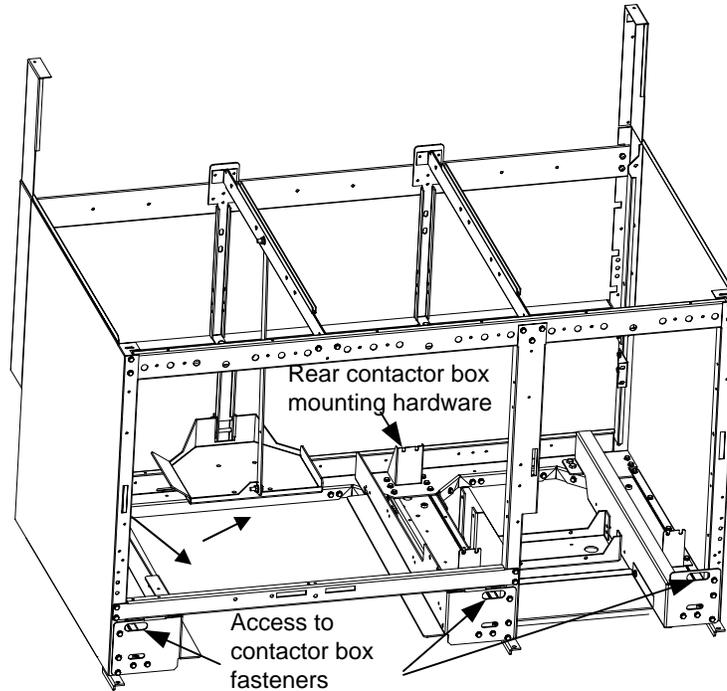


# Mercury Contactor Replacement Instructions

Replacing mercury contactors with mechanical in LOV fryers requires removing the contactor boxes. Due to the placement of other components in the fryer, each box comes out differently.

In all cases, three screws secure the top to the box and each box is held in position with two screws, front and back. These screws are accessible through ports in the cabinet channel on the front and reachable behind the oil-return manifold on the rear.



1. The left (as viewed from the front) contactor box can be rotated to a horizontal position and moved parallel to rear of the fryer for removal from the cabinet.

2. The middle contactor box can be lifted out the right door after the ATO box is removed.

The ATO box must be loosened to allow removal of the middle and right contactors boxes.

3. The right contactor box can be lifted out the right door after the ATO box is removed.

**Figure 1**

**NOTE:** In some instances it may be possible to replace the contactors in the left and middle boxes without removing the boxes.

Follow the instructions below to replace the mercury contactors with mechanical contactors, part number 807-2284.

## Left Box

1. Remove all power from the fryer.
2. Remove the filter pan and the filter pan lid.
3. Unplug the left (as viewed from the front) contactor box at the front and rear.
4. Remove the three screws holding the cover on the contactor box. On a full-vat fryer it may be possible to replace the mercury contactor without removing the box. If not, follow the steps below.
5. Loosen the screws holding the contactor box in place at the front and rear. See access ports in **Figure 1** above.
6. Ensure there is enough slack in the power cord to rotate the box away from the cabinet wall and parallel to the rear channel of the fryer. **See figures 2 and 3.** Once parallel to the rear channel, lower the box to the floor.

**CAUTION:** Mishandling contactor boxes can damage wiring connected to the AIF boards, which are mounted on the bottom of the frypots.

# Mercury Contactor Replacement Instructions

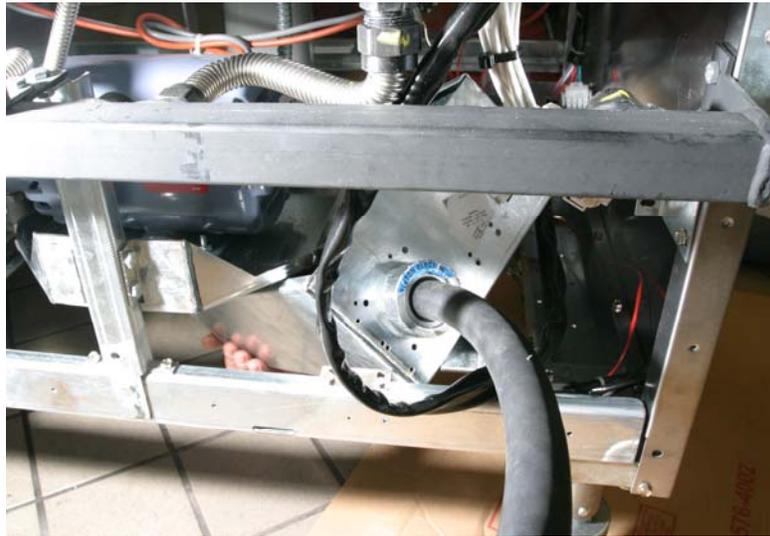
7. Replace the mercury heat contactor with a mechanical contactor. The mechanical contactor has a different footprint than the mercury. Two of the existing mounting studs can be used with two drill-point screws to mount the contactors in each box.
8. Reposition the left contactor box and replace the lid.

