

FORM #1497 LT300 THREE-WAY CONVEYOR CABLE RETROFIT INSTRUCTIONS

Part No. 052997 (3-Way Configuration)

Part No. 052998 (5-Way Configuration)

This kit includes parts to retrofit LT300 Three-Way Conveyor options prior to Rev. A3.00. Installing these parts will improve reliability. Parts included with this kit:

Item	Description	Part No.	Qty 052997	Qty 052998
1	PCB Assy, LT300 Modbus Adaptor	052951	2 ¹	3 ²
2	Cable Assy, RJ45 Industrial Ethernet 30' (5-way kit only)	052989	0	1
3	Cable Assy, RJ45 Industrial Ethernet 75'	052988	1	1
4	Cable, HD15 Male/Female HD15 7 1/2'	052991	1	1
5	Cable, HD15 Male/Female HD15 2 1/2'	052992	1	2
6	Receptacle, Panel Mount RJ45 Straight	052993	2	4
7	Cable, RJ45 Ethernet 1'	052994	2	4
8	Jack Screw, #4-40 Male/Female	052984	4	6
9	Stand-Off, .25 Hex x .5 Long	024042	8	12
10	Support, .125" Hole 6-32 Stud 1/8" Long PCB	052311	8	12
11	Screw, #6-32 x 1/4" Phillips Pan Head	F05004-202	8	12

¹ The PCB assemblies are labeled "LT300" and "Deck 1" . The assemblies are identical, except the DIP switches are pre-configured for proper operation. Be sure to use the correct PCB assembly for each control.

² The PCB assemblies are labeled "LT300", "Deck 1" and "Deck 2" . The assemblies are identical, except the DIP switches are pre-configured for proper operation. Be sure to use the correct PCB assembly for each control.



DANGER! Make sure all electrical installation, service and/or maintenance work is performed by a qualified electrician and is in accordance with applicable electrical codes.

DANGER! Disconnect and lock out power supply before servicing! Failure to do so will result in shock, burns or death.

1. Disconnect and lock out power to the LT300 and conveyors. Wait a few minutes to allow stored electrical power to dissipate (see Operator's manual for detailed procedure).

See Figure 1.

2. Open the LT300 electrical cabinet doors. Locate the connector in the set of port holes at the bottom of the control cabinet where the cable from the conveyor control enters. Disconnect the deck control cable from the connector and remove the connector from the cabinet port hole. Disconnect the other end of the connector cable from the LT300 PLC at the top of the control cabinet. Remove conduit covers as necessary and remove the cable from the cabinet.

