



Canon PowerShot SD850 IS Motherboard Replacement

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INTRODUCTION

Use this guide to remove a broken Motherboard from your Canon PowerShot SD850 IS.

TOOLS:

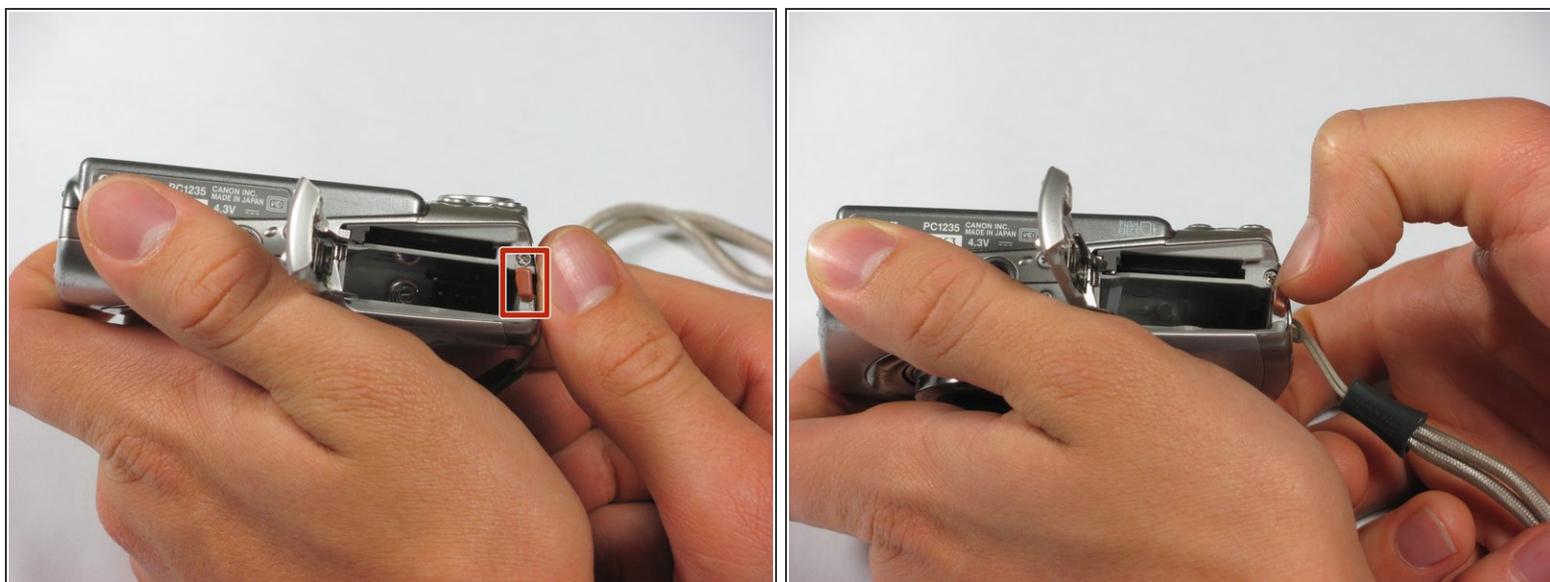
- [iFixit Opening Tools](#) (1)
 - [Tweezers](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
 - [Flathead 3/32" or 2.5 mm Screwdriver](#) (1)
 - [Spudger](#) (1)
-

Step 1 — Battery



- Slide the light grey tab toward the edge of the camera using your fingernail.
- Pull the light grey tab up to open the door.
- ⓘ These photos do not show the camera's memory card or battery, which should be visible inside.

Step 2



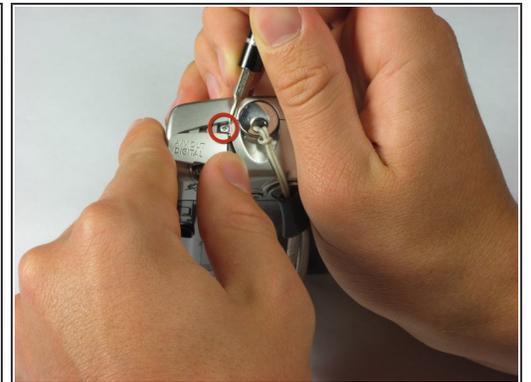
- Slide the small brown tab toward the edge of the camera using your fingernail.
 - Let go of the brown tab when the battery pops up.
 - Grab battery and pull straight up to remove from holder.
- ☞ When inserting the battery, orient it so that the terminals connect.

Step 3 — Case



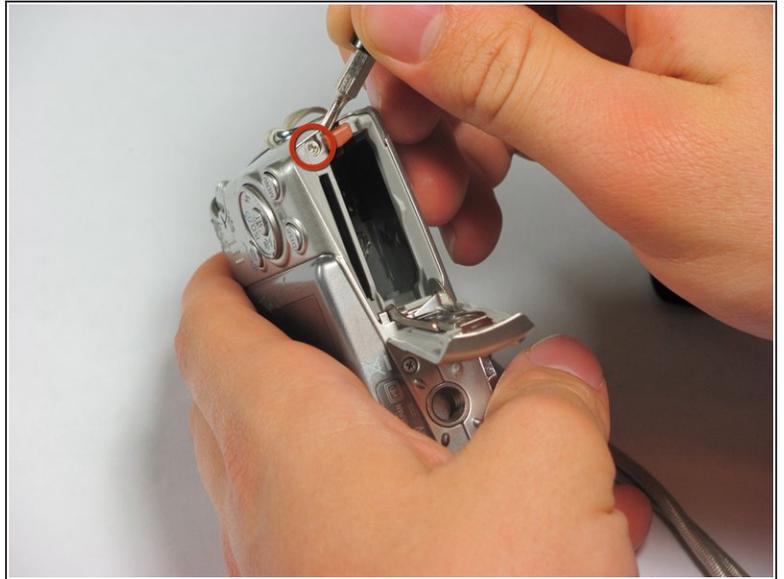
- Remove the following 4 screws:
 - Two 2.8 mm Phillips #00 at the bottom of the camera.
 - Two 2.75 mm Phillips #00 on the opposite side of the wrist strap.

Step 4



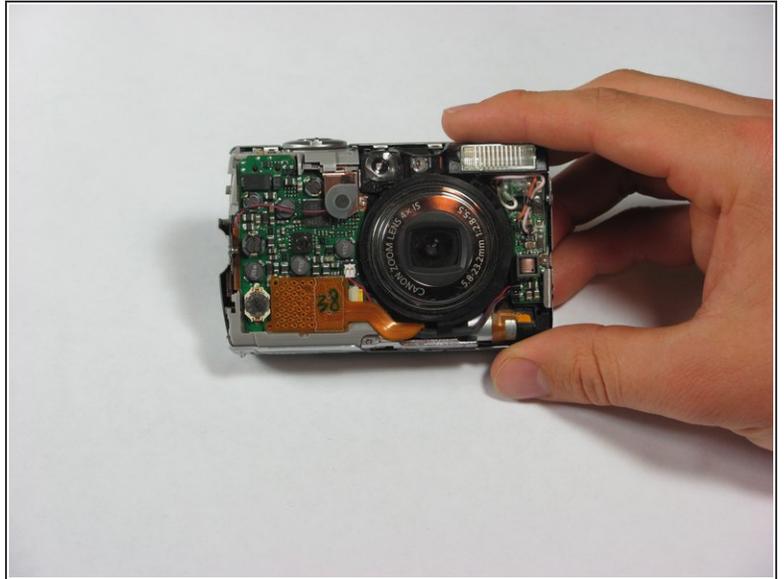
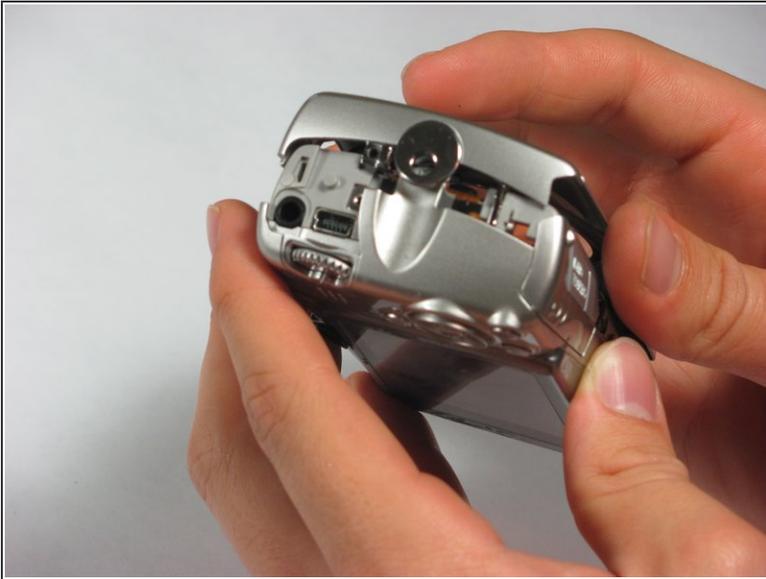
- Open the A/V OUT DIGITAL flap on the side of the wrist strap.
- Remove the 2.75 mm Phillips #00 under the A/V OUT DIGITAL flap on the side of the wrist strap.

