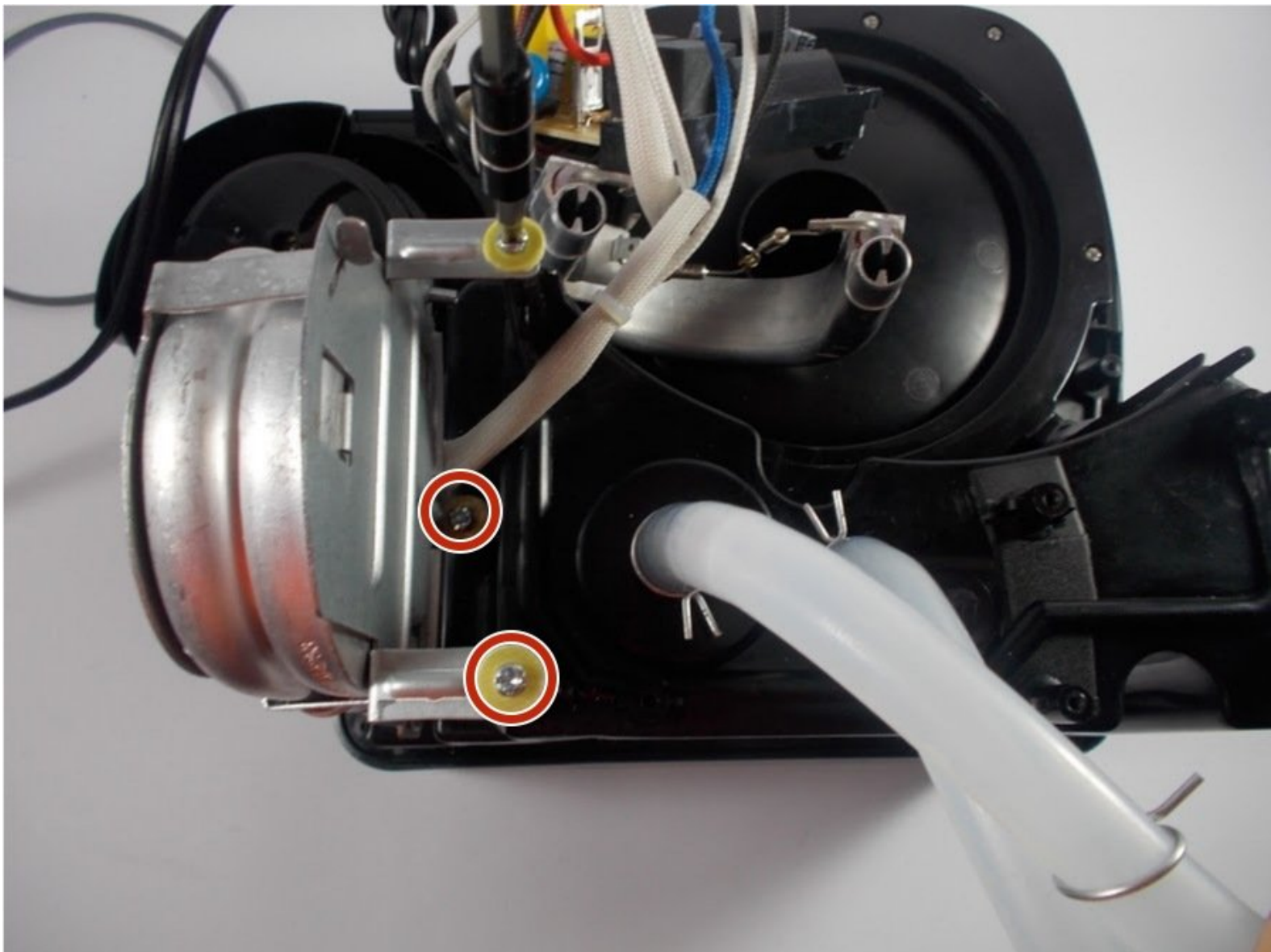# Hamilton Beach 49980A Small Heating Component Replacement