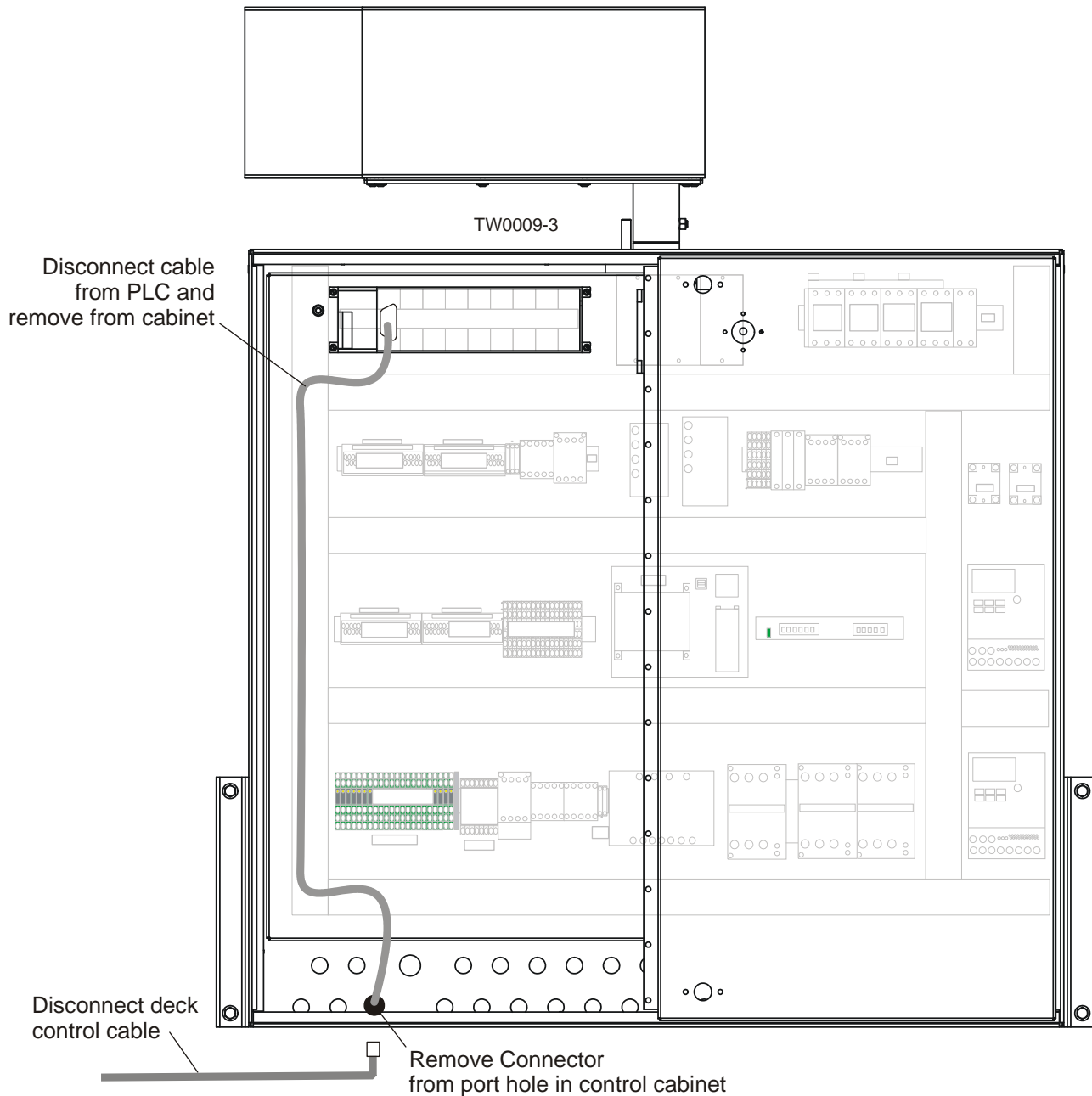
