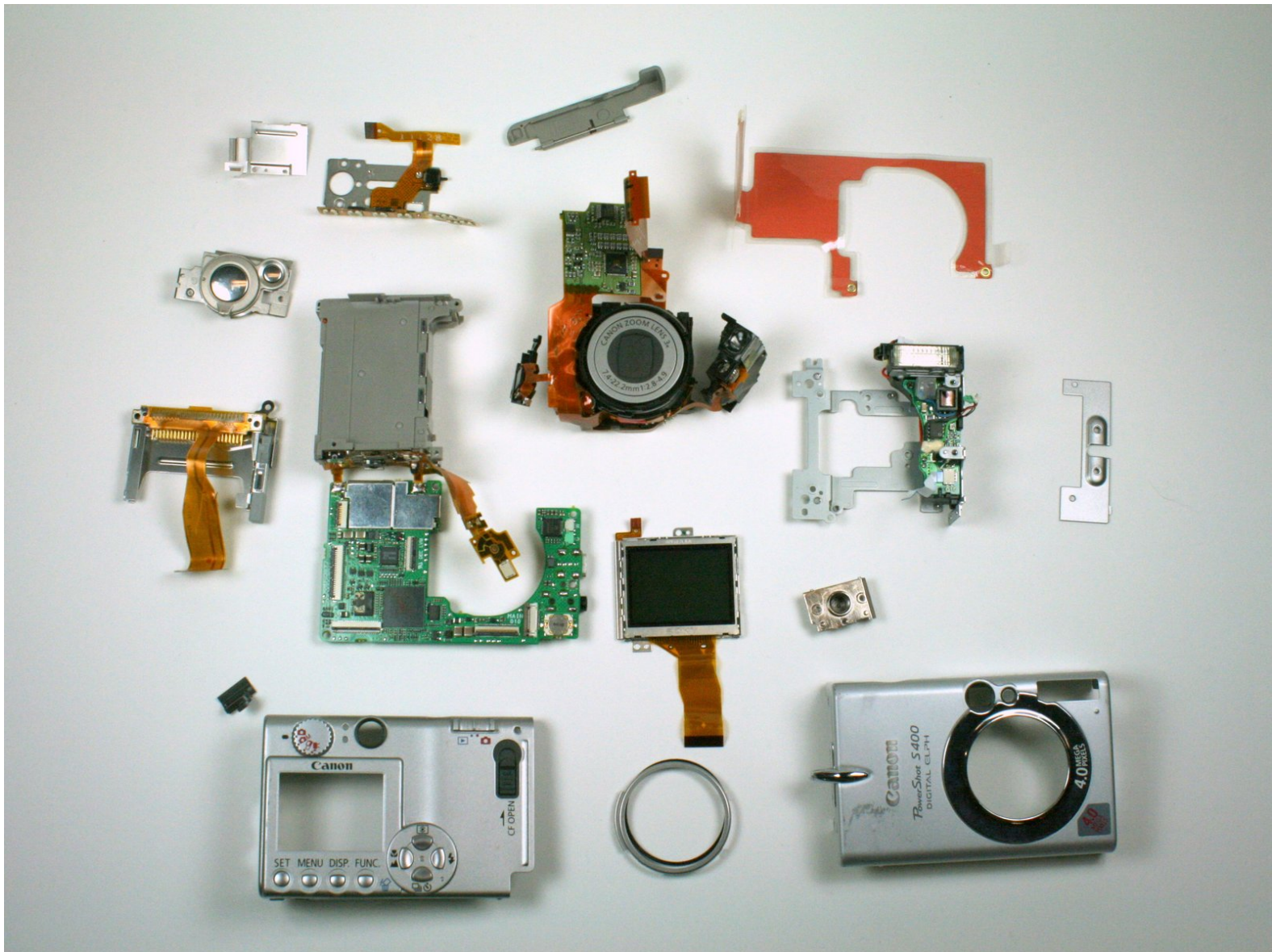




# Canon PowerShot S400 Teardown

Completely tear down your camera.

Written By: Justin



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# INTRODUCTION

This guide outlines the steps in tearing down your camera to its basic components.

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## TOOLS:

- [Phillips #00 Screwdriver](#) (1)
  - [Spudger](#) (1)
  - [Tweezers](#) (1)
-

## Step 1 — LCD Screen



 Unless stated otherwise, use a Phillips #00 screwdriver to remove all screws.

- On the backside of the camera, remove the 4.75 mm screw that sits at the top right corner.
- Remove the four 4.75 mm screws that sit at the bottom of the camera.

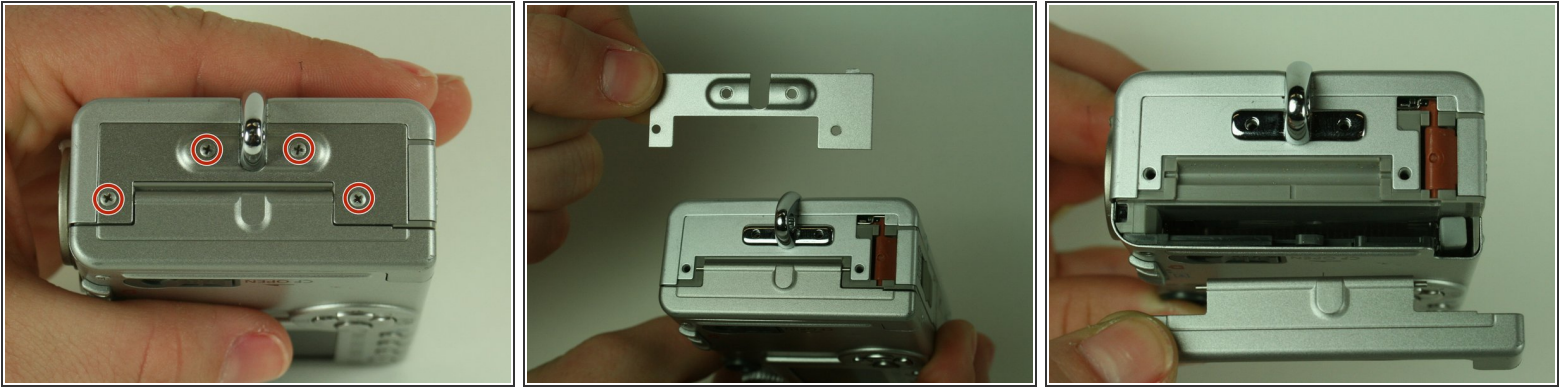
## Step 2



- On the side of the camera, remove the two 4.75 mm screws that sit near the USB digital terminal.