This guide will show you how to replace the small heating component used to brew an individual thermos of coffee.
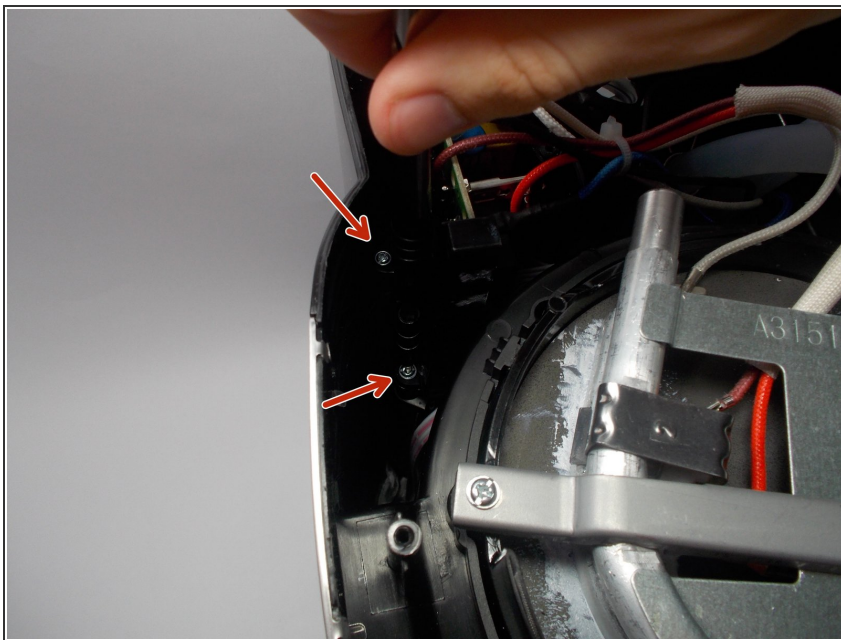
Written By: Paul Shipley

🔧 TOOLS:

- [Tri-point Y0 Screwdriver](#) (1)
- [Phillips #1 Screwdriver](#) (1)
- [Soldering Iron](#) (1)
- [Spudger](#) (1)

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Step 1 — Bottom Plate

- Begin by inverting the coffee maker and resting it on a flat surface to make working on the bottom easier.

- Now use a Y0 bit to remove all of the .46 inch long screws from the bottom.

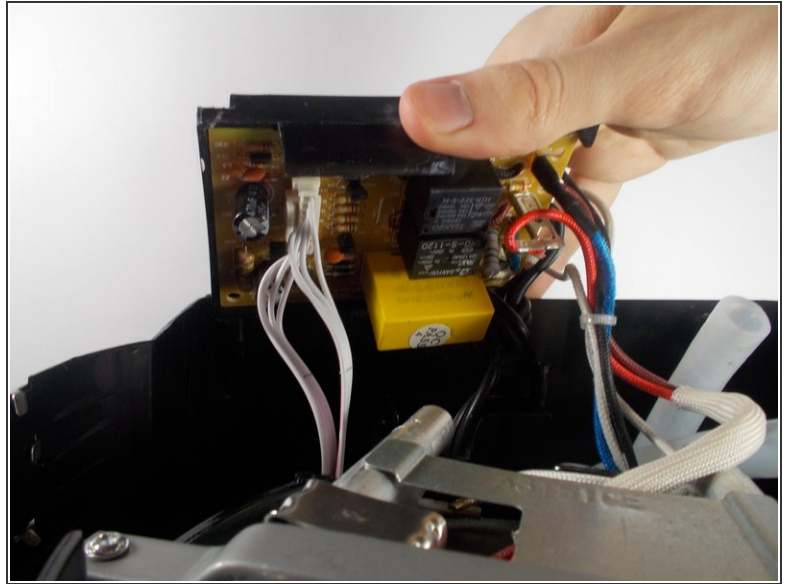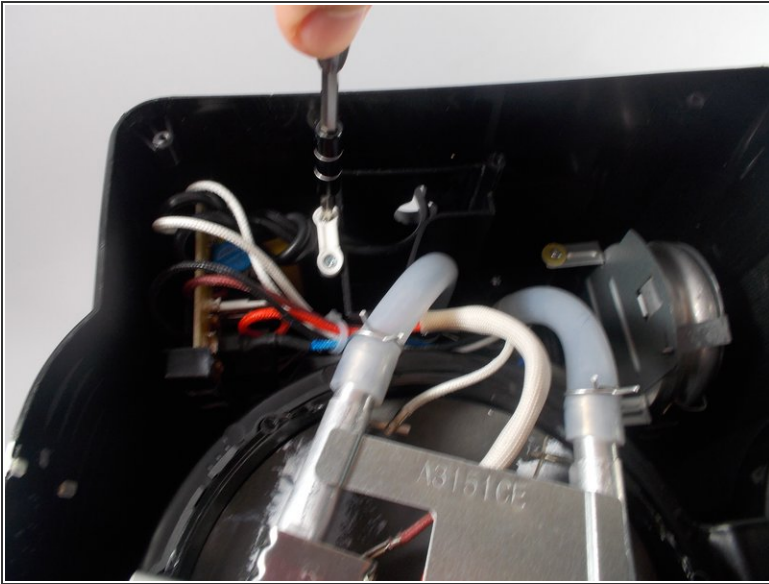- Lift the plate to remove it from the rest of the machine.

