Black and Decker 3-Cup Rice Cooker Spring Replacement

In this guide we will replace the spring for the device's hot plate.

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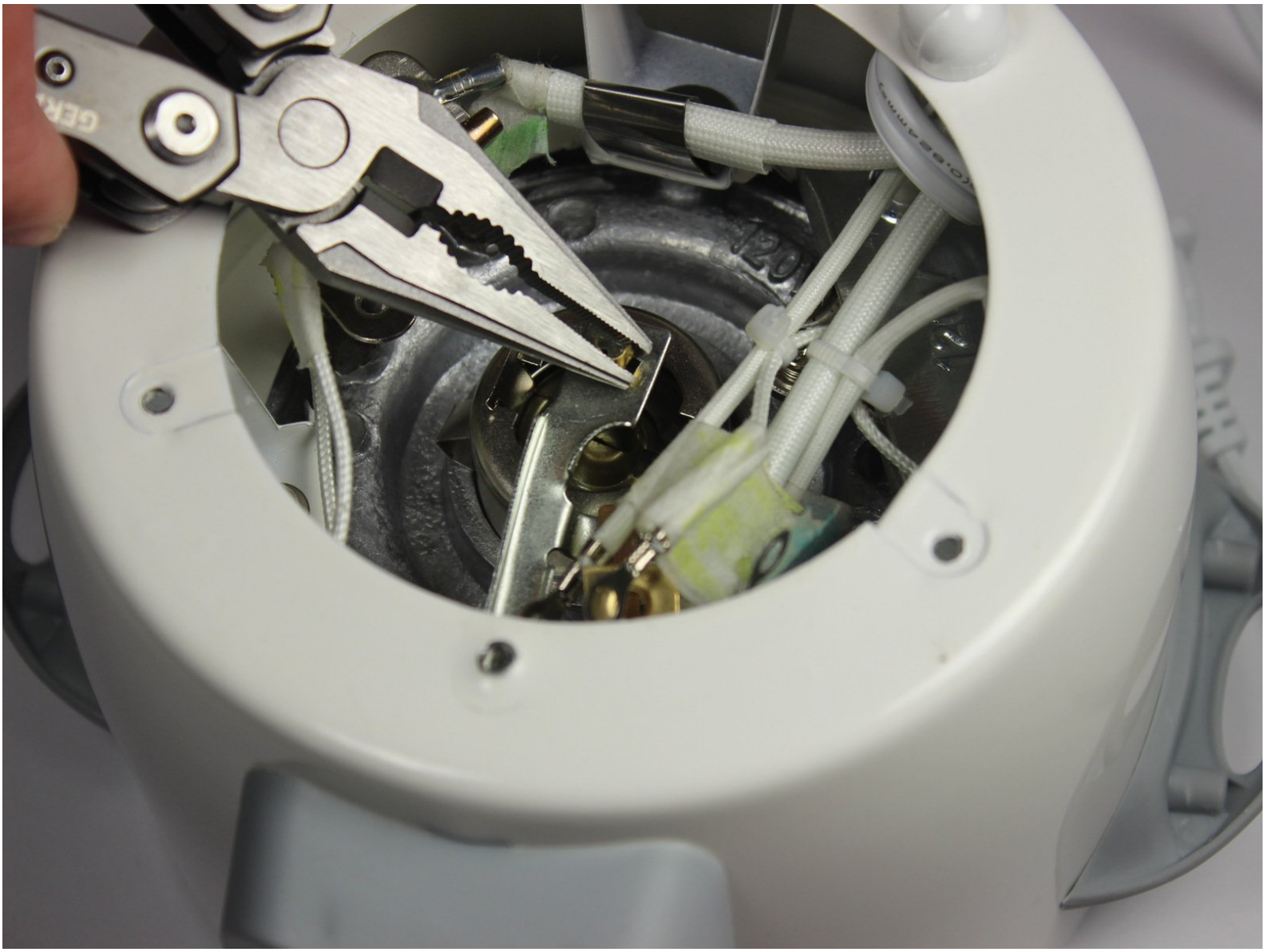


INTRODUCTION

The rice cooker contains a spring mechanism for locking the hot-plate into place while it is turned on. In this guide we will show how to identify if the spring mechanism is broken, and how to replace the spring if it is.