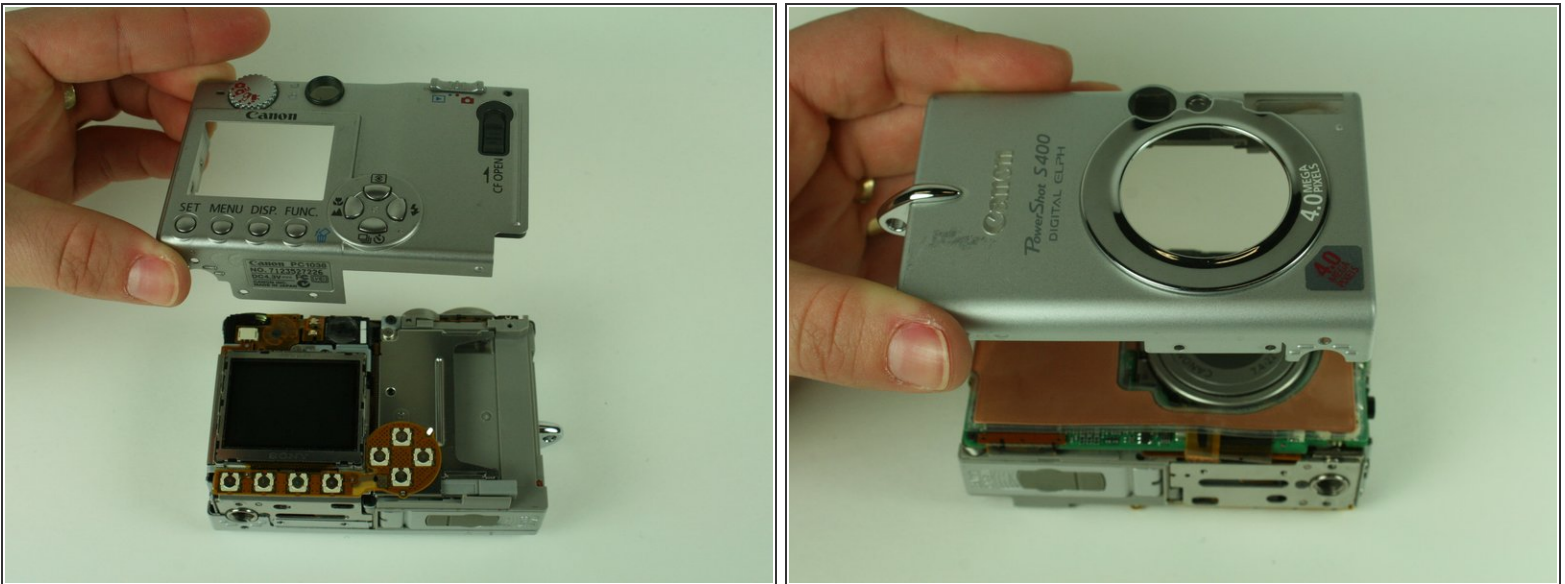



### Step 3



- On the side of the camera, remove the four 4.75 mm screws that sit near the wrist strap mount.
- Remove the two small metal plates, which the four screws hold in place.

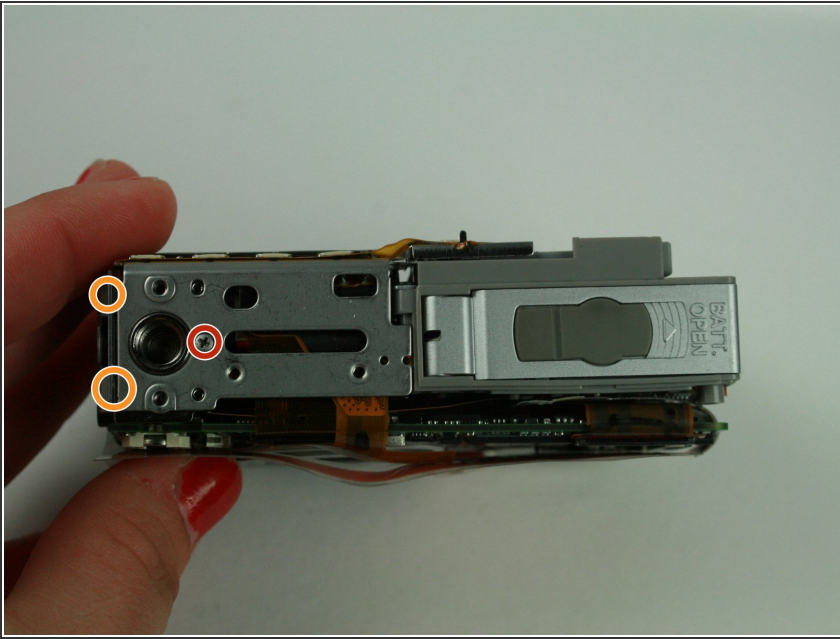
### Step 4



 When removing the casing, do not drop the small black plastic piece. This piece sits in a small gap above the lens, to the left of the flash, and underneath the camera case.

- Remove the small black plastic piece and set it aside. If necessary, use tweezers to remove the small black plastic piece.
- Detach the front case and back case.