Step 5



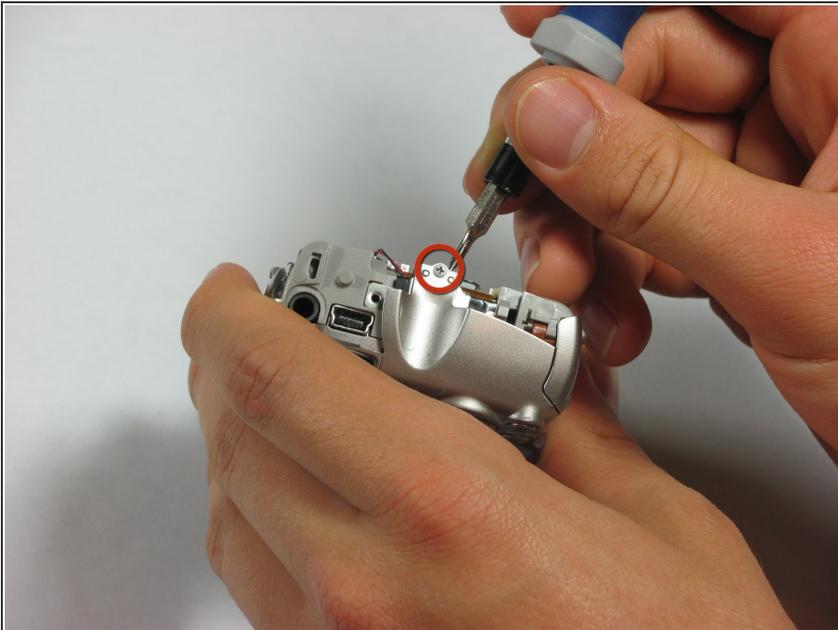
- On the bottom of the camera, use your fingernail to slide the light gray tab towards the edge of the camera.
- Slide light gray door and pull up to open the door.
- Remove the 8.35 mm Phillips #00 next to the brown tab that holds the battery.

Step 6



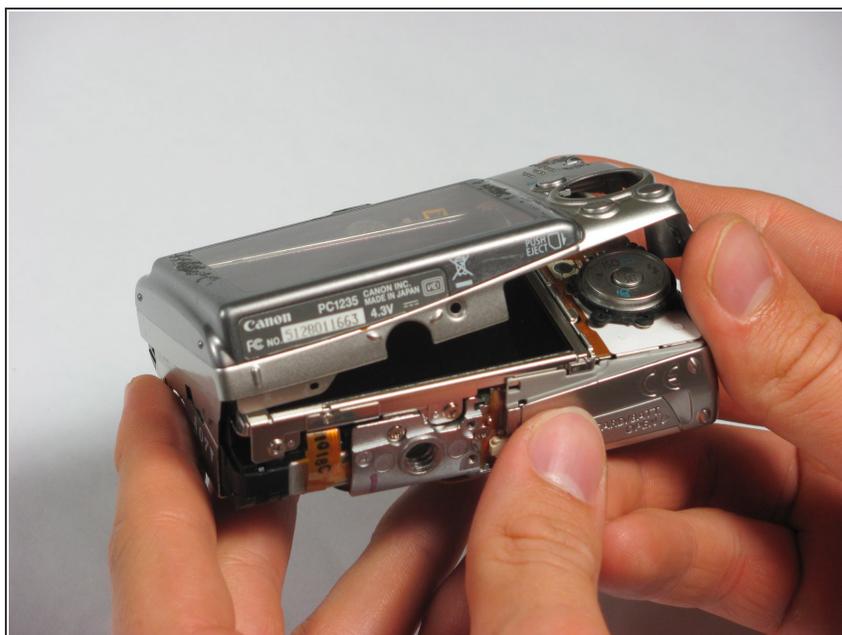
- Gently pull the front cover straight out from the camera. This will expose the wiring on the front of the camera.

Step 7



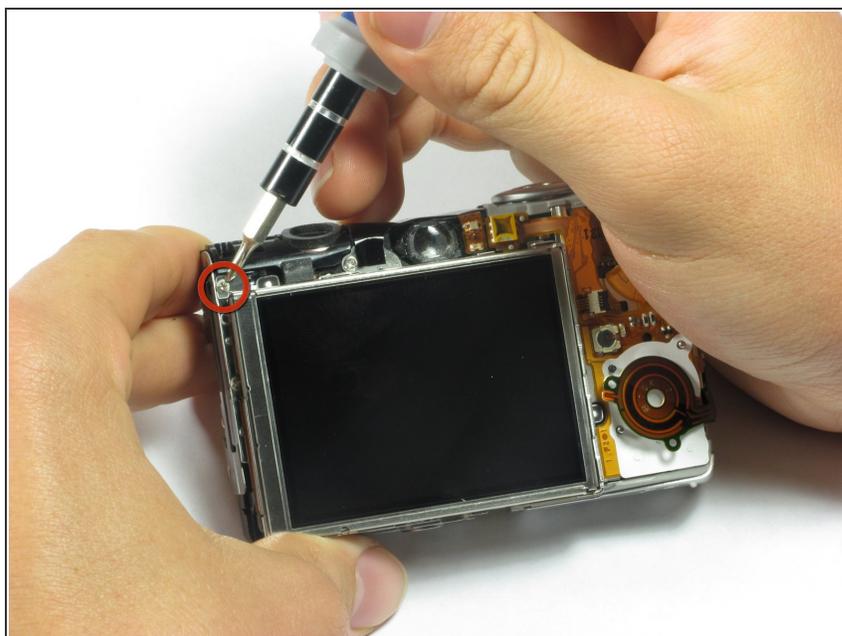
- Remove the 2.75 mm Phillips #00 next to A/V OUT DIGITAL.

