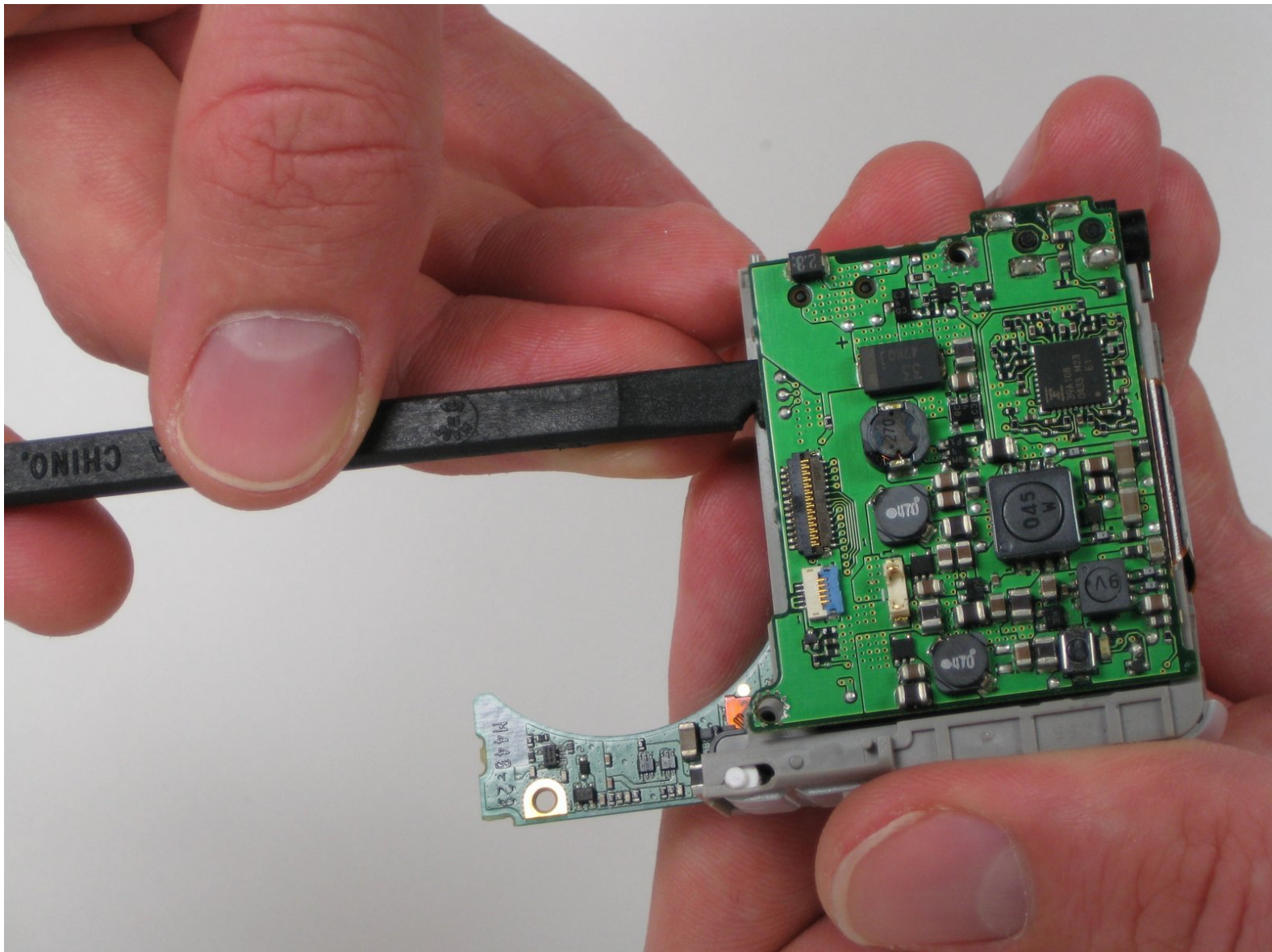




Canon PowerShot SD200 Motherboard Replacement

This guide will show how to remove the main motherboard from the Canon PowerShot SD200 camera.