TOOLS:

- Phillips #1 Screwdriver (1)
- iFixit Opening Tools (1)
- Spanner 2.6 Screwdriver (1)
- Colored Highlighters (1)
- Masking Tape (1)
- Large Needle Nose Pliers (1)

PARTS:

- 47 mm long 30 mm wide spring (1)

Step 1 — Remove the Lid and Bowl

⚠ *Make sure the device is unplugged before beginning disassembly!*

- Lift the lid and bowl from the top of the device.

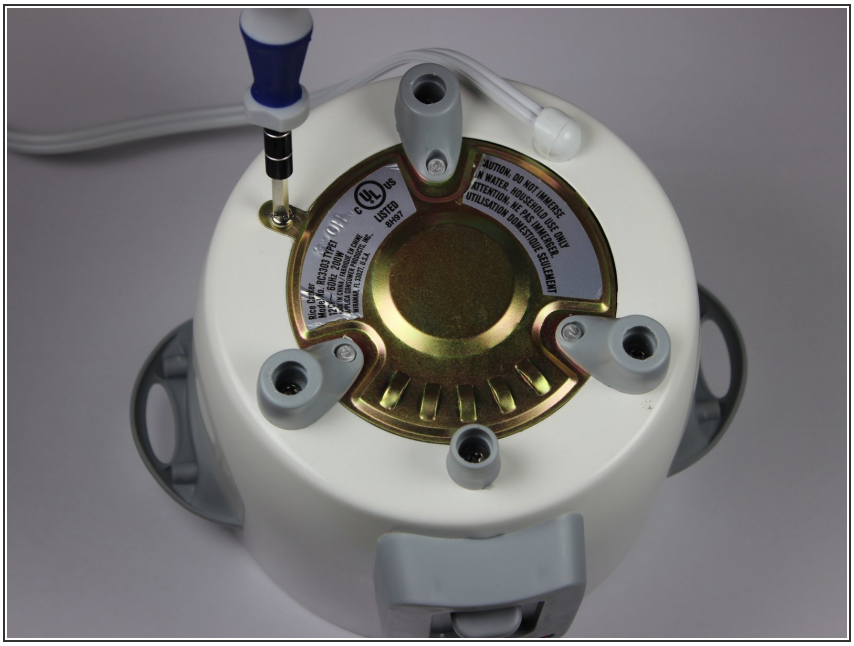
Step 2 — Turn the Device Upside-Down

- Turn the device upside-down, so that the four legs of the device point upwards.

Step 3 — Remove the Rubber Cushions

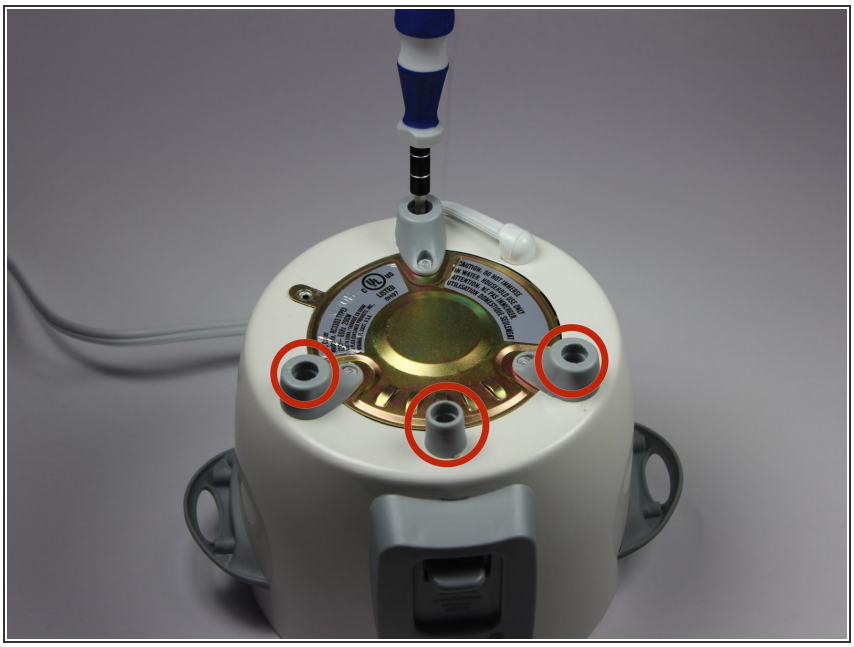
- Each of the four legs has a rubber cushion on its bottom. For each cushion, insert a plastic opening tool between the plastic leg and rubber cushion, and pry off the rubber cushion.

