

**Operating & Service
Instructions For:**9624
40281
PC300
Y-40281

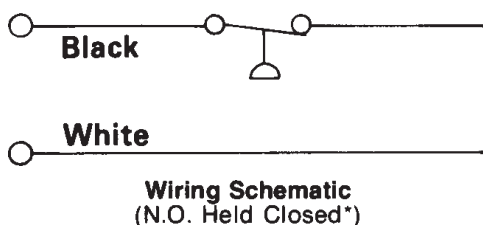
PRESSURE SWITCH

Electrical Hook-up and Operation

**WARNING:** Any electrical work should be done by a qualified or licensed electrician.**Disconnect power supply before removing electrical box cover.**

Refer to Parts List No. 100323 when performing the following procedure.

Mount the pressure switch to the control valve or manifold by removing the gauge fitting (similar to item 26) from the valve/manifold and threading the bolts (33) supplied with the pressure switch into the valve/manifold body. Attach the nuts (34), also supplied, to the bolts and tighten to 80-85 in.-lbs.



*Switch is wired normally open and held closed by spring force.

**See the instructions under the heading - ADJUSTING THE PRESSURE SWITCH.

Sequence of Operation

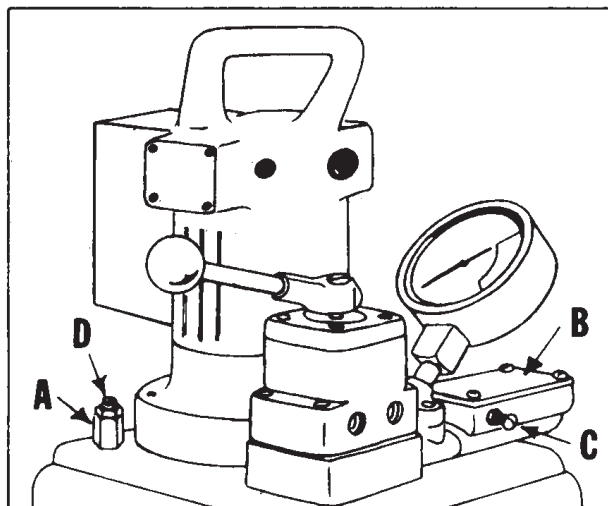
1. Switch is held closed below pressure set-point**, circuit is active.
2. Upon rising pressure, switch opens at pressure set-point**, opening circuit.
3. Upon descending pressure, switch closes at pressure set-point**, activating circuit.

Adjusting the Pressure Regulating Controls

The pressure regulating valve (A) and the pressure switch (B) are shown in the illustration below right. The pressure regulating valve can be adjusted to bypass oil at a given pressure setting while the pump continues to run. The pressure switch can be adjusted to stop the pump motor at a given pressure setting, and to restart the pump when the pressure falls below that setting. The pressure switch should be used only in conjunction with the pressure regulating valve, in order to insure accuracy and a low pressure differential (approx. 500 PSI) throughout the pressure range (1,000-10,000 PSI).

Adjusting the Pressure Regulating Valve

1. Loosen the locknut on the pressure regulating valve (A) and back the adjusting screw (D) out a few turns with a screwdriver by turning in a counterclockwise direction. This will decrease the setting to a lower than desired pressure.
2. Pump must be completely connected and the control valve in operating position. Turn the pump toggle switch to "Run" position and start pumping.
3. With the screwdriver, slowly turn the adjusting screw (D) in a clockwise direction. This will gradually increase the pressure setting. When the desired pressure is reached, lock the adjusting screw in position by tightening the lock nut.

**WARNING:** Always adjust the pressure regulating valve by increasing to the desired pressure. Do not attempt to adjust by decreasing from a higher to a lower pressure.**NOTE:** Pressure range is 1,000 to 10,000 PSI.

Adjusting the Pressure Switch

The pressure switch should be used only in conjunction with the pressure regulating valve:

1. Loosen the locknut on the pressure switch (B) and with a screwdriver turn the adjusting screw (C) in a clockwise direction. This will increase the pressure setting to a higher than desired pressure.
2. Adjust the pressure regulating valve (A) to the desired pressure setting by using the procedure outlined in the section entitled "Adjusting the Pressure Regulating Valve".
3. With the pump running and bypassing oil at the desired pressure, slowly turn the pressure switch, adjusting screw (C) in a counterclockwise direction decreasing the pressure switch setting until the pump motor shuts off. Then lock the adjusting screw (C) in position by tightening the locknut.
4. Break pressure with the control valve, then run the pump to check the pressure setting and cut-out of the motor. It may be necessary to make a second fine adjustment.

NOTE: When the pressure switch setting is reached the motor will cut-out. However, the "coast" of the motor continues for a brief period to deliver oil. The pressure regulating valve bypasses this surplus oil preventing it from going into the system. As a result lower settings can be obtained (1,000 PSI) and the pressure differential can be held to approximately 500 PSI.

SWITCH RATING: 5 AMP, 250 VAC

SPECIFICATIONS