## Step 5

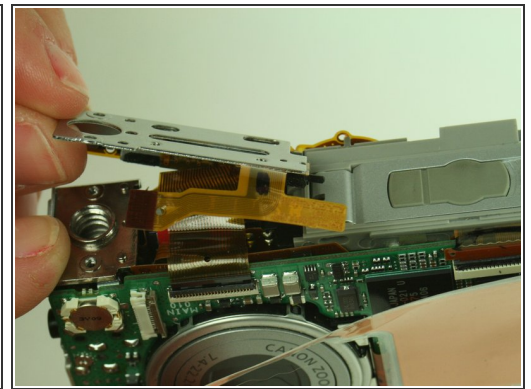
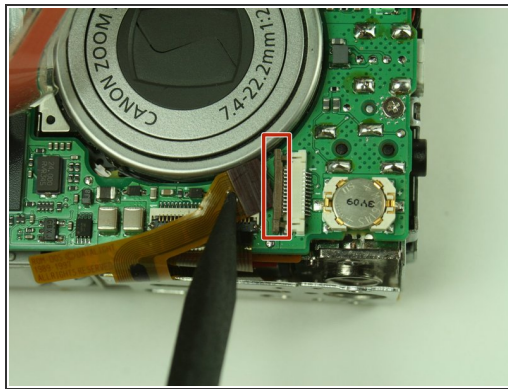
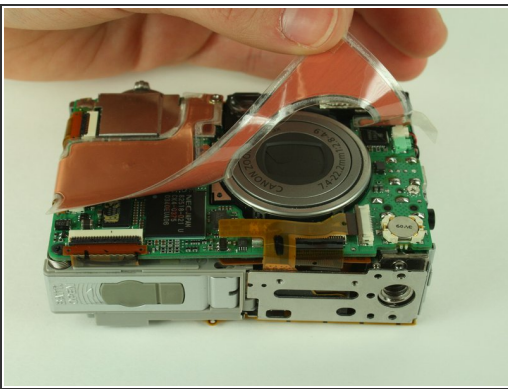


**⚠** Do not remove the metal plate this step refers to. Removal at this step may damage the ribbon cable. Wait until the next step to remove the plate.

- Remove the 3.5 mm screw that sits on the metal plate at the bottom of the camera.
- Remove the two other 3.5 mm screws that sit on the side, to the left of the screw you just removed.

**i** In the image, we have already removed some of the screws.

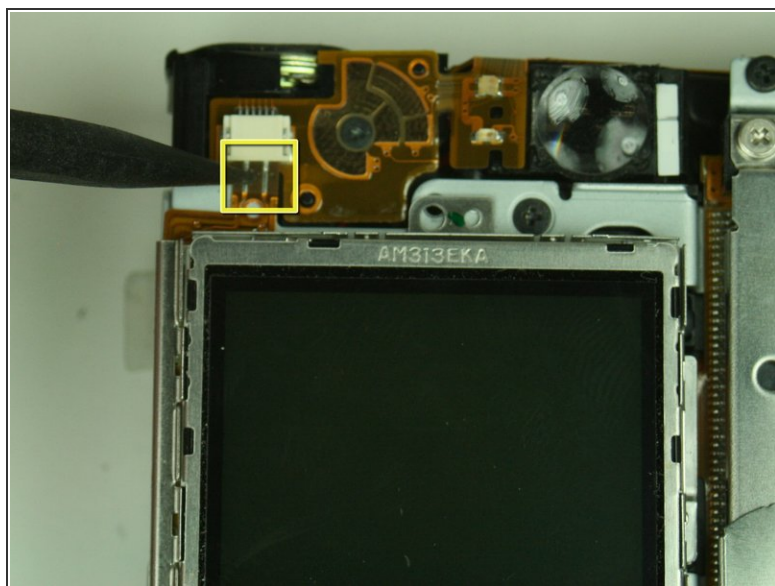
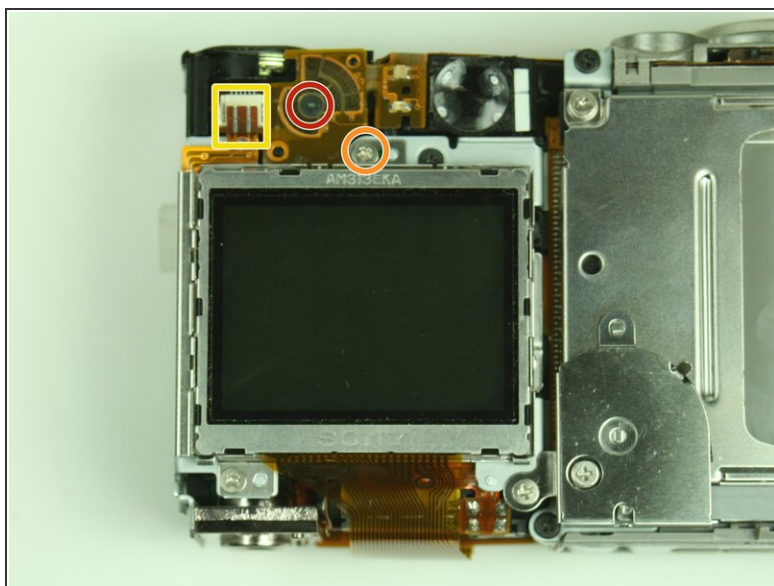
## Step 6



- A ribbon cable attaches to the metal plate and to the main circuit board, on the front of the camera.
- Gently release the black latch.
- Remove the ribbon cable and metal plate assembly.