Written By: James Loy



INTRODUCTION

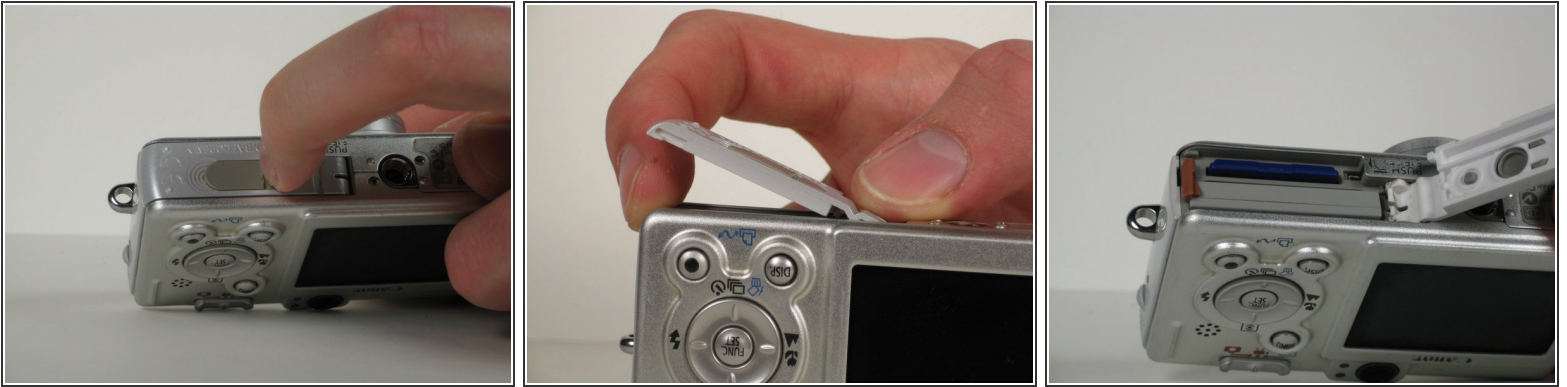
The motherboard is the central processing unit in the camera. The motherboard might need to be replaced if damaged. This guide will show how to remove the motherboard.



TOOLS:

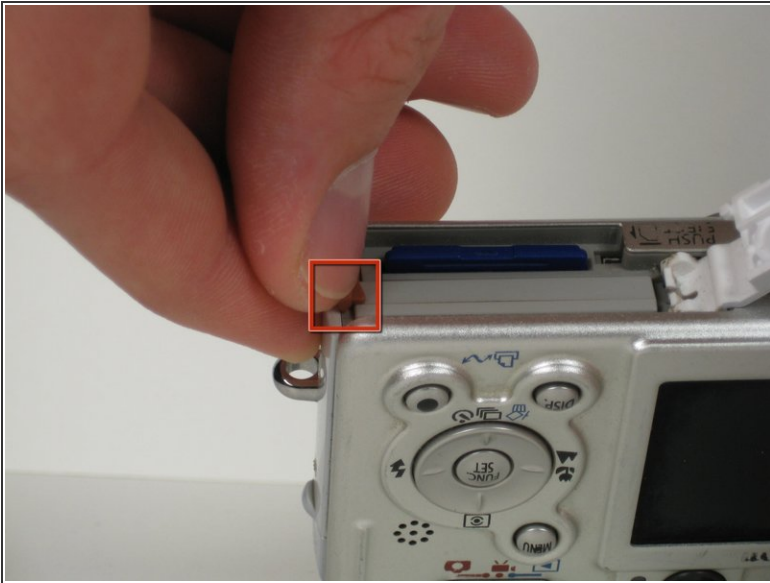
- [Phillips #00 Screwdriver](#) (1)
 - [Spudger](#) (1)
-

Step 1 — Battery



- i** The camera used to create these repair guides had a broken lens assembly. As a result, the lens is sticking out in all of the photos, but it is important to note that this should not be the case with your camera. The lens should retract itself back into the camera when it is turned off.
- Use your fingernail to slide the dark gray tab located on the bottom of the device towards the edge of camera.
- Slide the light gray door away from the LCD screen and pull up to open the door.
- i** Both battery and memory card should now be visible.