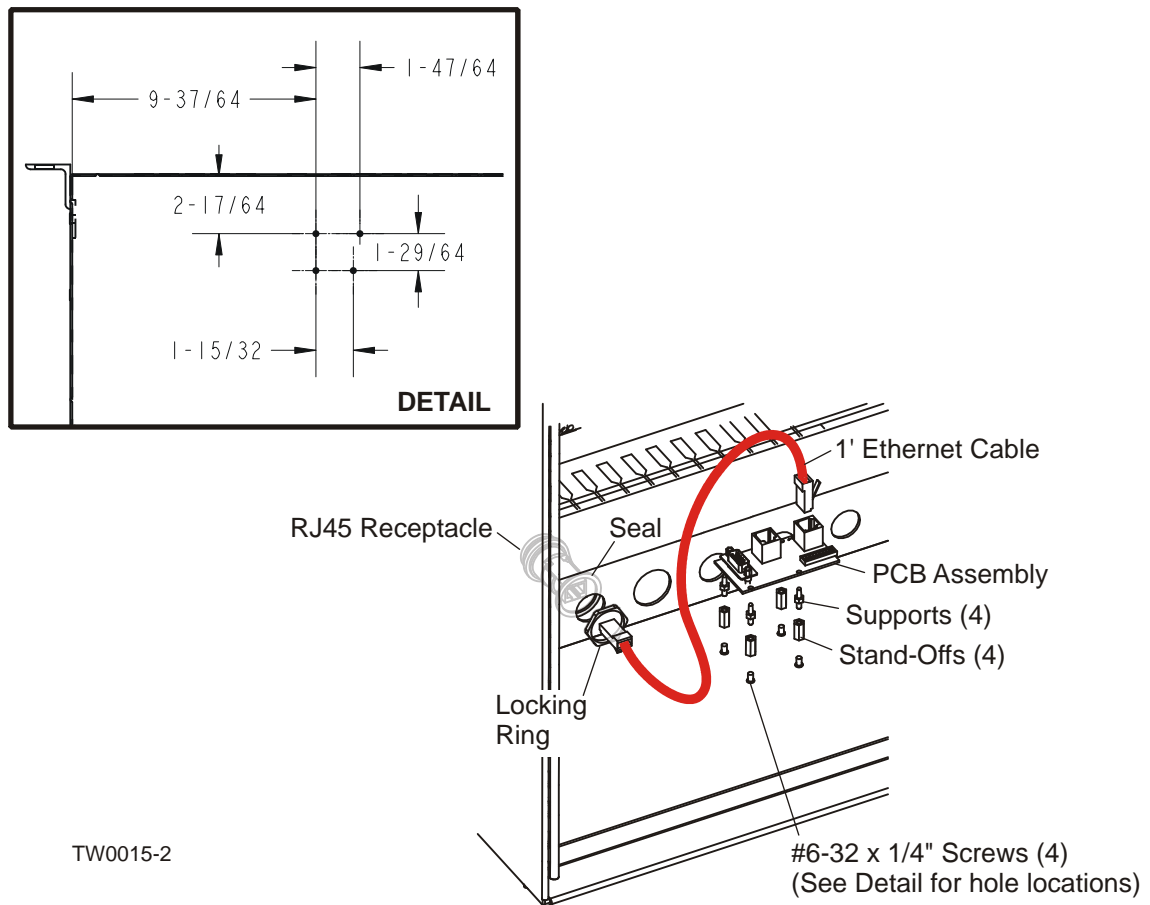


