

INSTALLATION PROCEDURES FOR MODELS:  
P100, P116, P117, P119, J205, J705, P605, W117

## VACUUM AND PRESSURE SWITCHES



201 DOLPHIN RD. • BRISTOL, CT 06010 • 860 583-1847

WEB SITE: [WWW.WHITMANCONTROLS.COM](http://WWW.WHITMANCONTROLS.COM)  
FAX # 860-583-5293

### CAUTION

This instrument must not be subjected to temperatures, pressure or electrical loads exceeding those appearing on the name plate, and specifications in our published literature.

## INSTALLATION AND ASSEMBLY INSTRUCTIONS

Before installing your WCC pressure switch, please become familiar with the general information contained in the literature and Technical Specification Sheet covering the specific switch.

### "F" SET

Factory set switches are preset and sealed at the Whitman Control's factory in accordance with specific instructions from the customer. They cannot be readjusted in the field.

### "C" SET

Customer set and field adjustable.

### "K" SET

Factory set to customer specification. May be adjusted in the field.

### Electrical Connection

If your switch has a standard "T" interface, push-on receptacles may be used as interface between your wires and the terminals. These receptacles are available upon request.

### Soldering

Should you choose to solder the connection, care must be used when soldering the leads to the terminals of these switches, following the recommendations below.

We recommend that a soldering iron with an 1/8" diameter THERMOSTATICALLY controlled tip of 500°F be used and that it not be on the terminal longer than 10 seconds.

Excessive heat and flux can cause serious damage to the switch.

**Pressure Connection** Use a wrench on the hex part of the fitting only. DO NOT TORQUE the switch body.

### PRESSURE SET POINT ADJUSTMENT - JAM NUT

## STYLE ADJUSTING RING MODELS P100, P116, P117, W117, P119, J205, J705 - K OR C SET

The K & C designs are readily adjustable throughout their prescribed range by loosening the adjusting ring. Turning the electrical switch clockwise will lower the set point, turning it counterclockwise will increase the set point. When desired set point is reached, the assembly is locked again by tightening the adjusting ring.

Entire adjustable range may be covered by rotating approximately 250° each side of the mean.

### VACUUM SET POINT ADJUSTMENT - VACUUM MODELS

To lower set point turn electrical switch counterclockwise. To raise set point turn electrical switch clockwise.

### PRESSURE SET POINT ADJUSTMENT - MODEL P605

Slide spring clip cover down past adjusting ring window. Insert .093 inch dia. pin into adjusting ring radial hole. Pushing the pin to the right (counterclockwise) will lower the set point; to the left (clockwise) will raise the set point. When desired set point is reached, remove pin and slide up the cover to close the adjusting ring window.

