826-2228 Tilt Switch Kit

This kit replaces the knife-blade style tilt switch used mainly in CE units to kill power to the elements when they are lifted. The new kit positions a switch on a bracket above the tilt assembly. A bracket-mounted magnet on the tilt assembly holds the switch closed when the elements are down. Lifting the elements moves the magnet and opens the switch, killing power. A simplified view of the bracket assembly is shown in figure 1. An attached bracket resting above the tilt assembly can be seen in figure 8. One switch is required for each full vat, two switches for each split vat.

In This Kit		
Part No.	**Description**	**Qty**
809-0256	#10 nut	4
809-0123	#10 machine screw	3
809-0250	#6 nut	2
809-0247	#8 nut	1
809-0103	#8 machine screw	1
810-3007	Magnet	1
106-6588	Sensor with bracket	1
230-1613	Bracket, magnet mount	1`
819-6209	Instructions	1

Follow the instructions below to install the new switches and their brackets.

Remove power from the unit and pull it from the hood to gain access to the back.

Remove the back and the tilt housing.

Remove the existing tilt switches and their mounting hardware.

Position the mounting bracket and the magnet on the tilt assembly. Facing the back of the fryer, the magnet and its brackets mount as shown in figure 2.

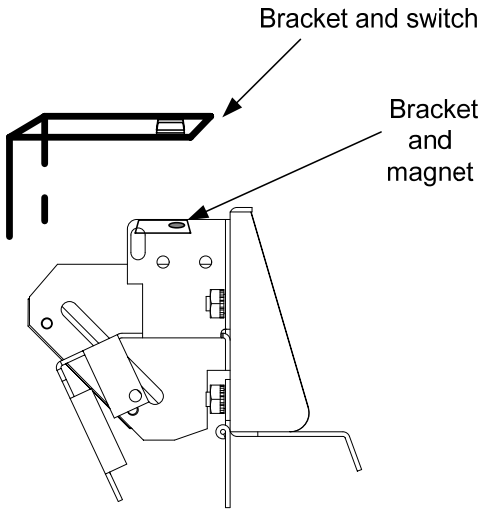

Figure 1: A cross-brace mounted bracket holds a switch and a tilt-plate mounted bracket holds the magnet in the new switch arrangement.

The magnet brackets and magnets mount on the left and right side of the tilt assembly with the magnet in the far outside corner. The magnet placement for the right side of a split vat (as viewed from the rear) is shown here.

Figure 2: The mounting of the magnet brackets is shown above for a split pot. Only one, on the outside edge, is needed on a full vat.

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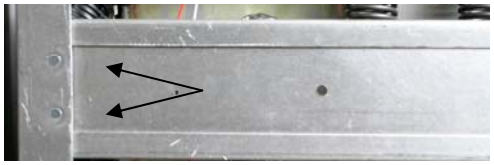
Position the switch and its bracket on the fryer cross brace, aligning the slots in the left side bracket with press studs present in the cabinet. See figures 3 and 4. Lower the bracket until the switch is ¼" (6.35mm) above the magnet (see figure 5) and mark the cross brace for mounting holes.

On a split-pot fryer and for interior fry pots on units bigger than two vats, position the right side switch bracket (as viewed from the rear of the fryer), over the flange at the end of the frypot-support rail. See figures 6 and 7. Use the existing holes as a guide and mark for additional mounting holes.

Use a #3 7/32" (5.5mm) drill bit to enlarge existing holes and to make the additional mounting holes. The larger holes are needed for the provided machine screws.

Mount the bracket on the inner side of the cross brace. Mounting on the outer side of the brace will interfere with the fryer back. The left side bracket uses the existing press studs and machine screws and the new holes for mounting; the interior brackets (if needed for splits or 3-vats or larger units) uses the existing holes in the frypot support rail flange and new holes in the cross brace for mounting.



Figures 3 & 4: The outside holes of the far left bracket are aligned with the press studs (see arrows above) and the right side of the left bracket is marked for drilling additional mounting holes (see below).

