

ADS Conveyor Table Limit Switch

Kit #288-1044

The purpose of the table limit switch is to keep a conveyor dishmachine from operating continuously when racks reach the end of the clean table and then back up into the machine. This condition will increase chemical and energy usage. When tables are too short or the staff is not able to remove racks rapidly, the installation of the table limit switch is recommended.

Installation of the Table Limit Switch

- 1) Determine the approximate centerline of the dishrack as it travels down the **clean table**.
- 2) Place the template (supplied in kit) with the lower (two smallest holes) edge resting on the table surface, against the end roll, and centered along the dishrack's line of travel. Mark the four hole positions using a center punch. Then drill an 1/8" hole through each position, the two lower holes are then drilled to 3/8" and the upper two holes are drilled out to 1/2".
- 3) Table preparation: the table role must be a minimum of 1 1/2" dia. for clearance of the switch. If it is less, the roll will need to be relieved by grinding, cutting, or bending. The template will set the correct elevation as long as the lower edge is setting on the table surface. After the template is used to mark the hole positions, it can be discarded.
- 4) After the holes have been drilled, remove the switch **bumper** by taking the two clip **pins** out and sliding the bumper out of the hinged **activator** plate. Loosen the wing nut on the switch **mount** and slide the switch **shuttle** up and off the mount. From the outside, place the mount through the two (3/8") lower holes in the table and tighten the locking nuts on the two studs of the mount. Insert the bumper through the upper (1/2") holes and into the activator plate. Put on the clip pins to secure the bumper. If the bumper interferes with the holes on the table, loosen the locknuts on the studs and reposition the mount for clearance.
- 5) Take the switch shuttle and attach appropriate length of conduit between the control box and the table limit switch. Run two wires through the conduit and attach one to the **COMMON** terminal on the table limit switch, attach the other to the normally **OPEN** terminal. Then attach the other ends of the two wires to the 110v terminal (black wires) located in the lower left-hand corner of the control box. It is **IMPORTANT** to observe the positions of the attachment. The terminal block is divided into two separate parts, a north and south division. The terminal block is divided by the removal of a jumper tab located at the center. The door cut-off switch is attached by brown wires to one terminal on the north side and one terminal on the south side. Take the south brown wire off the terminal and connect to one of the wires coming from the table limit switch (does not matter which wire from the table limit switch you use because it is only a loop). Take the other wire from the table limit switch and connect it to the south terminal, from which you removed the brown door cut-off wire.
- 6) **In order to avoid delay of final rinse when the machine starts up after the table limit switch is released (by removing a rack from the table), disable the final rinse time-delay relay. The final rinse relay is located on the left-hand side of the control box. The switch is disabled by joining the blue and purple wires together.**

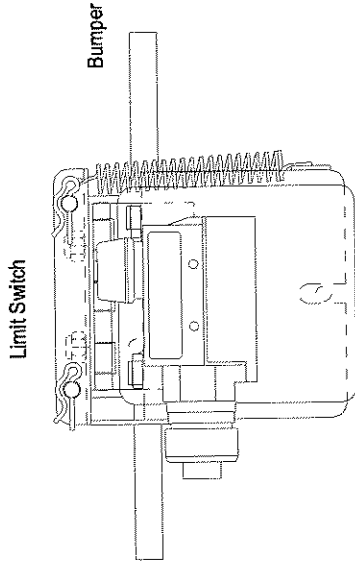
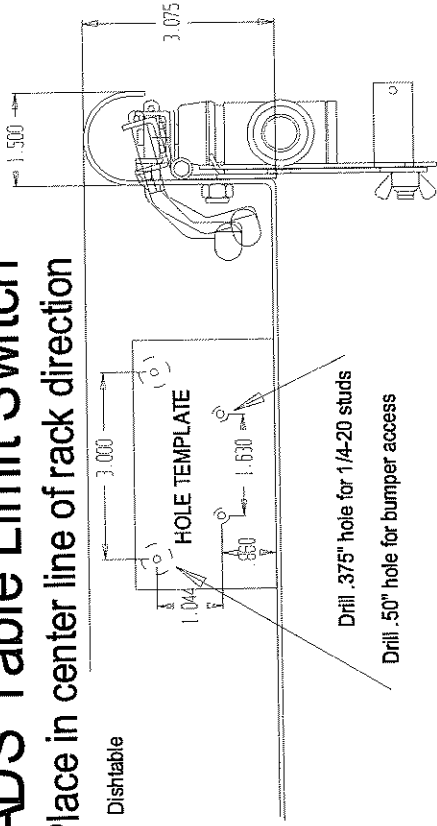
The use of the table limit switch can save useless waste of resources. It does have some concerns, which are mainly associated with installation. If the holes are binding on the bumper's return this can cause a service call. The bumper should be easy to depress and return to normal position. The table must have enough space for the switch and shuttle removal. The shuttle must be attached and secured in the mount. Insuring these items are done will reduce the needless service complaint.

8/22/00

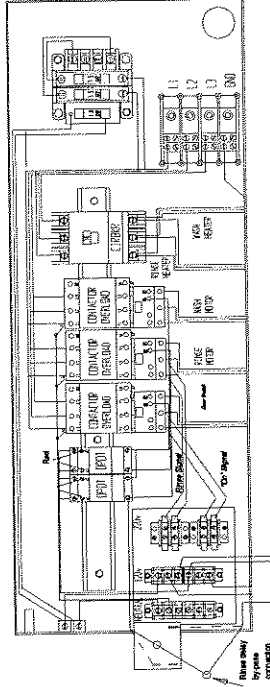
ADS Table Limit Switch

Place in center line of rack direction

Kit # 88-1044



ADC Control Box



P/N # 291-3015

brown wire

brown wire

NORMAL OPEN
COMMON

Connect to one of the
Door Cut-off wires as shown

Door Cut-off Switch
Normal-Open