FIGURE 1

See Figure 2.

3. At the bottom of the control cabinet, drill four $9/64$ " holes at the locations indicated. Mount the four provided stand-offs to the holes with the supplied #6 screws. Assemble a PCB support to each stand-off and carefully press the PCB labeled "LT300" onto the supports until it snaps in place.
4. Install the provided RJ45 cable receptacle to an unused port hole in the back of the LT300 control cabinet. Orient the receptacle with the housing and seal outside of the box and secure with the threaded locking ring. Connect the receptacle to connector "J2" on the circuit board with the provided 1' ethernet cable.



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FIGURE 2

See Figure 3.

5. Connect the female end of the provided 7 1/2' HD15 cable to the connector on the circuit board. Route the cable through the electrical cabinet conduit and connect the male end to the PLC at the top of the cabinet. **NOTE:** The jack screws originally supplied with the PLC will not accept the new cable. Replace the PLC jack screws with the two provided. Replace the conduit covers and close the cabinet door.

Connect one end of the provided 75' ethernet cable to the receptacle at the bottom of the LT300 control cabinet. Push the connectors together and twist the outer housing to lock together. Route the cable toward the first three-way deck control box. Secure the cable out of the way of moving parts to avoid damage.

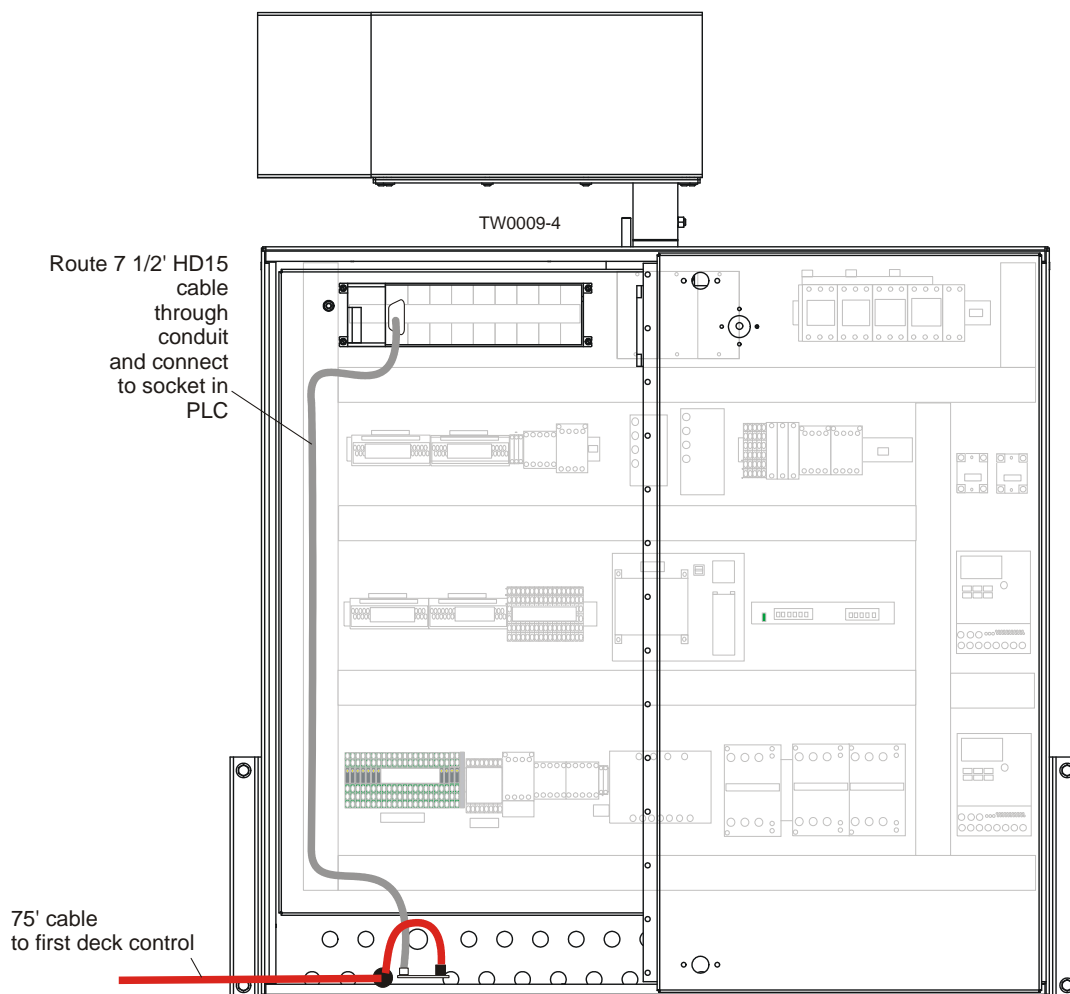


FIGURE 3

- Open the conveyor control box door (on the first deck if 5-way configuration). Disassemble the PLC connector(s) from the port holes in the bottom of the box. Disconnect the other end of the connector cable from the conveyor control PLC. Remove conduit covers as necessary and remove the cable from the box.

See Figure 4.

- At the bottom of the conveyor control box, drill four $\frac{9}{64}$ " holes at the locations indicated. Mount the four provided stand-offs to the holes with the supplied #6 screws. Assemble a PCB support to each stand-off and carefully press the PCB labeled "Deck 1" onto the supports until it snaps in place.