Step 2



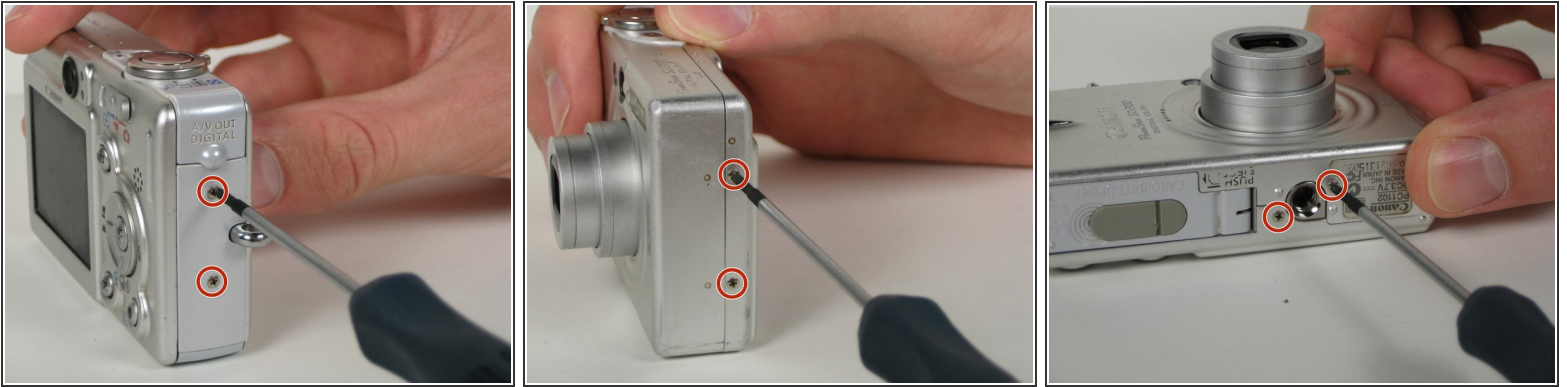
- Rotate the small brown tab towards the edge of the camera.
- The battery should pop up.

Step 3



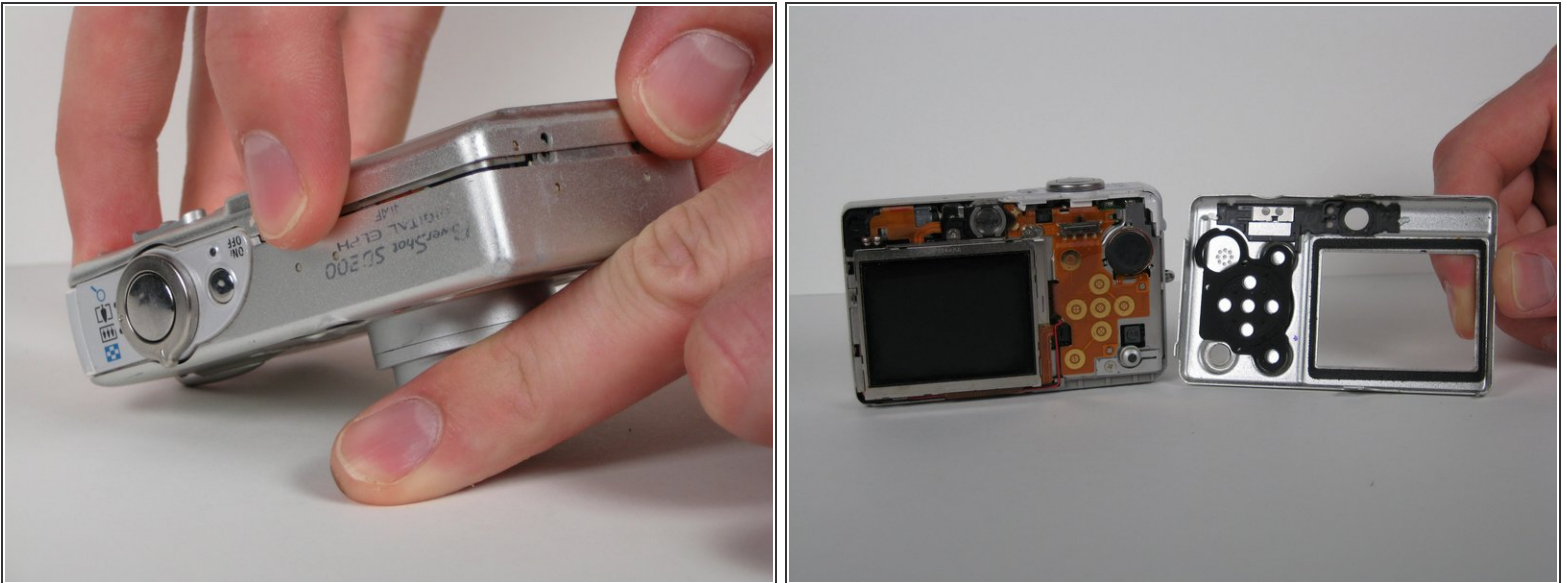
- Pull the battery straight out of the battery holder.
- ☑ When putting the battery back in, make sure it is oriented the same as it was before.

