



INSTRUCTIONS TO CONVERT PC 312-3 TO PC 324-2

WARNING:

HIGH VOLTAGES MAY BE PRESENT. INSURE THAT POWER IS OFF AND CAPACITORS ARE DISCHARGED BEFORE WORKING ON EQUIPMENT!

Never work on equipment while it is connected to input power. Power should be turned off and the input power connections at TB4 removed before working on equipment.

This kit contains the following parts:

- 1 Red light module
- 1 Violet wire with one connector and one stripped end
- 1 White/blue wire with one connector and one stripped end
- 1 Red wire with connectors
- 1 White/red wire with connectors
- 1 Info card
- 1 Set of instructions.
- 1 Label (324-2)

Useful tools (Not Supplied)

- Philips head screw driver
- Pliers
- Small flat head screw driver
- Wire ties
- Wire cutters
- Glue/tape

PLEASE REFER TO THE PC 312-3 WIRING DIAGRAM (DWG. 38451-01 or 38451-31 (50Hz)) AND PC 324-2 WIRING DIAGRAM (DWG. 39041-05 or 39041-06) WHILE PERFORMING THE FOLLOWING INSTRUCTIONS.

1. Remove the white/blue wire from PCB1, J16-1 and tie it back.
2. Remove the violet wire from PCB1, J16-5 and tie it back.
3. Remove the blue wire from PCB1, J16-6 and tie it back. (The blue wire between the green and violet wires)
4. Locate the red light module in the upper right hand side of the unit.
5. Disconnect the two white plug connectors P2 and P3 from J2 and J3 respectively.
6. Loosen the two screws on the bottom of the red light module.
7. Carefully remove the red light module. Before you can completely remove it, the ground connection on the backside of the red light module must be removed. Save this screw you will need it later.

8. Remove the two screws holding TB2 to the frame.
9. Lift up on TB2 and remove the violet wire on the back of TB2-6 and the white/blue wire on the back of TB2-4 and tie them back (if possible).
10. Connect the supplied red wire to the back of TB2-6 and the white/red wire to the back of TB2-4. These two wires should be routed straight up towards the top of the unit.
11. Reconnect TB2 to the frame.
12. Connect the ground wire removed in step 7 to the back of the new red light module (1811507 or 1811508) in the same location as on the old red light controller.
13. Connect the previously installed red wire coming from TB2-6 and the white/red wire coming from TB2-4 (refer to step 10) to the marker and trigger transfer relay K5 to terminals one (1) and four (4) respectively.
14. Install the supplied red light module to the base plate.
15. Connect the supplied white/blue wire from K5-7 to PCB1, J16-1.
16. Connect the terminal end of the supplied violet wire to the terminal end of the violet wire coming from K5-8 and the stripped end to PCB1, J16-5. Route wires and ty-wrap as required.
17. Reconnect the two plug connectors P2 and P3 to J2 and J3 respectively. Ensure wire colors match up.
18. The trigger and timing board (PCB1) should be programmed as follows:

4740 Board

No programming required.

4747 Board

Firmware Version EPROM (U5)	Dash Number Programming
7.0 and Earlier *	No Programming required *
7.1 and Higher	73 – 0 markers. 74 – 2 markers. 75 – 3 markers.

*** Eagle Diagnostics will still display the Model Number as PC 312-3 allowing for filter detection voltage to be utilized in the circuit for critical alarm reporting.**

19. Remove existing info card and replace with the supplied info card on the unit enclosure.
20. Make a permanent notation that a conversion was made by removing the old label 312-3 and affixing supplied label 324-1 above intensity select switch.
21. Ensure intensity select switch is in the AUTO position
22. Re-install enclosure cover.
23. Replace single (actuator) beacon with 324 dual Beacon as required.
24. Power the unit back up and test.

Congratulations! You're done.