Canon PowerShot SD850 IS Motherboard Replacement

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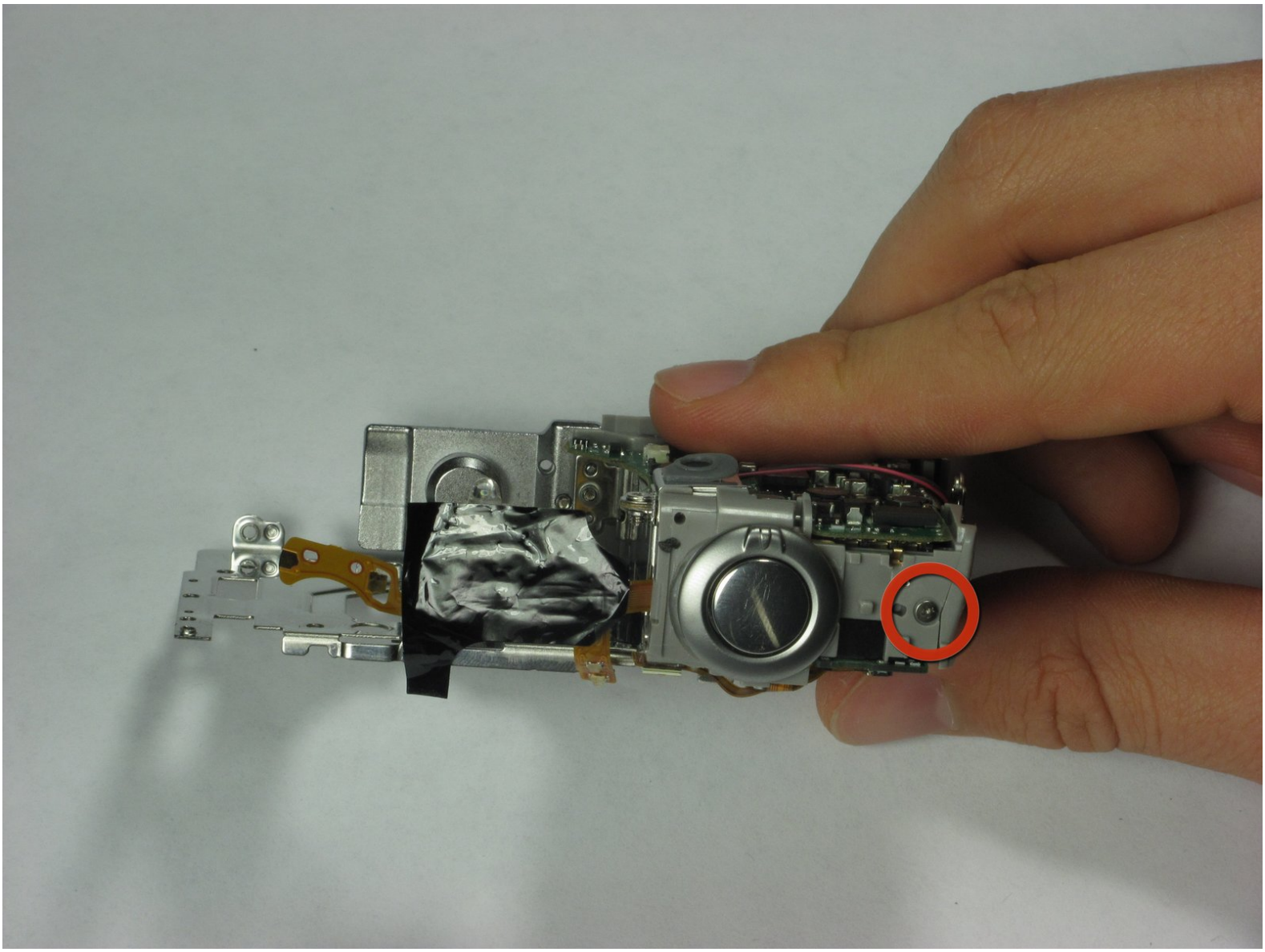


INTRODUCTION

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



- Using your fingernail, slide the light gray tab towards edge of camera.
- Slide the light gray door and pull up to open the door.

  In the camera shown in the photos, there is not a Memory Card or Battery.
- Both Battery and Memory Card slots should be visible.

Step 2

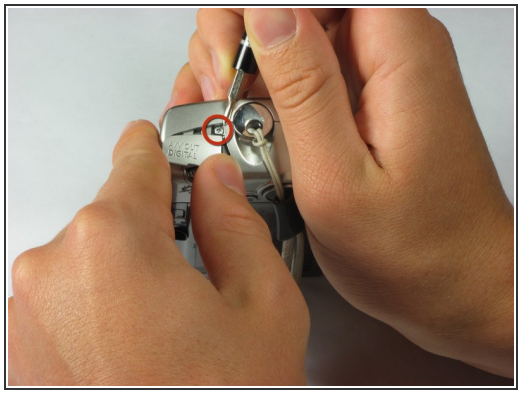
- Use your fingernail and slide the small brown tab towards the edge of the camera.
- The battery will pop up.
- Pull battery straight out of battery holder.

When putting the battery back in, make sure it the battery is oriented so the terminals connect.

Step 3 — Case

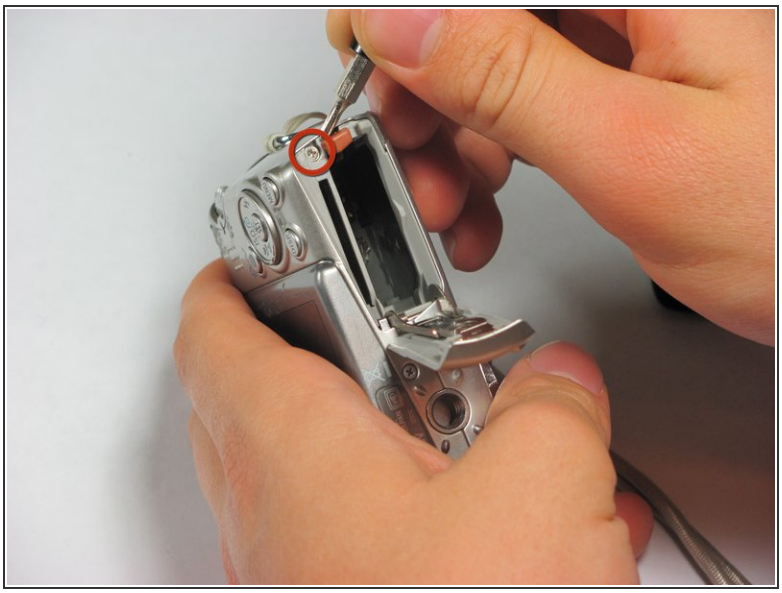
- Remove the following 4 screws:
  - Two 2.8 mm Phillips #00 at the bottom of the camera.
  - Two 2.75 mm Phillips #00 on the opposite side of the wrist strap.

Step 4



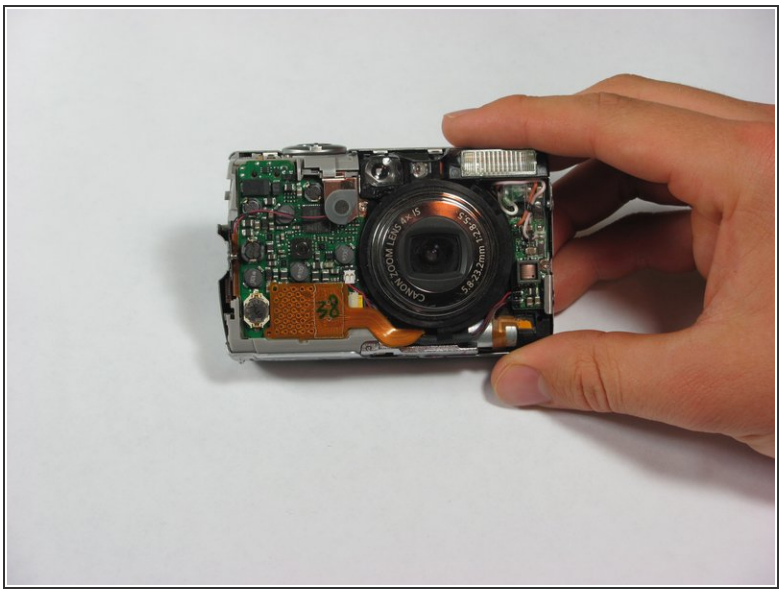
- Open the A/V OUT DIGITAL flap on the side of the wrist strap.
- Remove the 2.75 mm Phillips #00 under the A/V OUT DIGITAL flap on the side of the wrist strap.

