



# Canon PowerShot G3 Flash Capacitor Replacement

This guide will discuss how to replace a bad flash capacitor on the Canon PowerShot G3.

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## INTRODUCTION

The flash of the Canon PowerShot G3 camera is operated by the discharge of a capacitor. A capacitor is an energy storing device that stores a charge between two conducting plates. Before the capacitor can discharge, it must be charged by the battery.

Note:

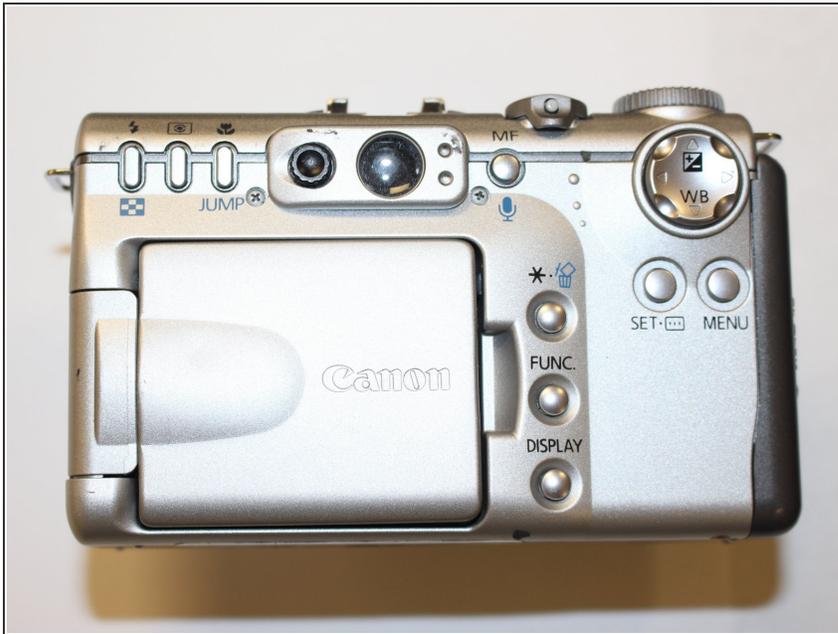
- 1.) There are many screws to be removed before you can reach the capacitor.
- 2.) To install a new capacitor you must know how to solder wires to the capacitor.
- 3.) Do not continue unless you have a magnetic pad to place the screws and a soldering iron.

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### TOOLS:

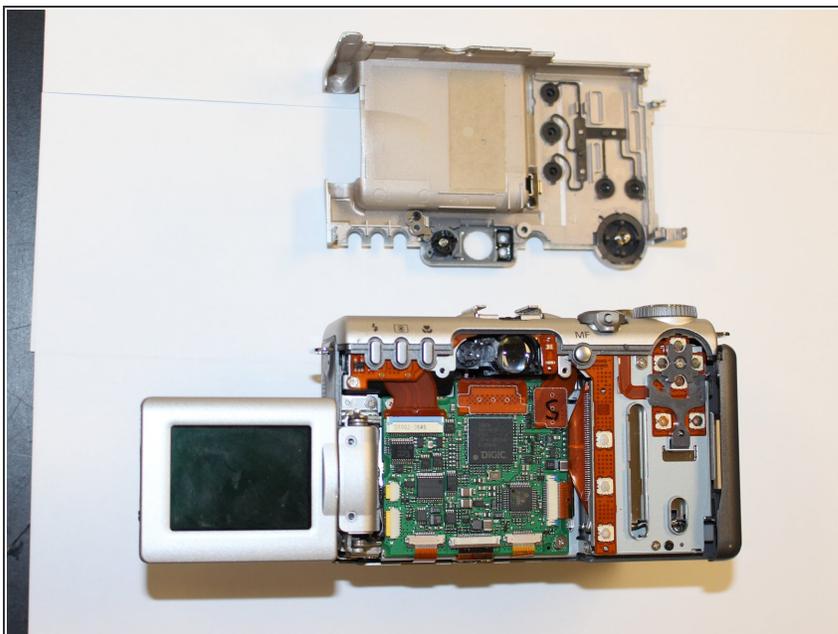
- [Essential Electronics Toolkit](#) (1)
  - [Soldering Iron](#) (1)
  - [Capacitor Discharge Pen](#) (1)
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## Step 1 — Flash Capacitor



