

SERVICE INSTRUCTIONS

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KEATING
OF CHICAGO, INC. ®

1-800-KEATING

REPLACEMENT OF THERMOSTAT ON GAS FRYERS

BEFORE REPLACING, TEST THERMOSTATS:

These operational problems can easily be corrected by thermostat bulb positioning.

Keating's patented thermostat application is accurate within 2°F of the dial setting between 250°F – 350°F. This accuracy is attained only if the thermostat bulb is placed properly against the heat transfer tube. To quickly and accurately test for proper bulb placement, a single thickness of writing paper should be pulled through between the tube and the bulb with medium resistance.*

1. *For gas fryers 14":

- The end of thermostat bulb should touch the burner tube.

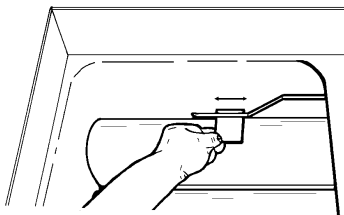
2. For gas fryers 10x11, 18 & up:

- If the bulb is too loose, the paper will slip through with little or no resistance. A fryer with a thermostat bulb that is too loose will overshoot.

Overshoot: The thermostat takes a long time to cycle and then misses its preset temperature by 20°F - 40°F yielding a poor quality product.

- If the bulb is too tight, the paper will either not pull through or it will tear. A fryer with a thermostat bulb that is too tight will short cycle.

Short Cycle: The thermostat will cycle rapidly while the fryer is in the idle mode; the temperature will be erratic.



Thermostat Bulb Positioning 10x11, 18 & up Fryer Gas

REQUIRED TEST EQUIPMENT:

Multimeter (for testing continuity)

CHECKING CONTINUITY WITH THE MULTIMETER

1. Rotate the thermostat shaft until an audible click is heard.
2. Rotate the thermostat shaft left and right ten times causing the switch to click on and off ten times,

while using the Multimeter to verify continuity.

3. If the switch does not show continuity during all ten trials, replace the thermostat.



WARNING: Disassembling the thermostat will void the thermostat warranty.

1. Set compression ring onto capillary end of bulb finger tight, 1/2" from end of capillary.
2. Insert new thermostat bulb through control panel back.
3. Apply oil resistant flexible sealant onto compression fitting thread before installing fitting into fryer vessel.
4. Position bent portion of bulb against far right heat transfer tube and install compression fitting snugly into fryer vessel.
5. Adjust bulb so at least 2" of bent portion of it is next to heat transfer tube and tighten compression nut onto compression fitting for fryer 10x11, 18 & up. The end of thermostat bulb should touch the burner tube for 14" fryers.
6. Replace heat deflector.
7. Replace control panel back.
8. Slide back fabric shield over capillary and carefully coil capillary. Avoid crimping.
9. Reconnect wires to thermostat body.
10. Replace two screws which hold thermostat body to control panel.
11. Replace control panel.
12. Replace three retaining screws and washers which hold dial plate in place.
13. Replace thermostat knob.
14. Connect electric power source. Turn on gas and pilots.
15. Boil out fryer.
16. Refill fryer with oil to "fill level line".
17. Start fryer, preheat and calibrate with thermometer.