Step 4 — Remove the Spanning Screw



- Using a spanner screwdriver, remove the one 10mm long 7mm diameter spanner screw from the side of the brass panel.

Step 5 — Remove the Leg Screws



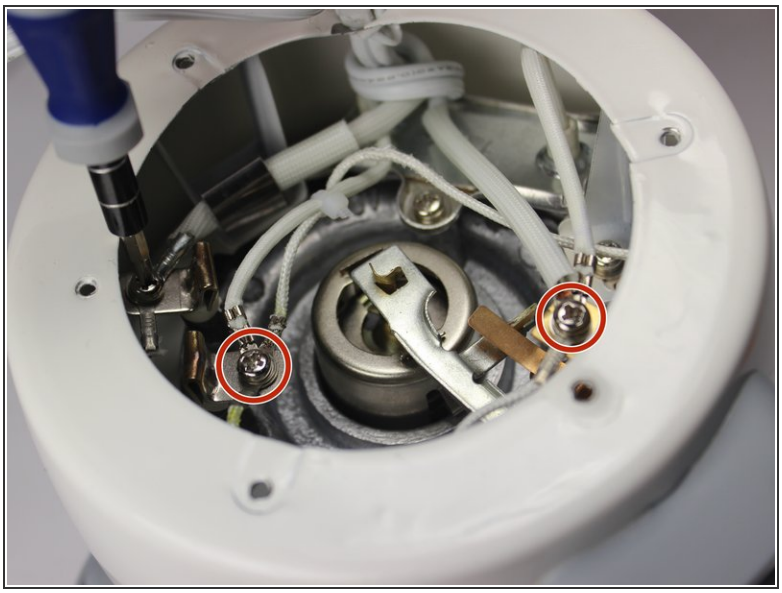
- Using a Phillips screwdriver, remove the 10mm long 7mm diameter Phillips-head screws from the inside of all four legs.

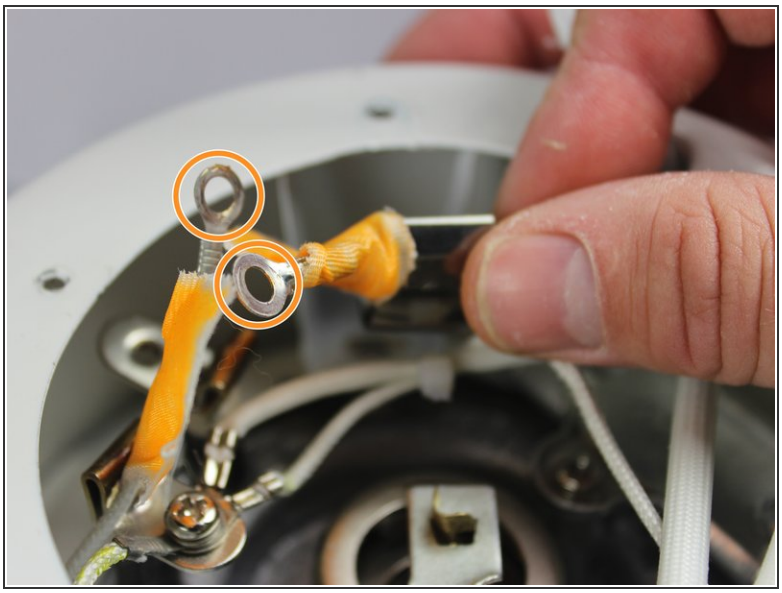
The smaller leg at the bottom is now loose and not attached to the device. Set it aside.

Step 6 — Remove the Brass Plate

- Lift the brass plate off the device and set it aside.