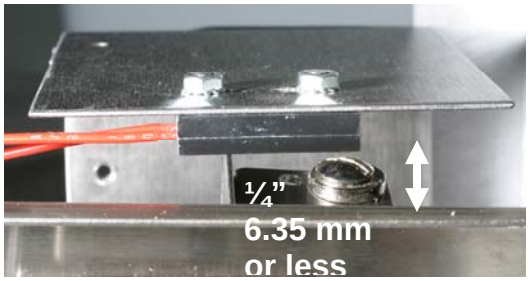
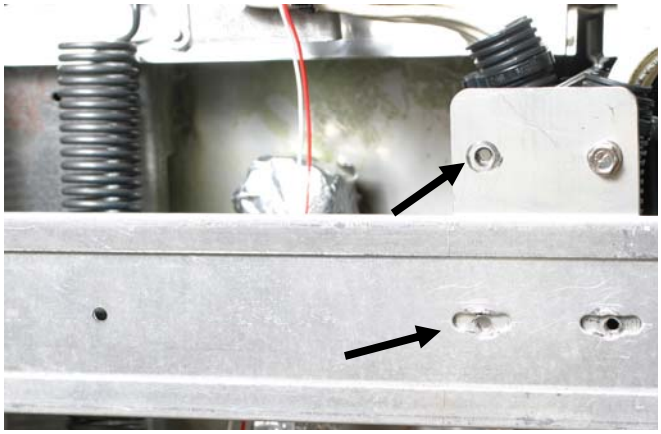
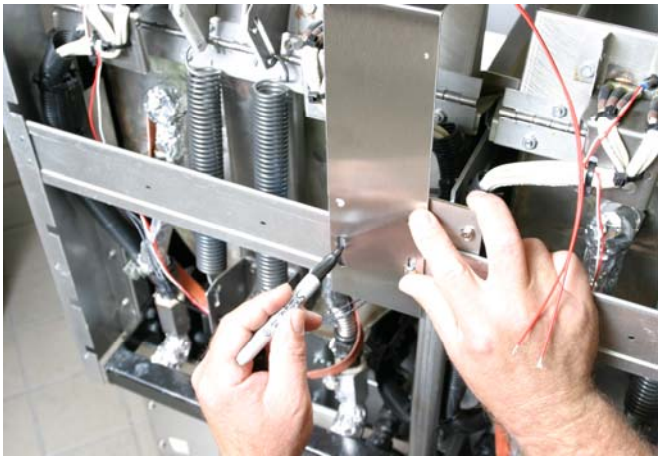


Figure 5: The switch should rest about 1/4" above the magnet.



Figures 6 & 7: On a split pot**,** the holes in the flange must be drilled out with a #3 (5.5mm) bit to accommodate the provided machine screws. The holes marked with arrows (above) will be used for the right side (as viewed from rear) of a split pot. Do not remove all the screws at once. The frypots could sag in the cabinet. Position the switch bracket (right) over the existing screw holes and mark the brace for additional mounting holes.



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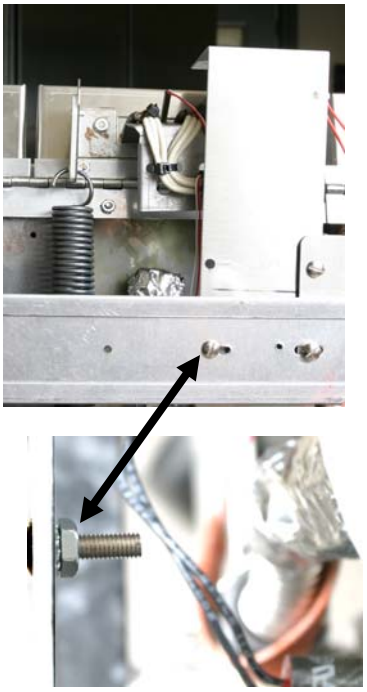
The uneven mounting surface between the inner switch bracket and the cross brace makes it necessary to put a nut to act as a spacer on the bottom left machine screw. See arrow in figures 8 and 9.

With the magnet brackets and the tilt switch brackets positioned, attach a meter to the switch leads to ensure the switch is closed when the elements are down and open when the elements are up. The gap between the switch and the magnet can be adjusted by gently bending the switch bracket. The tilt-plate mounted magnet must pass over either end of the switch. The circuit doesn't work if the magnet passes over the middle of the switch.

With the switches properly operating, wire them into the existing wiring harness and replace the back of the fryer.

Gently lower the tilt housing into place, angling the bottom of the housing forward to avoid contact between its protruding edges and the new brackets. See figure 10.

Return the fryer to its position under the hood and return to service.



Figures 8 & 9: Place a nut, which acts as a spacer, between the cross brace and the tilt bracket on the screw marked with an arrow.

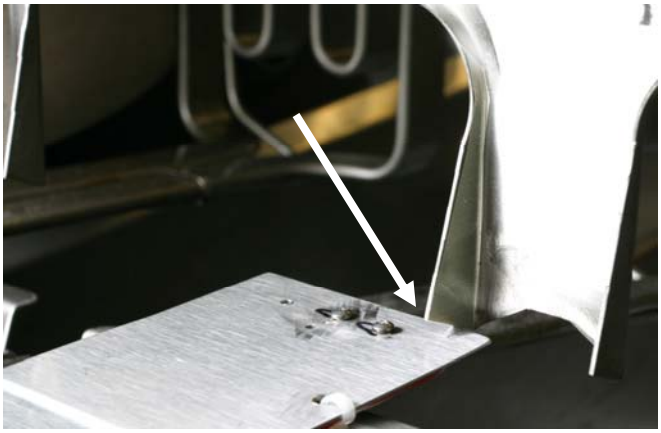


Figure 10: Ensure the rearward protruding edges of the tilt housing don't strike the switch bracket (arrow) when the tilt housing is lowered into place.