Step 5



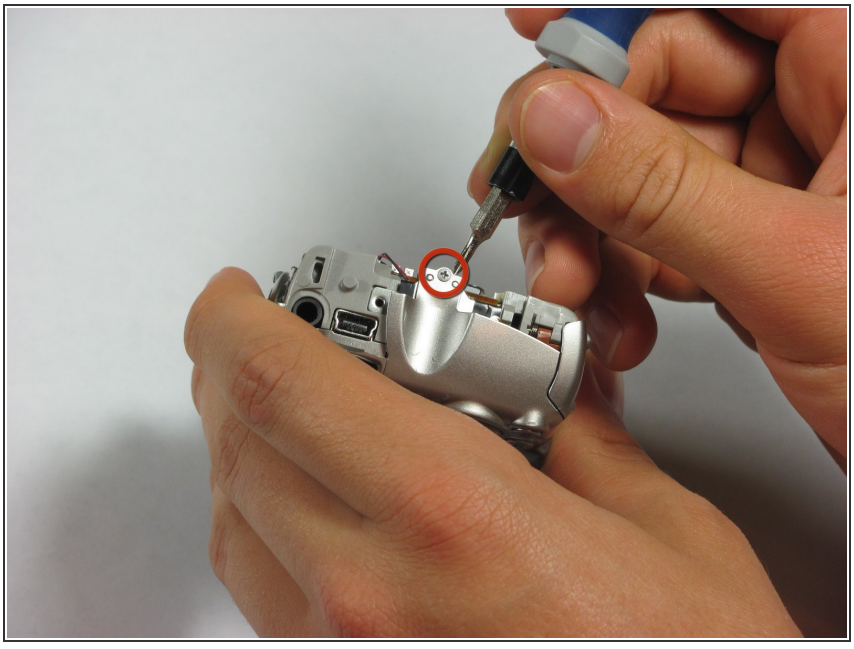
- On the bottom of the camera, use your fingernail to slide the light gray tab towards the edge of the camera.
- Slide light gray door and pull up to open the door.
- Remove the 8.35 mm Phillips #00 next to the brown tab that holds the battery.

Step 6



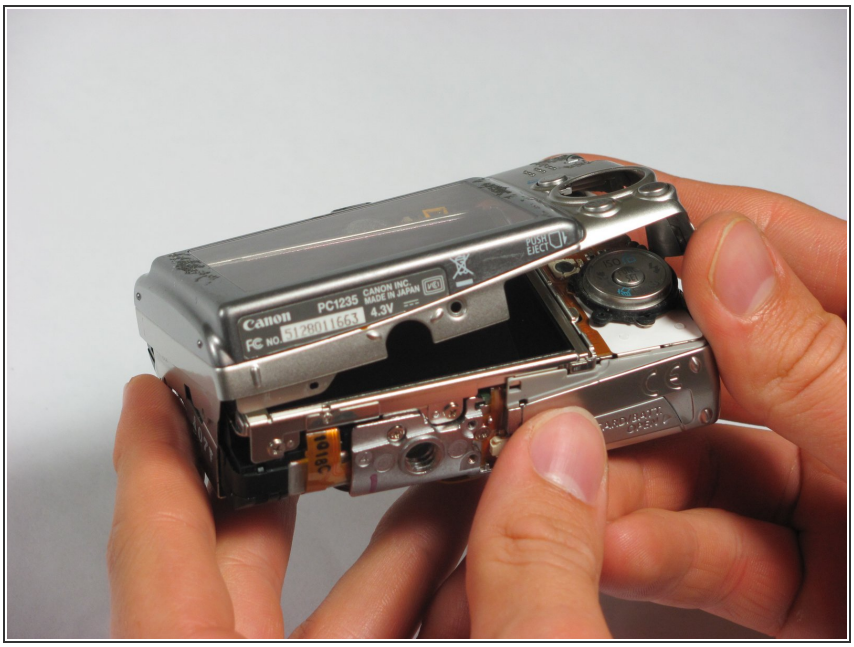
- Gently pull the front cover straight out from the camera. This will expose the wiring on the front of the camera.

Step 7



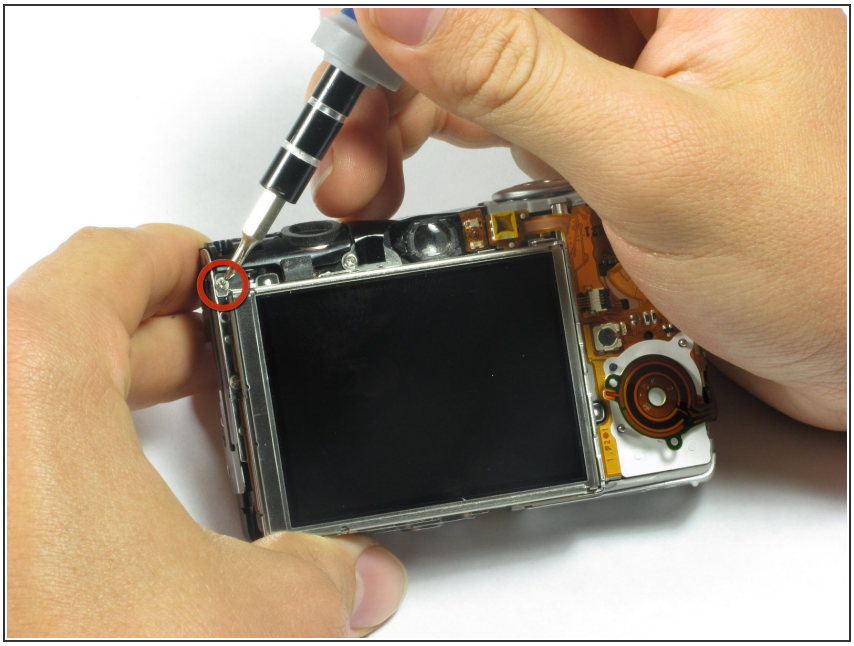
- Remove the 2.75 mm Phillips #00 next to A/V OUT DIGITAL.

Step 8



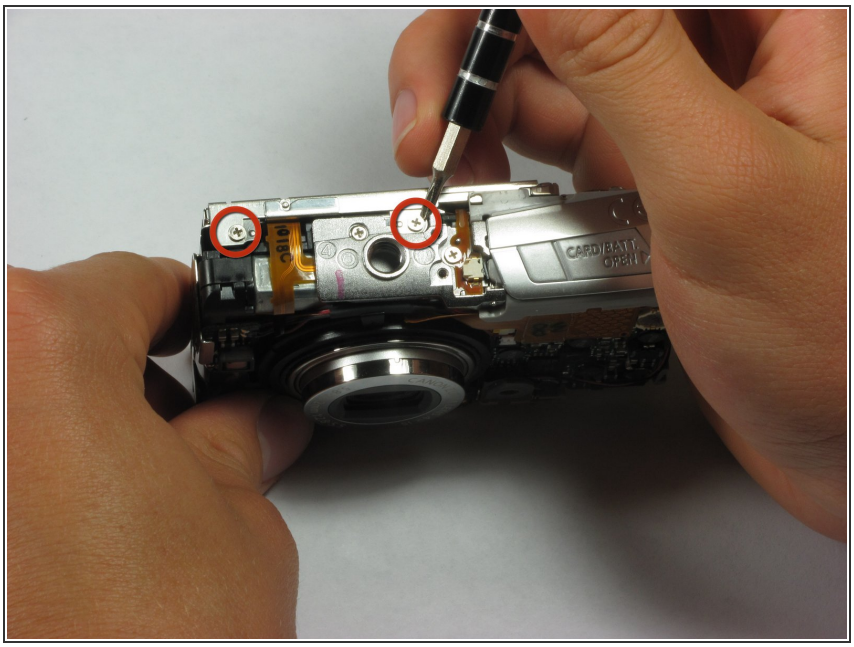
- Slide the back casing (with the screen protector) off to reveal the LCD and back wiring.