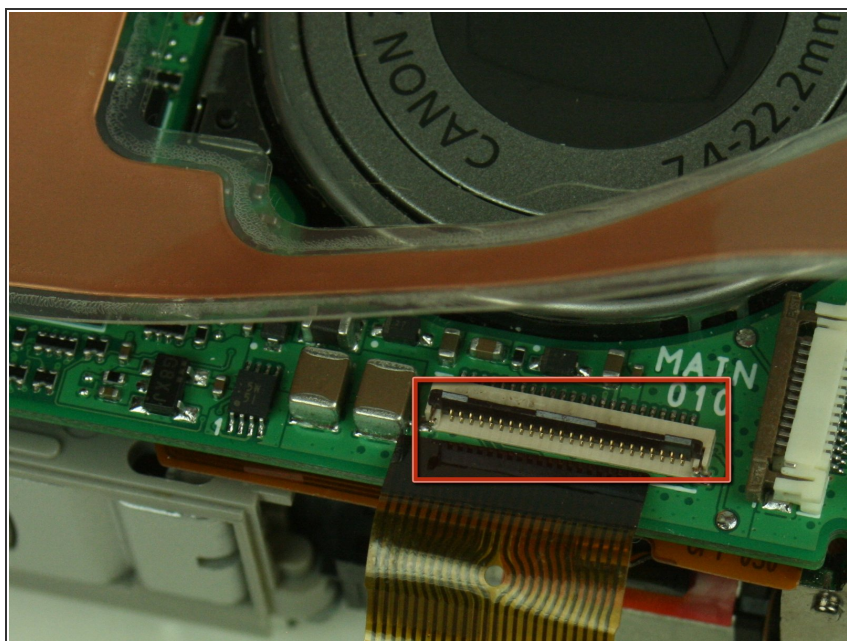


## Step 7



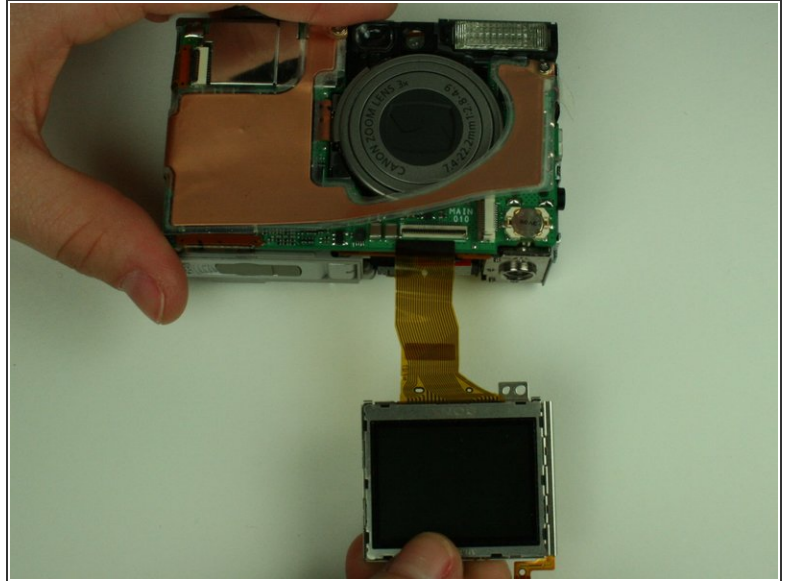
- On the backside of the camera, remove the 3.5 mm screw that sits to the left of the viewfinder and above the LCD screen.
- Remove the second 3.5 mm screw that sits directly above the LCD screen.
- Gently detach the ribbon cable.

## Step 8



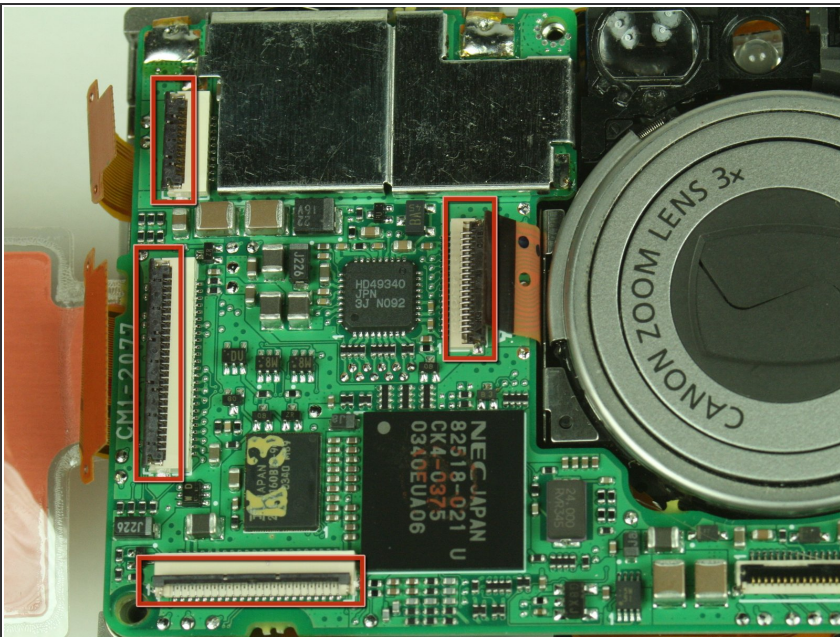
- Locate the ribbon cable on the main circuit board, which sits below the lens.
- Gently release the black latch on the ribbon cable connector and detach the ribbon cable.

## Step 9



- Remove the LCD screen and set it aside.