Step 4 — Buttons



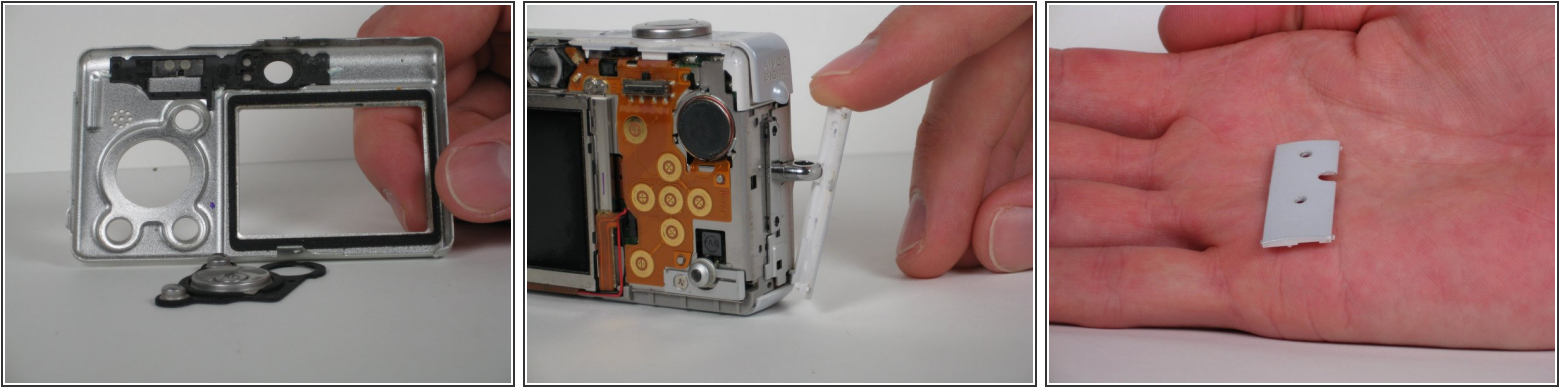
- Close the light gray battery compartment door.
- Remove the six 2.8 mm Phillips screws on the outside of the case. Two screws are found on each side of the camera, and the final two are found on the bottom.