Step 9 — LCD Screen



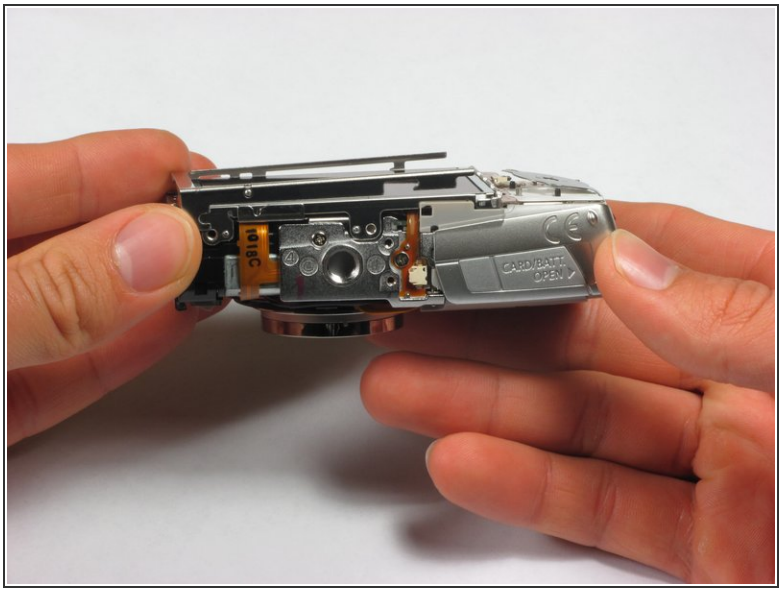
- Remove the 1.75 mm Phillips #00 located at the top left of the LCD screen.

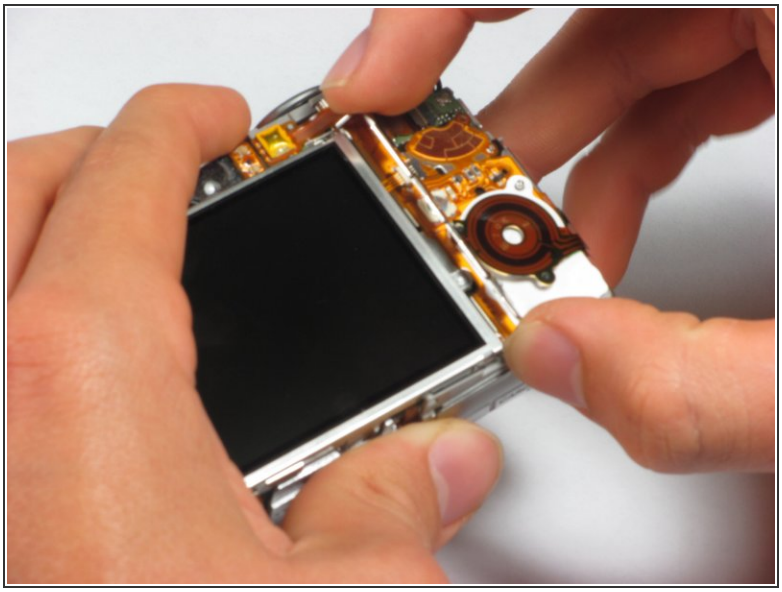
Step 10



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

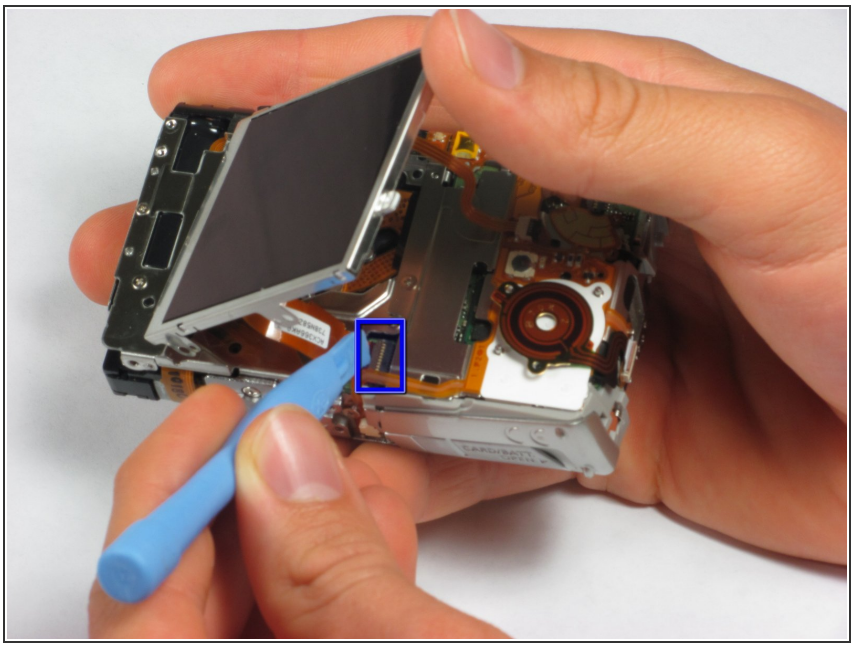
Step 11





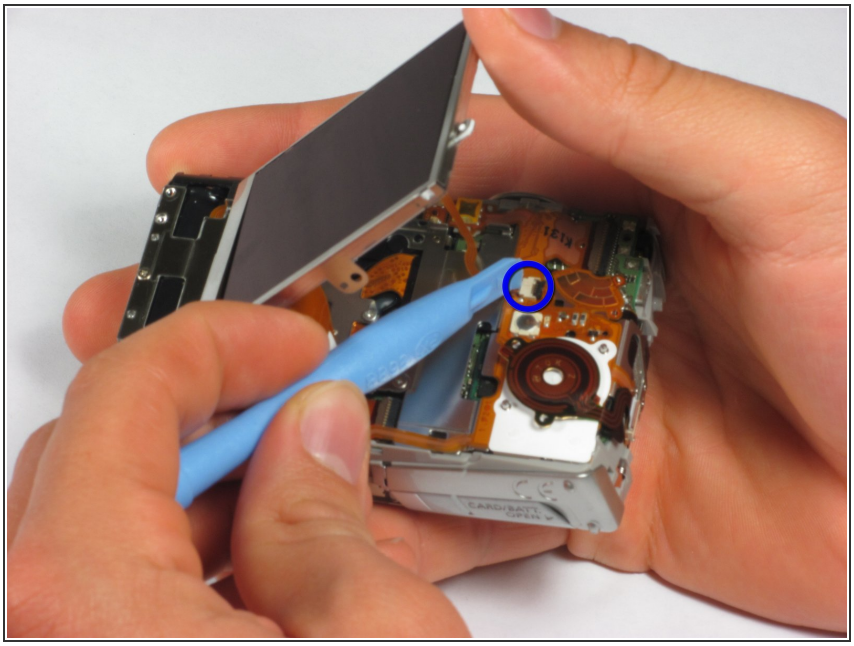
- Remove the two metal frames that hold the LCD panel in place.

Step 12



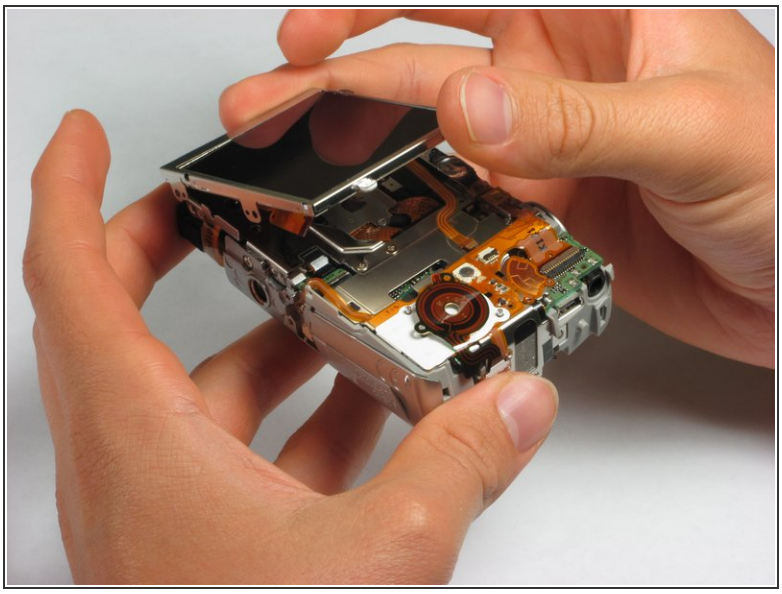
- The LCD screen should now only be attached by two LCD data cables.
  - Lift the screen from the left side and use a spudger or a small flat head screwdriver to flip the black portion of the connector upward to unlock it.
  - Carefully slide the data cable out of the connector.