Step 2 — Motherboard

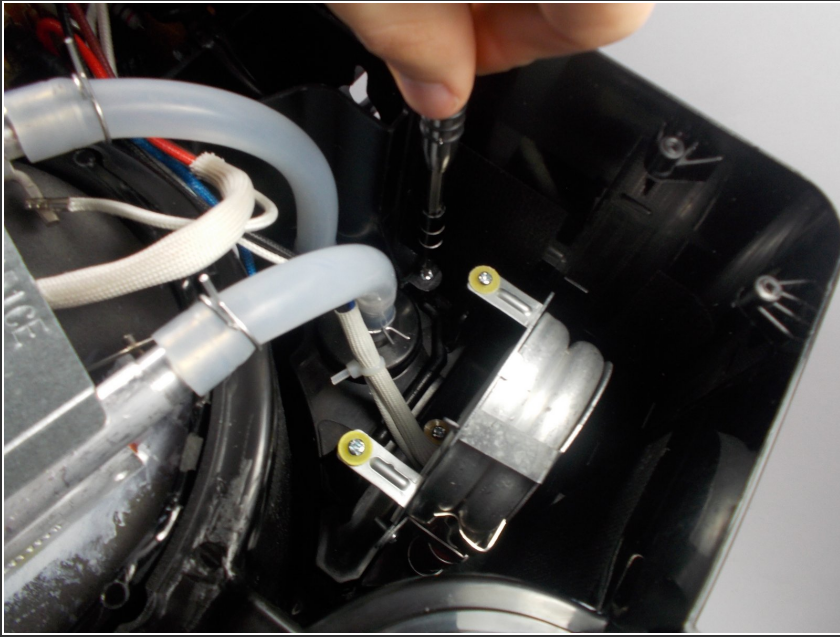- Once the bottom plate is removed, use a PH1 bit to remove the .525 inch long screws holding the