Step 8



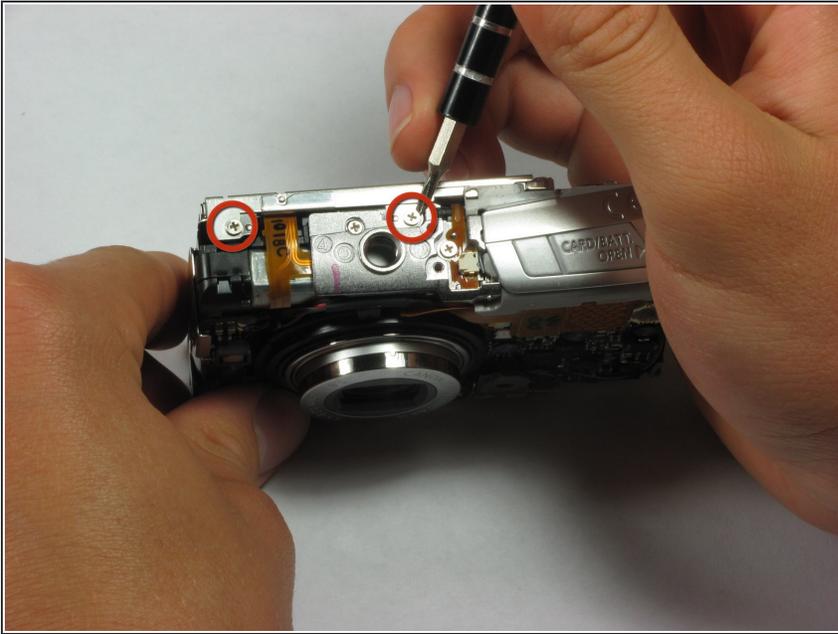
- Slide the back casing (with the screen protector) off to reveal the LCD and back wiring.

Step 9 — LCD Screen



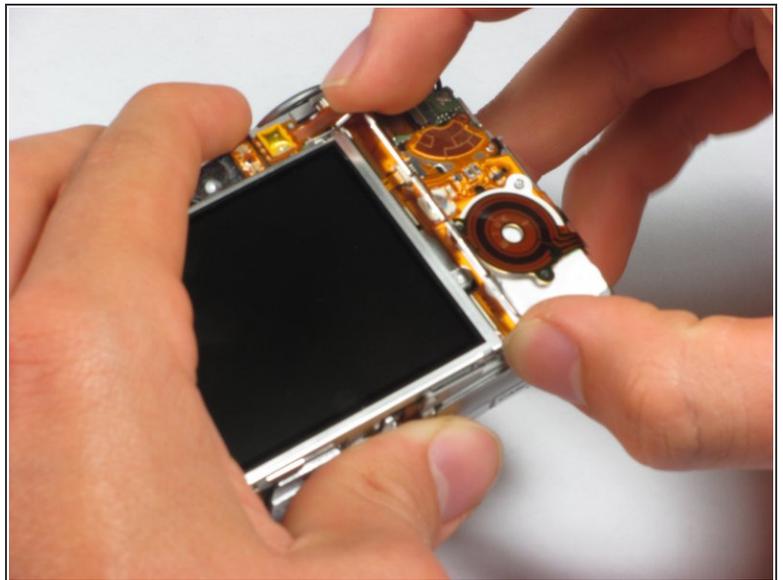
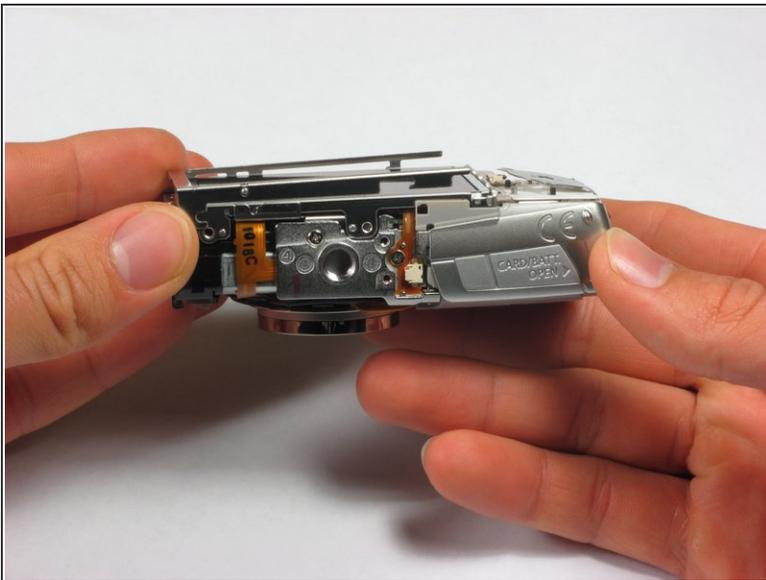
- Remove the 1.75 mm Phillips #00 located at the top left of the LCD screen.

Step 10



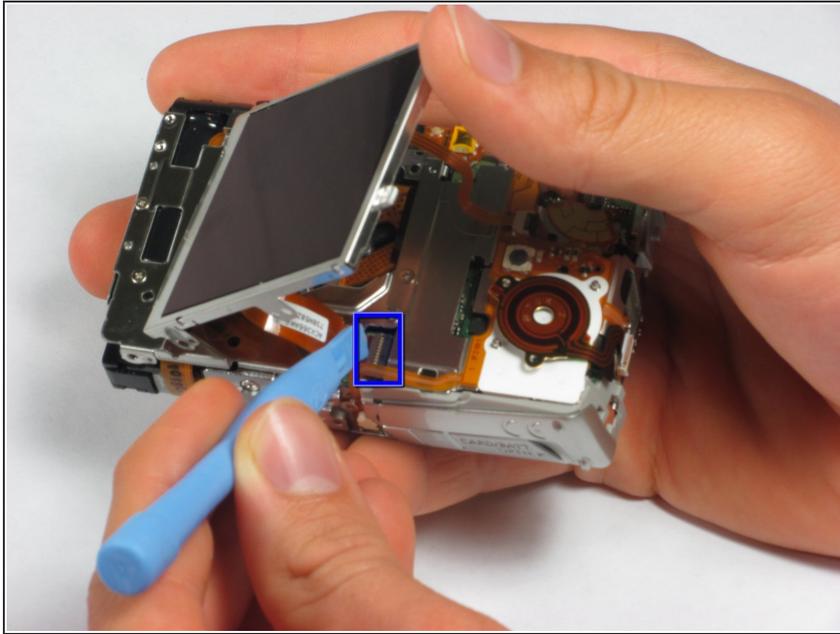
- Remove the two 3.4 mm Phillips #00 located at the bottom of the camera.

Step 11



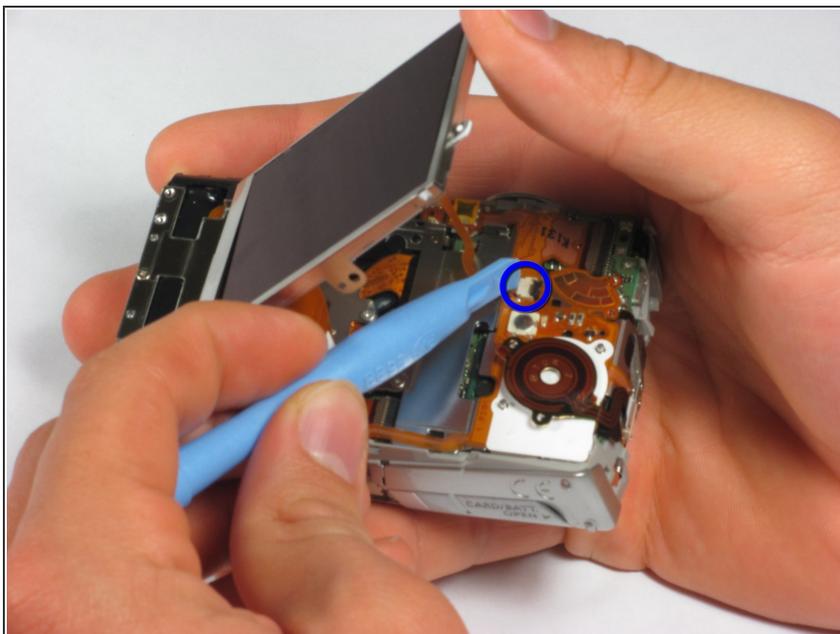
- Remove the two metal frames that hold the LCD panel in place.