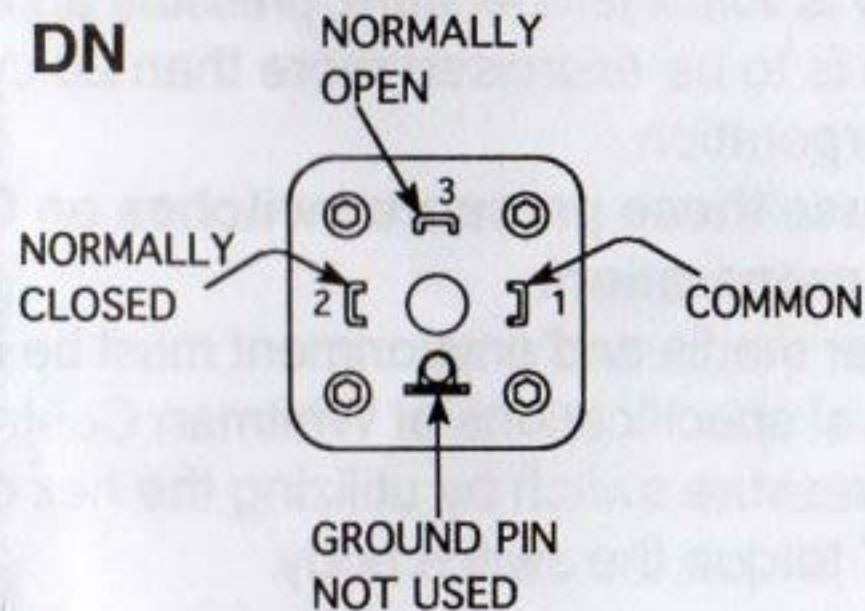
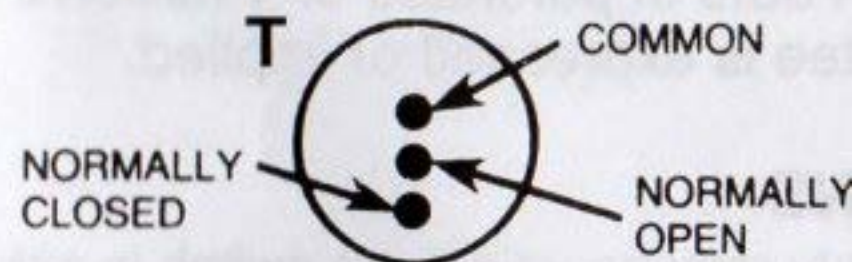
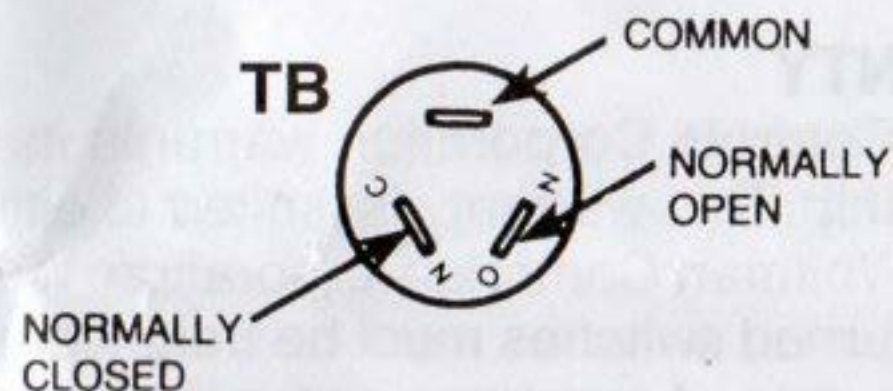
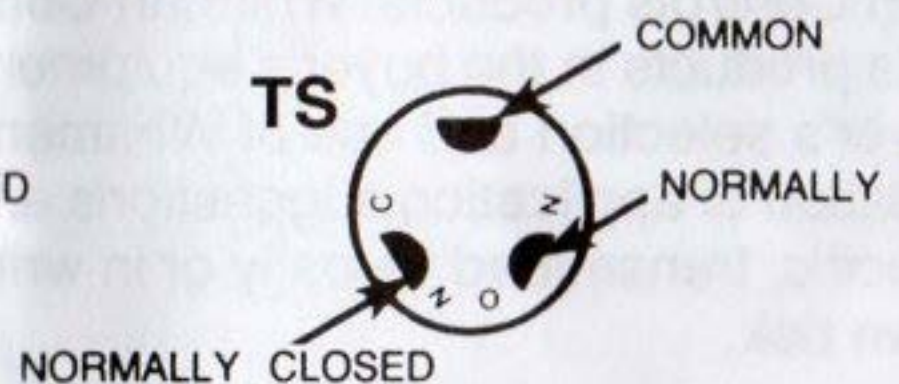
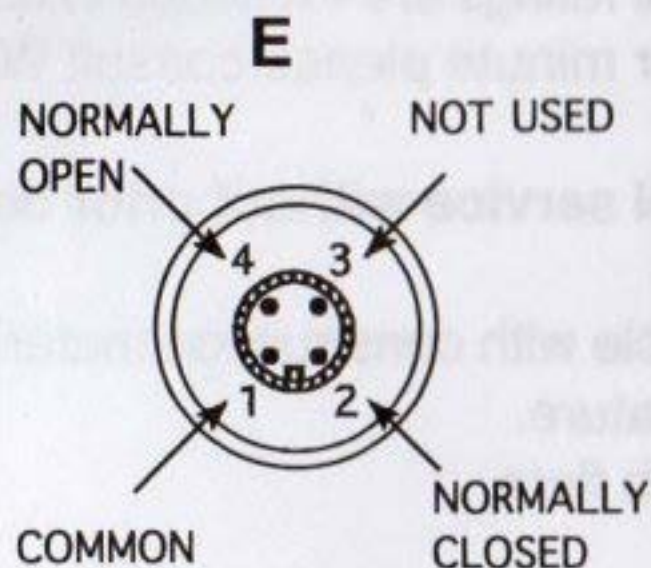
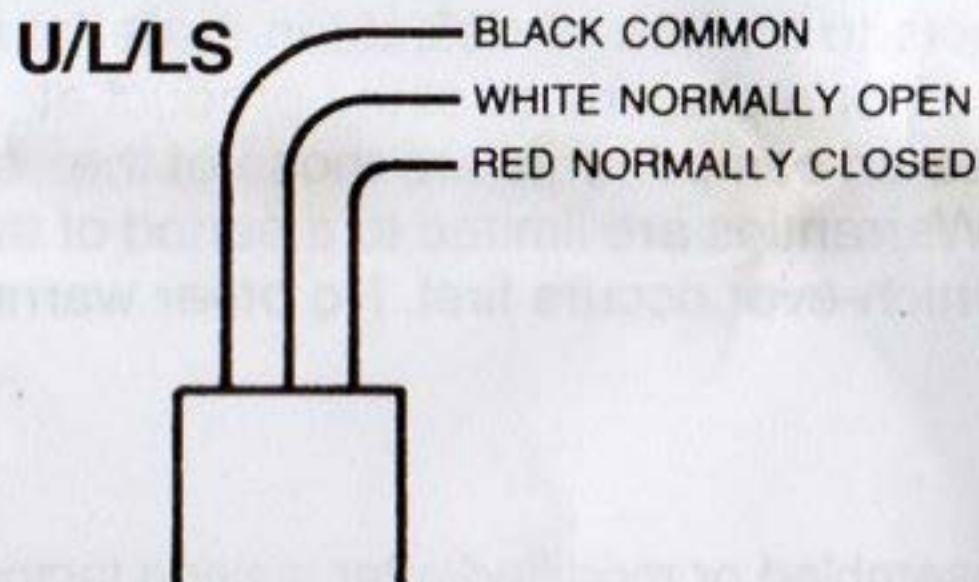
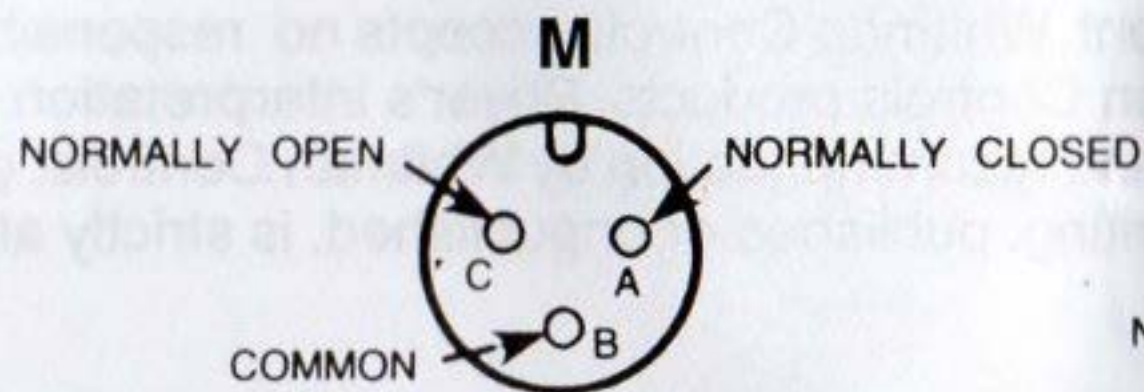
### PRESSURE SWITCH SET POINT TESTING