Step 5



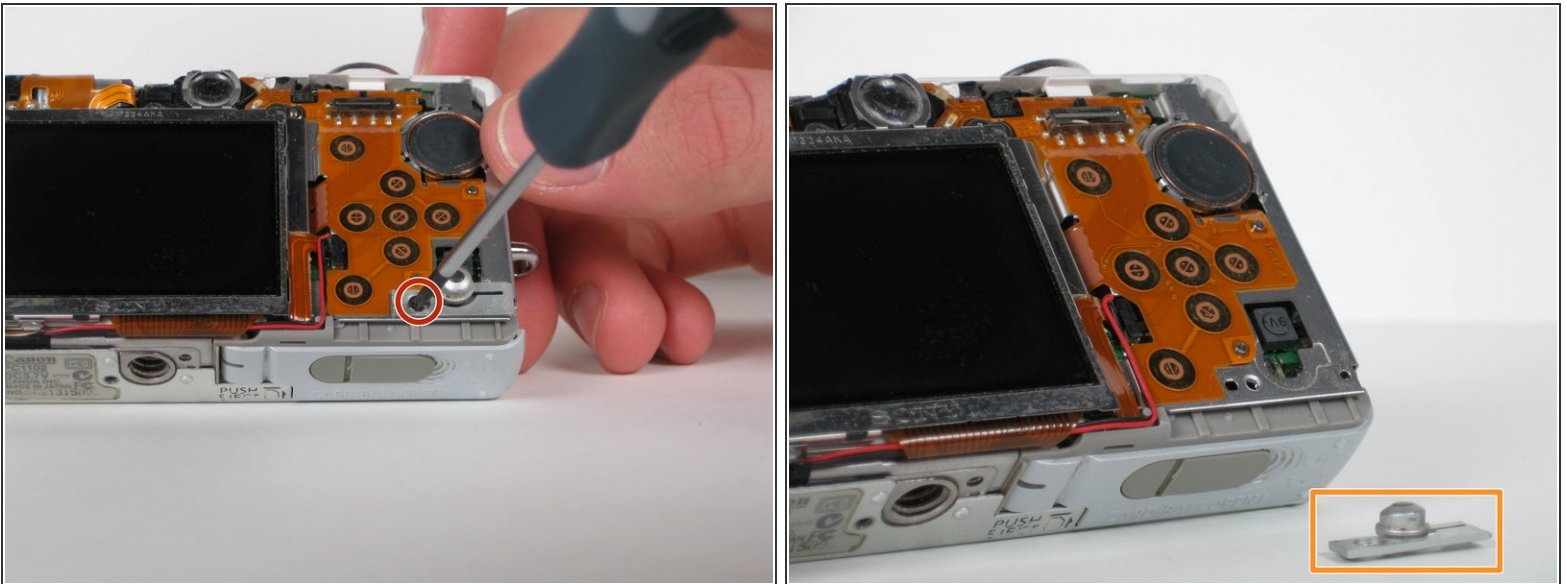
- Use your fingers to carefully pry off the back casing from the camera assembly.

Step 6



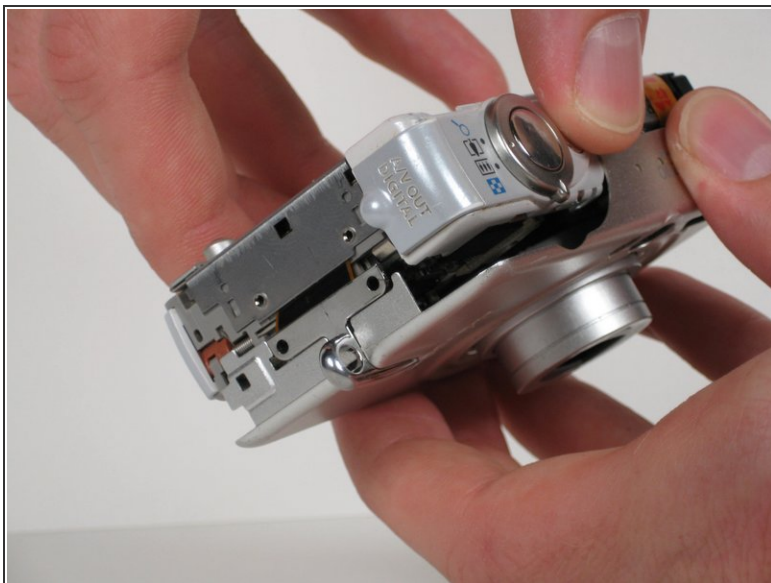
- Push the buttons out with your finger if they did not fall out while removing the casing.
- Pull off the white plastic side piece if it did not fall out while removing the casing.

Step 7



- Remove the one 2.2 mm Phillips screw from the bottom of the camera.
- Take off the print button.

