

## KILLION INDUSTRIES - CHECKSTAND TROUBLESHOOTING GUIDE

### **If the front belt will not operate, follow these steps to diagnose the problem:**

1. The belt drive Powerroll is equipped with automatic thermal overload protection. Make sure that the belt drive has been allowed to completely cool down. If the belt continues to operate intermittently or not at all, proceed to the next step.
2. Check that the checkstand main power switch is in the on position. Plug an electrical device into the utility receptacle and see if it operates. If the electrical device does not operate, proceed to step #3. If the electrical device operates, proceed to step #4.
3. Check that the store circuit breakers for the inoperative lane are not tripped. (Each lane typically will have (2) breakers.) If the breaker is tripped, reset it by pushing it off and then on. If this does not work, then proceed to step #4.
4. This step is for checkstands equipped with electric eye systems. Clean any debris out of both electric eye housings and try to activate the belt. If this does not work proceed to step #5.
5. Remove the electrical access panel for the front module and locate the Tritronics PM-module (the module with lights on top). Unplug the module and swap it with a module from an operating lane. If this works, proceed to step #8 to order a replacement module. If this does not work proceed to step #6.
6. With the PM-module removed, short pin number 4 and pin number 6 together. (**NOTE: You should only do this if you are qualified to work around high voltage.**) If the belt runs, then the electric eyes are faulty. Proceed to step #8 to order replacement eyes. If this does not work proceed to step #7.
7. Remove the electrical access panel for the front module and locate the capacitor box. (The Powerroll leads connect directly to it.) Replace the capacitor with a capacitor from an operating lane. If this works, proceed to step #8 to order a replacement capacitor. If this does not work, proceed to step #8 and call for assistance.
8. Visit [www.killionservice.com](http://www.killionservice.com) to order parts or call Killion Industries, Inc, at (800) 421-5352.

## CONVEYOR BELT AND POWERROLL MOTOR REPLACEMENT INSTRUCTIONS

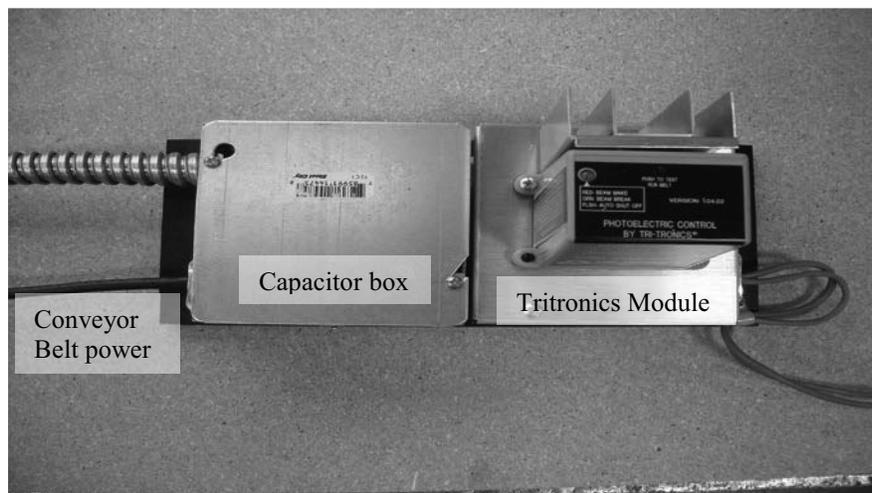
### TOOLS:

- Phillips head screwdriver
- 9/16” socket wrench

**WARNING – make sure the main power to the checkstand is OFF before accessing electrical components.**

### STEPS:

1. Disconnect main power from the checkstand.
2. Open the electrical access panel located below the belt toward the front of the lane.
3. Disconnect Powerroll lead wires to capacitor box. (See Figure 1.)



**Figure 1 - Example front/ main module electrical setup for checkstands.**

4. Remove stainless steel front & rear transition plates on both ends of the belt.
5. Unplug and remove electric eyes.
6. Remove belt drive unit from checkstand by lifting straight up. Set the belt unit on its side, using wood spacers for support, so that Powerroll lead is on top side. See Diagram 'B-1'.
7. Fully loosen belt tension by turning the two tension bolts located at the front of the belt counter clockwise. Then remove top side tension bolt only.
8. Remove 9/16” hex-nut(s) along lower portion of side rail (top side).

9. Remove pan-head screws from bottom side of conveyor slider deck.
10. Lift side rail straight up to remove.
11. Pull Powerroll straight up & out of bushing.
12. Reverse above procedure to install new Powerroll or belt replacement. Adjust belt tracking and tension. (See instructions.)

**CONVEYOR BELT ADJUSTMENT INSTRUCTIONS**  
(Reference Diagrams 'C-1' showing location of belt tension bolts)

**TO ADJUST TRACKING OF BELT:**

1. Remove the stainless steel front transition plate with a Phillips head screwdriver. If your belt is a reverse drive conveyor belt, then you must remove the rear transition plate for the belt.
2. Start belt running using on-off switch or hip switch, as appropriate.
3. If the belt is running to one side, adjust that side by tightening, (turning clockwise) the adjustment bolt about 1/4 of a turn using a 7/16" wrench.
4. Allow belt to run for at least 5 minutes before making another adjustment. This prevents over-adjustment.
5. Make finer adjustments as necessary.

**TO ADJUST TRACKING OF BELT:**

1. Place both hands on top of the running belt (near center) and firmly against the movement of the belt.
2. If the belt slips easily, it is too loose and the tension needs to be adjusted
3. To adjust belt tension, remove the stainless steel front transition plate with a Phillips head screwdriver.
4. Tighten (turn clockwise) the two adjustment bolts (turning each bolt equally) until the belt slips only under firm pressure.
5. Check and re-track belt if necessary.