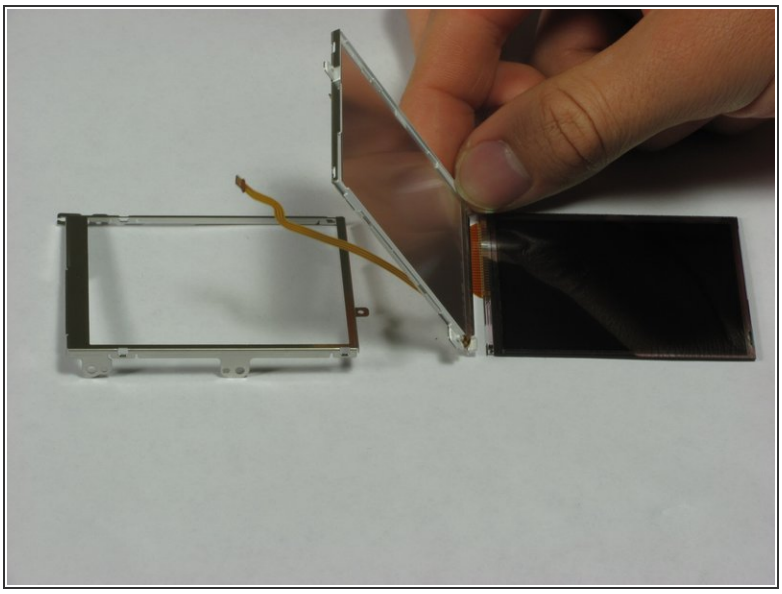
Step 13



- 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.

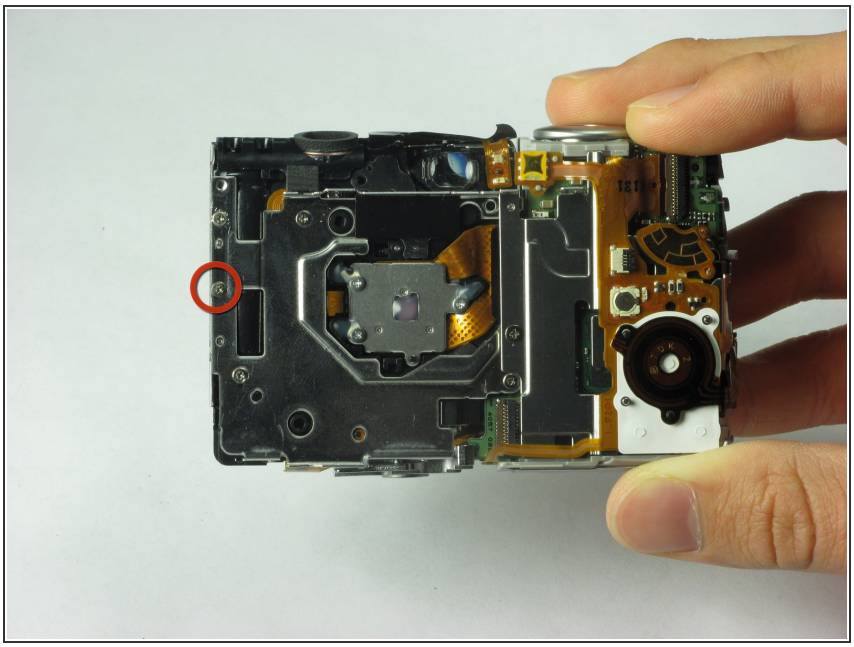
Step 14





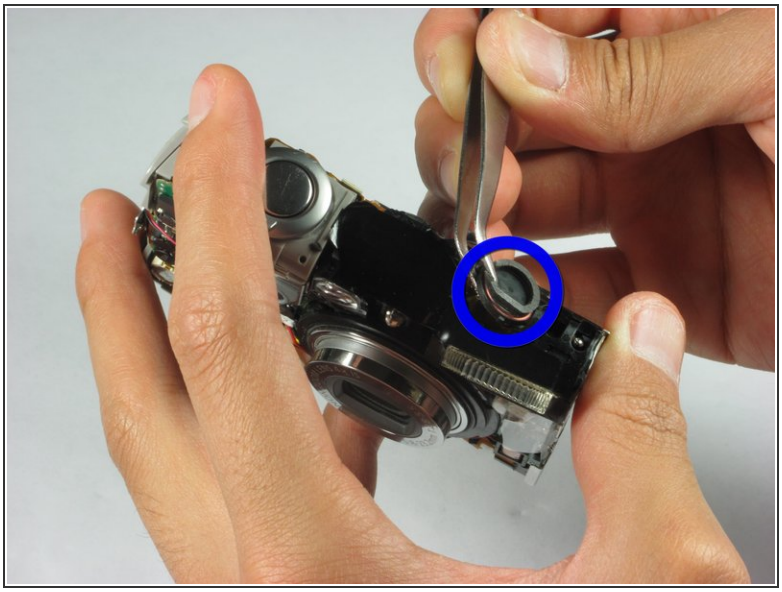
- The LCD screen and housing are now in three pieces:
  - LCD screen
  - LCD screen frame
  - LCD back housing
- The LCD screen itself can now be removed and fixed/replaced.

