

April 24, 2009

This manual describes the replacement of the AB/BF/HS Pressure Transducer Cable

A grounding clamp is included for use in bonding the pressure transducer to the controller chassis. In the event of voltage surges such as from lightning, the ground clamp in conjunction with the grounding wire in the transducer cable will help to ensure the transducer case stays at the same potential as the controller. This will protect the Pressure Transducer and the User Interface Board from insulation failure.

The pressure transducer cable is replaced by one having a grounding conductor. This 14AWG green wire connects to the bottom left hand mounting screw of the User Interface Board. At the other end, this wire connects to the ground clamp.

INSTALLATION INSTRUCTIONS

Warning: All electrical work must be performed by a qualified technician

Disconnect Power to Controller & Wait

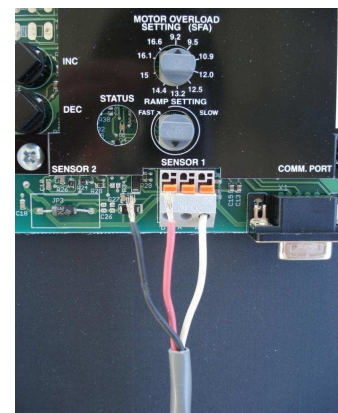
Disconnect power from controller and wait for 5 minutes for dangerous voltages to discharge inside controller.

1. Turn off power to controller
2. **Wait for five minutes.**
3. Remove the cover screw as shown in Figure 1 and then remove the top cover.



Figure 1: Remove cover screw

4. Remove the transducer wires from the User Interface Board. Press down on the orange plastic button on the pressure transducer terminal block and pull out the wires (black, red and white) as shown in Figure 2.



**Figure 2: Remove
Transducer Wires**

5. Remove the old cable connector as shown in Fig 3 (if applicable).



Figure 3: Remove Old Cable Connector (if applicable)

6. Assemble the new connector as shown in Fig 4. & pass the cable through the new connector.

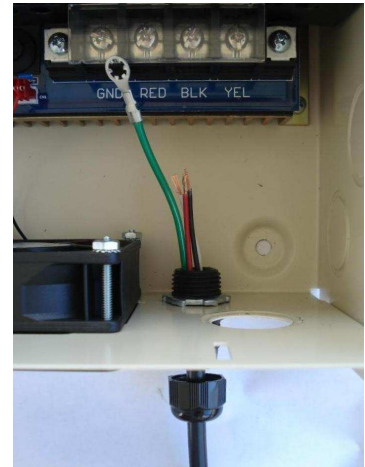


Figure 4: Feed Cable Through New Connector

7. Connect the black, red, and white wires of the Pressure Transducer cable to the pressure transducer terminal block (indicated by the letters B R W on the circuit board) as shown in Figure 5. Connect green ground wire to the User Interface Board mounting screw on the lower left side. Mounting screw and ground wire ring terminal must be touching. Remove handheld mounting tab if necessary.

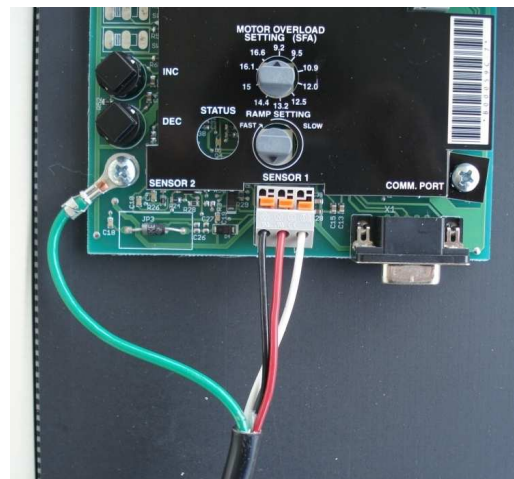


Figure 5: Connect Transducer Wires and Ground

8. Attach ground clamp to the transducer hex and attach ground wire to clamp as shown in Figure 6.



Figure 6: Attach Ground Clamp and Ground Wire

9. Replace controller cover before applying power.