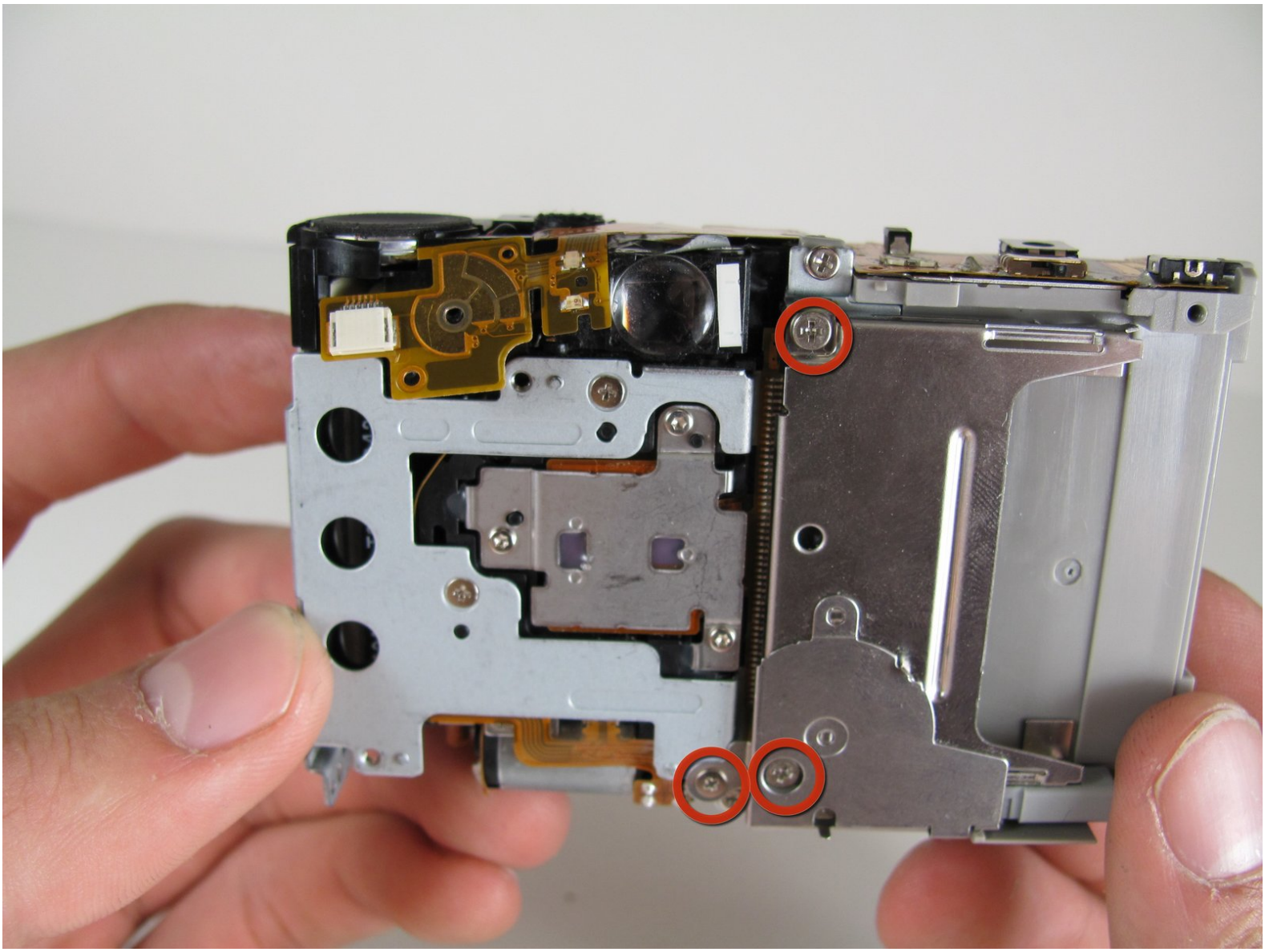
Canon PowerShot S500 Breakdown to Three Parts Replacement

Written By: Dozuki System



INTRODUCTION

This guide shows how to break down the camera into three parts: battery casing, zoom lens, and flash assembly.

TOOLS:

- Desoldering Braid (1)
- Phillips #0 Screwdriver (1)
- Soldering Station (1)
- Spudger (1)
- Tweezers (1)

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Step 1 — Canon PowerShot S500 Breakdown to Three Parts Replacement





- Unscrew five Phillips screws using a #0 Phillips screwdriver.

(i) One screw is on upper right corner of the back panel.

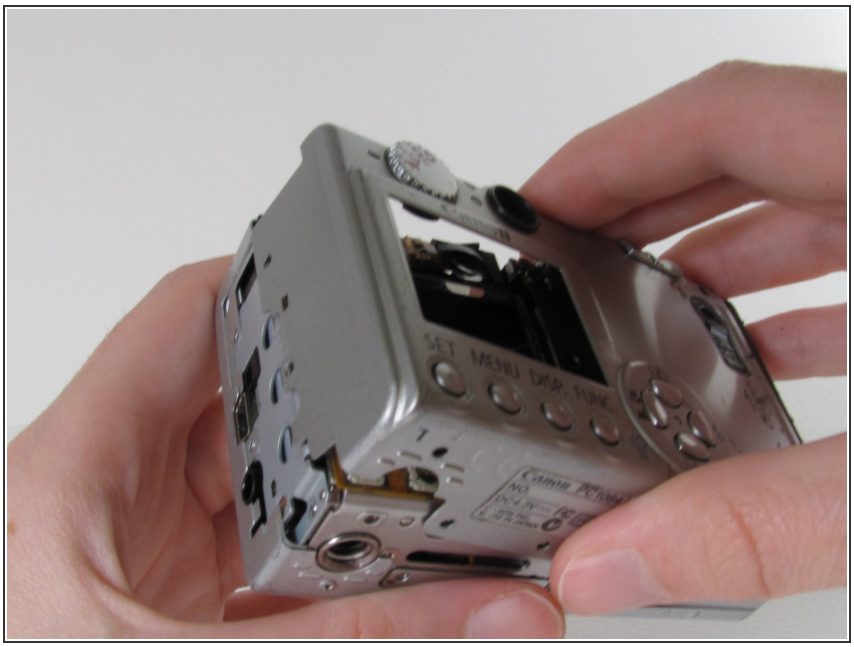
(i) The other four screws are on the bottom of the camera.

Step 2



- Open memory card cover by moving the slide switch toward the top end of of the camera.
- Remove the memory card from the slot.

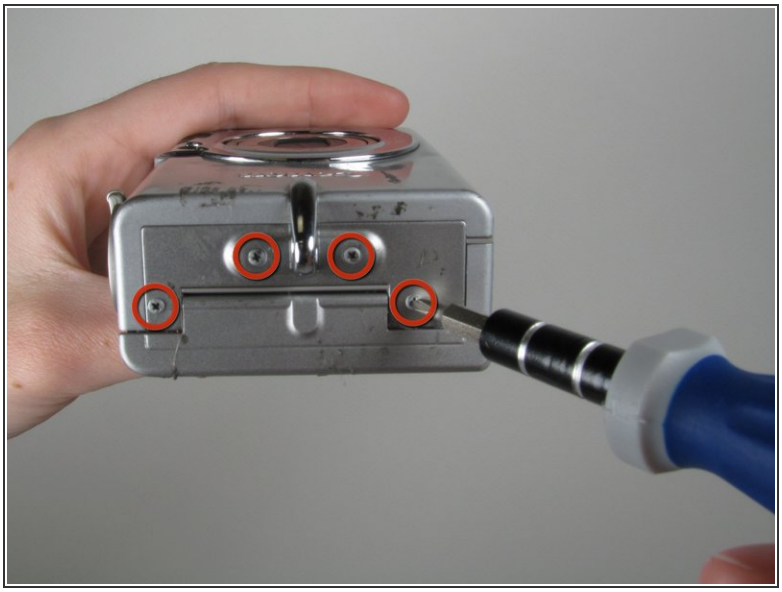
Step 3

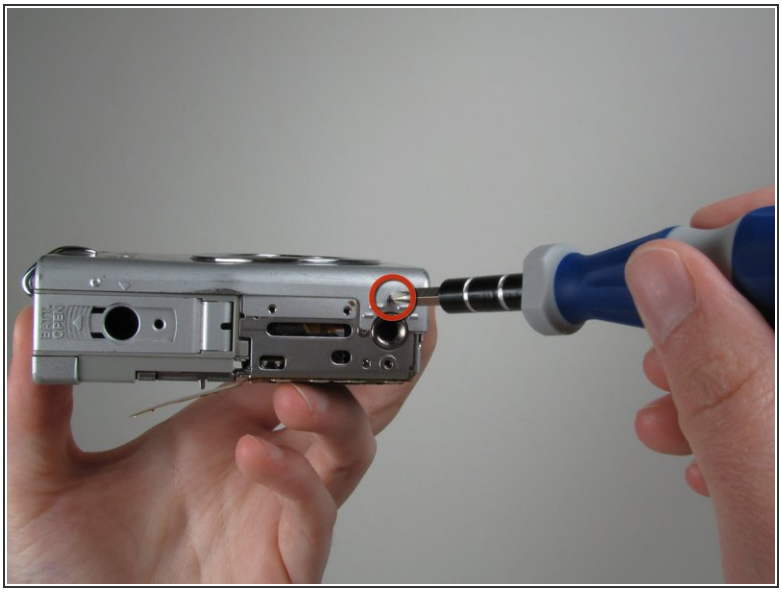


- Remove the rear cover from the rest of the camera.