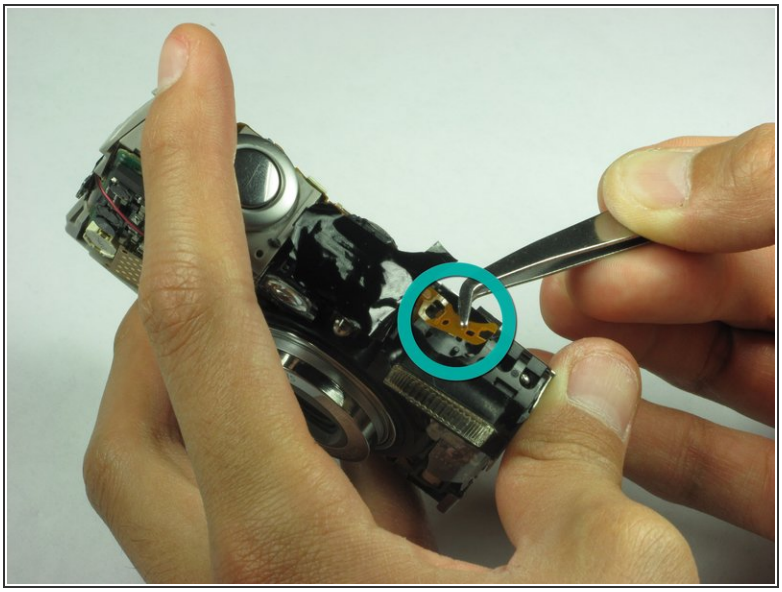
Step 15 — Flash Unit



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

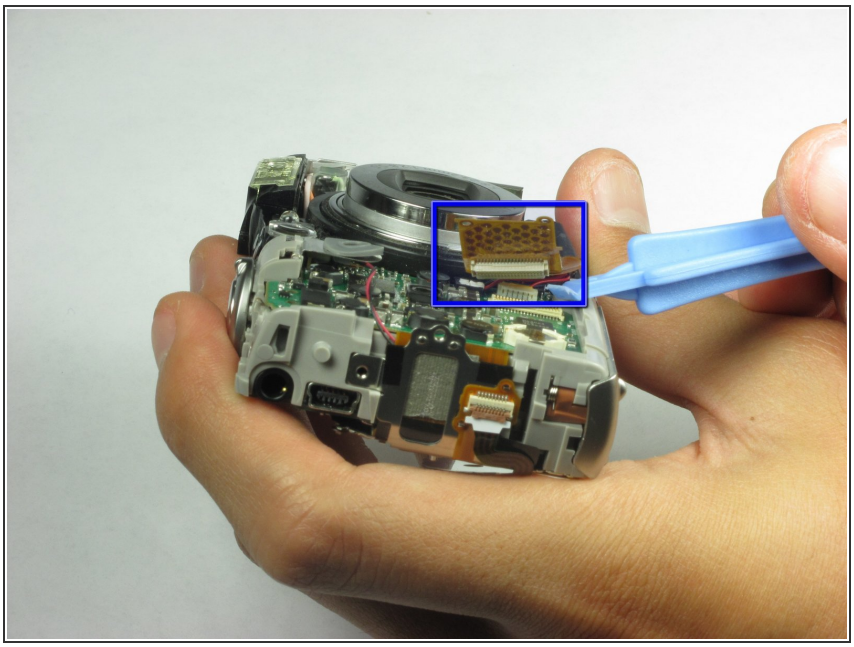
Step 16





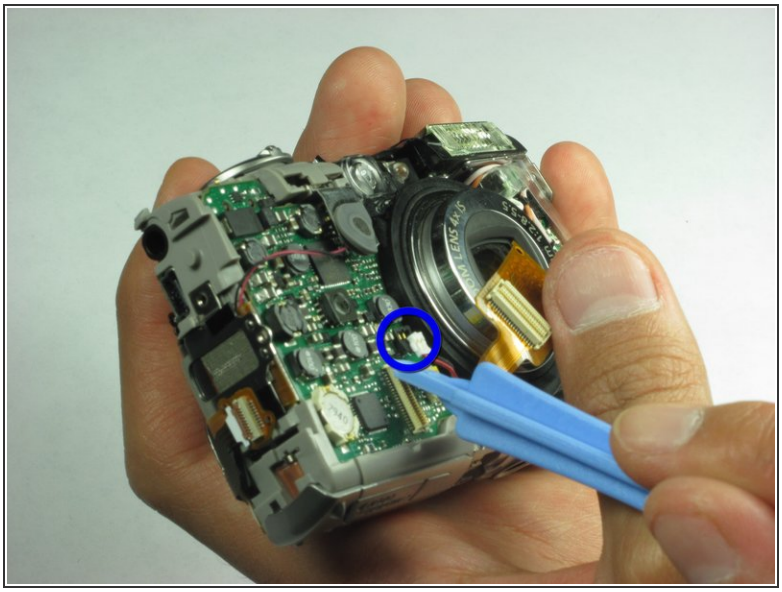
- Use a set of tweezers to remove the speaker located at the top of the camera on the flash unit.
- Next use the tweezers to carefully remove the speaker cable off its respective holders.

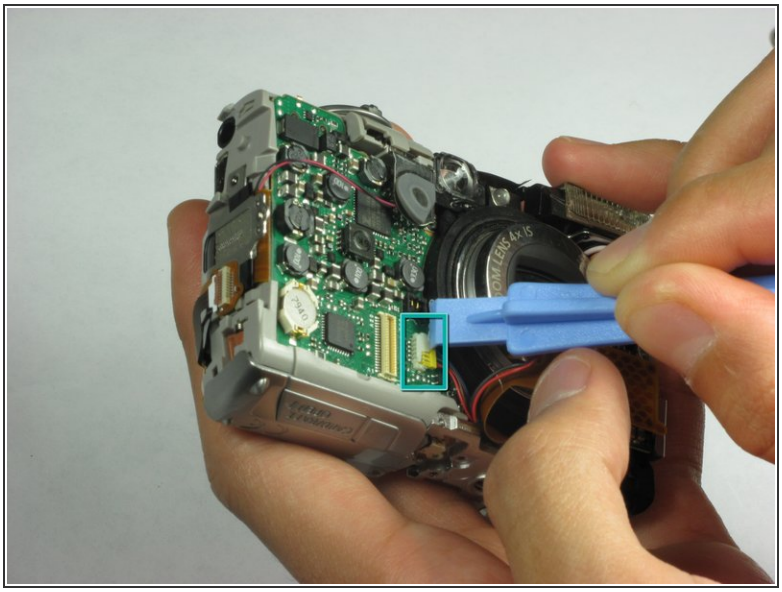
Step 17



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

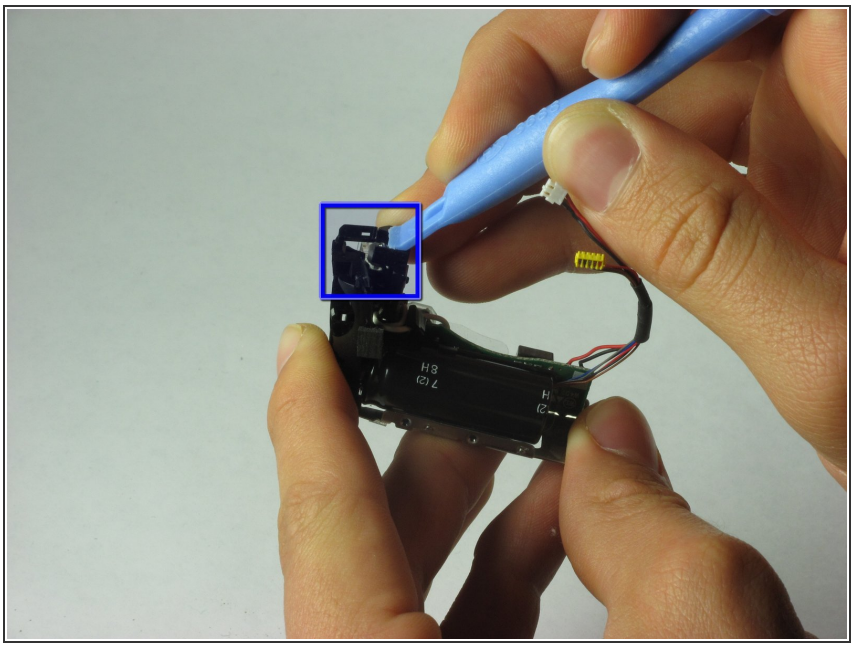
Step 18





- 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.

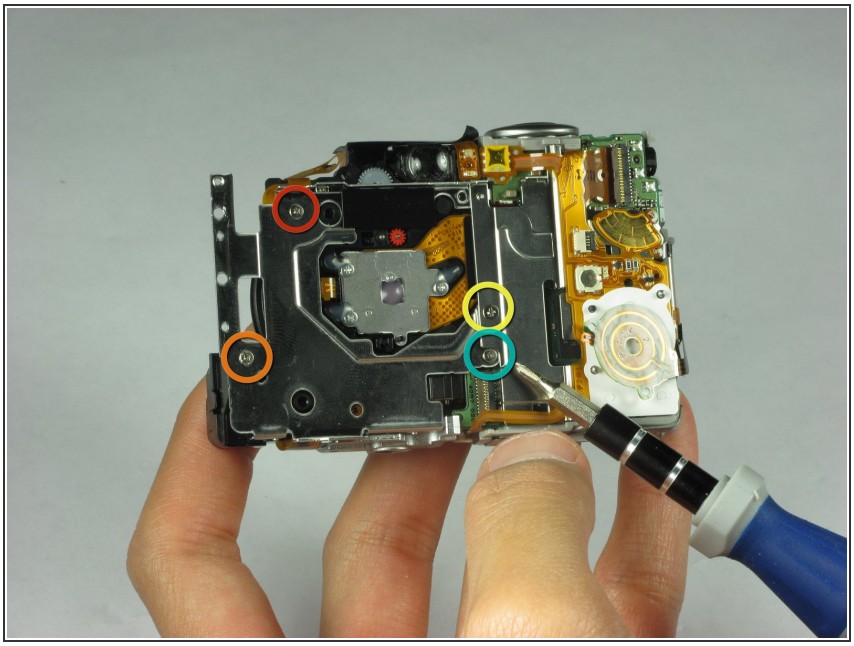
Step 19



- 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.