Step 12



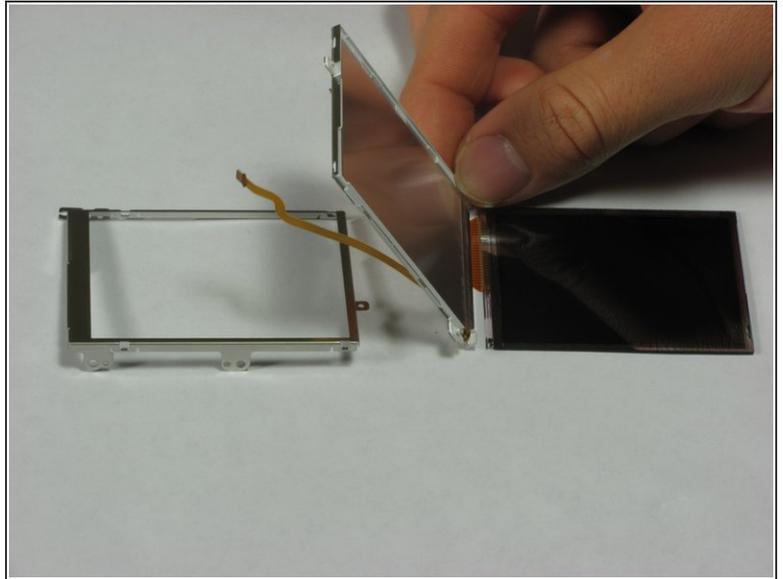
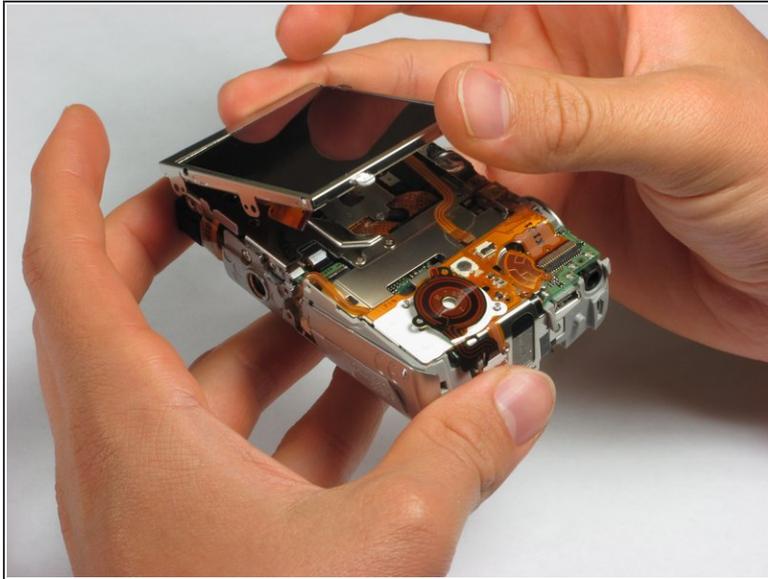
- The LCD screen should now only be attached by two LCD data cables.
- Lift the screen from the left side and use a spudger or a small flat head screwdriver to flip the black portion of the connector upward to unlock it.
- Carefully slide the data cable out of the connector.

Step 13



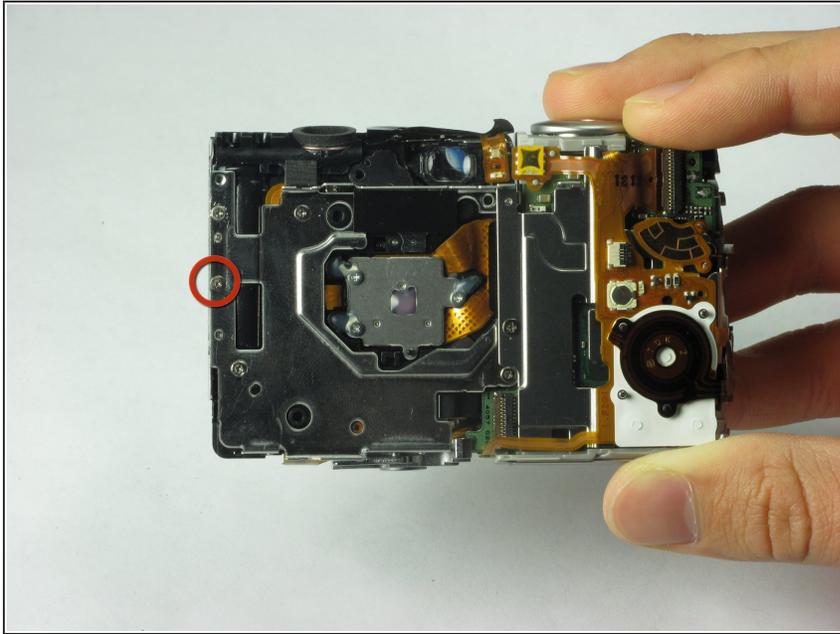
- The LCD should still be connected by the backlight cable.
- To remove the backlight cable, use a spudger or a small flat head screwdriver to unlock the backlight cable.
- Carefully slide out the backlight cable.
- The LCD screen can now be fully detached from the camera body.

Step 14



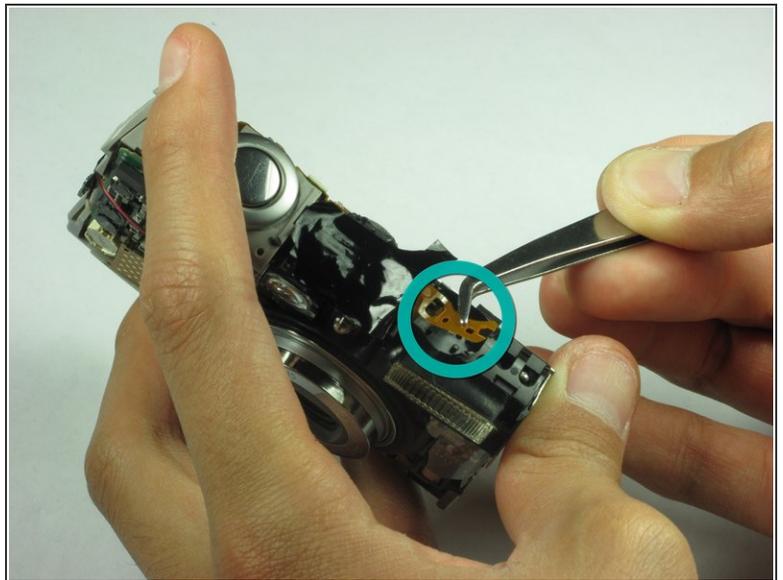
- The LCD screen and housing are now in three pieces:
 - LCD screen
 - LCD screen frame
 - LCD back housing
- The LCD screen itself can now be removed and fixed/replaced.