Step 7 — Color the Wires



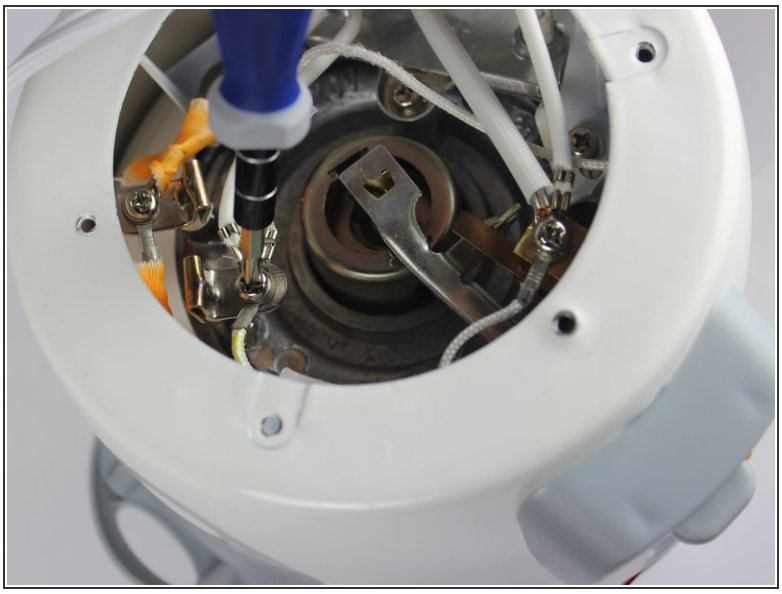


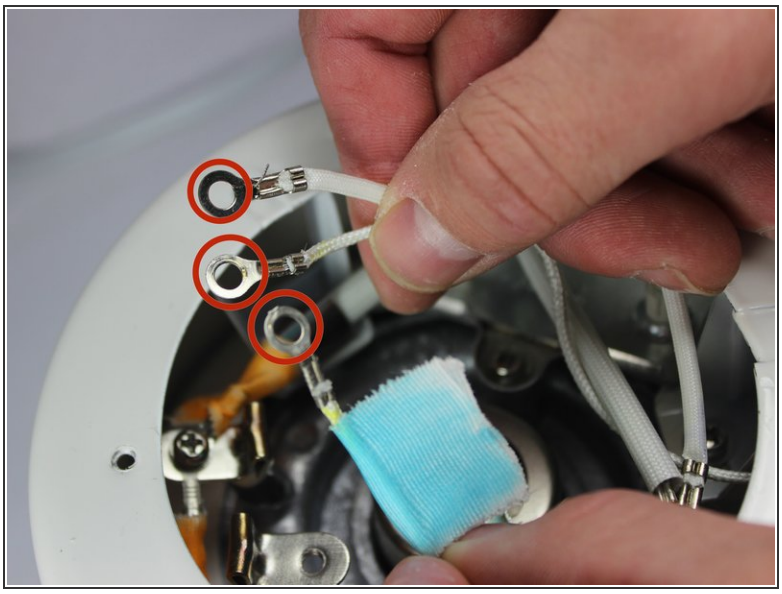
Color coordinating wire groups make it easier to identify the wire groups during reassembly.

Inside the device, there are three junctions with wires joined by Phillips-head screws. The first is connected to two wires, and the other two are connected to three wires each.

- Unscrew the screw at the junction near the opposite side of the device from the front panel.
- Label each of the two wires at this junction with a single color of tape.