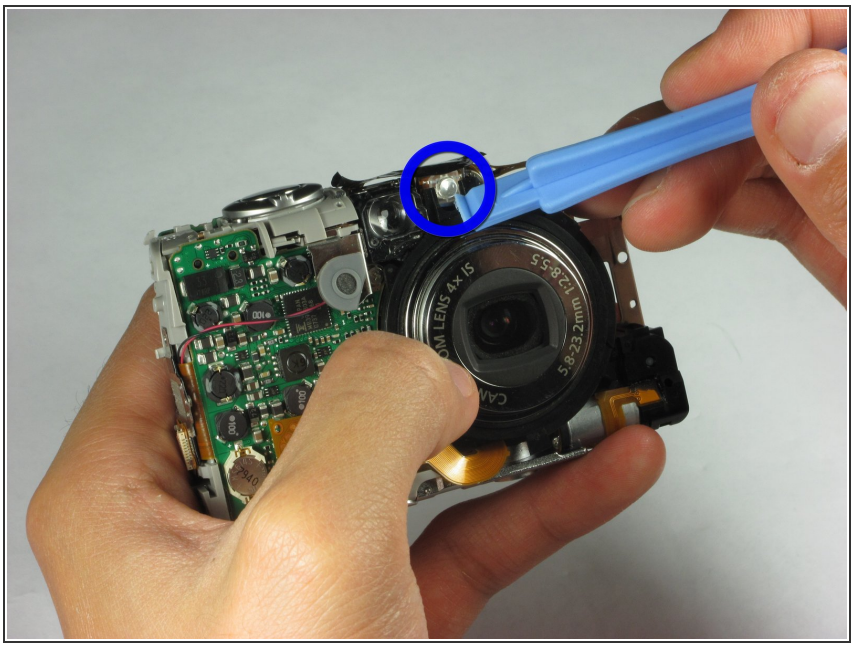
⚠ Be careful not to touch the capacitor attached to the flash unit as it may still be holding a charge!

Step 20 — Camera Lens



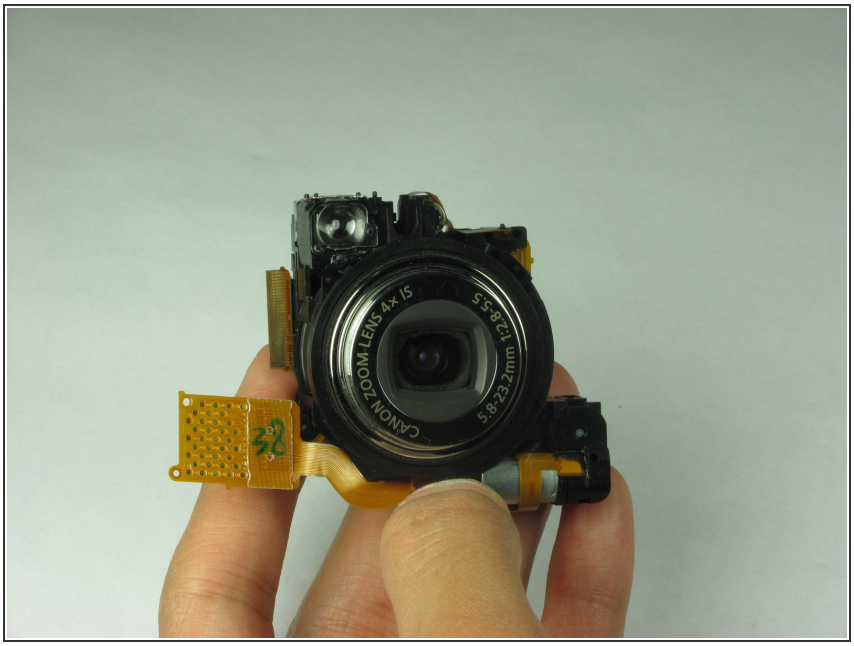
- Remove four screws located on the back of the camera:
  - 6.15 mm #00 Phillips
  - 2.75 mm #00 Phillips
  - 2.15 mm #00 Phillips
  - 2.7 mm #00 Phillips

Step 21



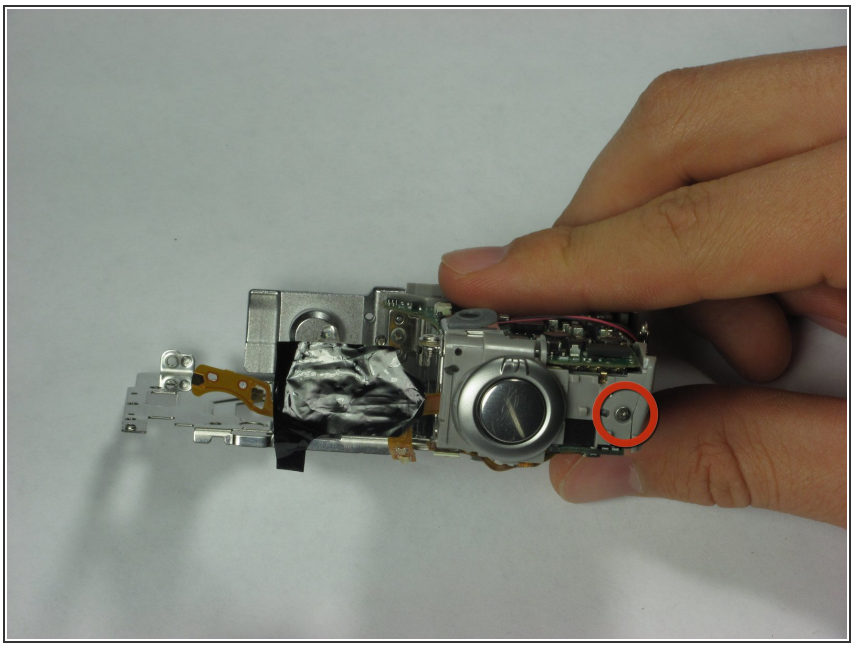
- Use a spudger or a flathead screwdriver and carefully pry out the bulb located in the front of the camera on top of the camera lens.

Step 22



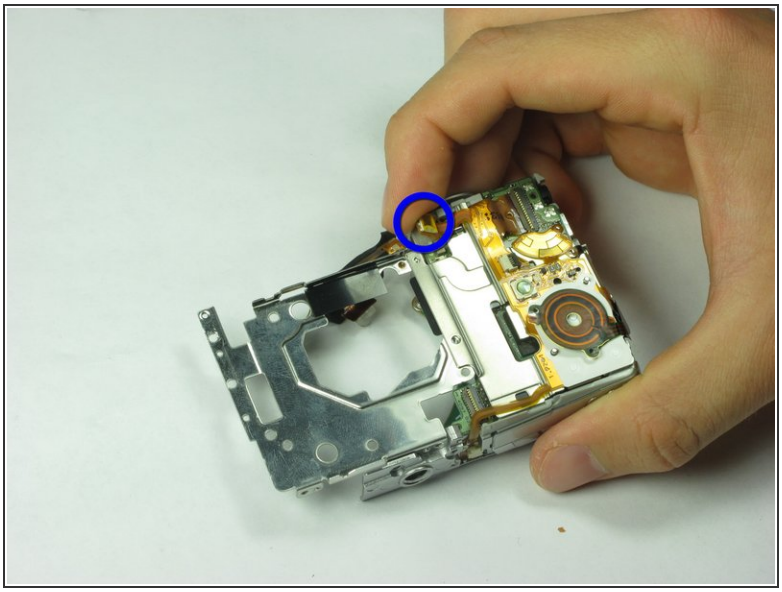
- Gently remove the camera lens from the rest of the camera.