This may require gentle rocking of the case to free it.

Step 4





- Unscrew the four Philips screws from the side of the casing and one screw from the bottom using a #0 Phillips screwdriver.

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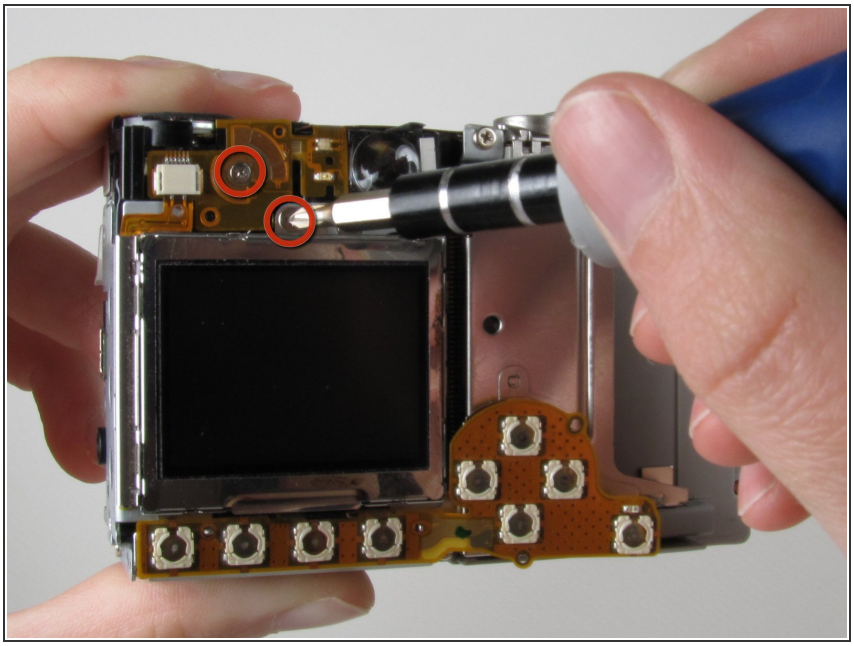
Step 5



- Free the front cover from the rest of the camera.

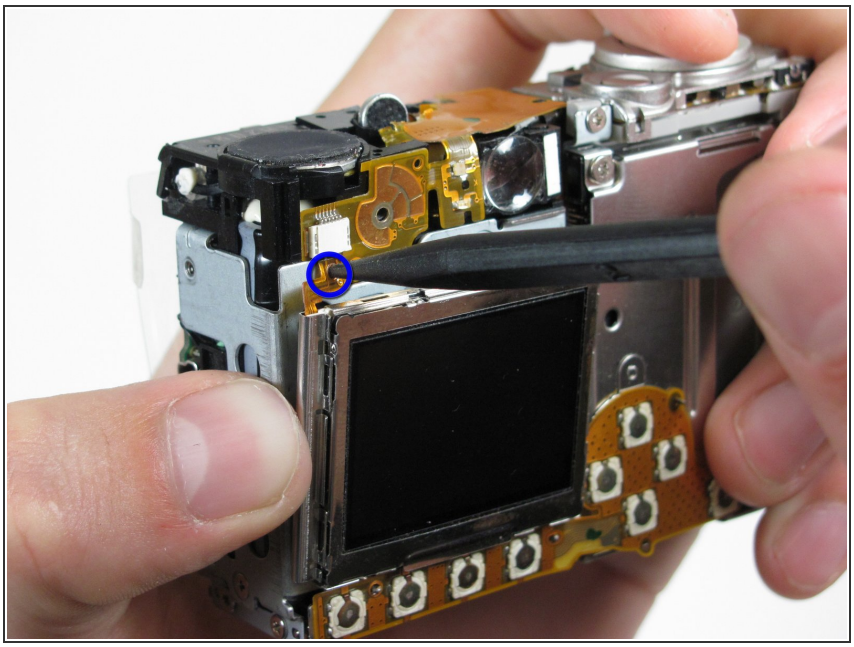
The cover may require gentle rocking to remove.

Step 6



- Unscrew two Phillips screws above the LCD using a #0 Phillips screwdriver.

Step 7



- Gently separate the top of LCD from the rest of the camera using your thumb.

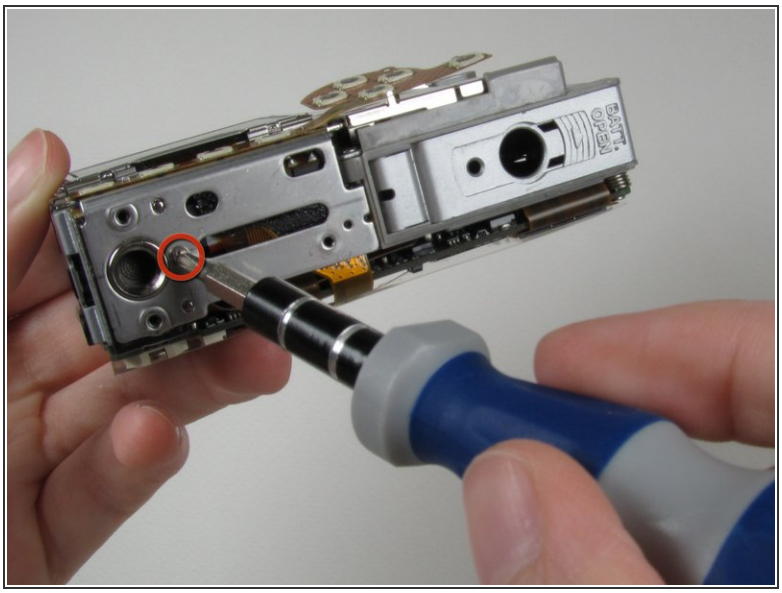
⚠ Be careful not pull the LCD too far because of the ribbon cable connection.

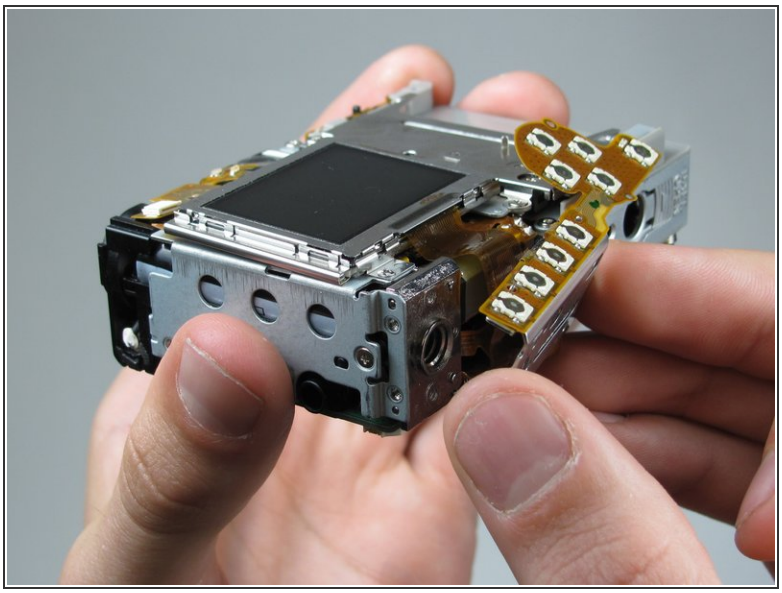
- Place the Spudger in the hole of the electrical ribbon.
- Gently pull the ribbon down using the Spudger until it is free from the camera but still connected to the LCD.

ⓘ The LCD will still be connected to the rest of the camera

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Step 8

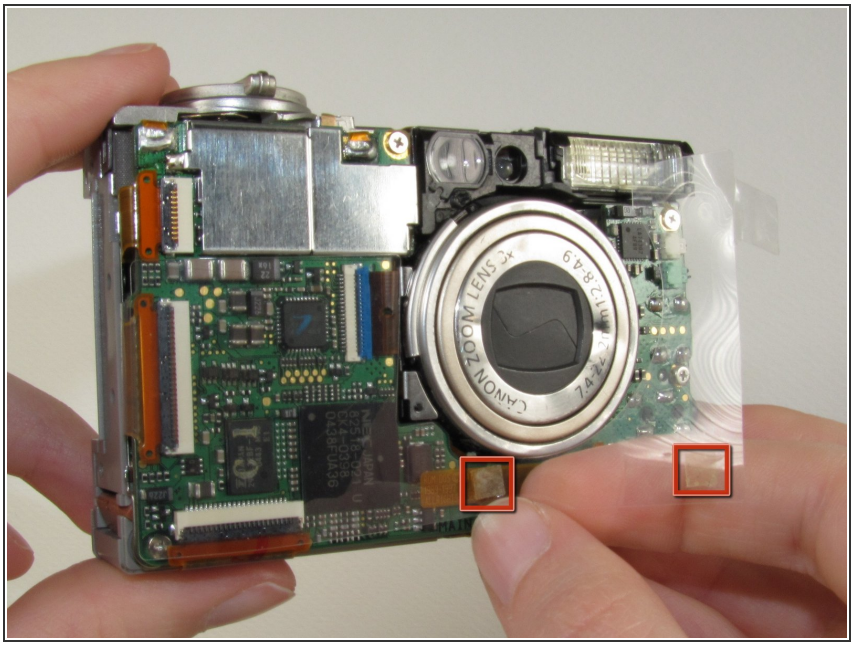




- Unscrew single Phillips screw with a #0 Phillips screwdriver.
- Free the bottom panel and attached ribbon from the rest of the camera.

