



# CONVEYOR COMPONENTS COMPANY

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## MODEL PC: CONTROL REPLACEMENT AND TESTING INSTRUCTIONS

1. BEFORE you begin, lock out all power to the conveyor system to prevent accidental start-up. Lock-out and disconnect the electrical power to the PC control to be repaired.
2. Remove the main housing cover.
3. Check the internal wiring with a voltmeter to insure there is no electrical power present. Remove the wiring from the switch(es) to be replaced.
4. Remove the parts to be replaced. To replace the switch(es), the entire switch assembly must be removed before individual switches can be removed.  
NOTE: later models of the PC control allow for the removal of the complete hub assembly without separate removal of the switch assembly. On the earlier models, the switch assembly will not fit through the hub mounting access hole. On these earlier models the switch assembly must be removed first before the hub assembly can be removed.
5. The switch assembly can now be disassembled.
6. Re-assemble the switch assembly and hub assembly using the new replacement parts. Do not re-wire at this time. For steps 6-8, refer to Figure 2 for typical circuit arrangements.
7. To test an SP/DT, PC-S model switch-hub assembly, connect a continuity tester to the common screw and each of the N.O. and N.C. screws in turn. When testing, be sure to test each of the two combinations of common and N.O. and N.C. terminals. Slowly apply a pulling force to the hub's cable connection clevis away from the assembly. The switch shall activate before the flag moves. If it does not, pry apart the switch bracket, and re-test (see figure 1). The continuity tester should indicate the correct change in electrical continuity from Common to N.C. and Common to N.O.

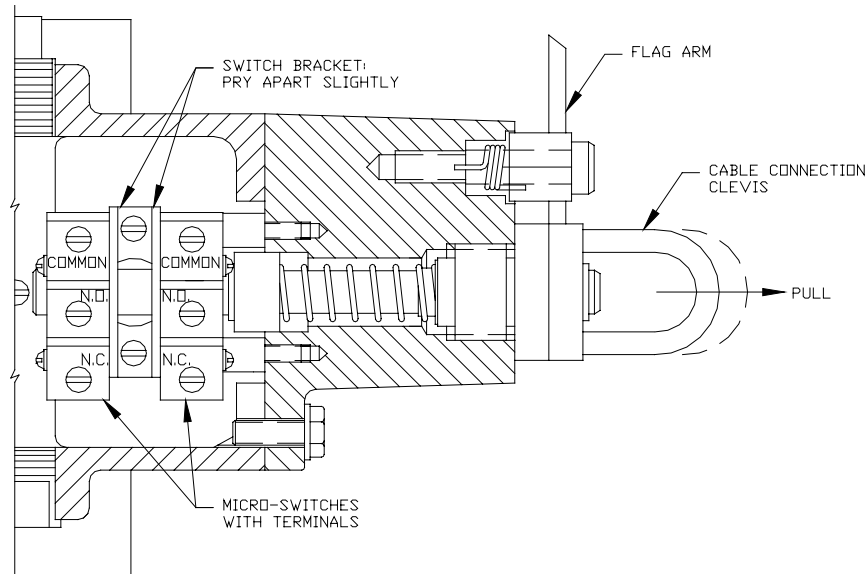
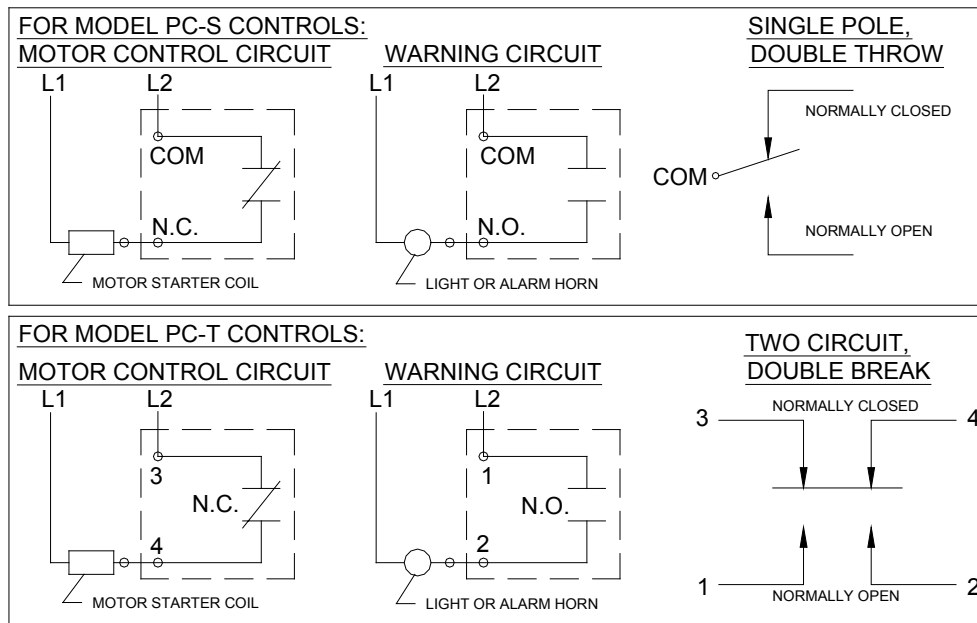


Figure 1: Hub and Switch Assembly Installed on a Model PC-2S Control

8. To test a two-circuit double break switch model PC-T, connect a continuity tester across the screws of each the N.C. and N.O. circuits in turn. When testing, be sure to test each of the two combinations of N.O. and N.C. terminals. Slowly apply a pulling force to the hub's cable connection clevis away from the assembly. The switch shall activate before the flag moves. The continuity tester should indicate the correct change in electrical continuity from Normally Closed to Open and Normally Open to Closed. If it does not, please contact Conveyor Components Co. for assistance.
9. Once testing is complete, re-wire the circuits, and replace the cover and cover hardware.
10. Make sure the pull cable is properly attached to the PC control per installation instructions. Power-up the PC control and conveyor system, and test the switch operation by pulling the actuation cable. The conveyor should stop, and the flag arm should rotate, locking the cable clevis assembly in the out position.
11. Be sure to test each PC switch every 3 months by pulling the actuation cable and observing its operation. Again, the conveyor should stop, and the flag arm should rotate, locking the cable clevis in the out position.
12. If the unit fails to operate, lock out the system, and carefully inspect. Replace parts as necessary.

Figure 2: Typical PC Control Circuits:



NOTE: The two circuit double break switches must be wired to equal voltage sources and the same polarity. Loads should be on the same side of the lines. Terminal 1 has the same polarity as terminal 3.

MICRO-SWITCH INFORMATION:

Standard "S" Switch: SP/DT, one or two switches per end of control	Optional "T" Switch: Two Circuit Double Break, one or two switches per end of control
20 amps, 125, 250, or 480 VAC	15 amps, 120, 240, 480 or 600 VAC
10 amps, 125 VAC "L" (tungsten lamp load)	½ HP, 120 VAC
1 HP, 125 VAC	1 HP, 240 VAC
2 HP, 250 VAC	0.8 amps, 115 VDC
½ amp, 125 VDC	0.4 amps, 230 VDC
¼ amp, 250 VDC	