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motherboard bracket in the main
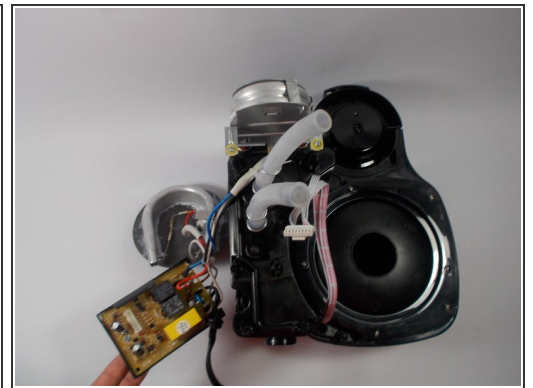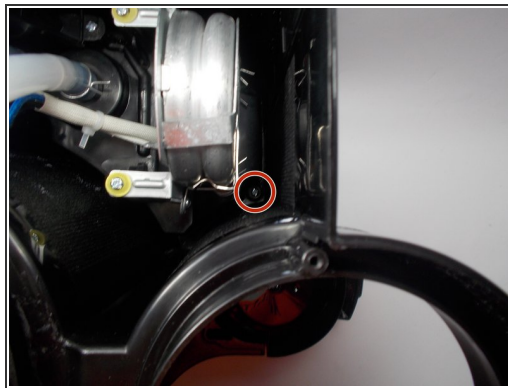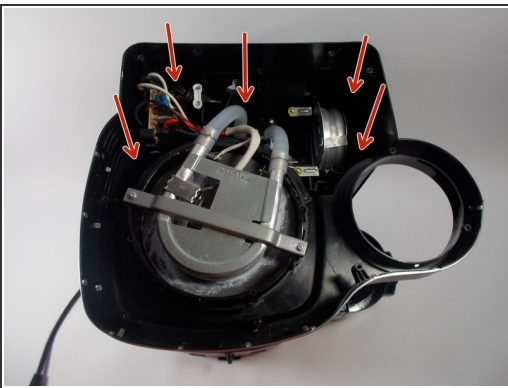housing.

Step 3

- Using a PH1 bit, remove the two .425 inch long screws holding down the white power cord bracket. This will give you the slack in the wire that you need to work on the motherboard.

- Carefully remove the large white connector that has multiple wires attached to it. This is the wire connected to the button functions on the interface of the coffee maker.
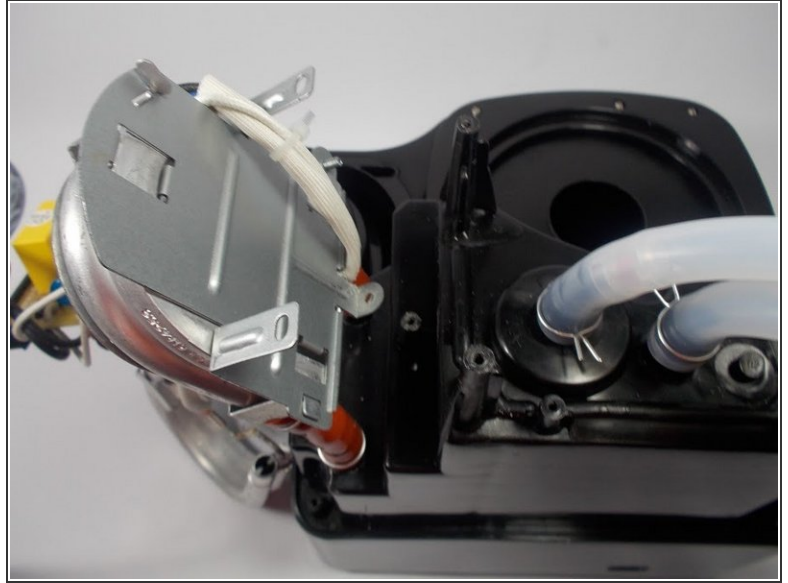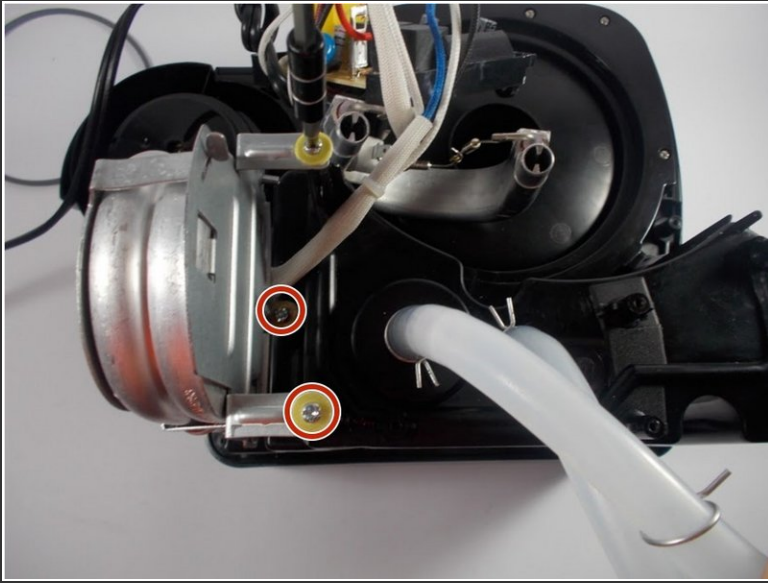
Step 4 — Main Housing

- After removing the motherboard. Proceed to remove the inner housing which holds the excess power cord. This can be removed by using the PH1 bit to remove the .525 inch long screws that hold the housing in the main housing.