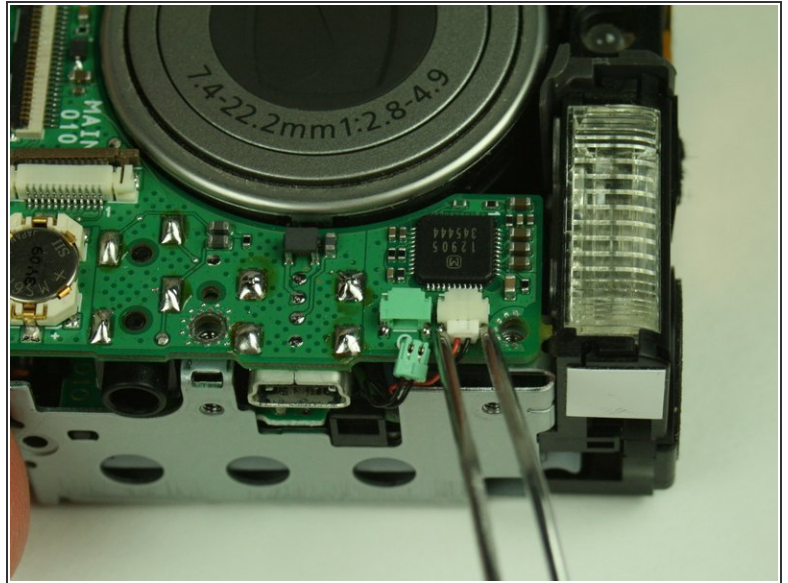
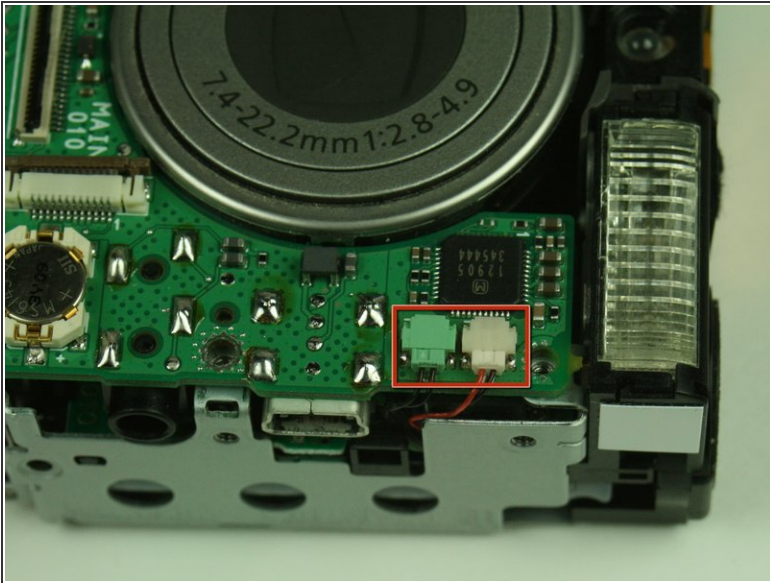
## Step 10 — Motherboard



- On the main circuit board, gently release the black latches of the four ribbon cables.
- Gently detach the ribbon cables.

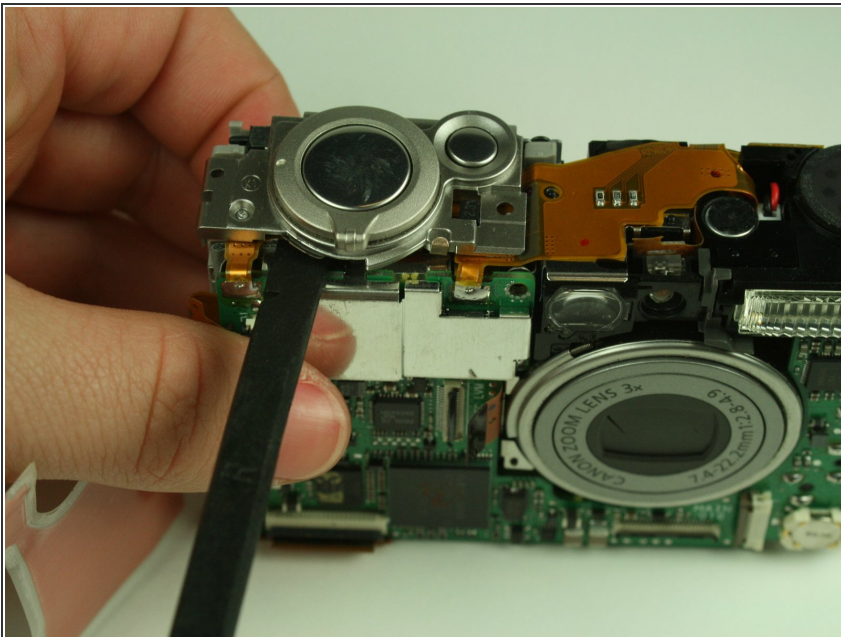


## Step 11



- Detach the white-capped and green-capped wires, which sit near the flash.

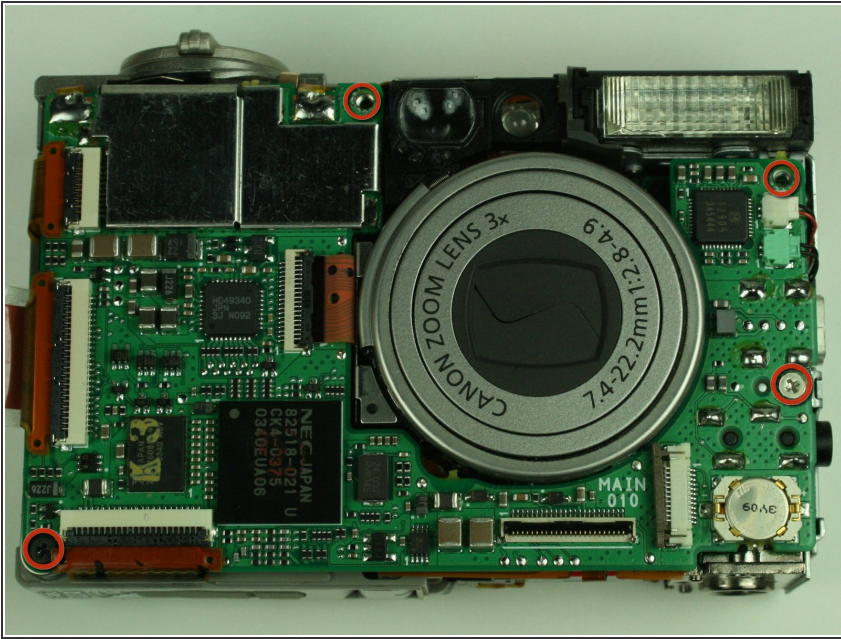
## Step 12



- Using a spudger, gently detach the shutter button assembly from the camera.