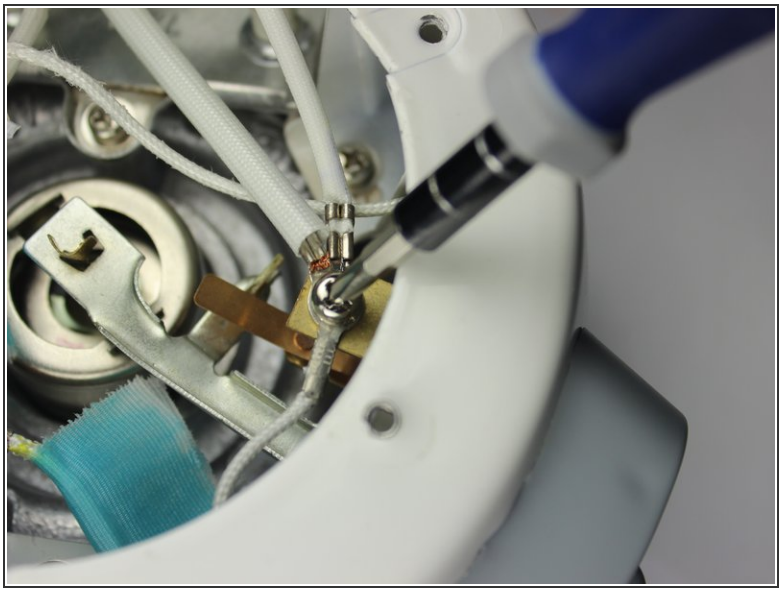
Step 8 — Label the Second Wire Junction

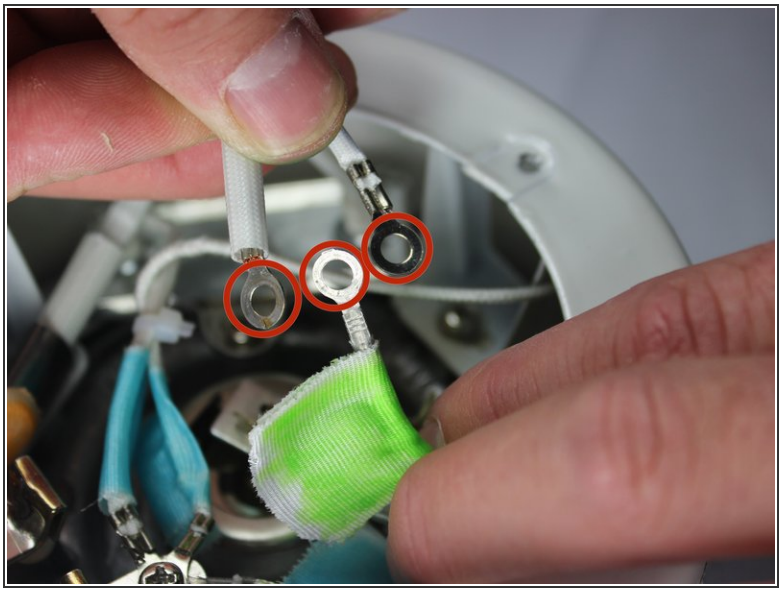




- Unscrew the screw at the junction just clockwise from the button panel.
- Label the three wires of this junction with tape of a second color.

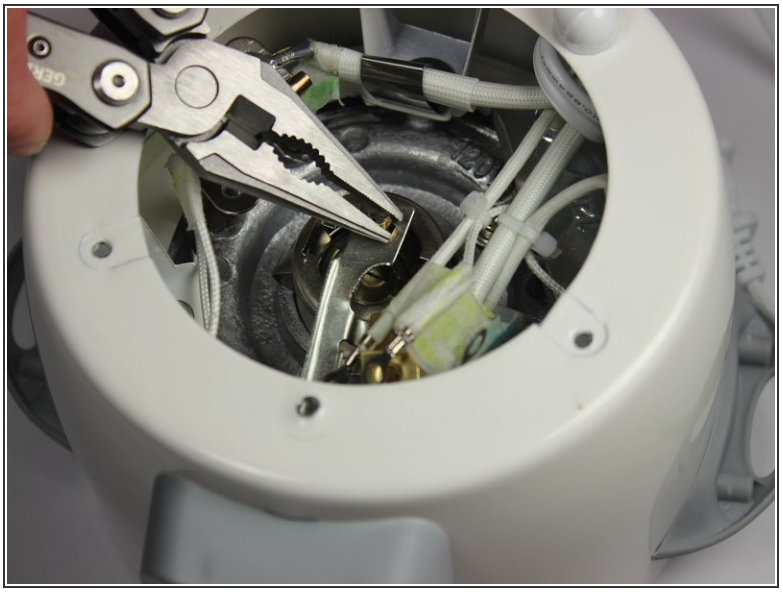
Step 9 — Label the Third Wire Junction





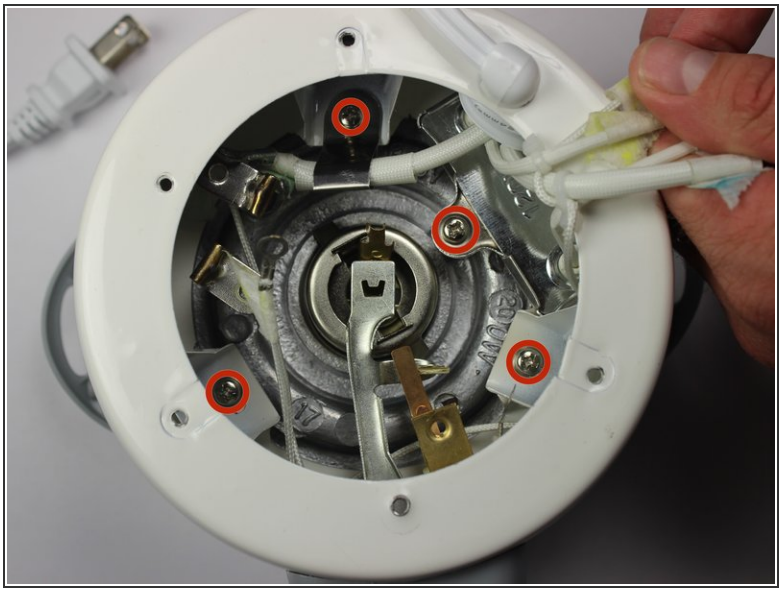
- Unscrew the screw from the wire junction just behind the front panel.
- Label the three wires at this junction with a third color of tape.

