



# Princess Digital Aerofryer XXL Thermal Fuse Replacement

This guide shows how to replace a thermal fuse on the Princess Digital Aerofryer XXL 182030 Airfryer

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## INTRODUCTION

It took a fair bit of detective work to figure out how to open and a lot of force to actually open. Once open it is just screws, no snap fingers.

Disclaimer: This guide was made during a Repair Cafe, so the pictures are not great.

### TOOLS:

- [Phillips #2 Screwdriver](#) (1)
- [Metal Spudger](#) (1)
- [iFixit Opening Tools](#) (1)
- [Cutting Plier](#) (1)
- [Large Needle Nose Pliers](#) (1)

### PARTS:

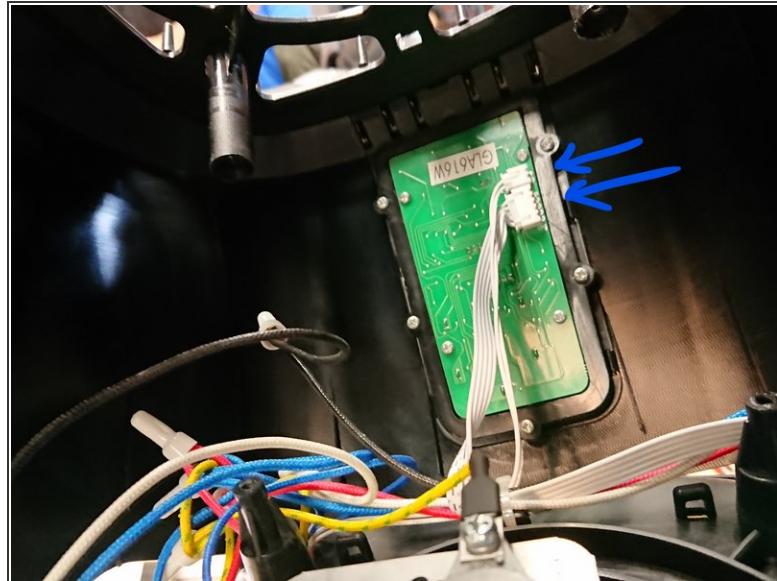
- [Thermal fuse 10A 250V ±240°C](#) (1)

## Step 1 — Getting in



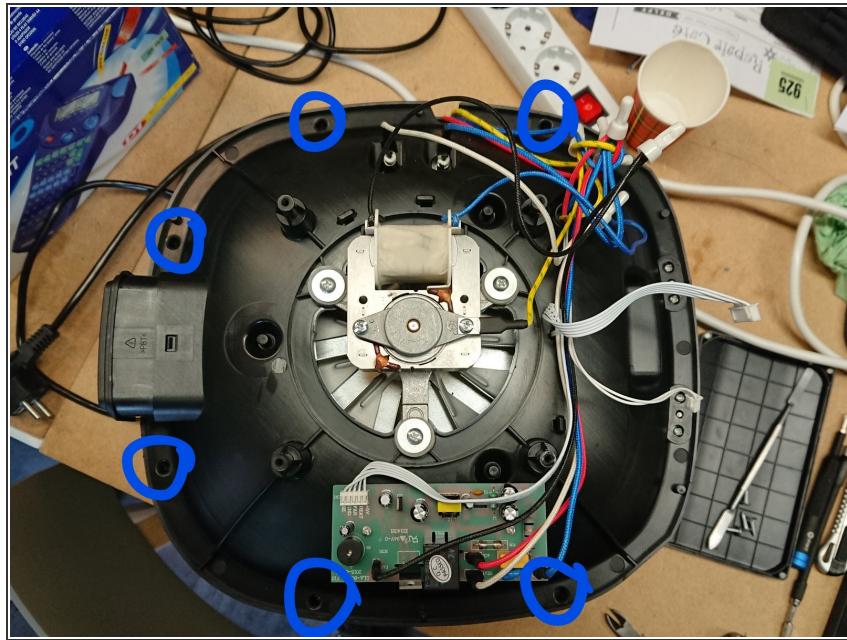
- *Don't forget to unplug it!*
- Remove the drawer and any remaining fries.
- On the top side of the product there is a panel held in place by 6 very snappy snap fingers. I am not kidding, these are strong!
- When you work on one corner the others can snap back in place. To prevent this insert an opening tool or other objects in the gaps you created after lifting a corner.
- *My metal spudger was actually bending under the force, this is normal.*

