



KitchenAid electric oven thermal fuse Replacement

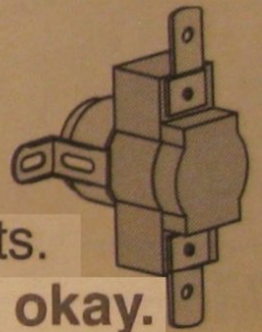
A fool's guide to replace a tripped thermal fuse in a one or two thousand dollar oven, at a cost which resembles one take-out pizza.

Written By: unsubstantiated

OVEN SHUTDOWN THERMAL FUSE

The oven shutdown thermal fuse is located at the back of the oven. It will shut down the elements if the temperature at the back at the back of the oven exceeds component limits.

Verify that the oven shutdown thermal fuse is okay.



INTRODUCTION

Tell you straight: KitchenAid 'Self-Cleaning' electric oven lines of 2000 through 2013 have a design defect. They are under-insulated, not built to survive Self-Cleaning cycles: Self-Cleaning trips the thermal fuse.

People use many names for this type of part: thermal fuse, thermal overload device (TOD), thermal cutoff (TCO) or cut-off; thermal link; THERMAL CUT OUT, Cut-Out, cut out fuse, or even "thermal cut out safety fuse".

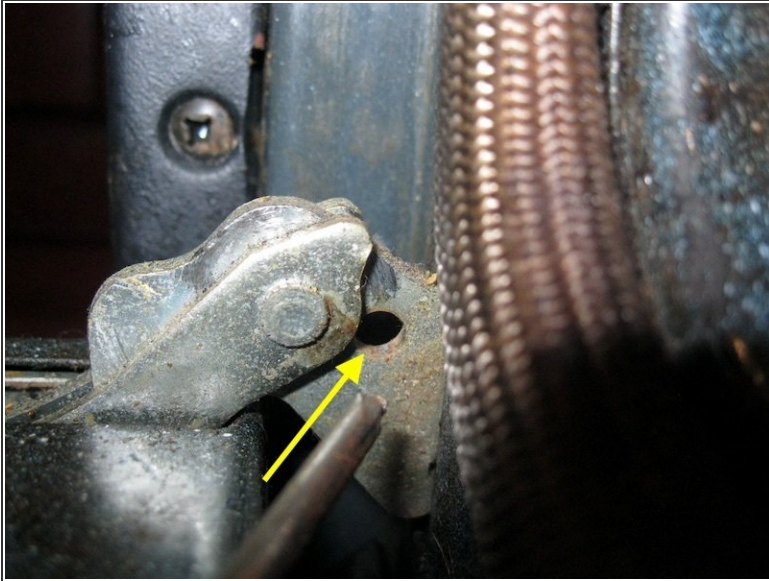
When an oven stops heating, one profiteering repairperson might want to point at an expensive computer control board. Don't you fall for that! If your oven suddenly stopped heating (all two/three/four heating elements are room temperature), while its controls and lights seem in working order; then its protective thermal fuse is the part to check.



TOOLS:

- [cruciform turnscrew](#) (1)
such as PHILLIPS #2
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Step 1 — remove oven doors



- Consult documentation (Use & Care Guide, Installation Instructions) for proper instruction. Follow this step only if you lack official documentation.
- Insert door removal pins into each door hinge. If you lack paper documentation, then probably you lack door removal pins, so you can use nails.
- Nails can scratch porcelain finish.
- Close door, hinges will jam, continue closing until hinges tilt upward. Lift and remove door.

Step 2 — remove side trim



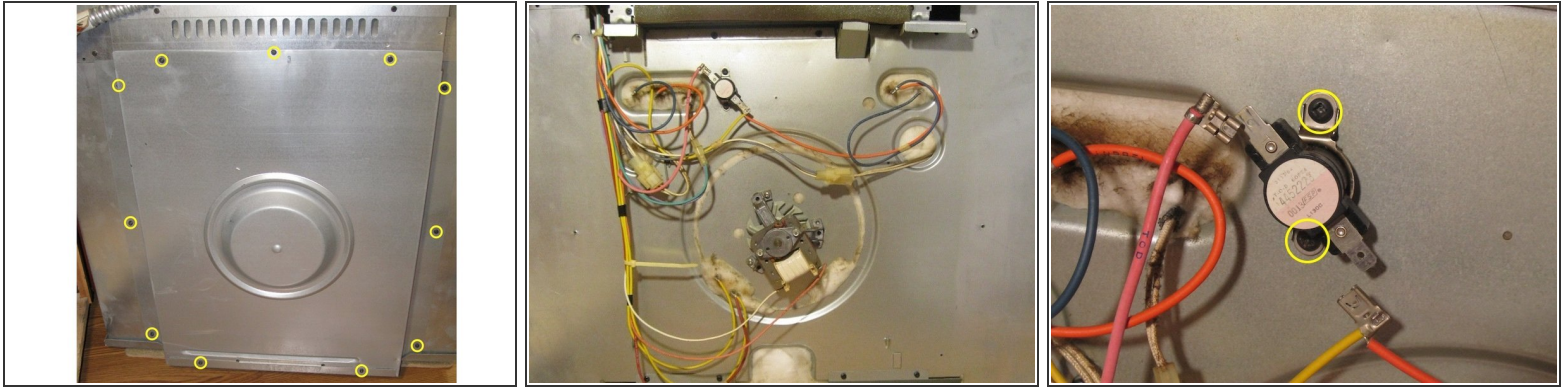
- Consult documentation (Installation Instructions) for proper instruction. Follow this step only if you lack official documentation.
- Each side trim is fastened with one screw. Remove screws, pull bottom end of trim away from oven, slide trim downward, pull it off.
- optional: Remove bottom trim, two screws, pull it off.

Step 3 — remove oven



- Consult documentation (Installation Instructions) for proper instruction. Follow this step only if you lack official documentation.
 - Each oven is secured to wall by two screws, one through each side mounting flange. Remove.
 - Set aside racks and pans and other weight.
 - Find something to use as a stand/pedestal/base for your oven. Use original shipping base and shipping feet if you have them. If you lack original documentation, then probably you lack shipping material, so you can use dimensional lumber or a shelf plank.
 - Pull out oven, set it on a temporary stand, orient it so you have full access to its rear.

Step 4 — remove fuse



- Rear cover is fastened on with eleven screws through sheet metal, cruciform drive recess. PHILLIPS #2 seems to fit. High torque is not involved, so fit is not important. Remove screws, rear cover.
- Thermal fuse / thermal overload device (TOD) is located outside of insulation envelope, fastened on with two screws (cruciform drive recess (PHILLIPS #2 seems to fit), moderate torque).
- Disconnect fuse/TOD. when replacing: Orientation does not matter, as it carries mains AC.

To reassemble your device, follow these instructions in reverse order.