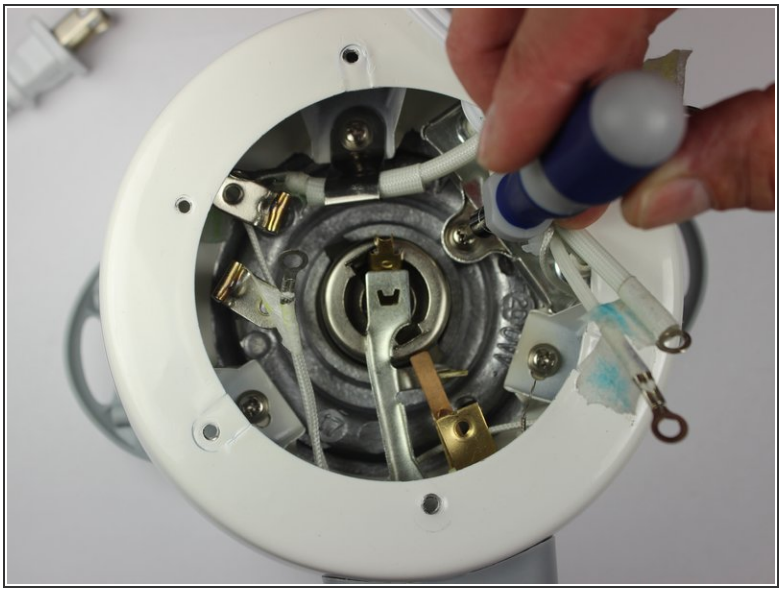
Step 10 — Unlock the brass latch



- Using a pair of pliers, bend the spring latch from a "[" shape to a "c" shape so that it fits through the silver-colored latch that holds it. Then pull the silver-colored beam up so that it detaches from the brass beam.

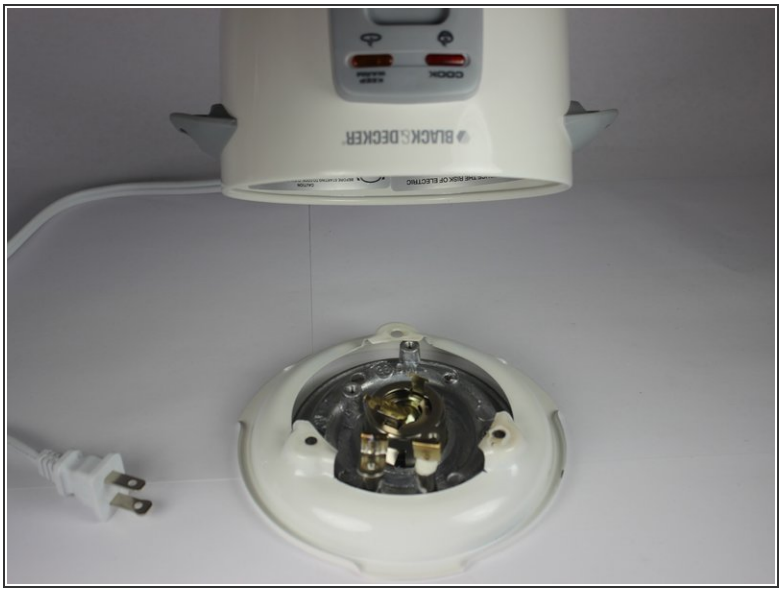
Step 11 — Unscrew the surrounding screws