## Middle Box

9. Remove the cover from the ATO box and remove the box by loosening the screws in the bottom. See **figure 4**. Turn the ATO box toward the right contactor box. Be careful. Don't pinch the oil top-off lines.
10. Unplug the cords from the front and rear of the middle contactor box.
11. Remove the cover of the middle box and loosen the screws securing it to its mounting brackets. See **figure 1**.
12. Ensure there is sufficient slack in the power cord to allow the box to be rotated to the right and placed outside the right door. See **figure 5**.
13. Replace the mercury contactor with a mechanical contactor. Leave the box outside the cabinet.

## Right Box

14. Carefully position the ATO box in the space usually occupied by the middle contactor box, which frees room to access the right contactor box.
15. Remove the power plugs from the front and rear of the right contactor box.
16. Remove the screws securing its cover.
17. Remove the ground wire and power leads coming from the conduit at the front of the box.
18. Remove the strain relief holding the control power line conduit to the box.



**Figure 2:** Viewed from the rear of the fryer, the left contactor box is shown rotated to clear the motor mounting plate. The box, when parallel with the rear channel, can be lowered to the floor.



**Figure 3:** As the right contactor is rotated parallel to the rear channel, it can be dropped to the floor.



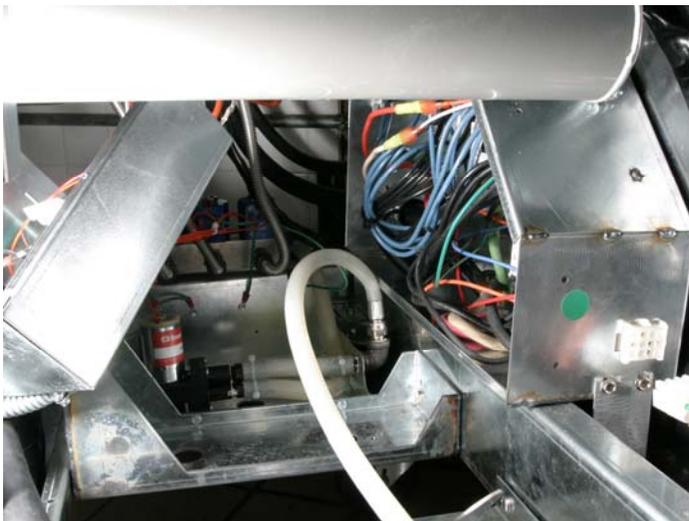
**Figure 4:** The ATO box, accessible in the right cabinet, must be removed to allow removal of the middle and right contactor boxes.

# Mercury Contactor Replacement Instructions

19. Loosen the screws securing the right contactor box, front and rear.
20. Rotate the box carefully over the top-off oil lines and place it outside the fryer cabinet. **See figures 6 and 7.**
21. Replace the mercury contactor with a mechanical contactor.
22. Reposition the right contactor box and secure it in its brackets, front and rear.
23. Reattach the conduit from the control box and reattach the ground wire and the power leads.
24. Reinstall the contactor box top.
25. Place the ATO box parallel to the right contactor box, again being careful not to pinch the top-off lines.
26. Reposition the middle contactor box, securing it in its brackets front and rear.
27. Reposition the ATO box and replace its cover.
28. Return all power harnesses to the contactor boxes.
29. Test the fryer during installation.



**Figure 5:** With the ATO box placed against the right contactor box, the middle contactor box can be removed through the right door.



**Figure 6:** The right contactor box can be seen hard against the plumbing for the top-off system. Rotate the right contactor box carefully to avoid pinching the top-off hose. In this view, the ATO box is placed in the position usually occupied by the middle contactor box, creating space to maneuver the right box out.