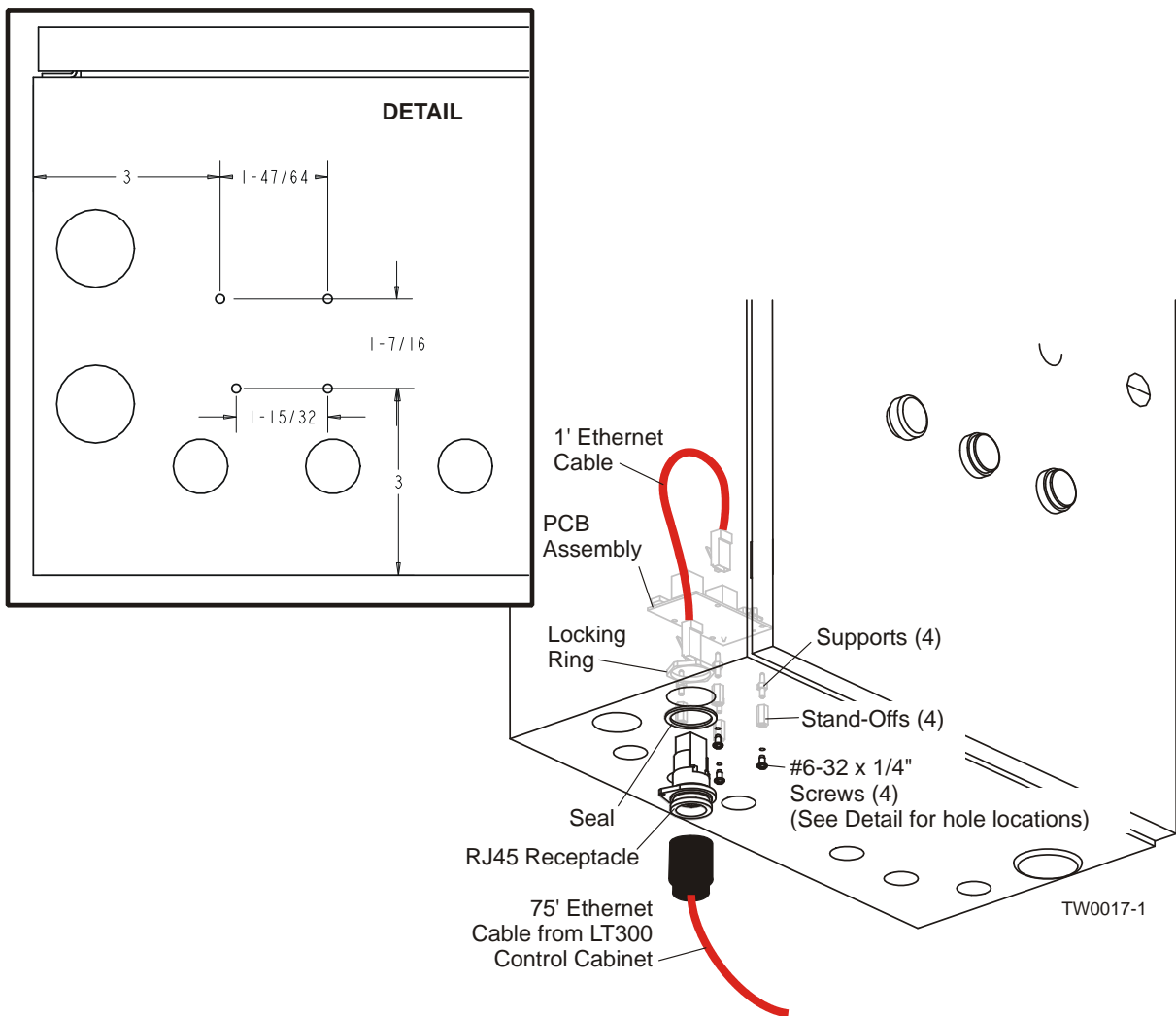


FIGURE 4

- Install one of the provided RJ45 receptacles to the port hole in the bottom of the first conveyor control box. Orient the receptacle with the housing and seal outside of the box and secure with the threaded locking ring. Connect the receptacle to connector "J2" on the circuit board with the second 1' ethernet cable.

9. Connect the 75' ethernet cable from the LT300 control cabinet to the receptacle. Push the connectors together and twist the outer housing to lock together.
10. Connect the female end of the provided 2 1/2' HD15 cable to the connector on the circuit board. Route the cable through the conduit and connect the male end to the PLC. **NOTE:** The jack screws originally supplied with the PLC will not accept the new cable. Replace the PLC jack screws with the two provided. Replace the conduit covers.

Installation is now complete for 3-Way configurations. Close the control box door and restore power to the machine. [See Figure 7](#) for DIP switch setting reference. If retrofitting a 5-Way configuration, continue to the next step.

See Figure 5.

11. Install a RJ45 receptacle to the other port hole in the bottom of the first conveyor control box. Orient the receptacle with the housing and seal outside of the box and secure with the threaded locking ring. Connect the receptacle to connector "J1" on the circuit board with a 1' ethernet cable.
12. Connect the provided 30' ethernet cable to the receptacle. Push the connectors together and twist the outer housing to lock together. Route the cable to the second conveyor control box. Secure the cable out of the way of moving parts to avoid damage.