- (i) This step is crucial because if this inner housing is left attached, the power cord will bind between the two pieces that slide past each other during removal of the main housing.
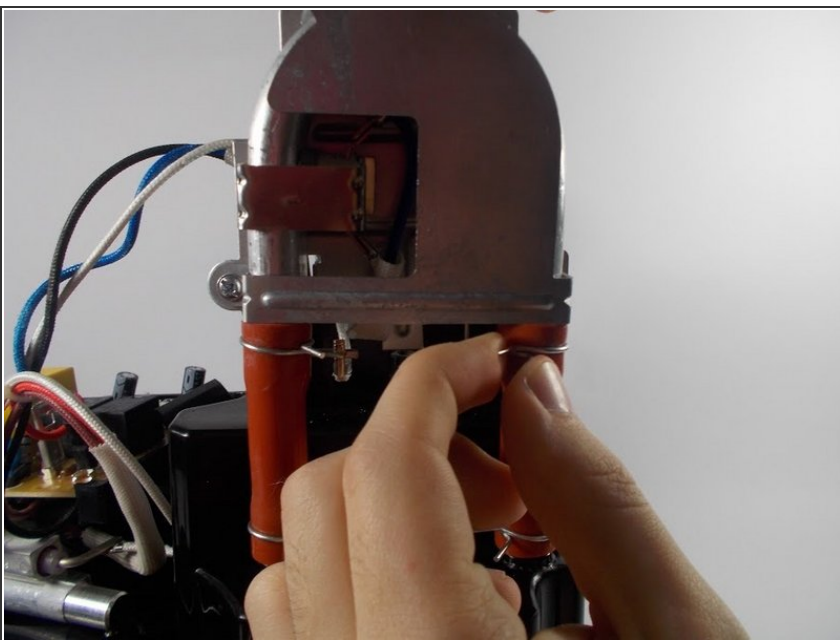
Step 5

- Use a long screwdriver with the PH1 bit to access the screws holding the main housing to the top of the machine.

- Pull main housing up and be sure to run all of the inner parts through the cavity at the bottom. This may take a few tries since components can easily get caught on each other

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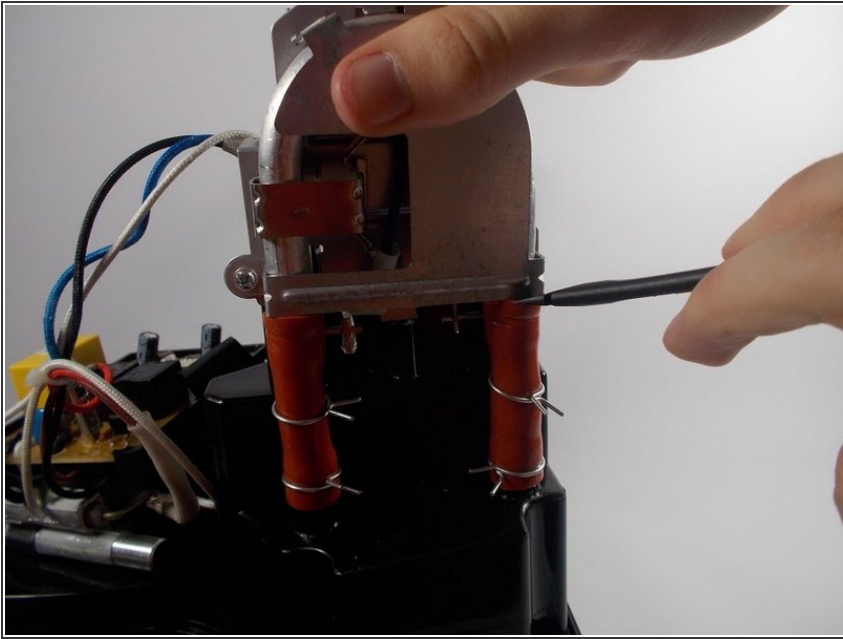
Step 6 — Small Heating Component

- After separating the main housing of the Hamilton Beach 49980A, locate the small heating unit which will be standing vertically on two tubes.