Step 15 — Flash Unit



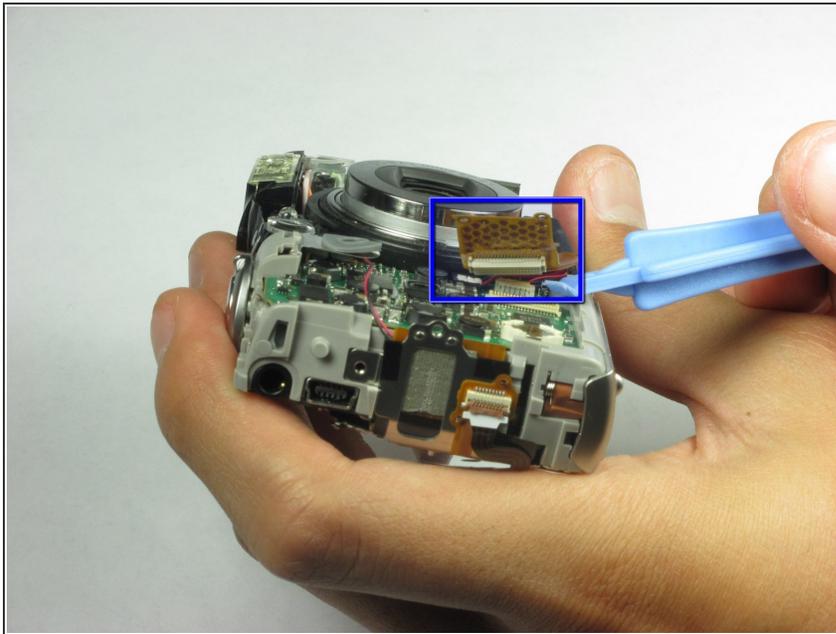
- Remove the 1.85 mm #00 Phillips located on the left side of the camera.

Step 16



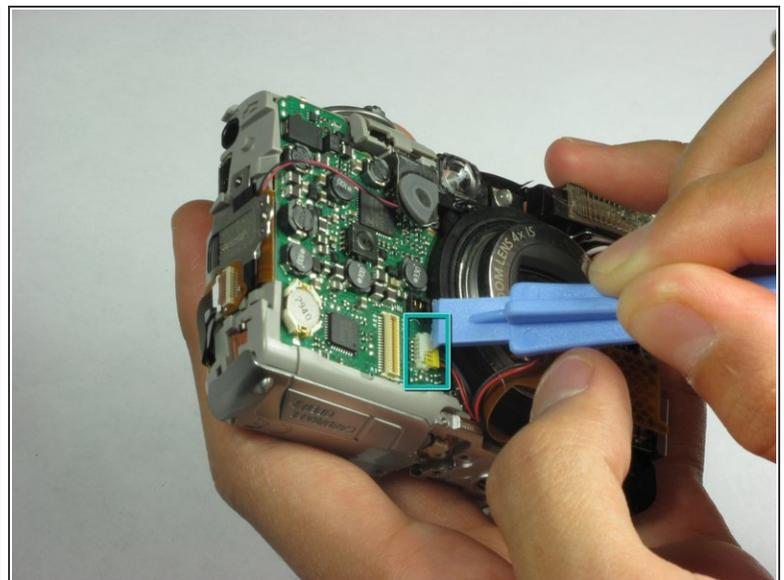
- Use a set of tweezers to remove the speaker located at the top of the camera on the flash unit.
- Next use the tweezers to carefully remove the speaker cable off its respective holders.

Step 17



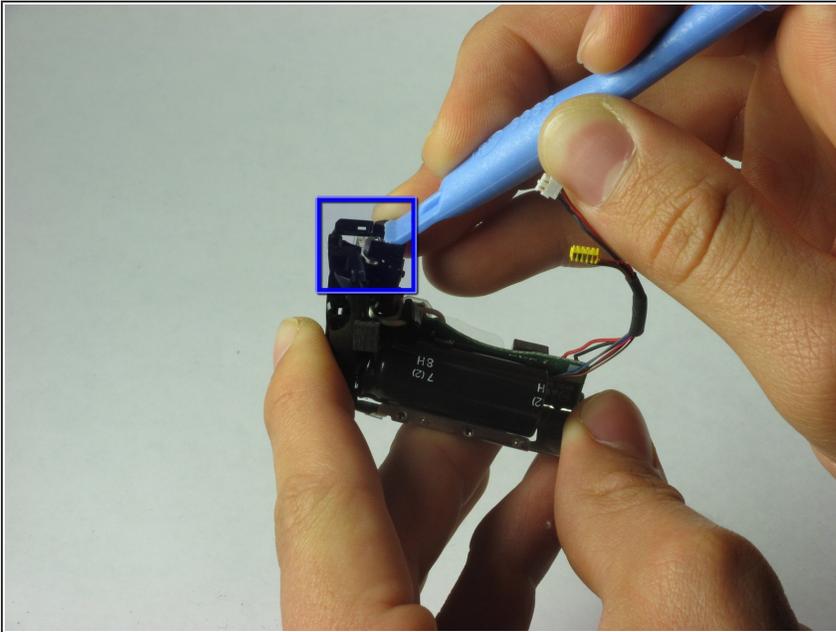
- Use a spudger or a flathead screwdriver to remove the camera lens cable located in the front of the camera.

Step 18



- Use a spudger or a flathead screwdriver and carefully pry out the first flash cable from the bottom of the cable. The white 2 prong power cable pops UP (use spudger below red/black insertion and put upward pressure). For the yellow one, apply pressure horizontally.
- Next use a spudger or a flathead screwdriver and carefully pry out the second flash cable.

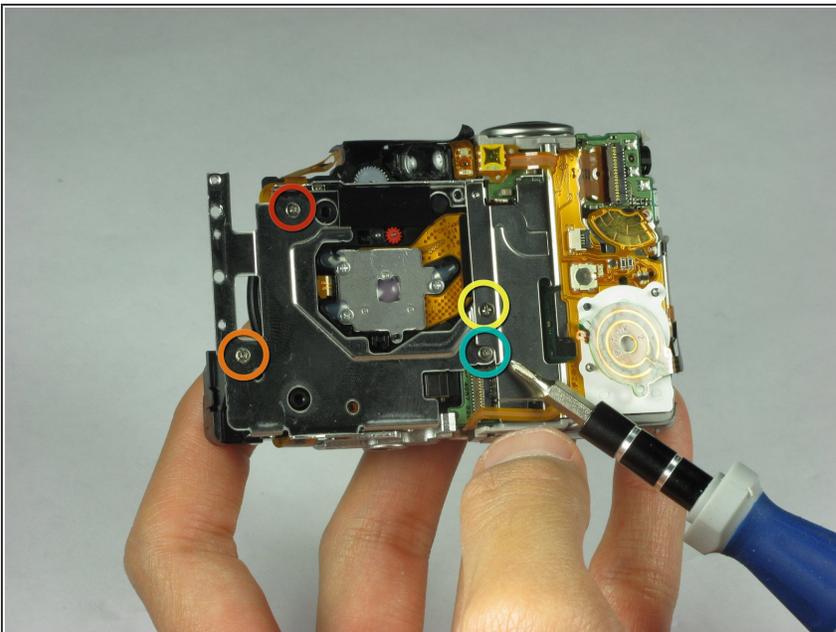
Step 19



- Gently remove the flash component from the rest of the camera.
- Use a spudger or a flathead screwdriver and carefully pry off the plastic piece on top of the flash unit.
 - The flash unit can now be removed and replaced.

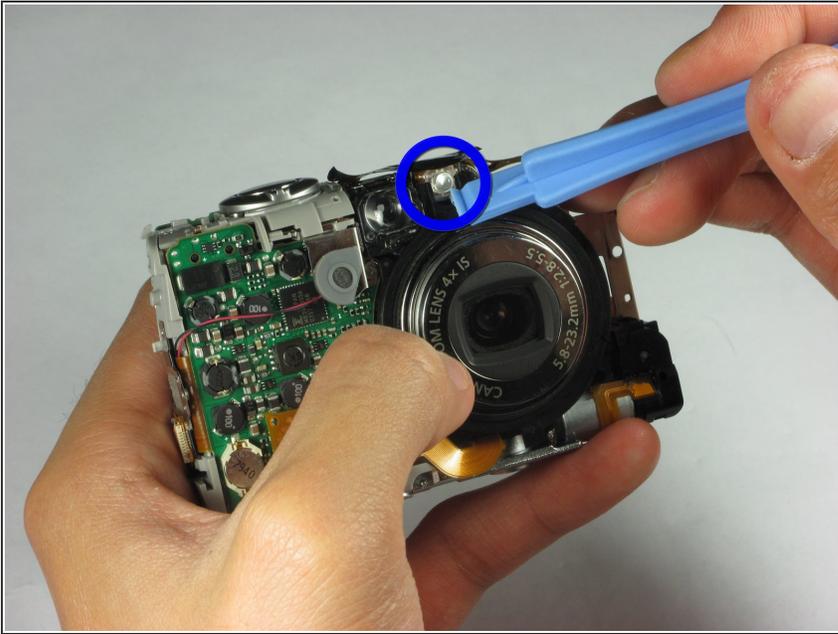
 Be careful not to touch the capacitor attached to the flash unit as it may still be holding a charge!