⚠ Be careful not to damage the ribbon.

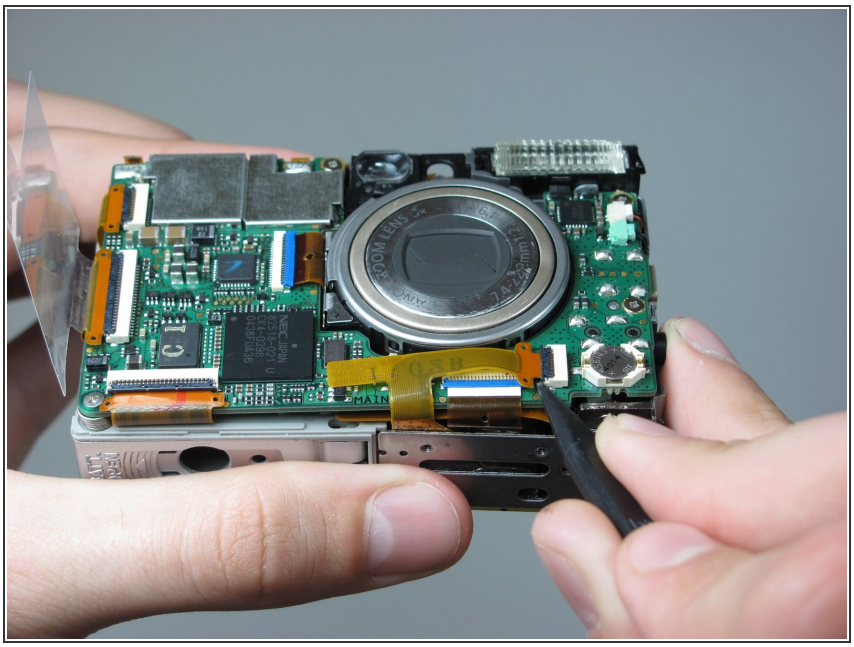
Step 9



- Turn over the camera.
- Lift the clear plastic from the face of the camera, peeling the adhesive just below the zoom lens.

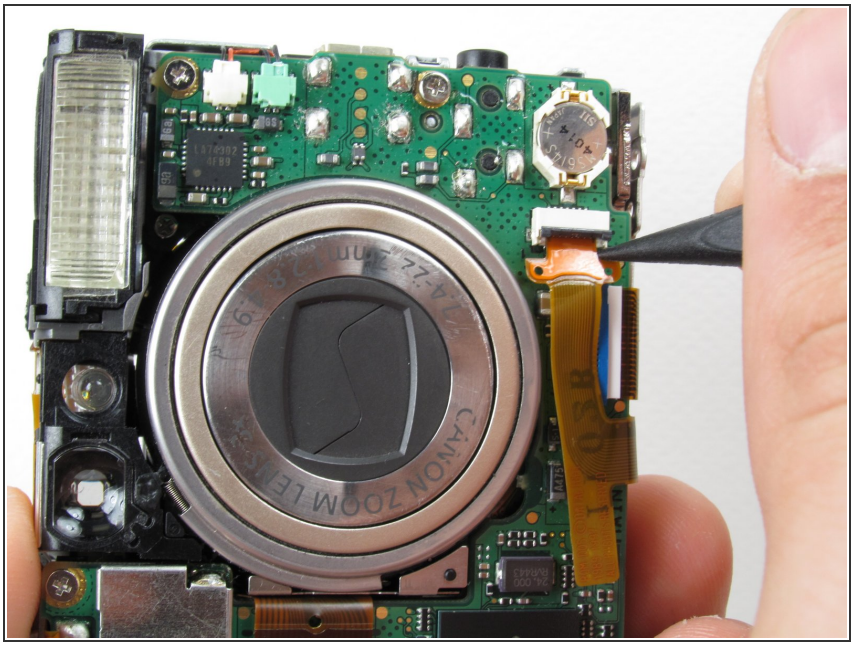
ⓘ The plastic will still be connected on the left side.

Step 10



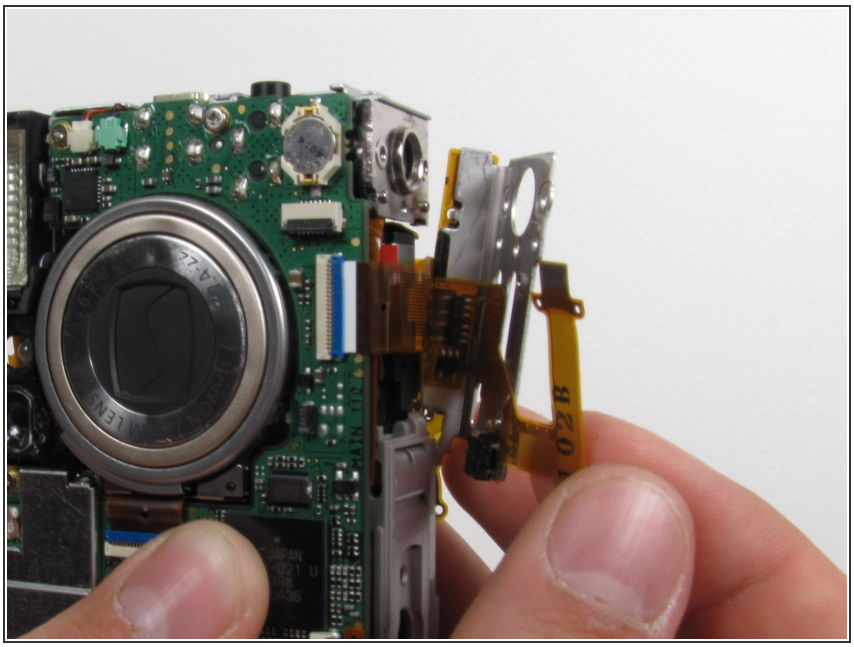
- Place the Spudger between the orange ribbon and the black ribbon gate.
- Lift the ribbon gate using the Spudger.

Step 11



- Place the Spludger in the corner of the ribbon above the hole.
- Remove the ribbon from the ribbon gate by pulling the Spudger away from the gate.

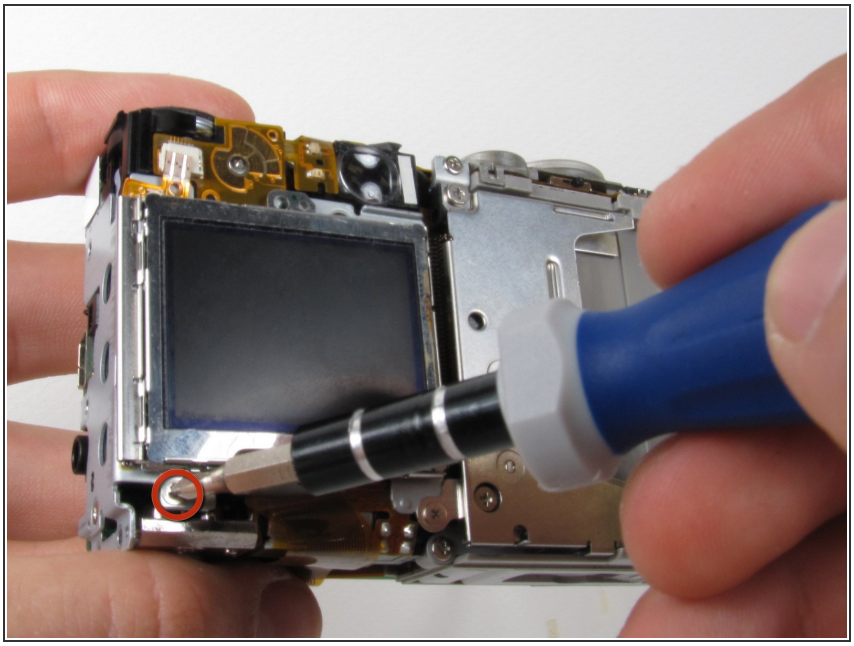
Step 12



- Free this ribbon and the bottom panel from the rest of the camera.

⚠ Be careful not to damage the ribbon.