## Step 2 — Removing the top



- Remove 4 screws on top.
- Then just lift the top half of the casing. This doesn't take much force, as there are no more snap fingers.
- *Be careful, there are still 2 connectors attached!*
- Remove these two connectors

## Step 3 — Unscrew the next layer



- Unscrew these 6 screws on the edge of the product.

## Step 4 — More screws



- After unscrewing the middle layer of the product, turn it upside down on top of the bottom part of the product.
- Be careful, there are still some cables connected to the bottom part.*
- Unscrew some more screws (10x).

## Step 5 — Righty Loosy



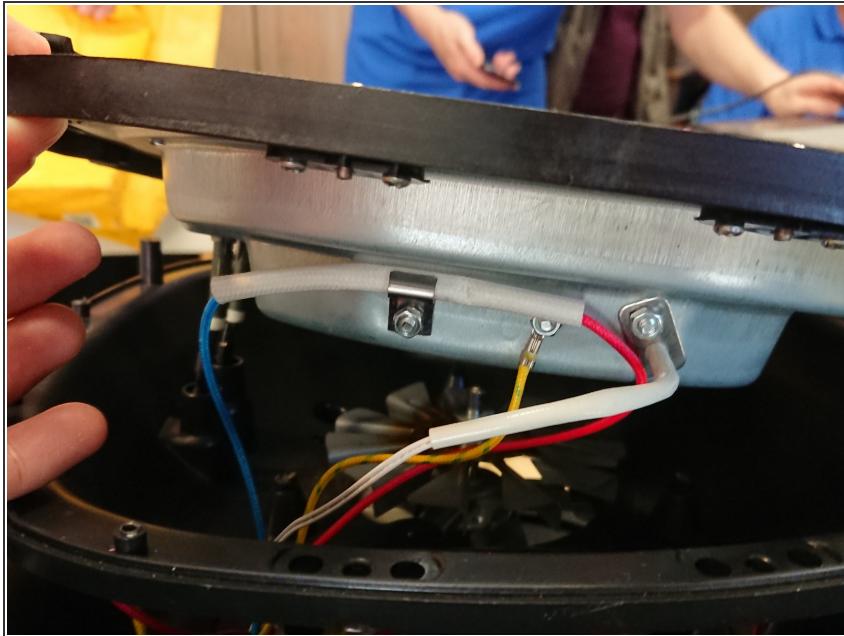
- With one hand hold down the fan blade to stop it from turning.
- With the other unscrew the nut that keeps the fan blade in. You can use pliers or an #10 hex driver to do this
- TURN CLOCKWISE to unscrew*

## Step 6 — Almost there



- Unscrew three more screws. These are located underneath the heater coil

## Step 7 — Open the middle part



- Now you can open the middle part of the housing, this requires little to no force.

## Step 8 — Freeing the fuse



- Unscrew the screw keeping the thermal fuse in.

## Step 9 — Is it broken?



- A thermal fuse should work like a piece of copper wire (electronically speaking) when not broken. It will have a very very small resistance between 0 and 1 OHM.
- A broken fuse will give an open loop (O.L. on most multimeters).

## Step 10 — Replacing the fuse



- *Do NOT solder the fuse!*
- I used the clips attached to a donor fuse to reattach to the cables. I did this by bending the clips out using cutting pliers and then bending them back using regular pliers.

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