Step 20 — Camera Lens



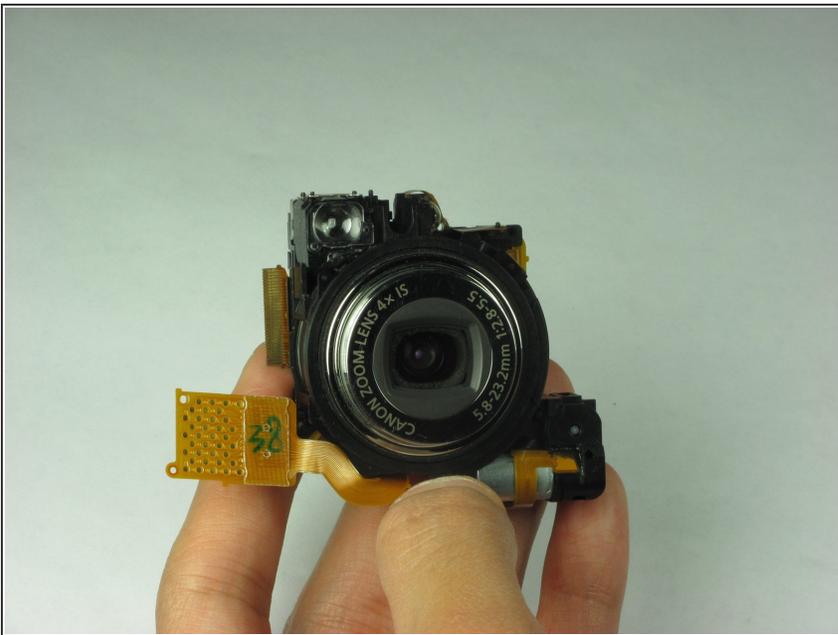
- Remove four screws located on the back of the camera:
 - 6.15 mm #00 Phillips
 - 2.75 mm #00 Phillips
 - 2.15 mm #00 Phillips
 - 2.7 mm #00 Phillips

Step 21



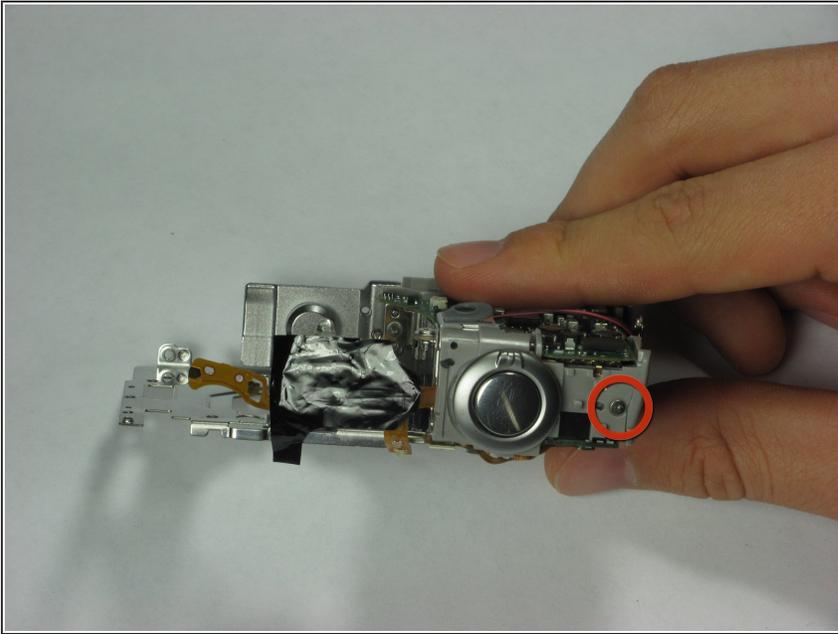
- Use a spudger or a flathead screwdriver and carefully pry out the bulb located in the front of the camera on top of the camera lens.

Step 22



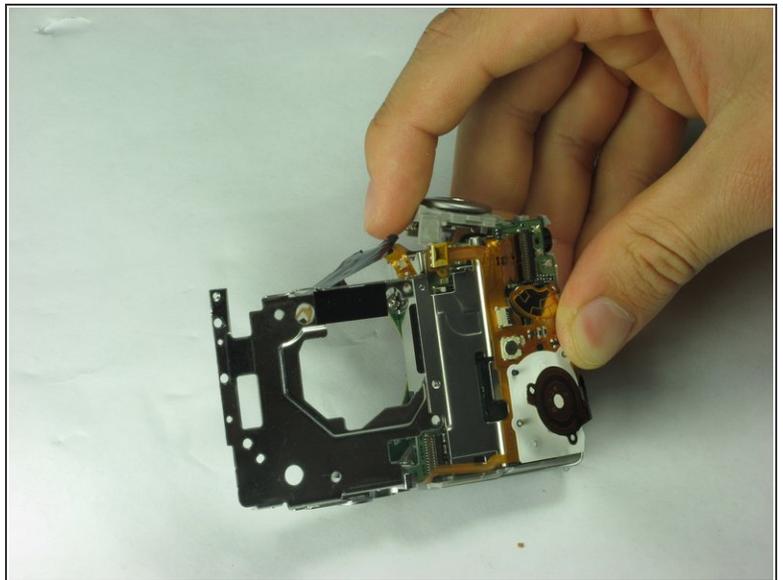
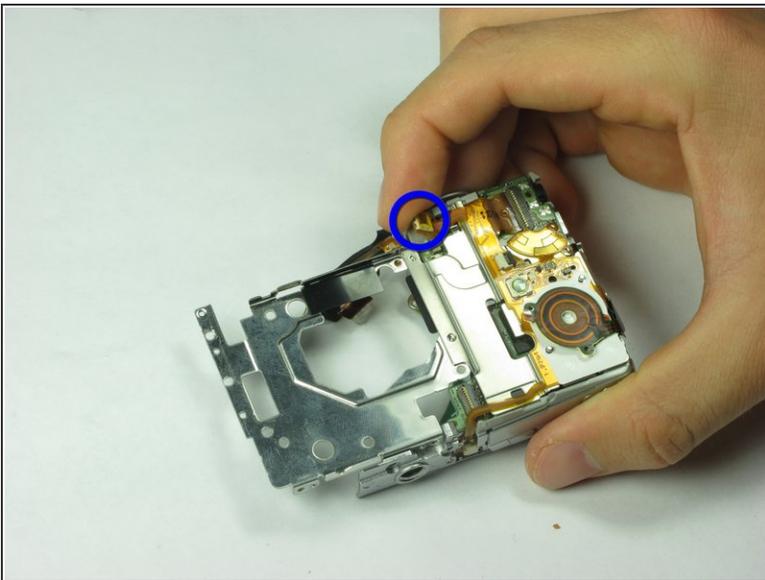
- Gently remove the camera lens from the rest of the camera.