- Using a PH1 bit, remove the three .77 inch long screws with the washers to free the component from the machine.
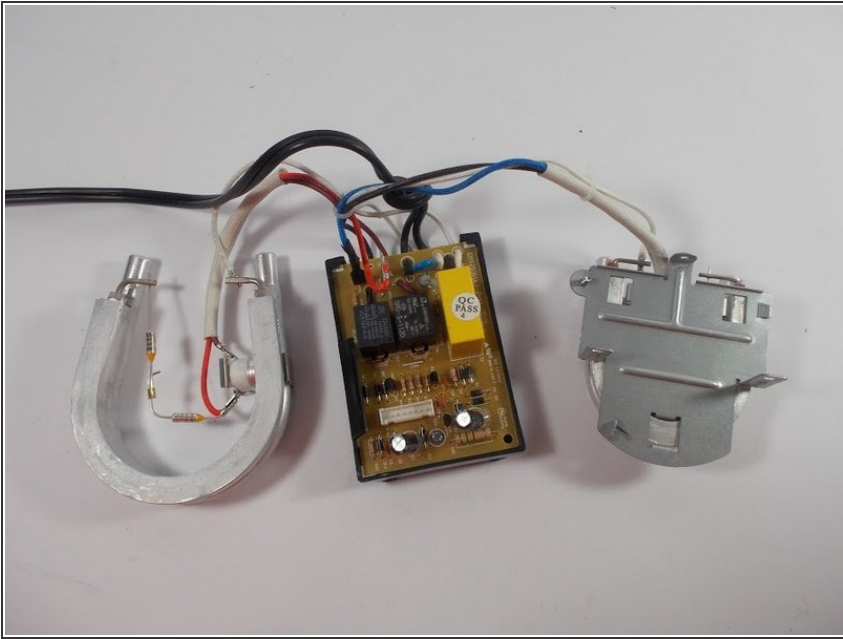
Step 7

- Locate the top two spring clamps on the tube attached to the small heating unit. Pinch these clips while pulling down to release the tube from the heating unit. Pliers will make this task easier.

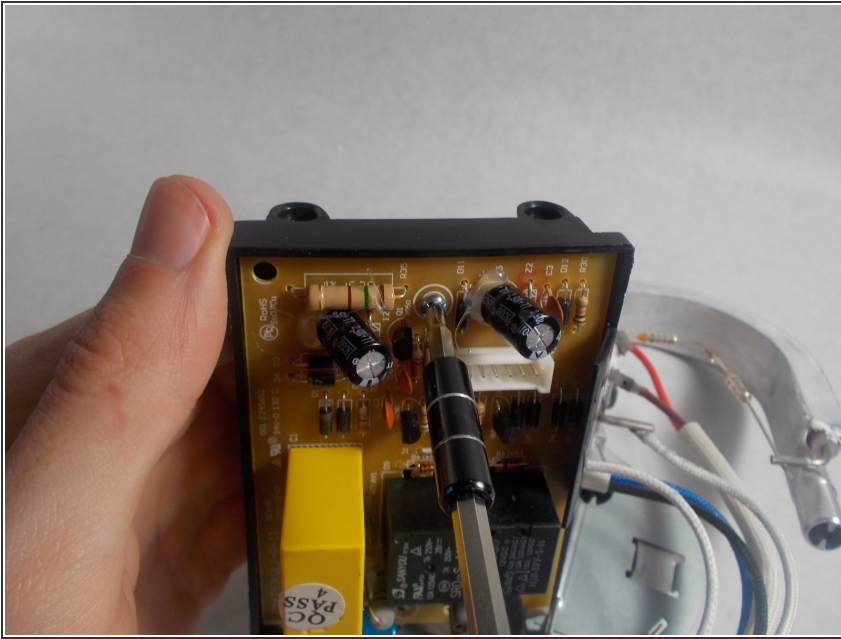This document was generated on 2020-11-28 05:09:28 AM (MST).