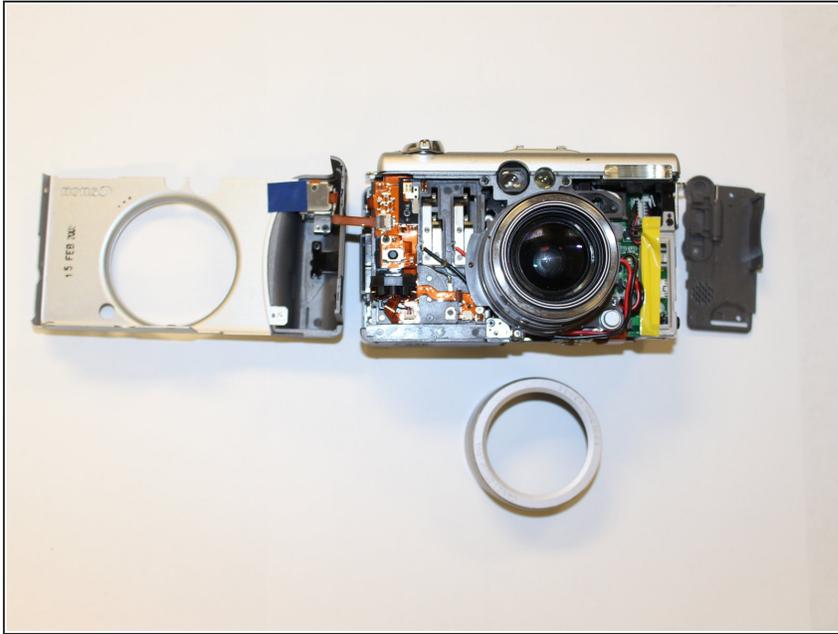
- Start to remove all of the screws around the camera: from the front, back, sides, and bottom.

## Step 2



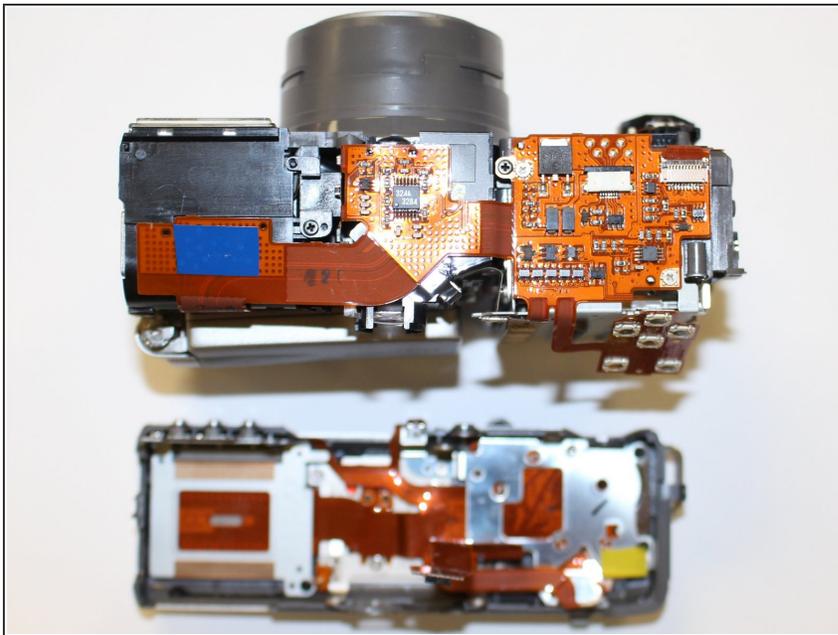
- Once the screws have been removed, Remove the back panel. The panel should be able to be removed by hand.

### Step 3



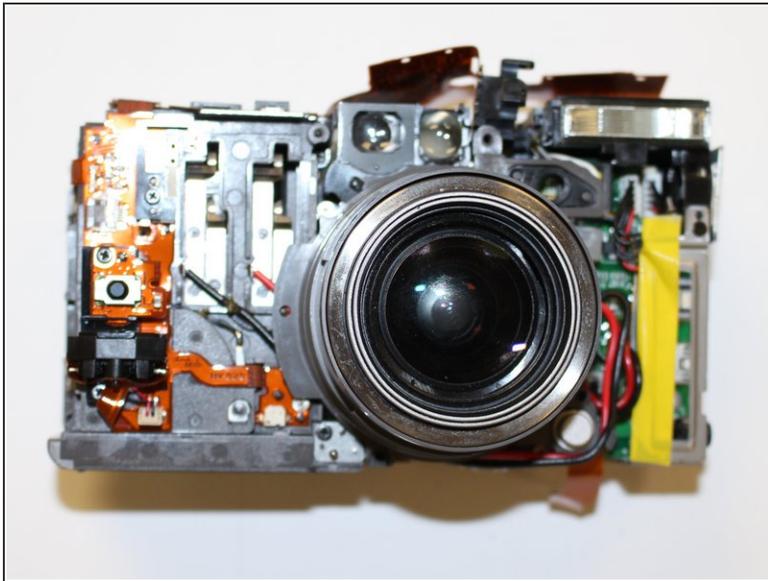
- Next remove the front panel and right side panels (the left side is part of the front).