Step 8



- Use your fingers to carefully pry off the front casing of the camera. The front casing should pull straight off.

Step 9



- Use the flat end of the spudger to lift open the white plastic latch on the front of the camera. Once the latch is lifted up, move the latch up towards the top edge of the camera.
- Remove the top button assembly by pulling straight up.

Step 10 — LCD Screen



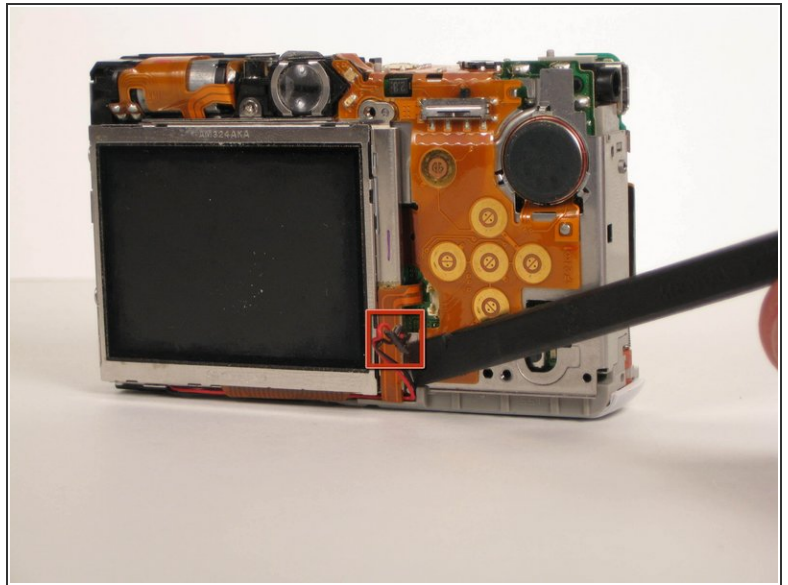
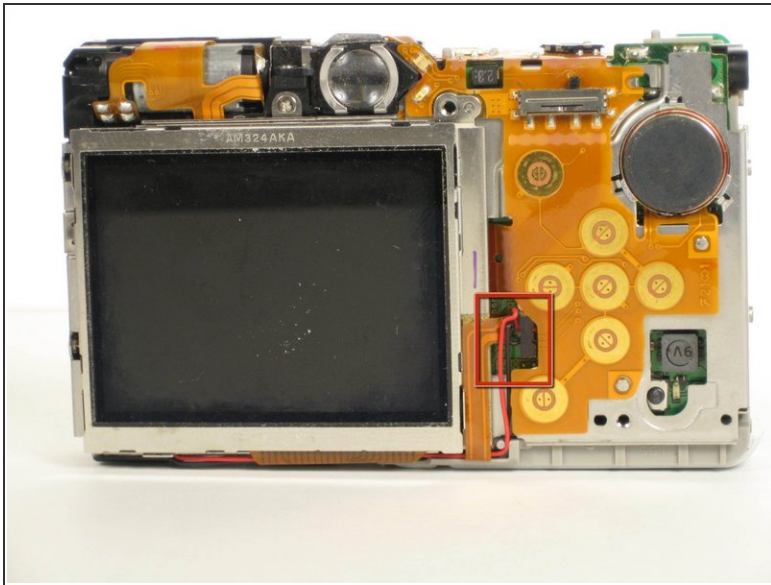
- Remove the one 2.4 mm Phillips screw from the bottom of the motherboard.
- Remove the two 3.9 mm Phillips screws from the top of the motherboard.