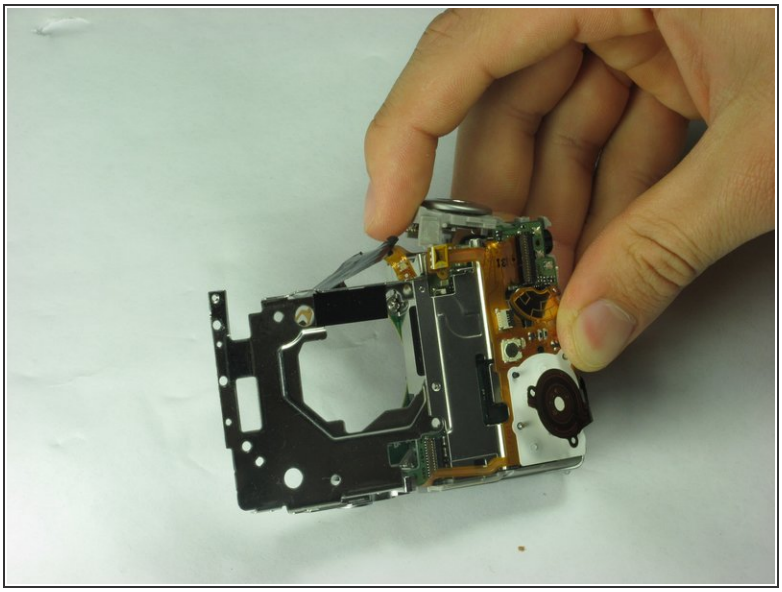
Step 23 — Motherboard



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

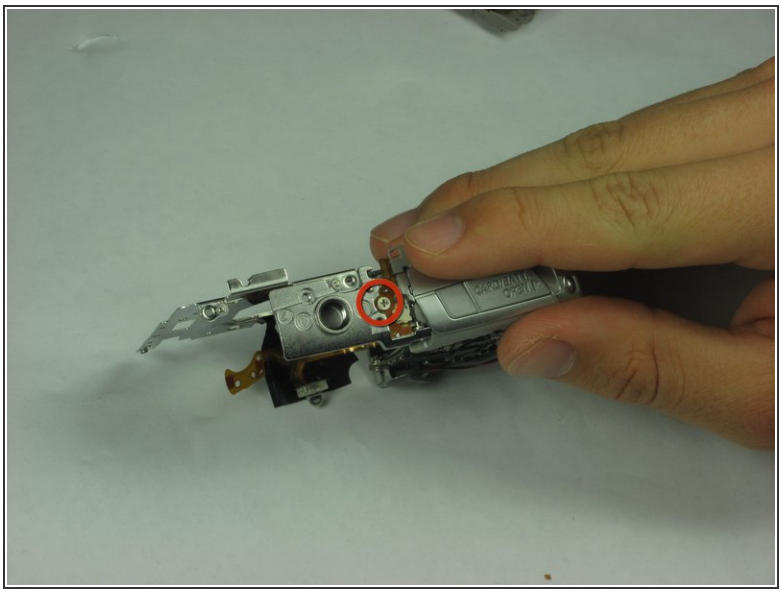
Step 24

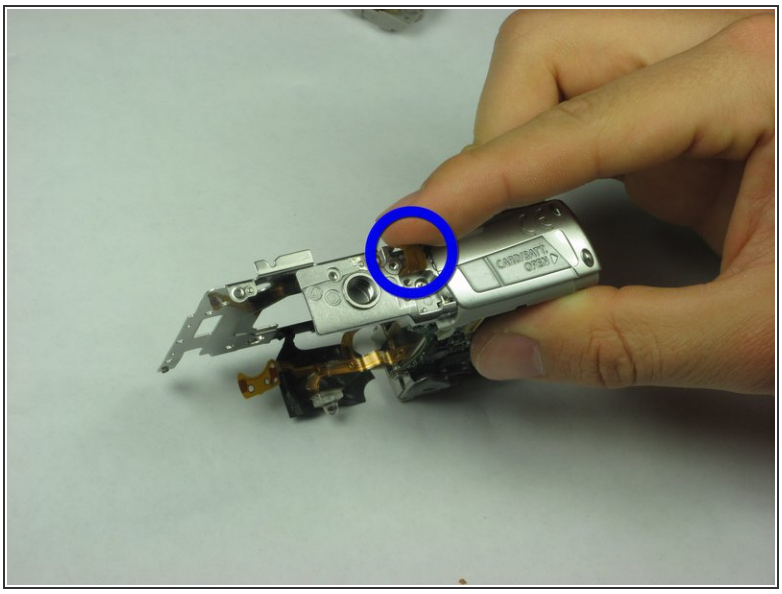




- Use a prying device or your fingers to release the ribbon from its holder.
- Gently remove the shutter release component from the camera.

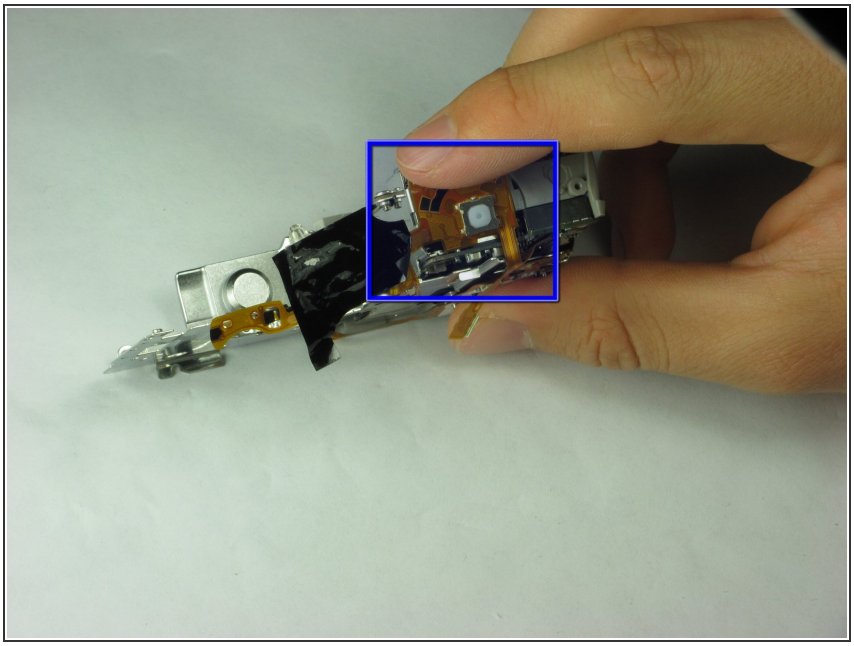
Step 25





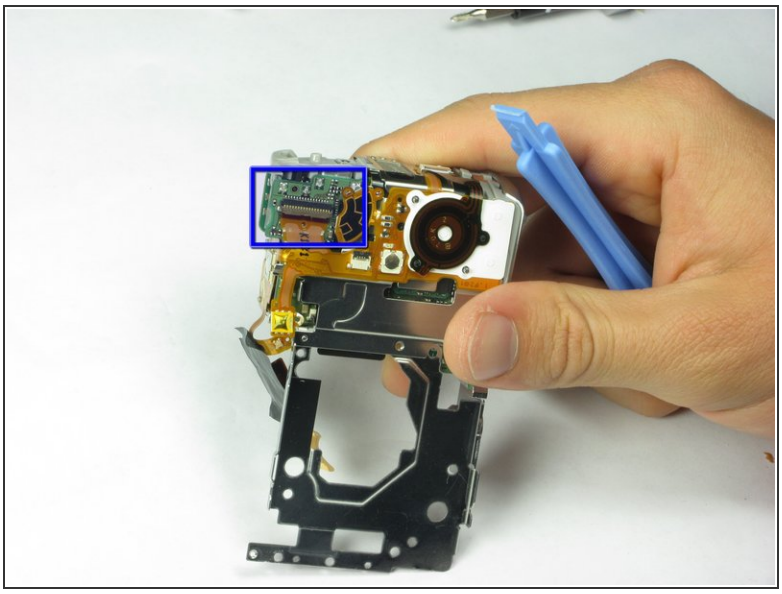
- Remove the 3.4 mm Phillips #00 located under the camera.
- Next use a prying device or your fingers to release the power trigger cable from its holder.