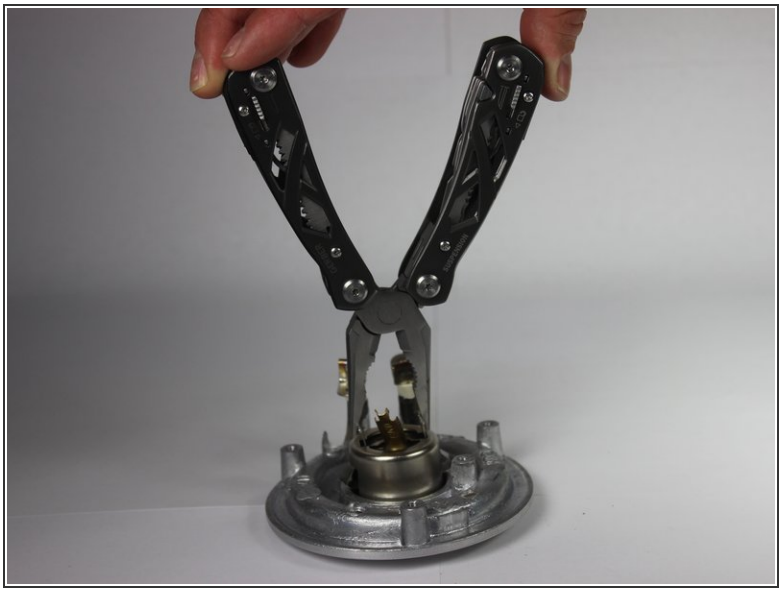
- Unscrew the four 10 mm long 7mm diameter Phillips screws attached to the hotplate

Step 12 — Remove the hotplate Piece



- Carefully turn the device over, either allowing the hotplate portion of the device to fall out, or catching it as it falls out.
- For the next step, make sure the hotplate portion of the device has its flat side facing down.

Step 13 — Unlock the Hotplate

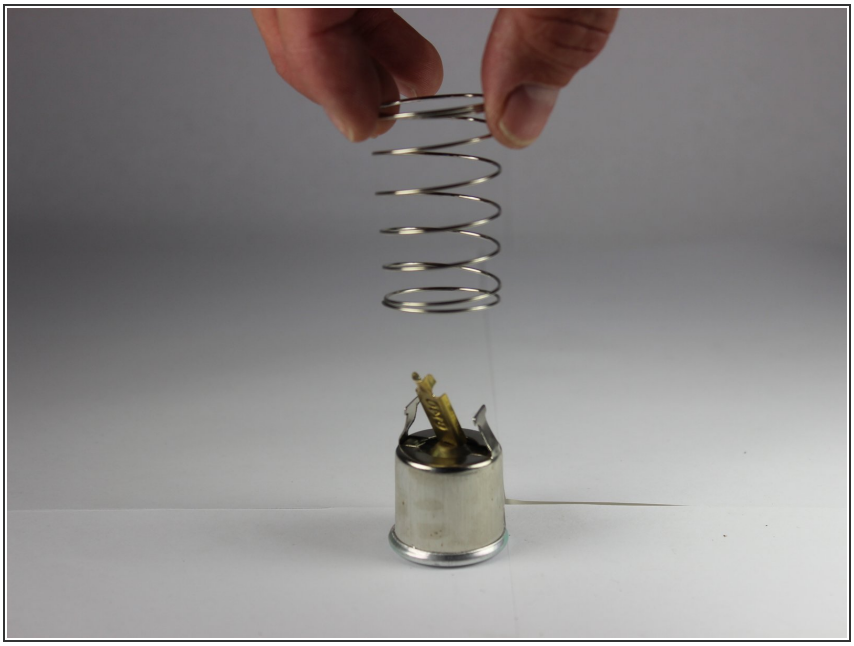


- Position a pair of pliers so that they are outside the hotplate's two inner silver-colored rectangular plates.
- Carefully push the plates together to unlock the inner portion of the hotplate.

Step 14 — Expose the Spring

- Remove the non-spring portion of the hotplate by lifting it up, exposing the spring and brass locking latch underneath.

Step 15 — Remove the Spring



- Remove the 47 mm by 30 mm spring, by pulling it up and off the locking latch.
- If the spring is in multiple pieces, does not compress and spring back easily, or otherwise does not behave like a spring, you will need to replace it.

To reassemble your device, follow these instructions in reverse order. The two silver latches will need to be bent outwards separately, and the brass latch will need to be bent back into a "["or "(" shape by holding the pliers to a 90 degree angle of that in the instructions.