

UNIVERSAL HEATING ELEMENT INSTALLATION INSTRUCTIONS

This kit contains a “universal” element assembly designed to be used in either the newer style “common electric” fryer or earlier designs of electric fryers. The element has six numbered leads, and each lead is terminated with a male pin.

Also included in the kit are a 6-pin connector and a wiring harness. These components are used to lengthen the leads when the element is being installed in earlier style fryers in which the leads are connected directly to the contactors. If the element is being installed in a newer “common electric” fryer, the wiring harness and connector are not used.

Installation in “Common Electric” Fryers

1. Drain cooking oil/shortening into a suitable container and disconnect the fryer from electrical power. Move the fryer as necessary to expose the rear of the fryer and gain access to the contactor box(es).
2. Remove the screws from the top and center back covers. Set the covers and screws aside.
3. Remove the screws securing the tilt housing cover. Set the tilt housing aside.
4. Disconnect the wire harnesses containing the element and probe wiring. The element wire harness is connected to the rear of the contactor box. It may be necessary to remove the wire ties.
5. Use a pin pusher to remove the probe wires from the connector. Mark each probe wire for re-assembly.
6. Open the 6- or 9-pin connector of the old element by pressing the tabs on both sides while carefully pulling the halves of the connector apart until fully open (about 1/8th inch). **NOTE:** The connector does not come completely apart! (See illustration on Page 3.) Remove the old element wires from the connector. **CAUTION:** *When replacing more than one element, Frymaster recommends removing and replacing the elements one at a time to prevent accidental crossing of the element leads.*
7. Remove the screws securing the temperature probe bracket from the element. Remove the probe clamp. Set the temperature probe and probe-securing components aside.
8. Disconnect the element spring.
9. Remove the element mounting screws and pull the element out of the frypot.
10. If present, remove the lift handle from the old element and install it on the new one.

11. Install the temperature probe and probe-securing components onto the replacement element.
12. Install the replacement element in the frypot and secure with the mounting screws removed in step 9.
13. Route the element leads to the rear of the fryer.
14. When replacing the **right element** (as viewed from the rear of the fryer), insert the numbered leads of the replacement element into the correspondingly numbered holes on the face of the **6-pin connector**. When all leads have been fully inserted, close the connector by sliding the halves together until the tabs snap back into place. This will lock the pins securely into the connector.
15. When replacing the **left element** (as viewed from the rear of the fryer), use the **9-pin connector**, inserting the leads from the replacement element and closing the connector as in step 14 above.
16. Insert the connector(s) into the receptacle(s) on the rear of the contactor box, ensuring that the latches lock the connector(s) in place.
17. Install the temperature probe wires in the pin locations marked in step 5 above.
18. Reconnect the element spring.
19. Place the tilt housing cover over the tilt housing assembly and secure with screws.
20. Install the top and center back covers and secure with screws.

Installation in Non-Common Electric Fryers

1. Drain cooking oil/shortening into a suitable container and disconnect the fryer from electrical power. Move the fryer as necessary to expose the rear of the fryer and gain access to the contactor box(es).
2. Disconnect and remove the failed element in accordance with instructions contained in the fryer's Service Manual. **CAUTION:** *When replacing more than one element, Frymaster recommends removing and replacing the elements one at a time to prevent accidental crossing of the element leads*
3. Open the 6-pin connector by pressing the tabs on both sides while carefully pulling the halves of the connector apart until fully open (about 1/8th inch). **CAUTION:** The connector does not come completely apart! (See illustration on Page 3.)

4. Insert the numbered element leads into the correspondingly numbered holes on the rear of the connector. When all leads have been fully inserted, close the connector by sliding the halves together until the tabs snap back into place. This will lock the pins securely into the connector.
5. Insert the element lead 6-pin connector into the 6-pin connector of the wiring harness, ensuring that the latches lock the connectors together.
6. Connect the wiring harness leads to the terminals of the contactors in accordance with the wiring diagram found on the door of the fryer or in the Service Manual.