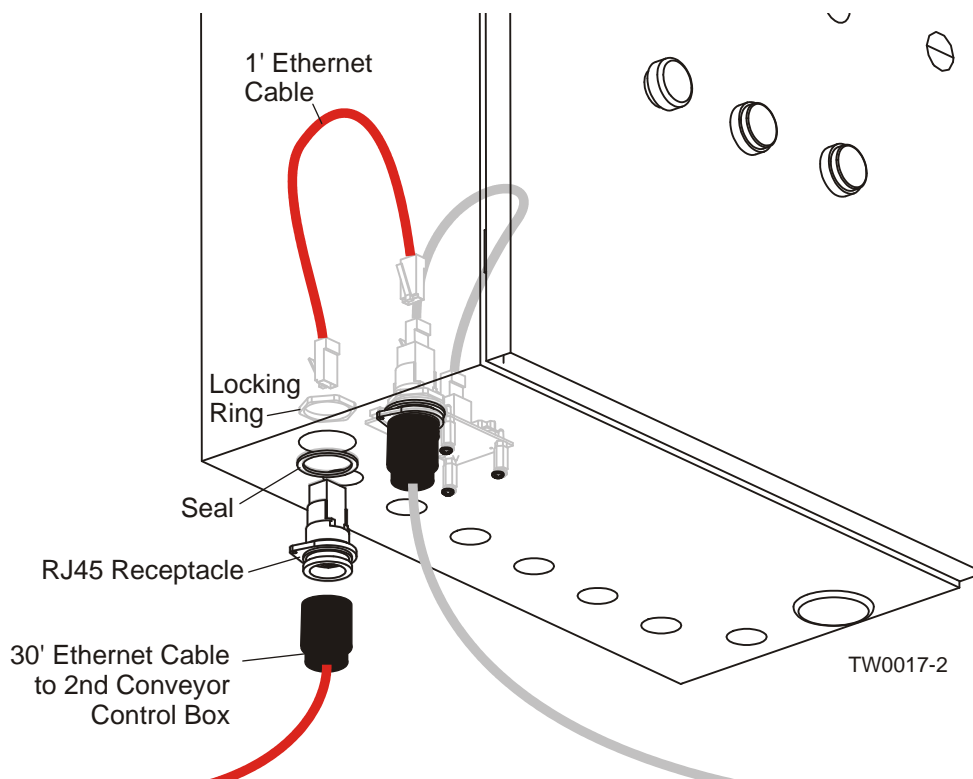


FIGURE 5

13. Open the second conveyor control box door. Disassemble the PLC connector(s) from the port holes in the bottom of the box. Disconnect the other end of the connector cable from the conveyor control PLC. Remove conduit covers as necessary and remove the cable from the box.

See Figure 6.

14. At the bottom of the conveyor control box, drill four $\frac{9}{64}$ " holes at the locations indicated. Mount the four provided stand-offs to the holes with the supplied #6 screws. Assemble a PCB support to each stand-off and carefully press the PCB labeled "Deck 2" onto the supports until it snaps in place.

