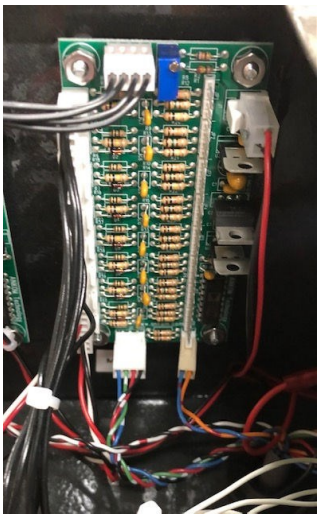
Revised: 8/29/22 RJC



1. Prepare the instrument for service.
   A. Power off the instrument and unplug the instrument.
   B. Remove the back and top panels of the electrical enclosure by removing the 17 screws.
   C. Once open you will find the MUX-P board on the side marked with the blue arrow.
   D. Use a grounded anti-static wrist strap to prevent static damage to the circuit board.

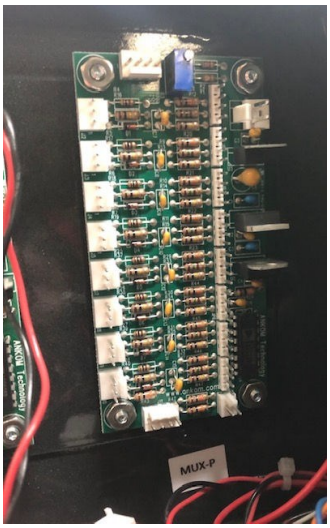
2. Identify the MUX-P board. Disconnect the J2, J3, J4, J5, J7, J8, J9 and J10 (3-pin white connectors). Remove the 4-pin jumper near the top of the board. Remove the power leads labeled J-1P. Remove the 2-pin connector near the bottom of the board with orange-red and blue-red wires leading to it. Remove the 4-pin connector at the bottom of the board with the blue-white, green-white, red-white, and black-white wires leading to it.

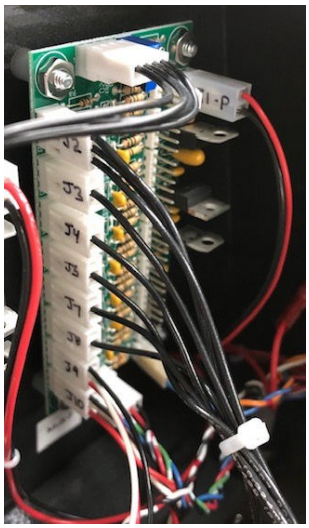




3. Unscrew the 4 nuts securing the board to the side panel of the electrical enclosure. Be sure to save the 4 nuts and 4 plastic stand-offs. Replace with the new MUX-P board. Secure board with the stand-offs behind the board and 4 nuts.

4. Reattach the wiring connectors to the board as shown.





5. From the Touch Screen Display, go to Diagnostics / Pressures. Check the pressures to be sure the individual Line pressures, Input Pressure and Vacuum pressure are reading correctly. Note: the Line pressures read atmospheric pressure which will vary depending on your altitude and weather. A variation of ± 0.5 psi between Lines is normal. The Input Pressure will read the pressure of the High Pressure Regulator gauge + atmospheric. To obtain a new reading on the Vacuum sensor you will need to run a brief Motor Test (also found in Diagnostics).
6. Close up the electrical enclosure with top and back panels using the 14 screws removed earlier.