For best results when testing for electrical state change:

- Install into final application as superior test method.
- Bench test when final application is not available by using 6 or 12 VDC power supply with 0.5 to 1 watt load.
- Do not use an ohm meter or multimeter, as this method will result in erroneous readings.

# WIRING INSTRUCTIONS - PRESSURE SWITCHES\*

MODELS P100, P116, P117, P119, J205, J705, P605, W117



\*Vacuum Switches: Normally Open & Normally Closed are reversed

## **LIMITATION OF APPLICATION LIABILITY:**

Whitman Controls Corporation assumes the buyer to be expert in his intended application of Whitman Controls products. Whitman Controls claims no special expertise in the application of its products in the buyer's equipment. Whitman Controls accepts no responsibility for the buyer's selection and use of Whitman Controls products. Buyer's interpretation and implementation of application suggestions and recommendation by Whitman Controls, general or specific, transmitted verbally or in writing, published or unpublished, is strictly at the buyer's own risk.

## **WARRANTY**

Whitman Controls Corporation warrants its products to be free of defects in material and workmanship. This warranty is limited to either repair or replacement of the product at the option of Whitman Controls Corporation. Warranties on components are those of the suppliers. Returned switches must be freight prepaid. Warranties are limited to a period of three years from date of purchase or 1 million cycles, which-ever occurs first. No other warranty or guarantee is expressed or implied.

## **CAUTIONS**

- Warranty may be void if the switch is either disassembled or modified after leaving factory.
- Warranty is void if temperature, pressure and electrical ratings are exceeded in test or in service.
- If switch is to be exercised more than 20 cycles per minute please consult Whitman Controls Corporation.
- **Do not use these pressure switches on OXYGEN service without prior degreasing and proper preparation.**
- Customer media and environment must be compatible with construction materials as outlined in general specifications of Whitman Controls Literature.
- Install pressure switch by utilizing the hex or wrench flats.  
Do **NOT** torque the switch body.