### Step 4



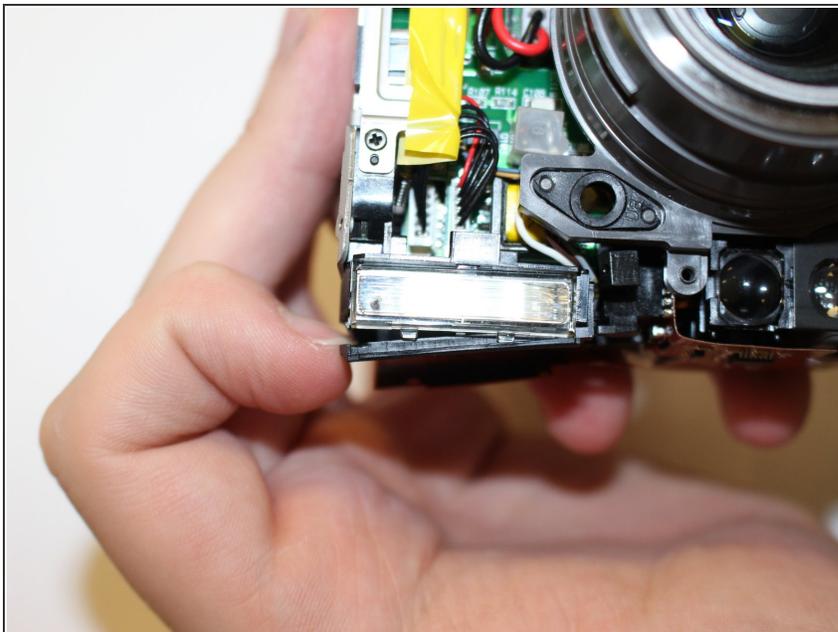
- Finally, remove the top panel as shown.

## Step 5



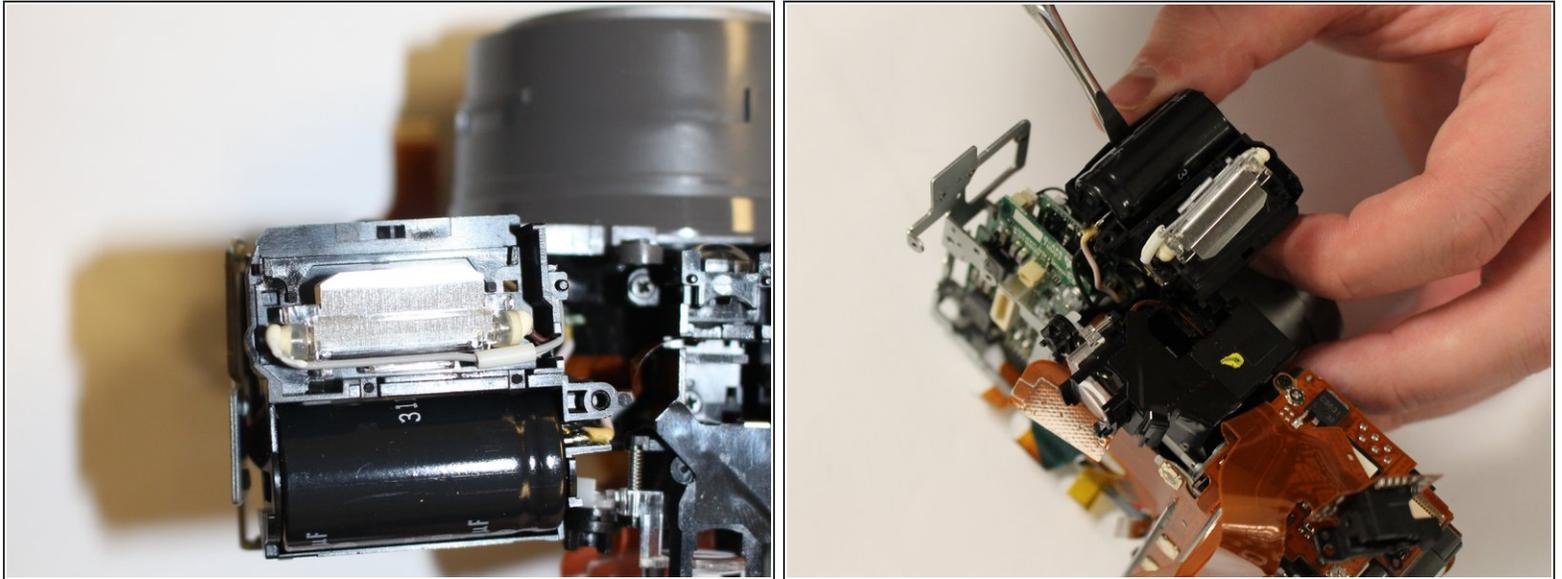
- The front of camera should now resemble the picture shown.
- To remove the circuit ribbon (the brown strips) pull them out of the plastic pieces they are connected to.

## Step 6



- After that you can lift up the capacitor housing by using your finger nail, or other small object, to lift it up around the edges.

## Step 7



- Use a spudger, or other thin object, to remove the capacitor from the housing. (Image 2)
- To remove the red and yellow wires connected to the capacitor, use a soldering iron to heat up the solder and a vacuum to suck up the solder. Any other methods you know of will also work.
- Take the capacitor to you local electronics store or order another capacitor online by reading the capacity off of the side of the capacitor. It should be in microFarads ( $\mu\text{F}$ ).
- Once you have a new capacitor, solder on the red and yellow wires to the same place as the old capacitor.

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