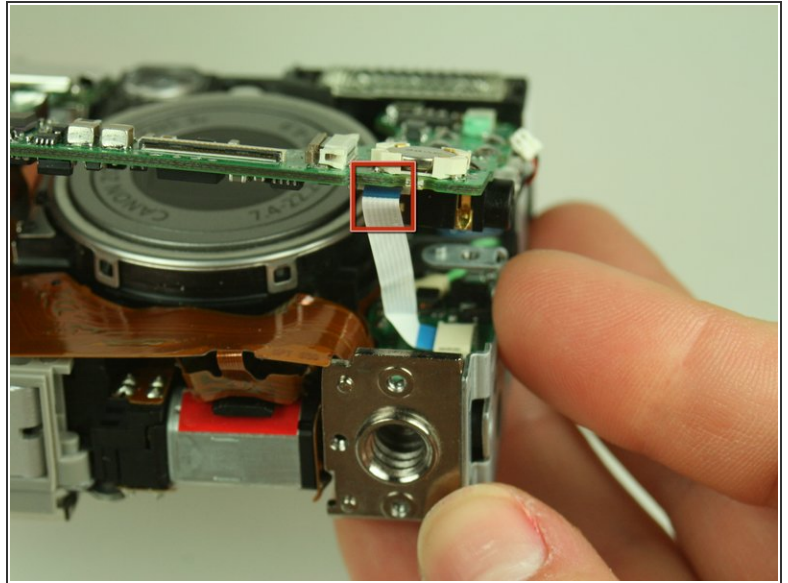
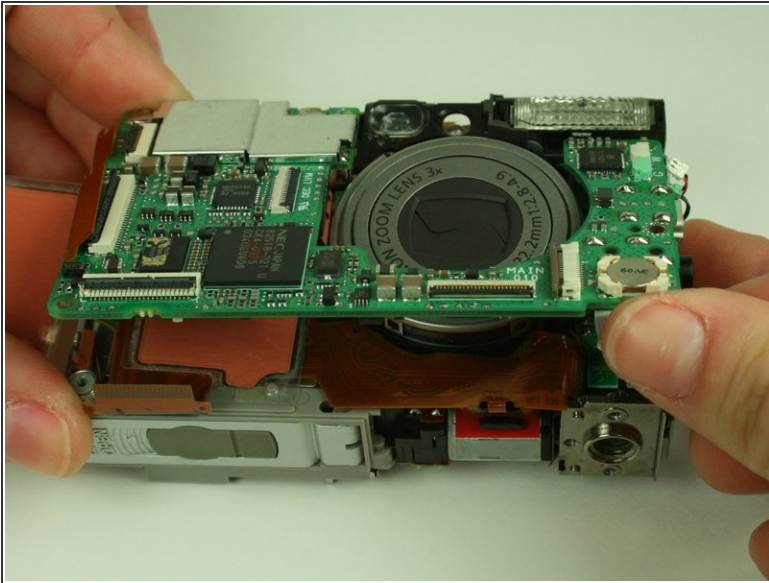


## Step 13



- Remove the four 3.5 mm screws that hold the main circuit board.
- ⓘ In the image, we have already removed some of the screws.
- ⚠ Do not remove the main circuit board yet.

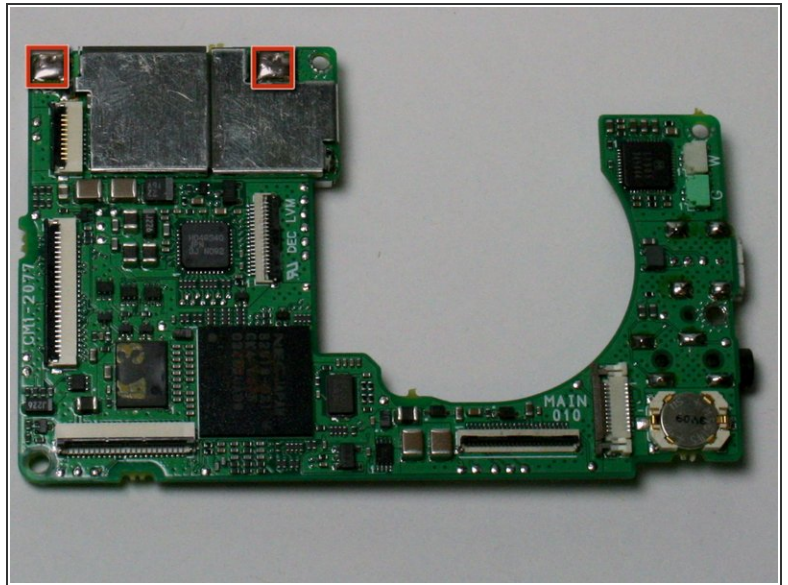
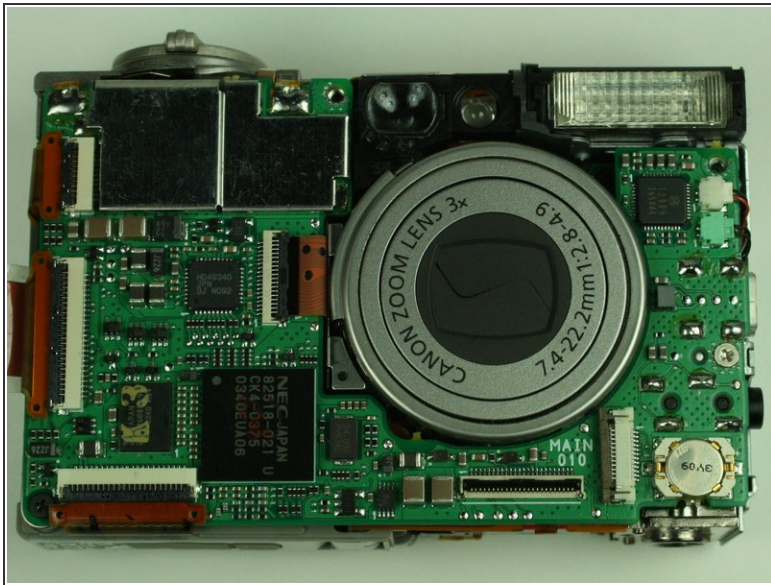
## Step 14




- ⚠ Do not completely remove the main circuit board from the camera. A soldered ribbon cable still attaches the board to the camera. Complete removal would break the soldering points.
- In a hinge-like motion, gently lift the bottom of the main circuit board, which is the side without the soldering points.
  - Gently detach the white ribbon cable from the underside of the main circuit board.