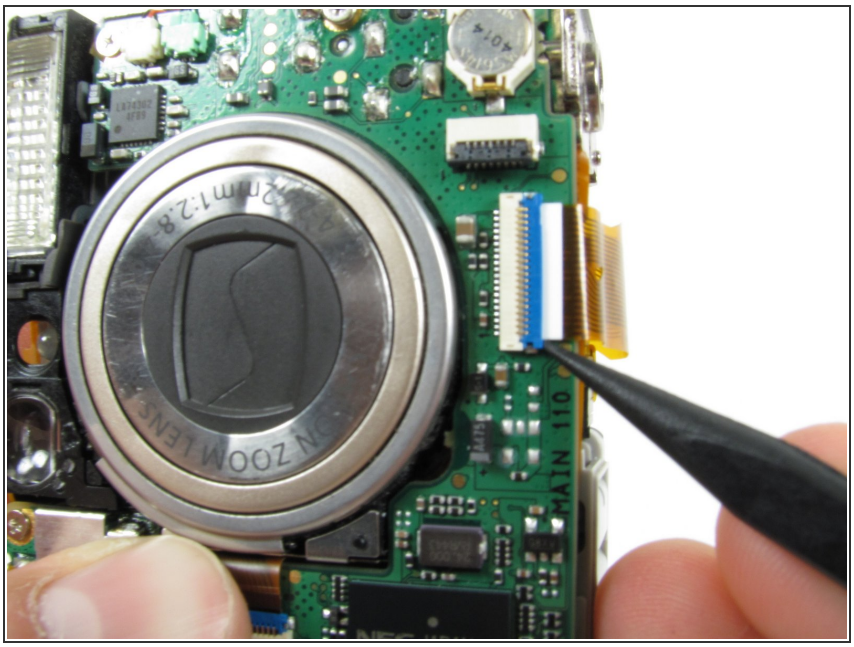
Step 13



- Turn the camera over so you can see the LCD.
- Remove single Phillips screw below the LCD using a #0 Phillips screwdriver.

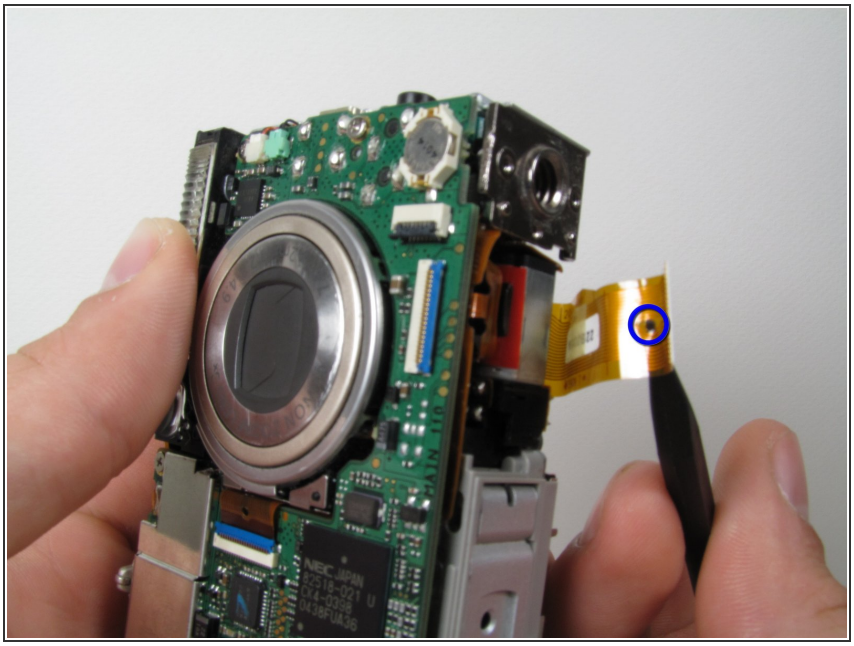
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Step 14



- Lift the blue ribbon gate using the Spudger.

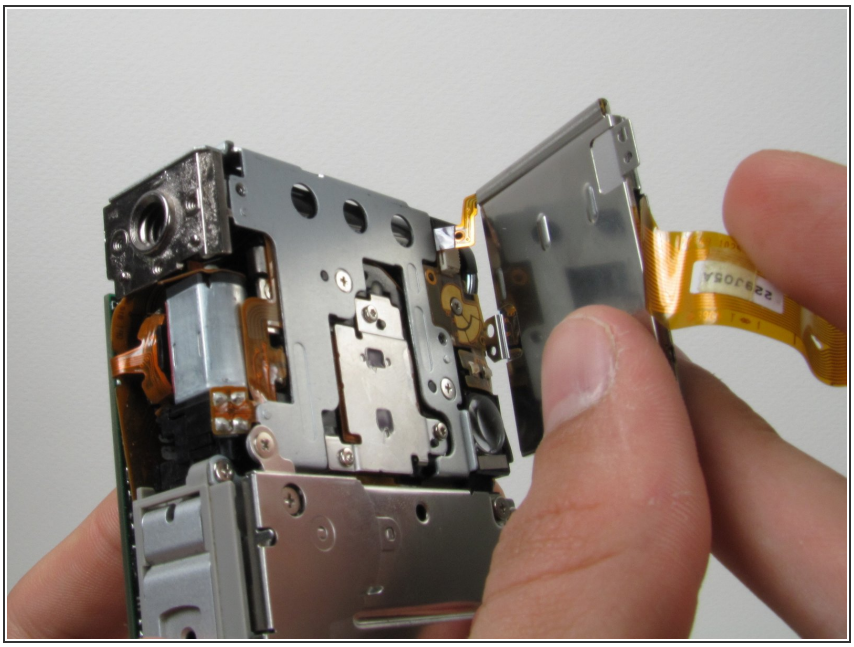
Step 15



- Insert the Spudger into the hole of the ribbon.
- Move the Spudger away from the gate to fully remove ribbon.

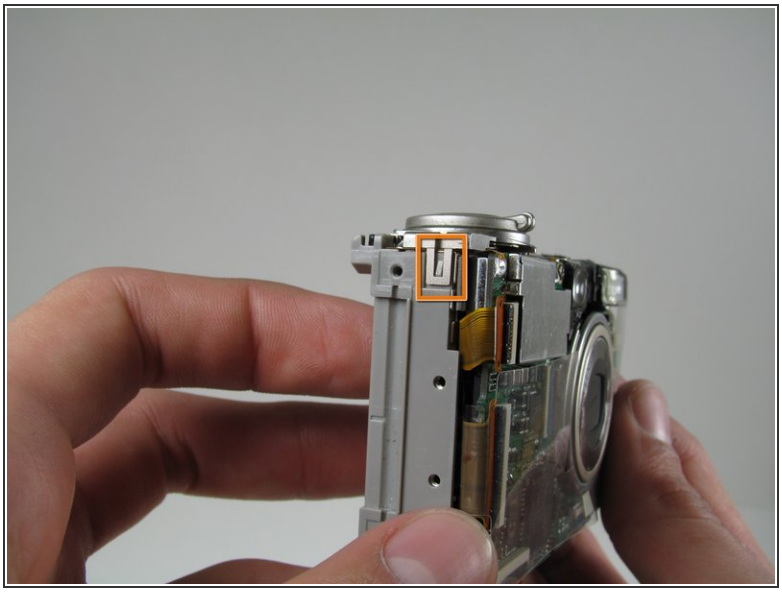
⚠ Be careful not to damage the ribbon.

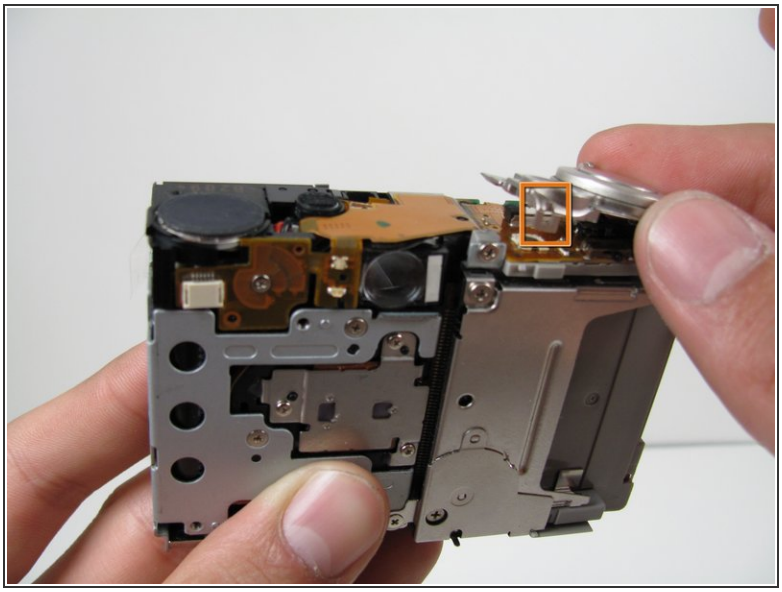
Step 16



- Lift the LCD away from the rest of the camera.

