



VPS191 VACUUM SWITCH INSTALLATION INSTRUCTIONS



WARNING - Danger, line voltage is present at the Vacuum Switch terminals. Before replacement of the Vacuum Switch disconnect line voltage to the PowerMax™.



REMOVAL AND REPLACEMENT

1. Disconnect line voltage to the PowerMax. **See WARNING above!**
2. Remove cover from the Vacuum Switch. **Note:** Make a diagram or take a picture of what wires go to which terminals in the Vacuum Switch, **see Figure 1**. Remove the wires from all terminals and ground lug. Disconnect the conduit connector from the Vacuum Switch base.
3. Using a $\frac{3}{4}$ " wrench, unscrew the Vacuum Switch from the manifold block hex nipple. Clean the manifold block hex nipple of any old pipe sealant and recoat with RPI Pipe Sealant 567 (RPI Part #RPA459).
4. Install the new Vacuum Switch onto the manifold block hex nipple. Remove the Vacuum Switch cover and reinstall the conduit connectors to the Vacuum Switch base. Reconnect the wiring to the Vacuum Switch terminals, **see Figure 1**.
5. Reconnect line voltage to the PowerMax.

VACUUM SWITCH ADJUSTMENT

6. Check and adjust the Vacuum Switch setpoints as follows:
 - a. Close the ball valve and drain valve.
 - b. Turn on the PowerMax.
 - c. Observe the vacuum gauge, the PowerMax should shut off at 20"Hg. Adjust the vacuum range adjustment screw if the system didn't shut off at 20"Hg. (**See Figure 1**). Clockwise will decrease the vacuum range setting, counter clockwise will increase the reading.
 - d. Open the drain valve, the PowerMax should turn on at 13"Hg. Adjust the low limit setpoint screw if the system does not turn on at 13"Hg. (**See Figure 1**). Clockwise will decrease the reading, counter clockwise will increase the reading.
 - e. Close the drain valve.
7. Open the ball valve and reinstall the Vacuum Switch cover.
8. Check machine operation.

FIGURE 1 VACUUM SWITCH