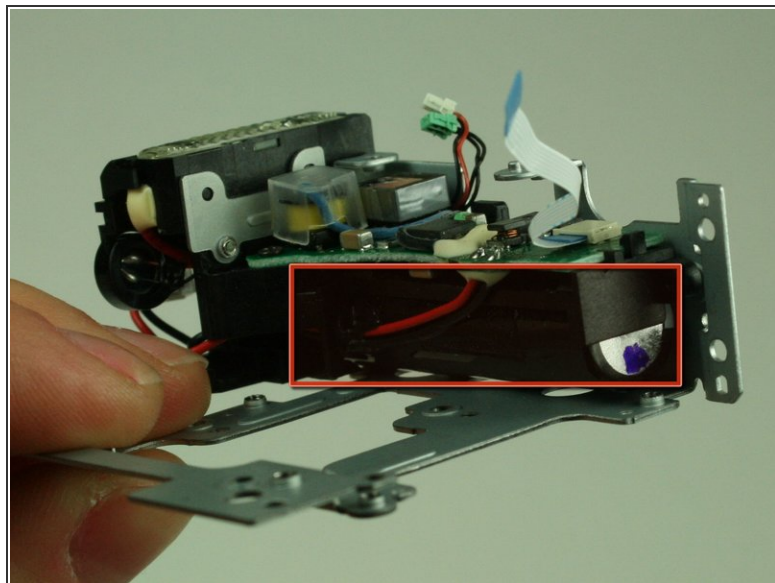
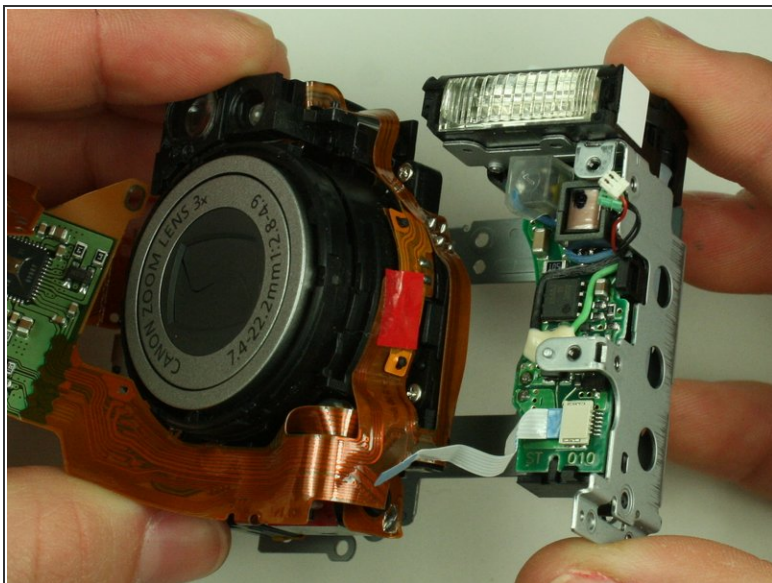
## Step 15




 Do not attempt this next step unless you have soldering experience and feel comfortable desoldering. Otherwise you may damage the camera.

- Gently desolder the two ribbon cables attached to the motherboard.
- Remove the motherboard.

## Step 16 — Canon PowerShot S400 Teardown

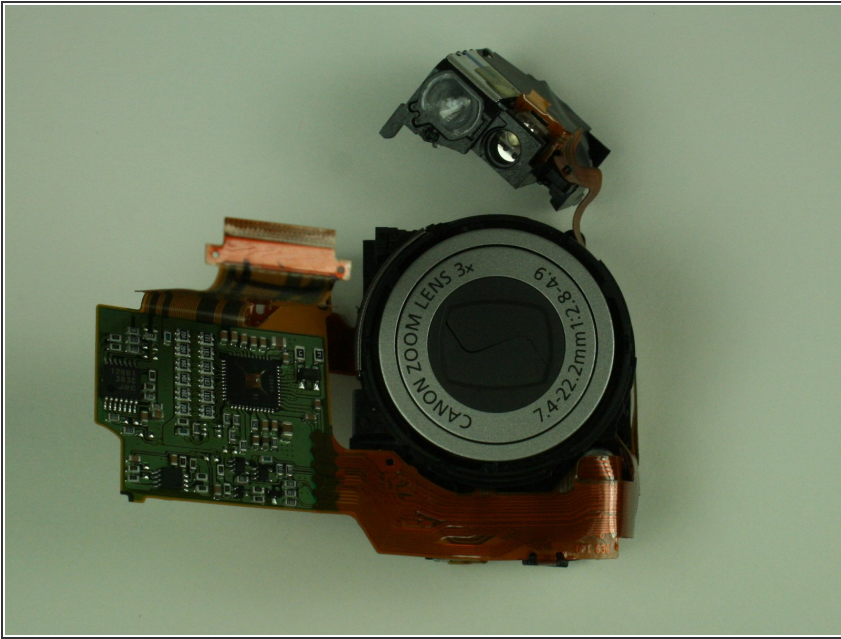


 This step exposes the flash capacitor, a black cylindrical object, that is a part of the flash assembly. The capacitor can cause electrical shock.

- Working with the lens-flash assembly, remove the three 3.45mm screws located on the metal plate.
- Separate the flash assembly from the lens assembly.
- Set aside the flash assembly.