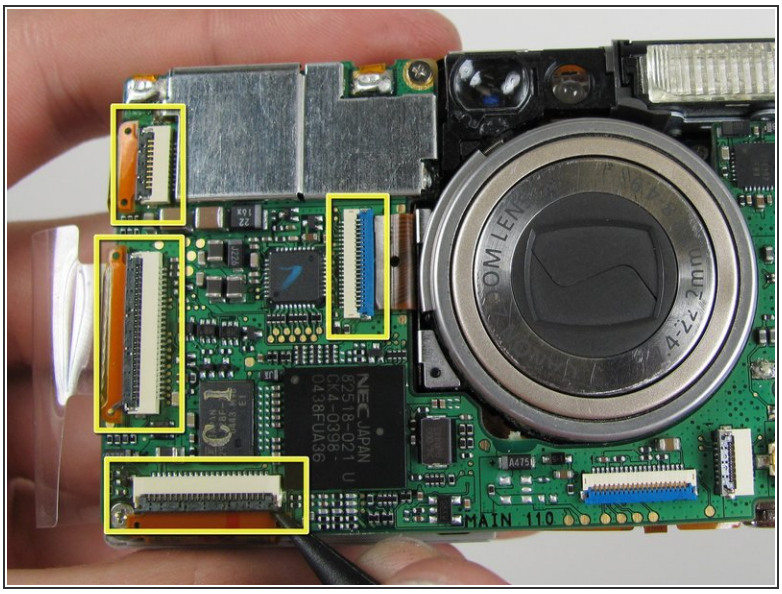
Step 17

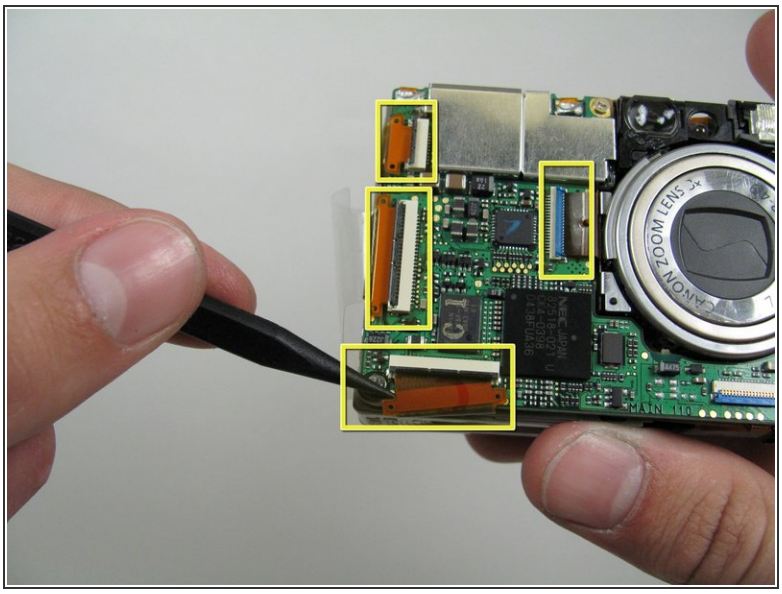




- Lift off the capture button by wiggling it back and forth while pulling upward.
- Be careful not to damage the two clips.

Step 18





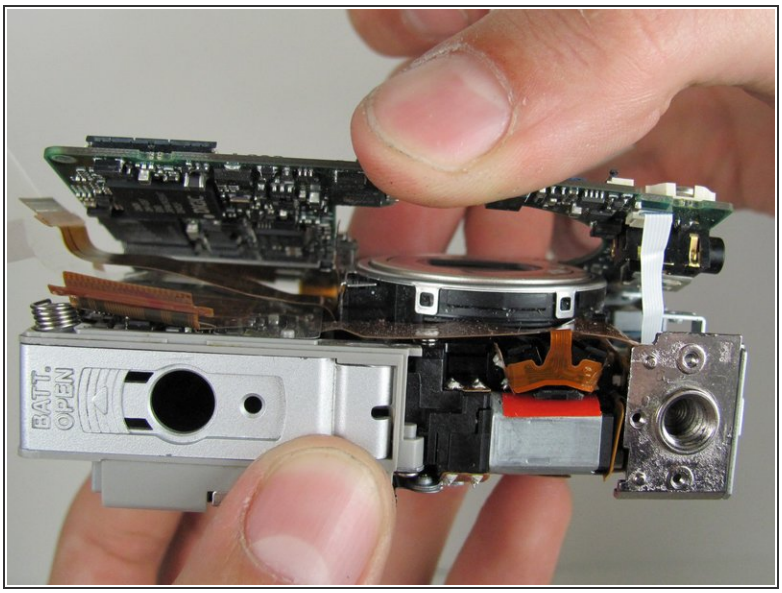
- Flip open the four ribbon gates using the Spudger.
- Gently pull out the ribbon cables from the gates using the Spudger.

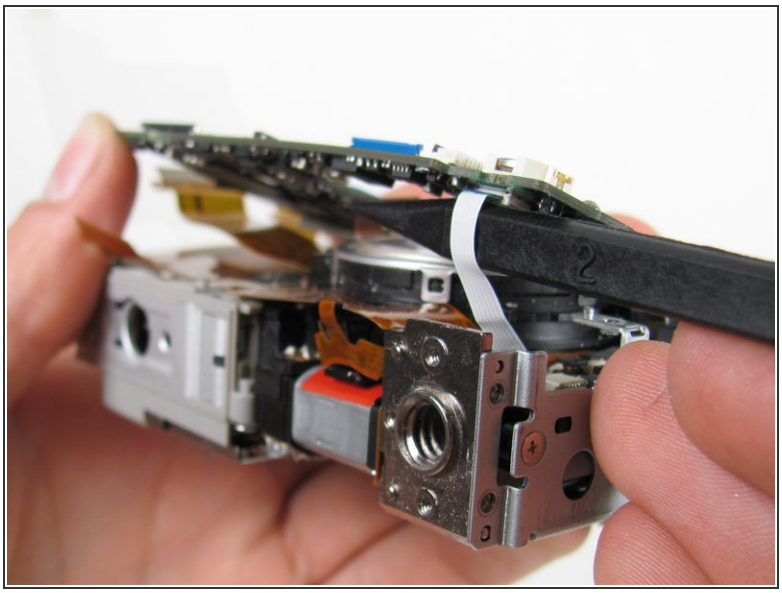
Step 19



- Unscrew the four Phillips screws using a #0 Phillips screwdriver.

Step 20





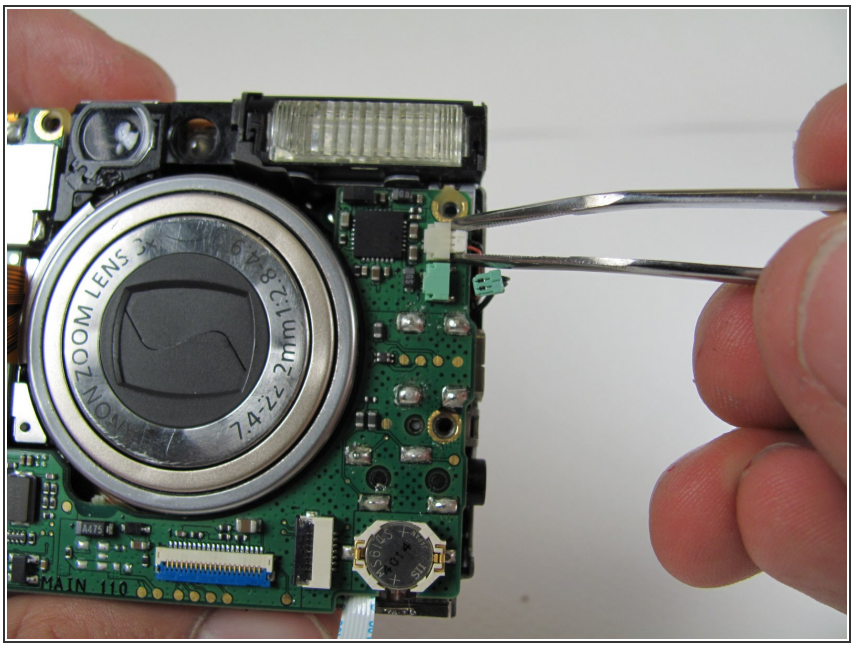
- Gently lift the the logic board.

⚠ Be careful not to pull too hard and damage the white ribbon cable.

- Place the Spudger so that it is between the logic board, the white ribbon cable, and the rest of the camera.
- Remove the white ribbon cable by pulling the Spudger away from the camera, keeping it parallel to the logic board.