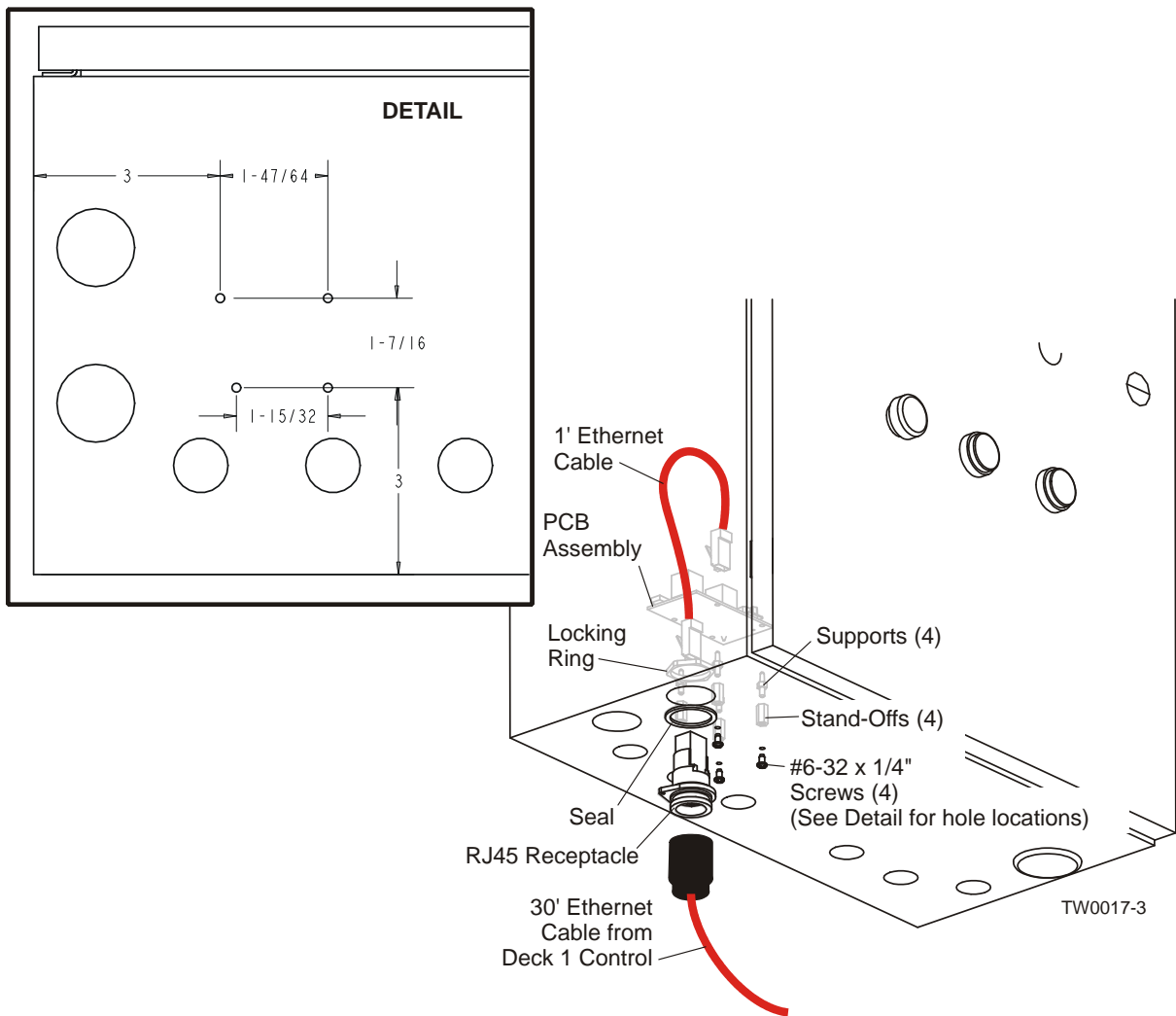


FIGURE 6

15. Install one of the provided RJ45 receptacles to the port hole in the bottom of the first conveyor control box. Orient the receptacle with the housing and seal outside of the box and secure with the threaded locking ring. Connect the receptacle to connector "J2" on the circuit board with the second 1' ethernet cable.

16. Connect the 30' ethernet cable from the first conveyor control to the receptacle. Push the connectors together and twist the outer housing to lock together.
17. Connect the female end of the provided 2 1/2' HD15 cable to the connector on the circuit board. Route the cable through the conduit and connect the male end to the PLC. **NOTE:** The jack screws originally supplied with the PLC will not accept the new cable. Replace the PLC jack screws with the two provided. Replace the conduit covers.
18. Replace conduit covers and close both control box doors. Restore power to the machine.

See Figure 7. Installation is now complete. DIP switch settings are provided below for your reference.

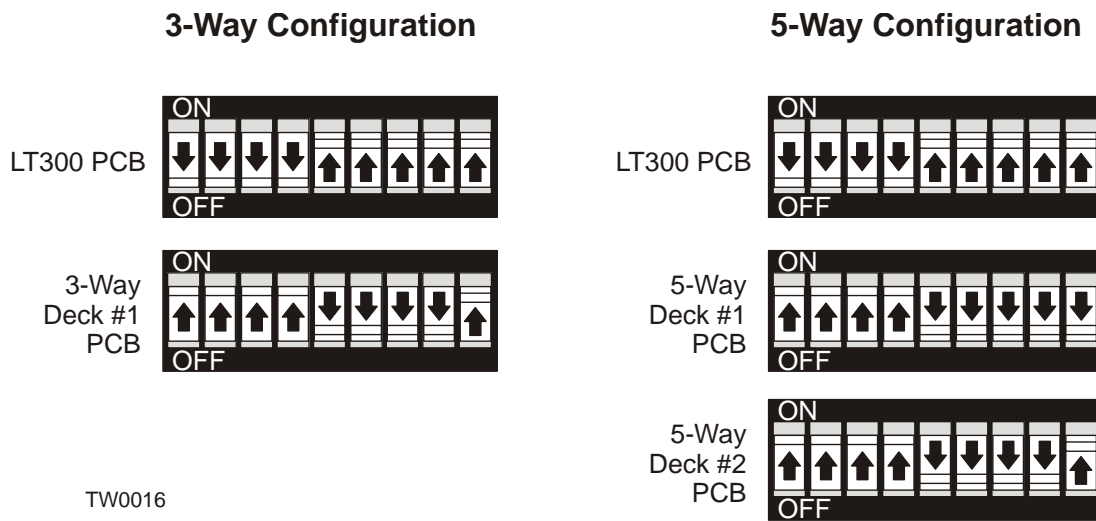


FIGURE 7