Step 8

- After pushing the clips down, pull the tube from the heating unit. This may be difficult, so use a spudger to pry the tube off as you pull the unit up.
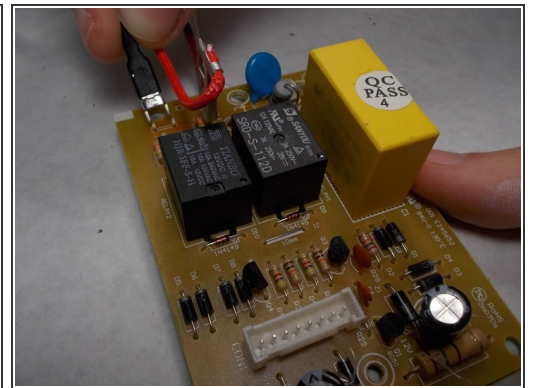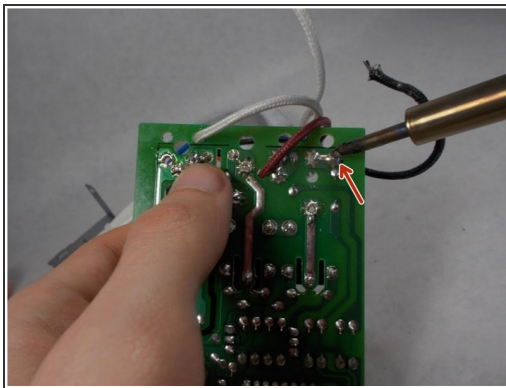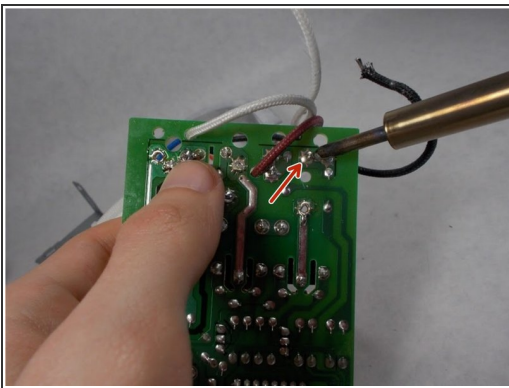
Step 9

- After removing the heating unit from the tube, the heating unit should come free. It will still be attached to the motherboard by three wires. They will be black, blue, and white.

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Step 10

- In order to remove the small housing that covers the motherboard, remove the lone screw with a PH1 bit. After this the plastic cover should easily snap off.
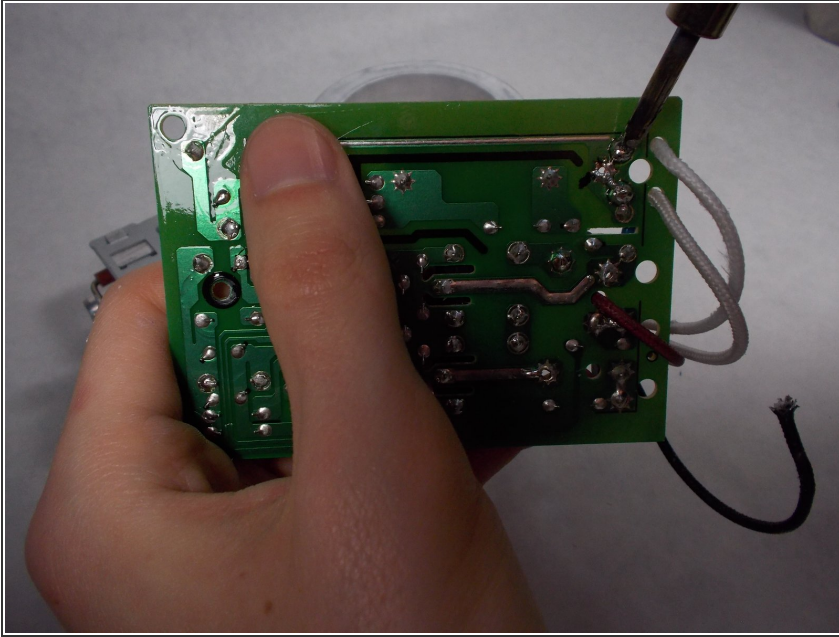
Step 11