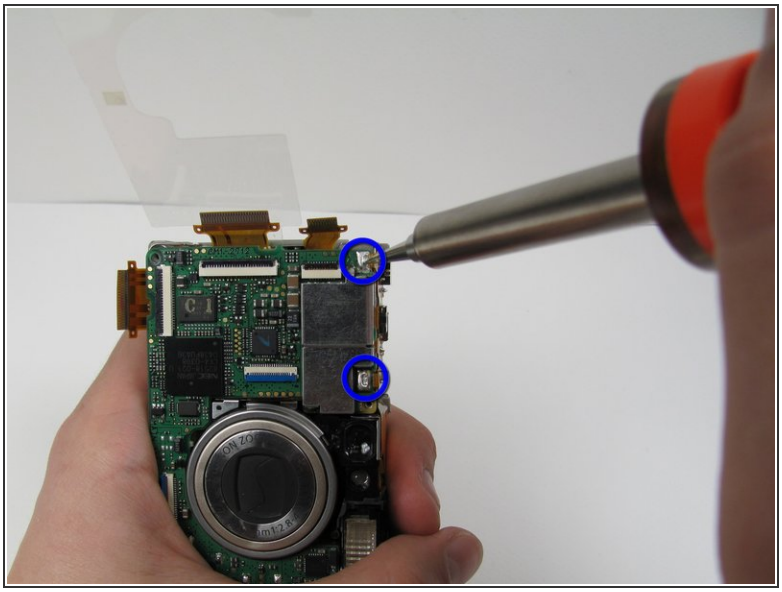
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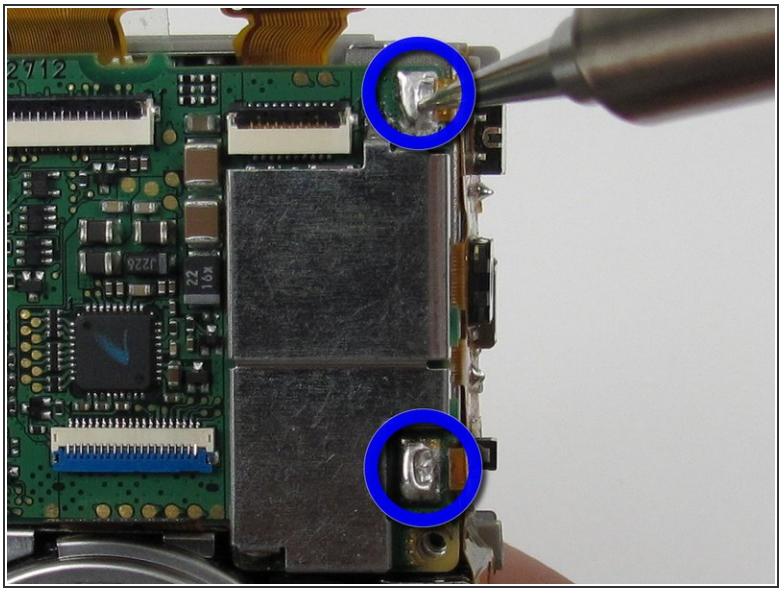
Step 21



- Lay the logic board back down so that it is resting on the body of the camera.
- Pull the two plugs (white and green) out to the right from the logic board using the tweezers.

Step 22



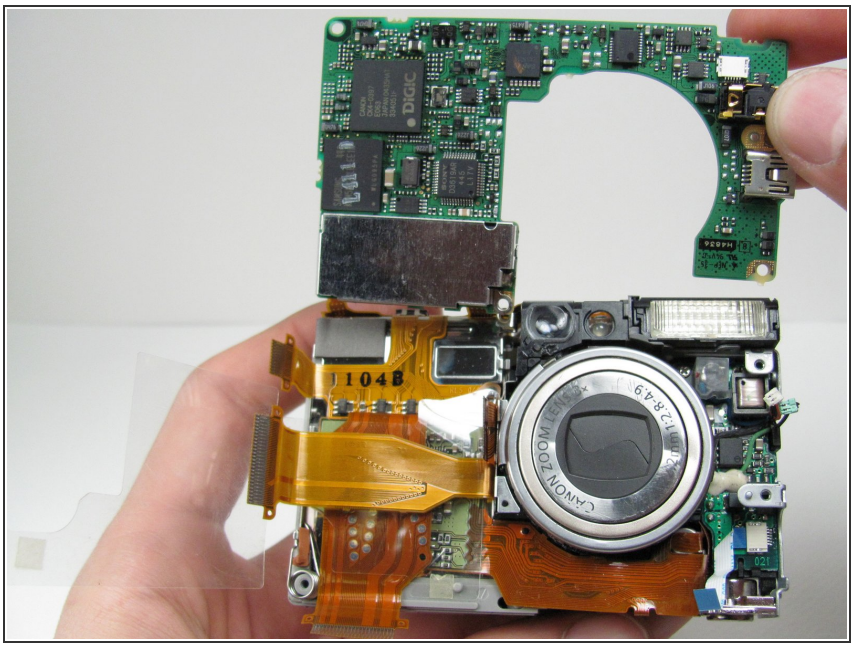


We're now ready to begin the desoldering process. You'll need a soldering iron, solder, and desoldering wick. You should be able to find these items at a Radio Shack if you don't already have them.

Please do not perform this step if you are not comfortable or have previous experience with soldering. Doing so, could cause severe damage to your camera.

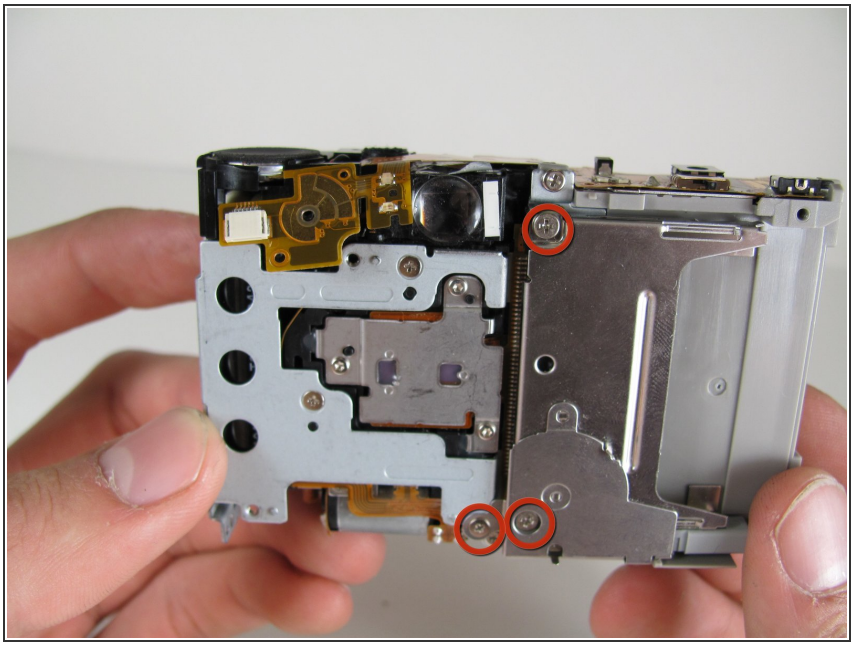
- Desolder the two soldered ribbon cables attached to the logic board.

Step 23



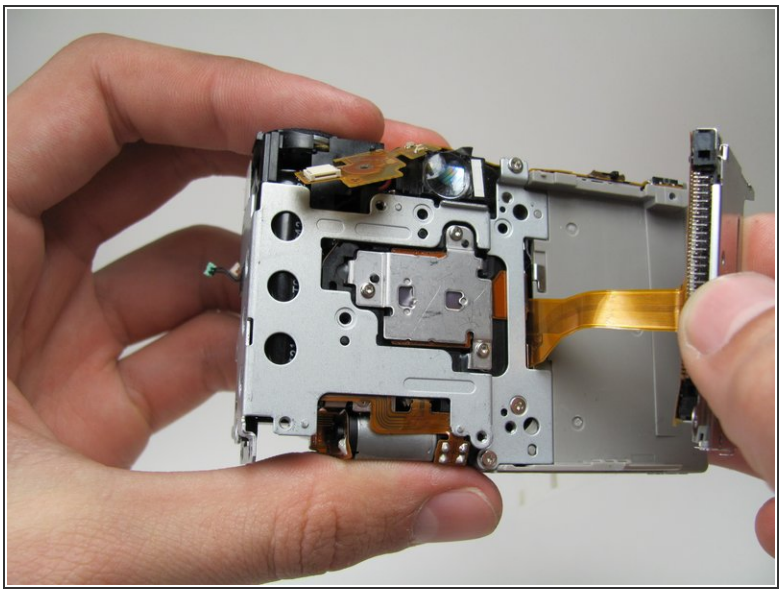
- Free the logic board from the rest of the camera.