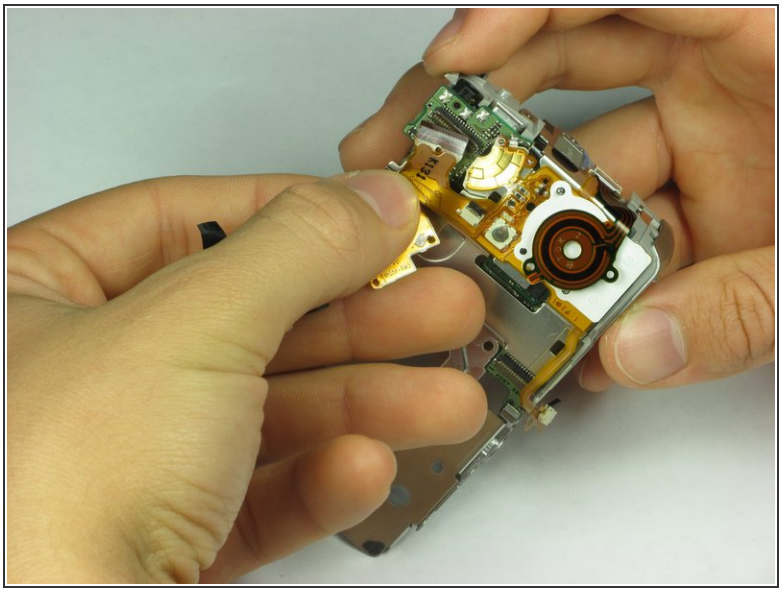
Step 26



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

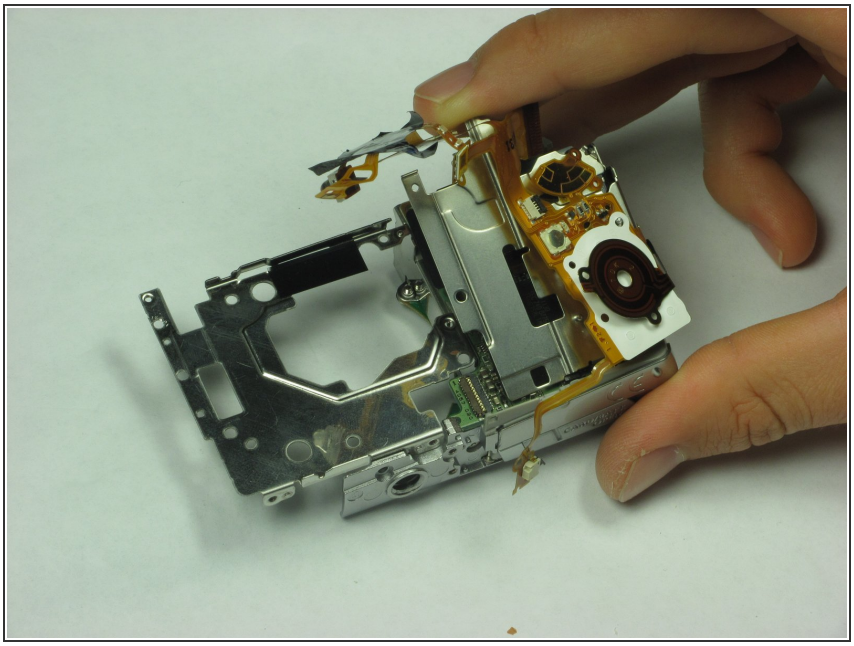
Step 27





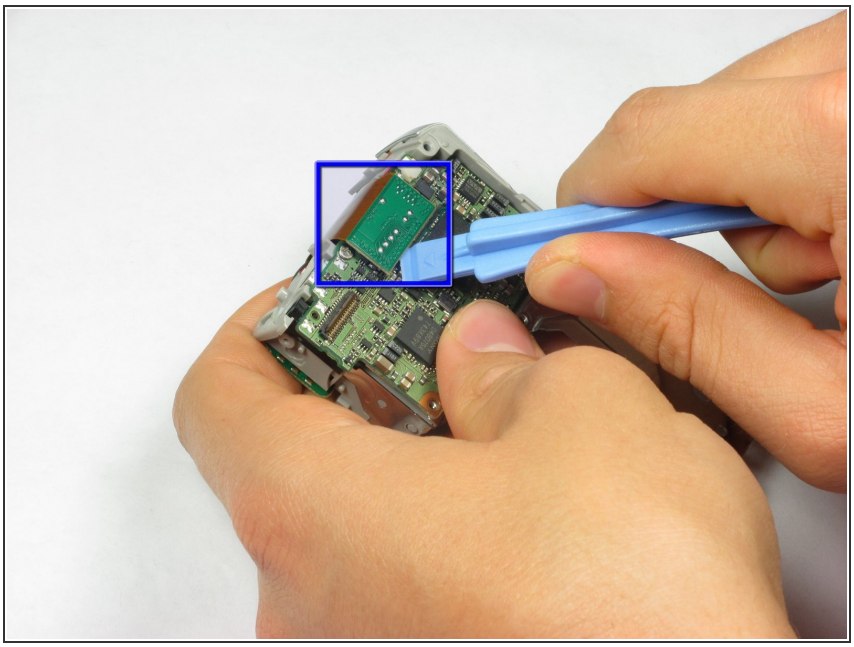
- Use a spudger or a flathead screwdriver to unlock the ribbon located at the back of the camera.
- Then gently slide out the ribbon.

Step 28



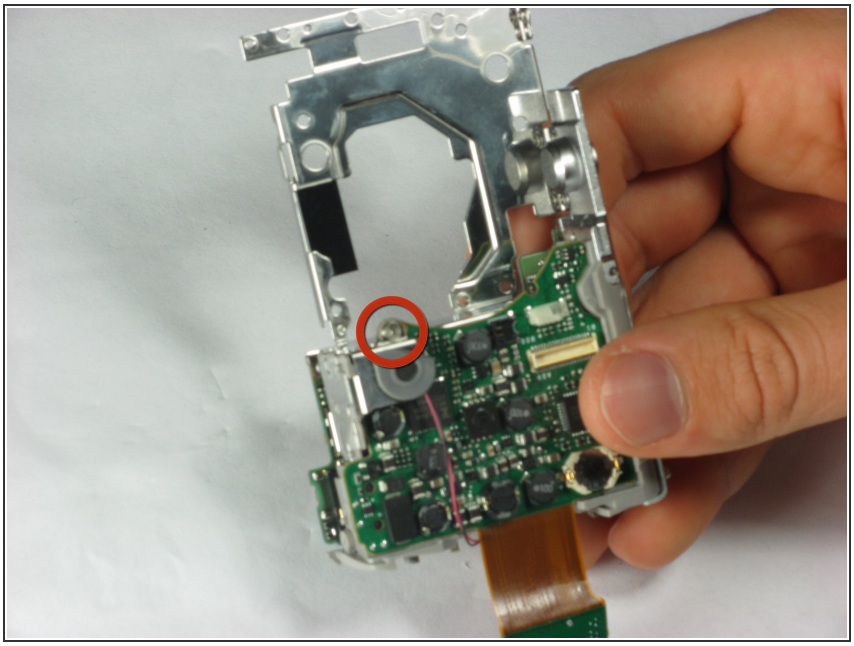
- The whole ribbon and metal casing can now be easily removed from the remains of the camera.

Step 29



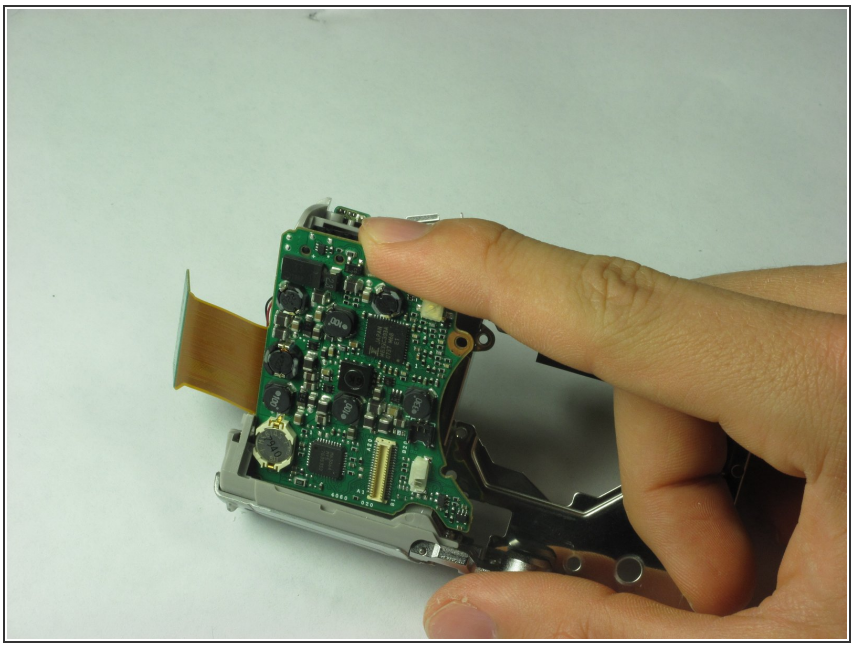
- Use a spudger or a flathead screwdriver to release the motherboard cable.

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.