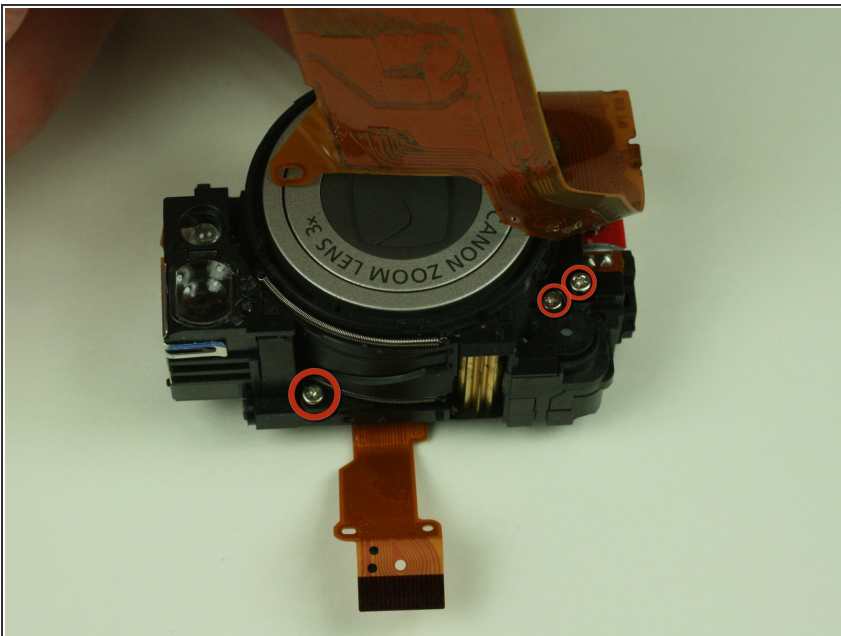


## Step 17



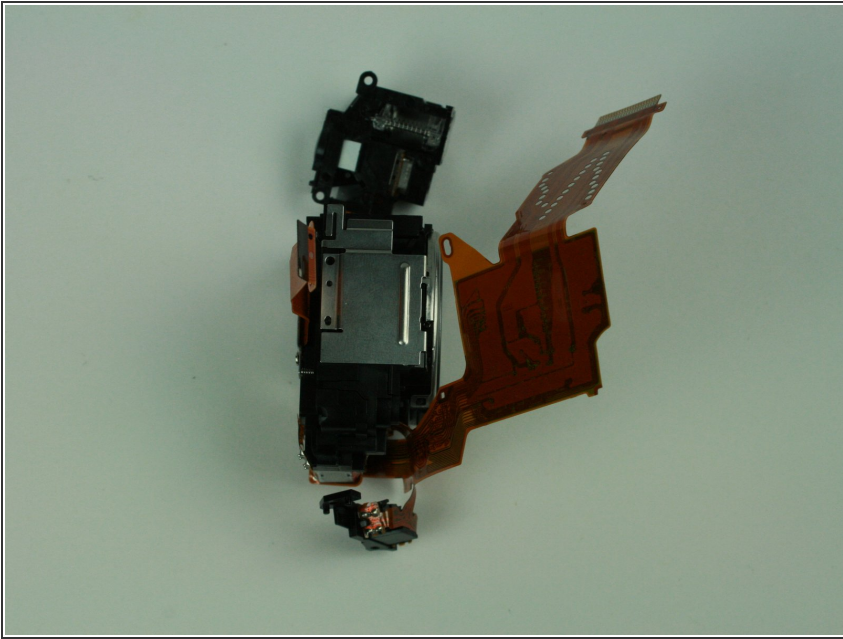
- ❗ A ribbon cable prevents complete separation of the viewfinder and the lens assembly.
- Remove the three 2.5mm screws connecting the viewfinder to the rest of the lens assembly.

## Step 18



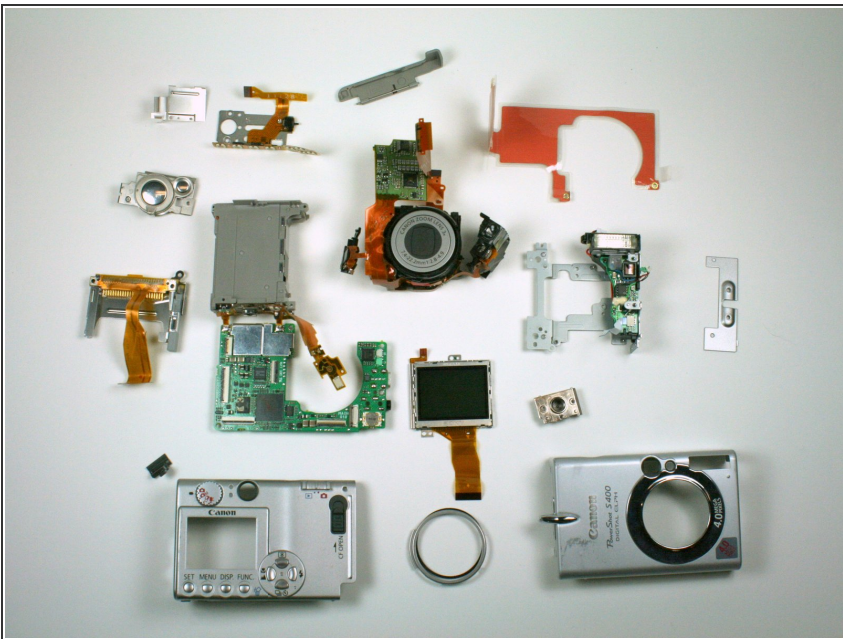
- Remove the three 2.5mm screws underneath the flex circuit.

## Step 19



- Remove the small 1.5mm screw attaching the metal plate to the lens assembly.

## Step 20



- Displayed here are all of the components of the camera.
- To reassemble the camera, follow all of the steps in reverse order.

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