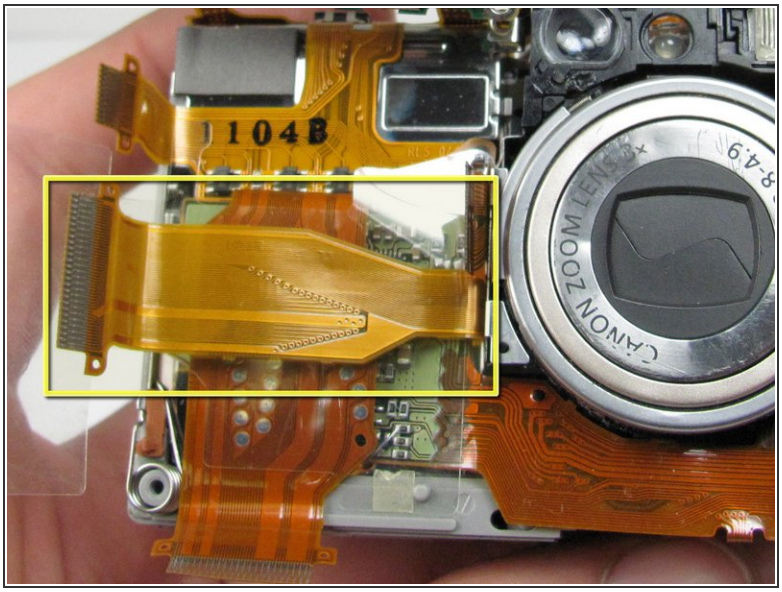
Step 24



- Turn the camera over so that the back is facing you.
- Unscrew the three Phillips Screws using a #0 Phillips screwdriver.

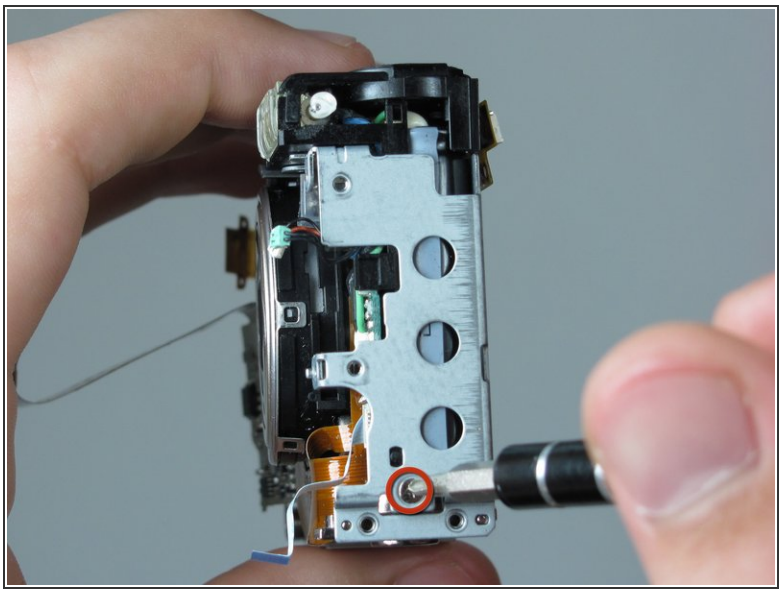
Step 25

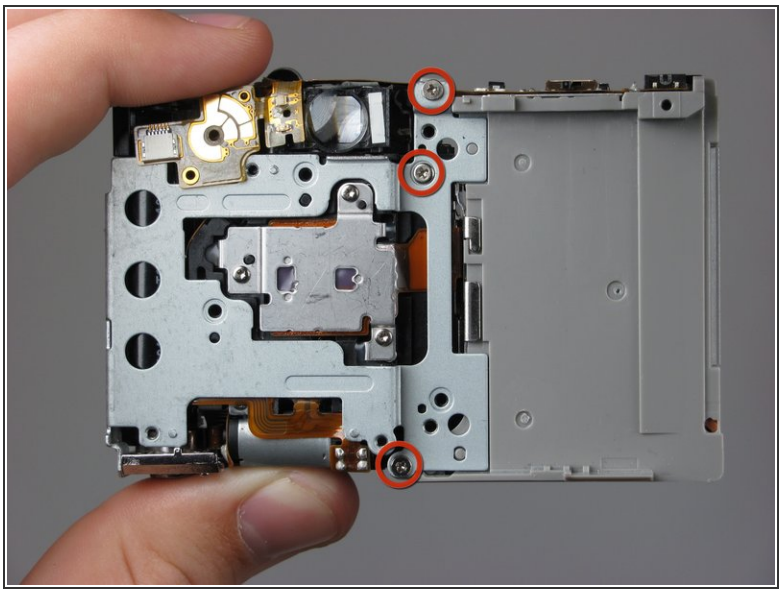




- Lift off the Memory Card casing, sliding the ribbon cable through the camera. Keep pulling until the Memory Card and ribbon cable have been removed from the camera.
- Note that the ribbon cable is coming from the external front portion of the camera. Make sure that the ribbon cable will not get caught on anything.

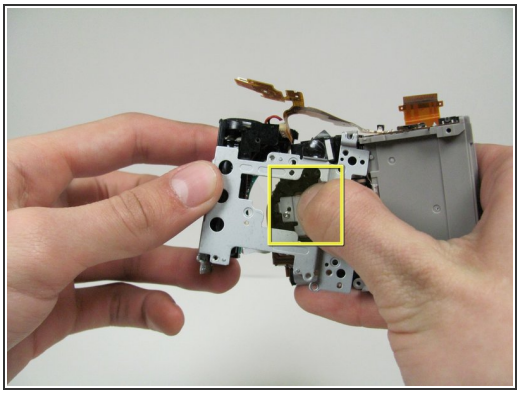
Step 26

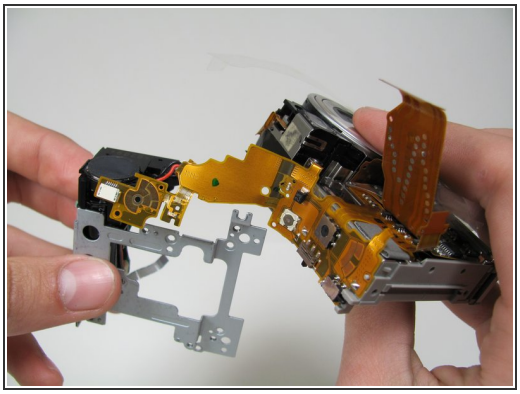


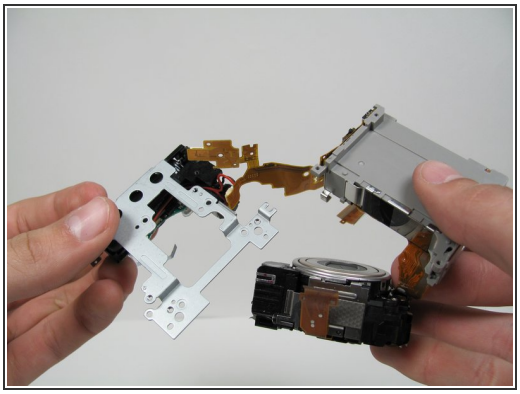


- Unscrew one Phillips screws from the side and three Phillips screws from the back panel using a #0 Phillips screwdriver.

Step 27





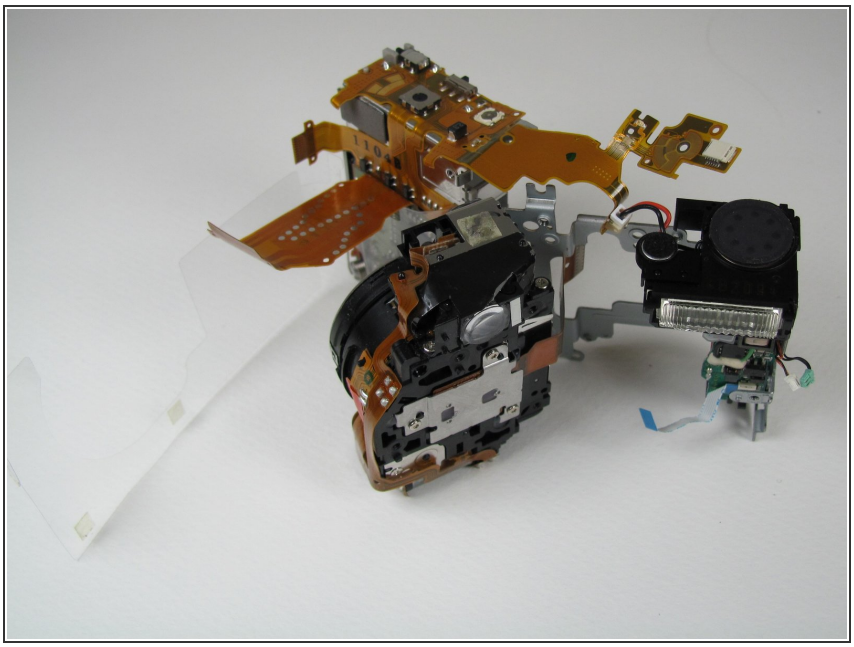


- Firmly push on the back of the zoom lens, removing it from the left portion of the camera.
- Lift the zoom lens away from the left portion of the camera so that there are three components connected by a ribbon cables.

⚠ Be careful not to tear the ribbon cables.