- First, remove the blue wire from the motherboard. This wire will have a black connector on the end connecting to the motherboard. It is found here. Heat up the solder on the bottom of the circuit board and remove the wire from its connection.
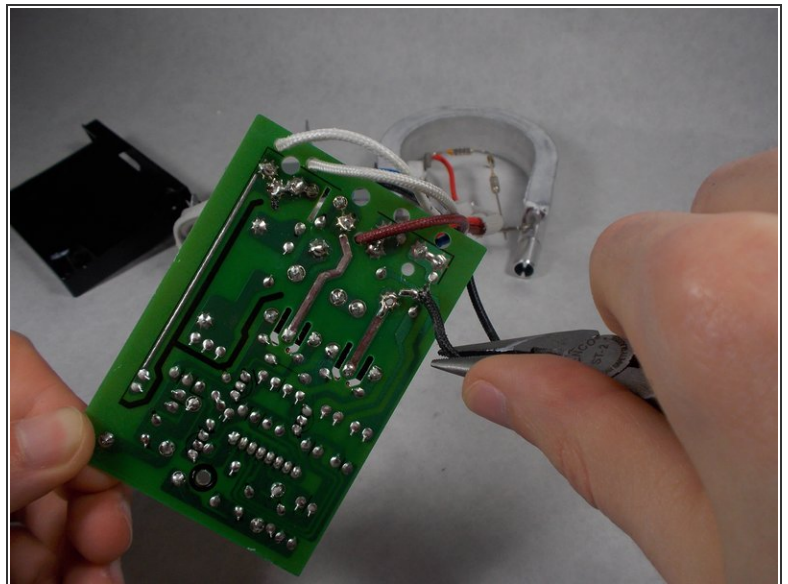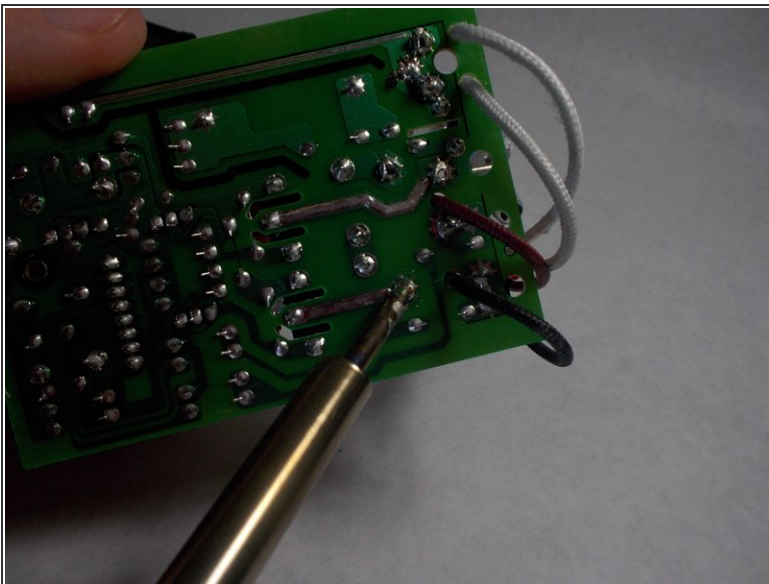
⚠ The wire will be hot. You may want to use pliers to remove it.

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Step 12

- Next, on the underside of the motherboard heat up the soldered connection of the white wire. This wire is located in the top corner.

- ⓘ Both heating component's white wires are located next to each other. make sure you remove the correct wire for your heater.

Step 13

- Lastly, on the bottom of the motherboard heat up the soldered connection for the black wire. While the solder is melted, remove the wire from the connection.

- ⓘ When replacing any soldered components, you may want to apply new solder.

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

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