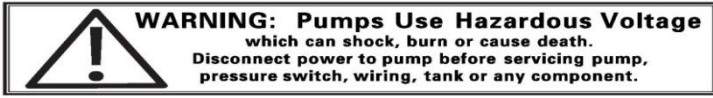


Jet Pump and Two-Wire Submersible Pump Pressure Switch Replacement

(flip page for 3 wire submersible pump instructions AND adjusting instructions)



THIS PRESSURE SWITCH WILL WORK ON BOTH 115 VOLT AND 230 VOLT AC CIRCUITS

Remove the Existing Switch

1. Disconnect power supply
2. Drain all water pressure from the system
3. Remove existing wires from the pressure switch including the ground wires. ***IMPORTANT*** we suggest you make note of which wires are the power supply wires and the pump motor wires. This will help during the installation of the new switch.
4. Remove the old switch from the system

Installation:

The pressure of the air in your tank MUST BE 2 PSI BELOW THE CUT-IN pressure OF YOUR NEW SWITCH (SEE TABLE A). Not making sure of this air pressure setting will cause the pump to stop and start too often and will eventually damage the pump.

1. Install the new switch on the system. Secure the new switch to the jet pump motor or position the switch on the piping for submersible pump system. (Use thread tape on pressure switch inlet to prevent leaks)
2. Remove the switch cover and feed wires from the pump motor and power supply through the openings on either side of the switch.
3. Attach motor wires to the terminals marked "LOAD" or "2 and 3" terminals. Attach the ground wire to the Green Ground Screw.
4. Attach power supply wires to the terminals marked "LINE" or "1 and 4" terminals. Attach the ground wire to the Green Ground screw.
5. For safety, the switch must be grounded by direct metal to metal contact. Motor must be grounded to conform to local electrical codes. CONSULT A LICENSED ELECTRICIAN.
6. Re-install switch cover and test the system several cycles for proper operation.

****NOTE**.** To start your pump using a low level pressure switch, you must hold the lever in the start position until the pump has reached the required cut-in pressure. This means your pressure must reach 30 psi before you can release the lever into the automatic position. Failure to follow this step will cause the pump to not work properly

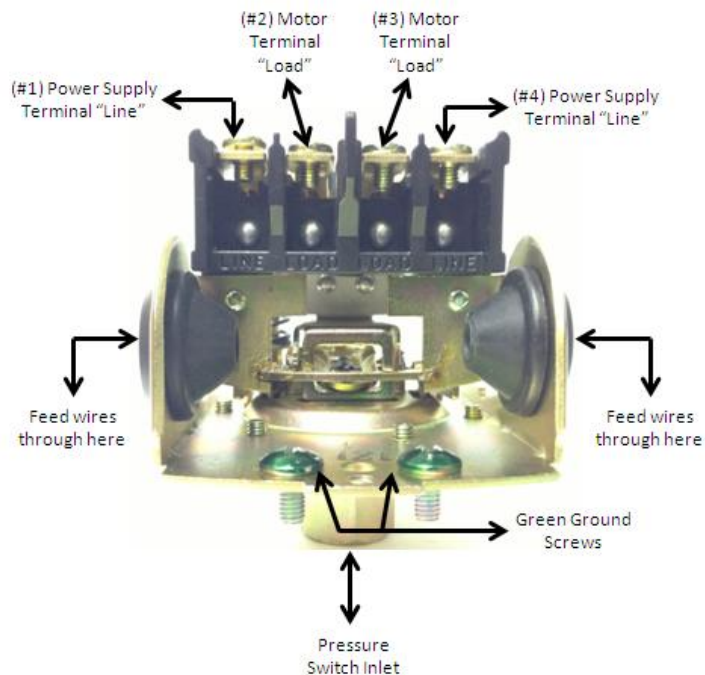
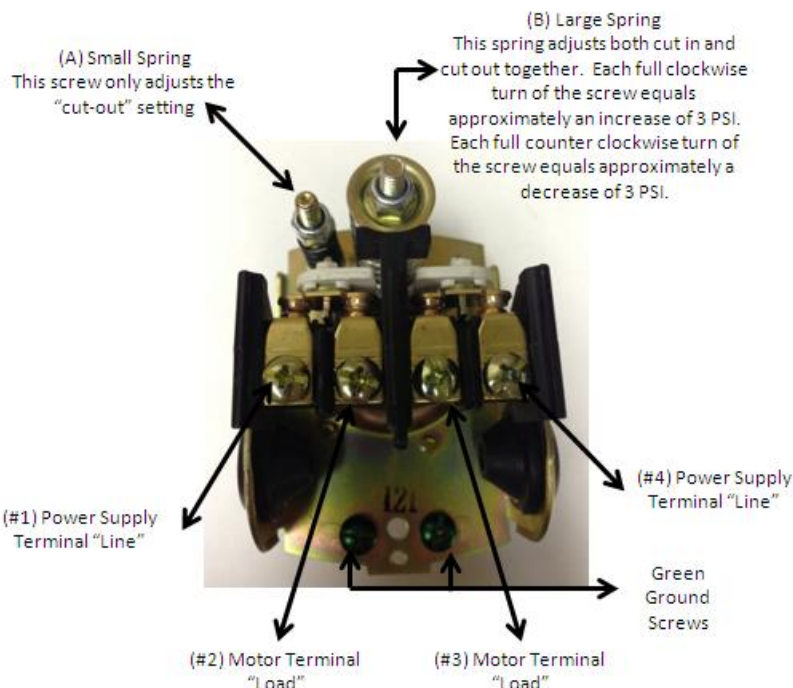
Table A



Switch Model	PSI Air Pressure In Tank
20-40	18
30-50	28
40-60	38

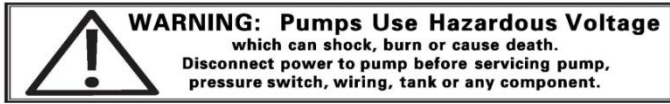
Check air pressure in your tank after draining the water. Look for the air valve on the upper part of the tank.