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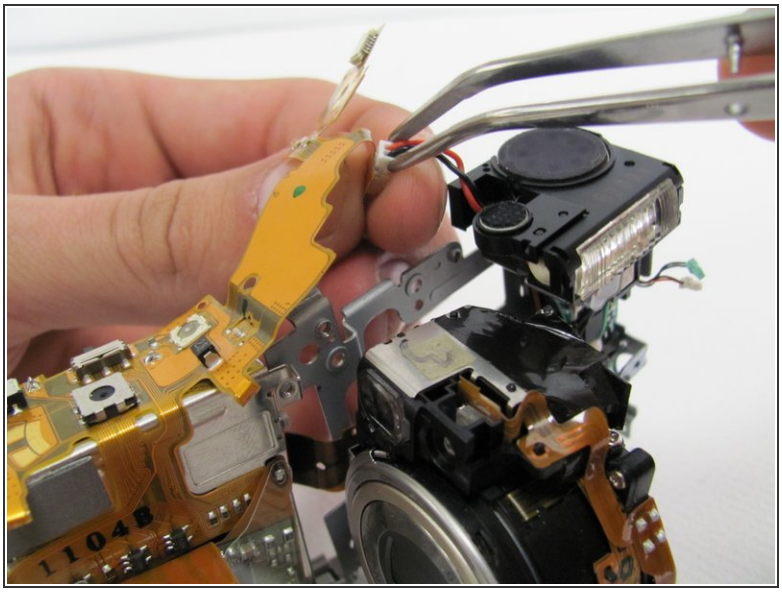
Step 28

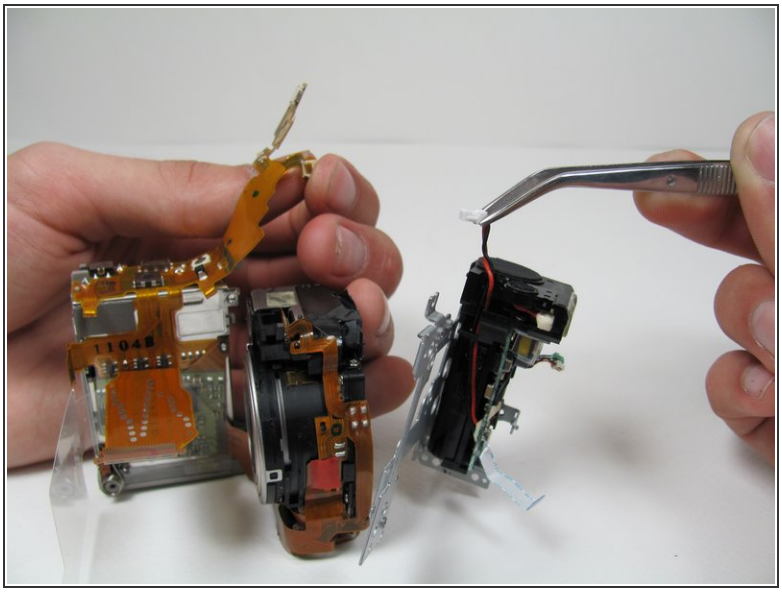


- The camera should now be able to be set in this orientation without too much stress on the cables.

ⓘ The clear plastic is still attached to the battery casing.

Step 29

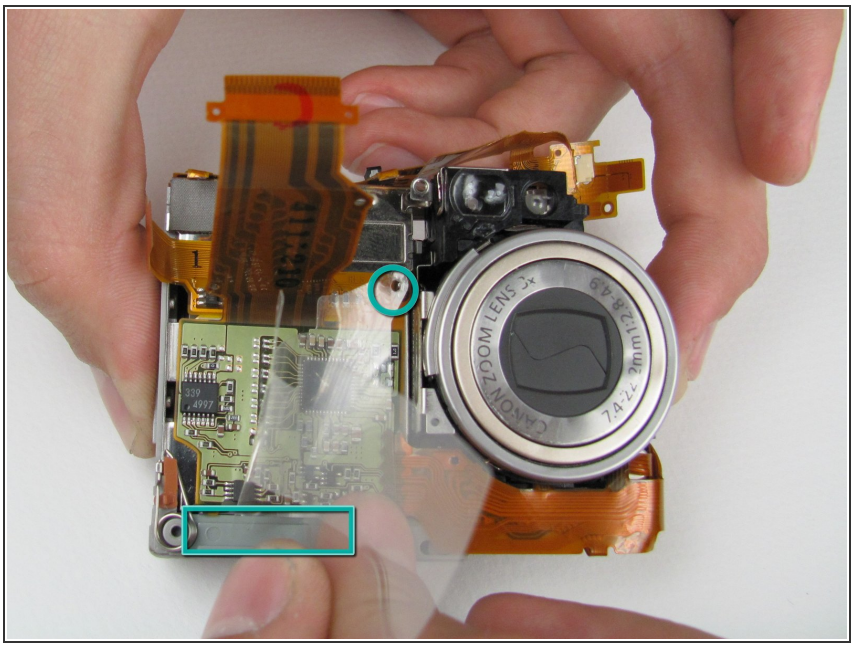




- Locate the ribbon cable going from the battery case to the flash assembly.
- Remove the plug from the ribbon cable using the tweezers.

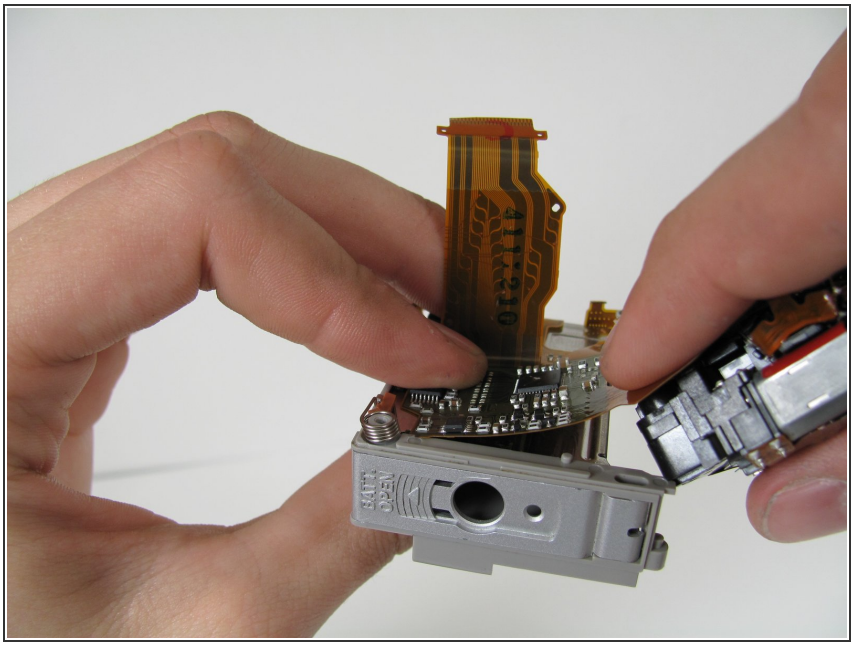
ⓘ The flash assembly is now free from the rest of the camera.

Step 30



- Pick up the remaining battery casing and zoom lens.
- Pull off the clear plastic.
- The clear plastic is secured by adhesive along the bottom edge and a small hook.

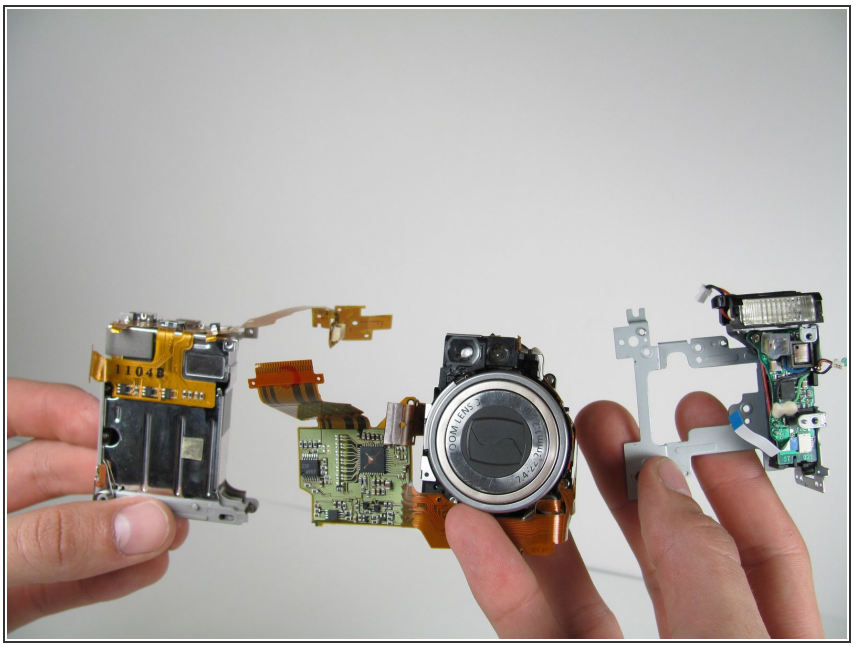
Step 31



- Lift the zoom lens off of the battery casing.

The back of the circuits are attached to the battery casing by a light adhesive, which can be removed with a slight pull upwards.

Step 32



- The remaining pieces from left to right are: the battery casing, zoom lens and flash assembly.

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