Step 23 — Motherboard



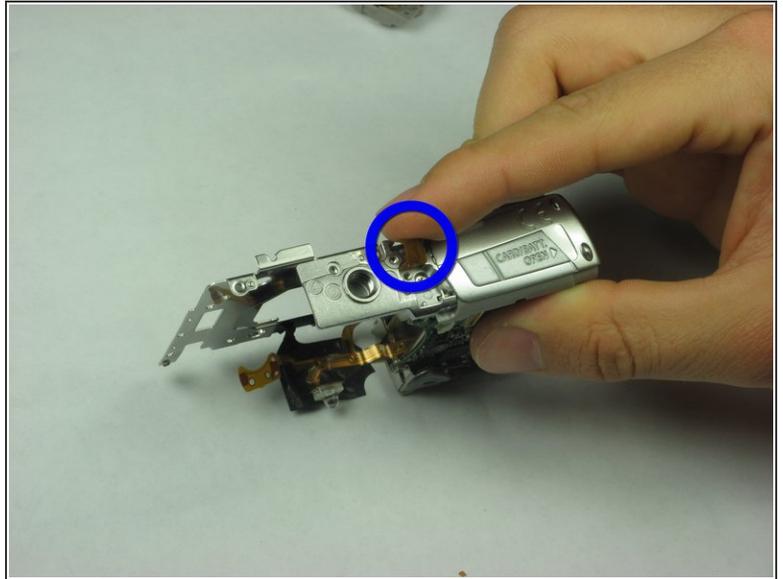
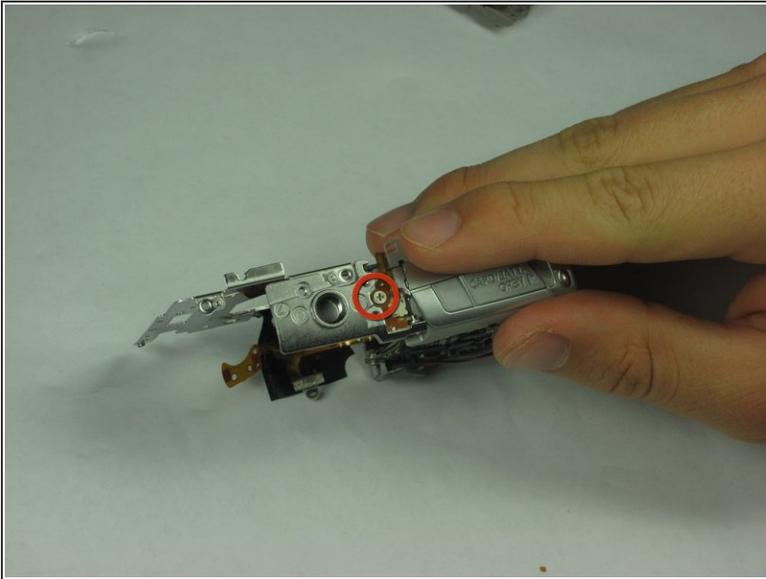
- Remove the 2.6 mm Phillips #00 located near the shutter release button.

Step 24



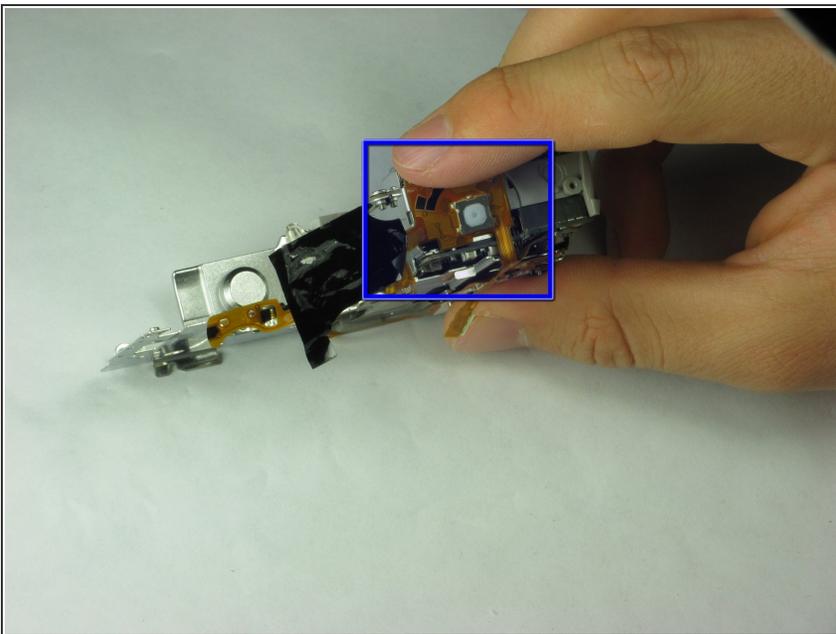
- Use a prying device or your fingers to release the ribbon from its holder.
- Gently remove the shutter release component from the camera.

Step 25



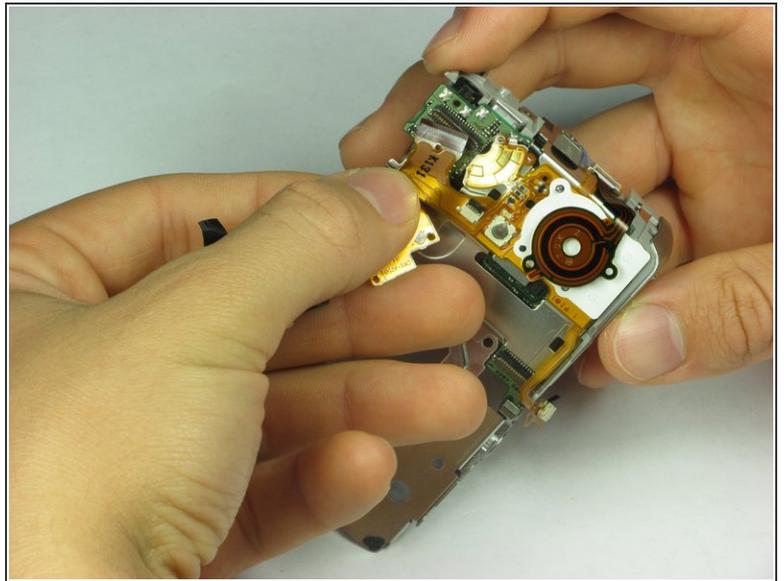
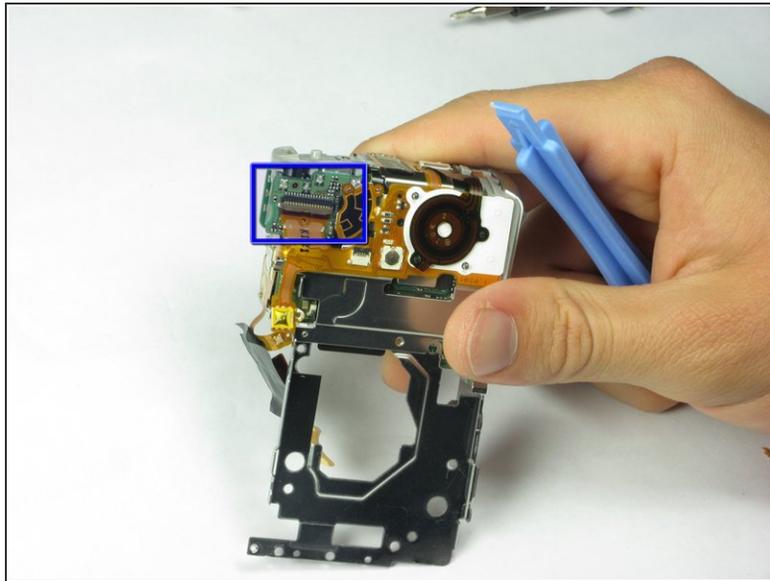
- Remove the 3.4 mm Phillips #00 located under the camera.
- Next use a prying device or your fingers to release the power trigger cable from its holder.