Cut-in pressure: Pressure when pump turns on
Cut-off pressure: Pressure when pump turns off



Three Wire Submersible Pump (Control Box) Pressure Switch Replacement

(flip page for Jet pump and two wire submersible pump instructions AND wiring diagrams)



Three-Wire Pumps Require A Control Box

Replacing the Pressure Switch on your system does not necessarily mean you need to replace the control box. To replace Switch, proceed through the steps below. If installing a new control box, disconnect old wires and reconnect them in the same way to the new box – making sure of the following connections:

- The red, black, and yellow pump wires are connected to the "R", "B", and "Y" terminals in the control box (see picture)
- The wires to the pressure switch are connected to the terminals "L1" and "L2" (see picture)
- The green ground wires from the pump and to the Pressure Switch are connected to each of the grounding screws provided (see picture)

Install the new Pressure Switch

1. Remove the Switch cover and feed wires from the control panel and power supply through the openings in switch.
2. Secure the new switch in position where the old pressure switch was removed.
3. Attach Control Panel wires to the connections marked "LOAD" or "2 and 3".
4. Reattach wires for incoming power to the connections marked "LINE" or "1 and 4"
5. Replace the Switch Cover. Test system several cycles for proper operation.

****NOTE** To start your pump using a low level pressure switch, you must hold the lever in the start position until the pump has reached the required cut-in pressure. This means your pressure must reach 30 psi before you can release the lever into the automatic position. Failure to follow this step will cause the pump to not work properly**

Adjusting Switch and Tank Pressure for Maximum Performance

1. For your pump to work properly, the tank's air pressure, measured when there is no water in the tank, must be 2 PSI below the 'cut-in' setting (lower of the two numbers describing your switch, i.e. **20-40, 30-50, 40-60**) (SEE TABLE A). This lower number is the pressure at which the switch turns on your pump.
2. If tank's air pressure is NOT 2 PSI below the 'cut-in' setting, the pump will run in short cycles, (starting and stopping often), increasing electricity cost, and wearing out your pump.
3. To check your tank's air pressure:
 - a) Disconnect power supply and drain all water from the tank.
 - b) Locate the air valve (similar to automobile tire air valve) usually near the top of the tank
 - c) Check the tank's pressure using an automotive tire pressure gauge.
4. To adjust the tank's air pressure to 2 PSI below the switch "cut-in" pressure:
 - a) If pressure is too high, bleed air from the tank
 - b) If pressure is too low, use a compressor or tire pump to add air
 - c) Recheck with a tire gauge and continue to adjust until the pressure is 2 PSI below the switch "cut-in" setting. (For example, a tank used with a 30/50 Pressure Switch should contain 28 PSI air.)
5. To increase the overall water pressure in your system:
 - a) Disconnect all electrical power to the pump system and pressure switch.
 - b) Drain water pressure from the system.
 - c) Remove Switch Cover.
 - d) Turn nut on LARGE adjustment spring (B), **clockwise 360° for each 3 PSI** you wish to increase your systems water pressure. *NOTE* if you would like to adjust the "Cut-Off" pressure only, you will need to adjust the SMALL spring (A) **Clockwise 360° for each 3 PSI** you wish to increase your system's "Cut-Off" water pressure.
 - e) Check tank's air pressure with a tire gauge and add or bleed-off air (see #4 above) until tank pressure is 2PSI below the new cut-in setting of your pressure switch.
 - f) Replace switch cover and turn on electric
 - g) If system has a built-in water pressure gauge, use it, or use a portable water pressure gauge to verify new system pressure

**THIS PRESSURE SWITCH WILL WORK ON BOTH
115 VOLT AND 230 VOLT AC CIRCUITS**

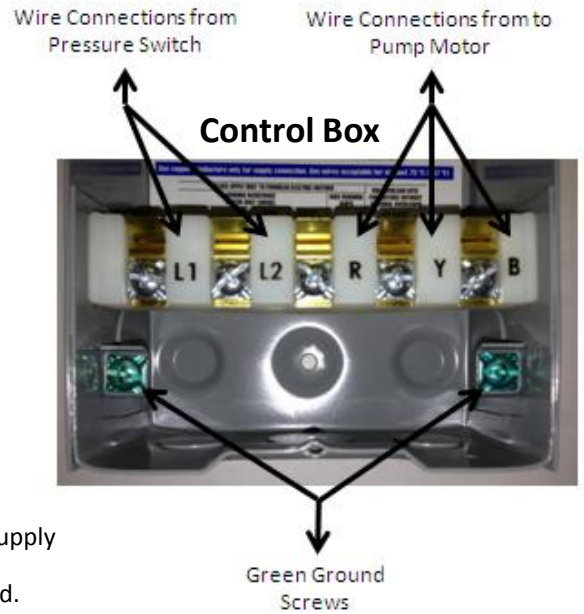


Table A

Switch Model	PSI Air Pressure In Tank
20-40	18
30-50	28
40-60	38



Check air pressure in your tank after draining the water. Look for the air valve on the upper part of the tank.