Step 26



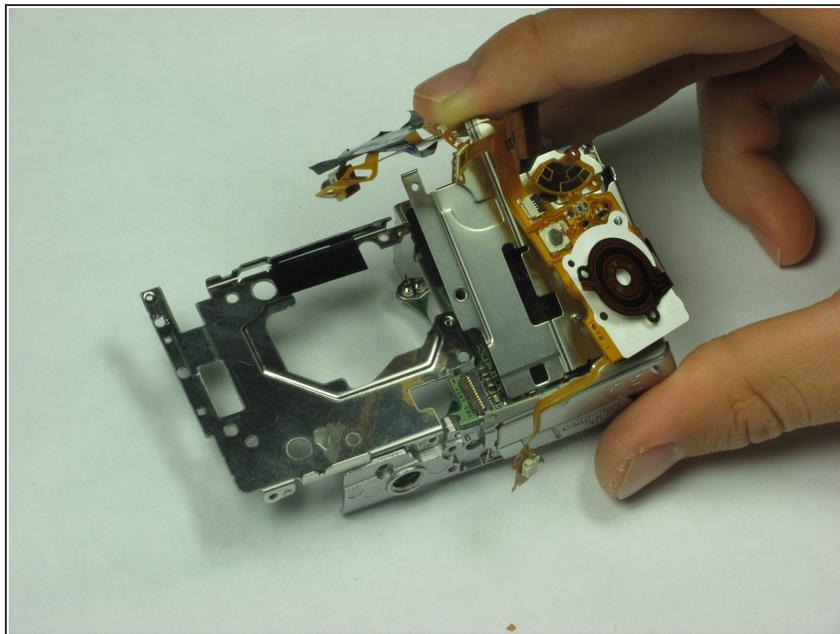
- Use a prying device or your fingers to release the ribbon from their respective holders located at the top of the camera.

Step 27



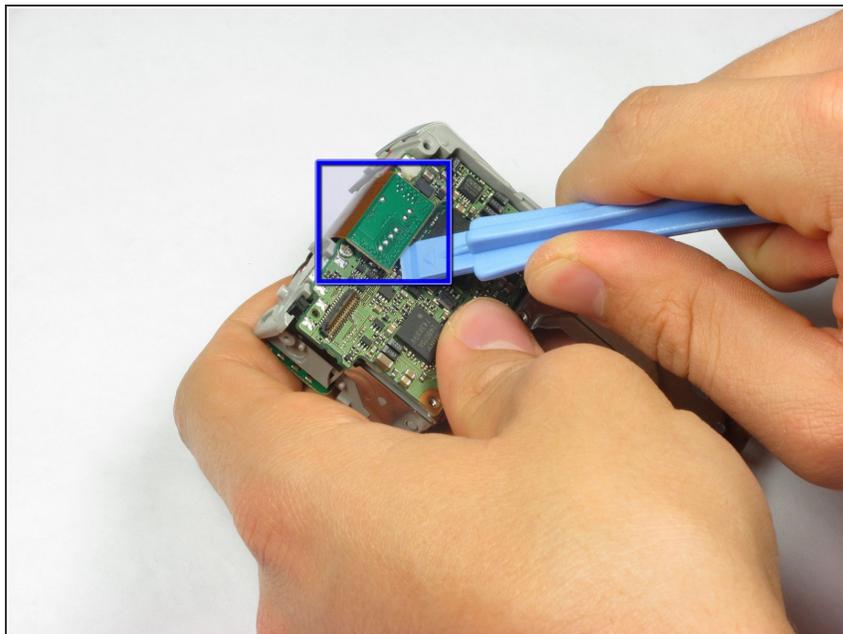
- Use a spudger or a flathead screwdriver to unlock the ribbon located at the back of the camera.
- Then gently slide out the ribbon.

Step 28



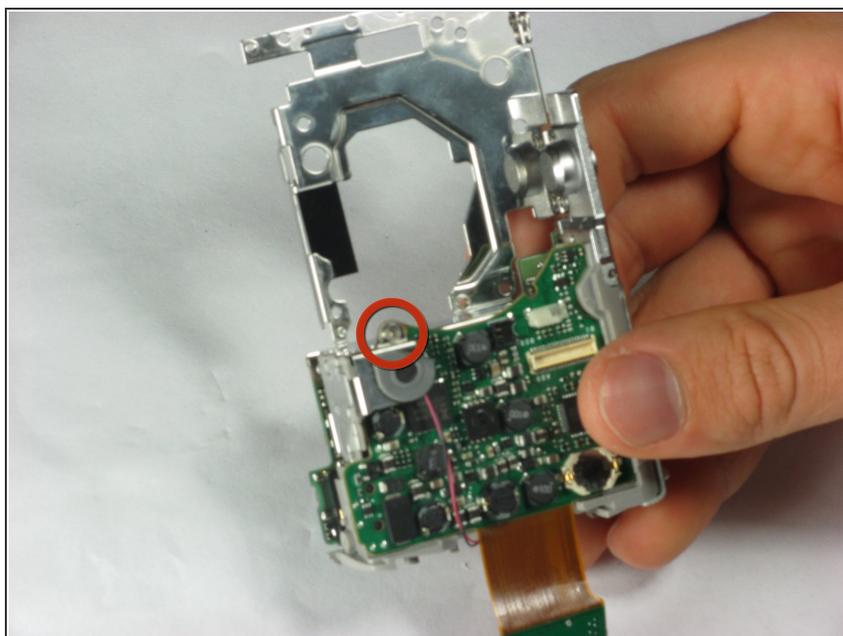
- The whole ribbon and metal casing can now be easily removed from the remains of the camera.

Step 29



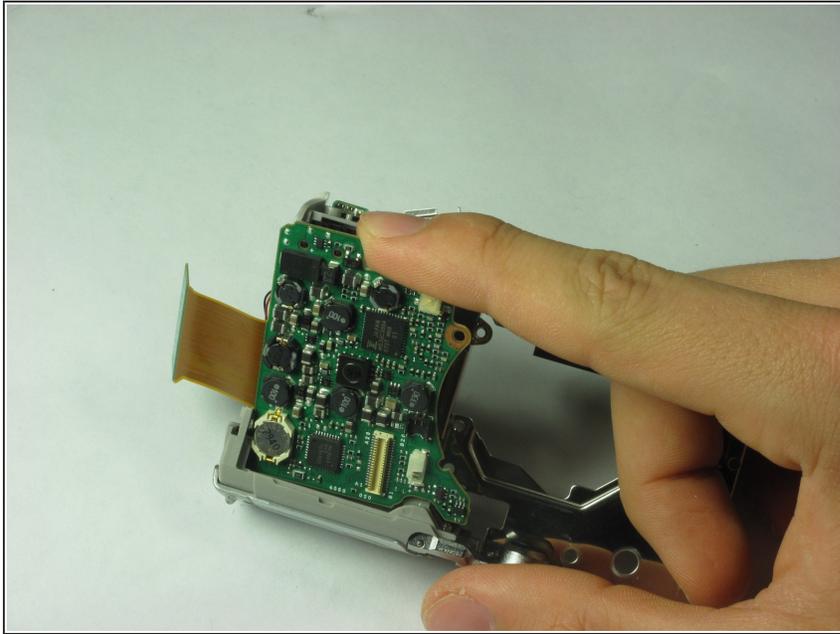
- Use a spudger or a flathead screwdriver to release the motherboard cable.

Step 30



- Next remove the 3.4 mm Phillips #00 located in front of the camera. wisdom here.

Step 31



- Now the motherboard can be gently removed from the metal casing.

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