Step 11



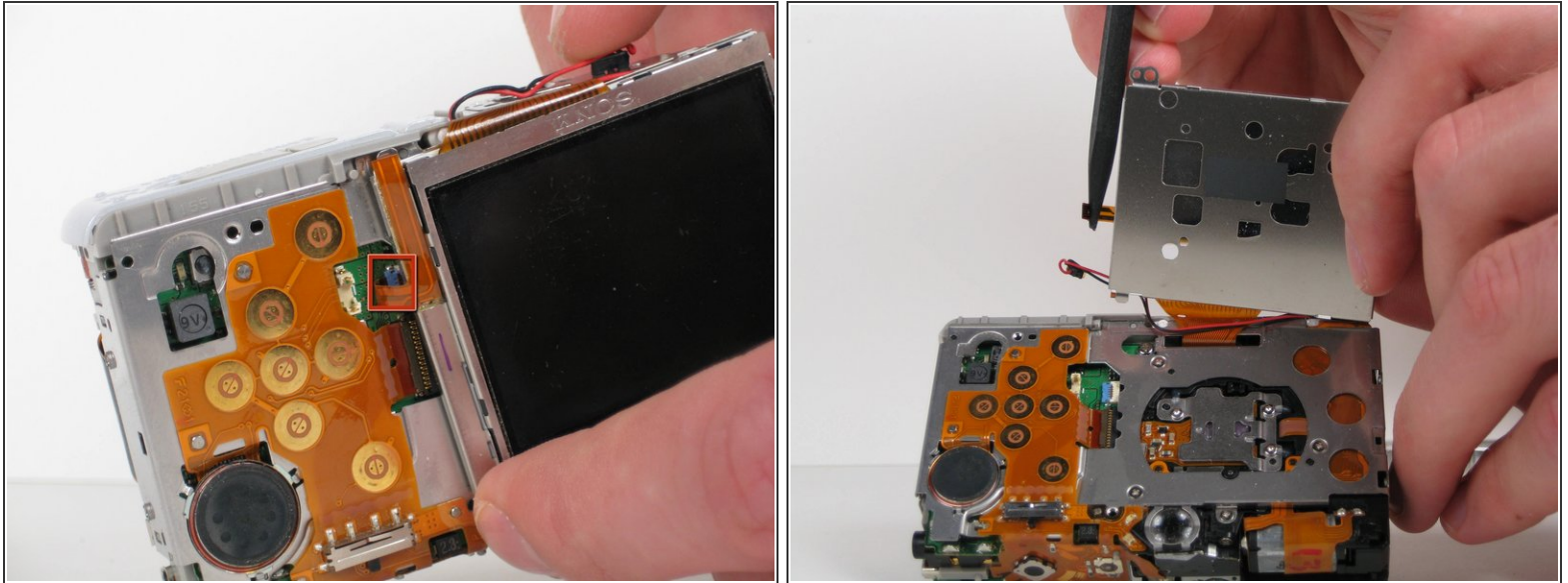
- Remove the one 2.4 mm Phillips screw directly above the top right corner of the LCD screen.

Step 12



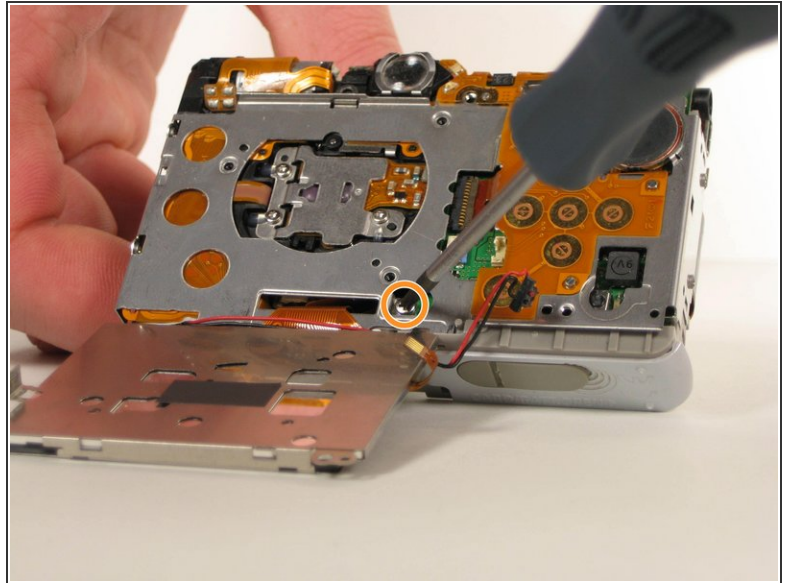
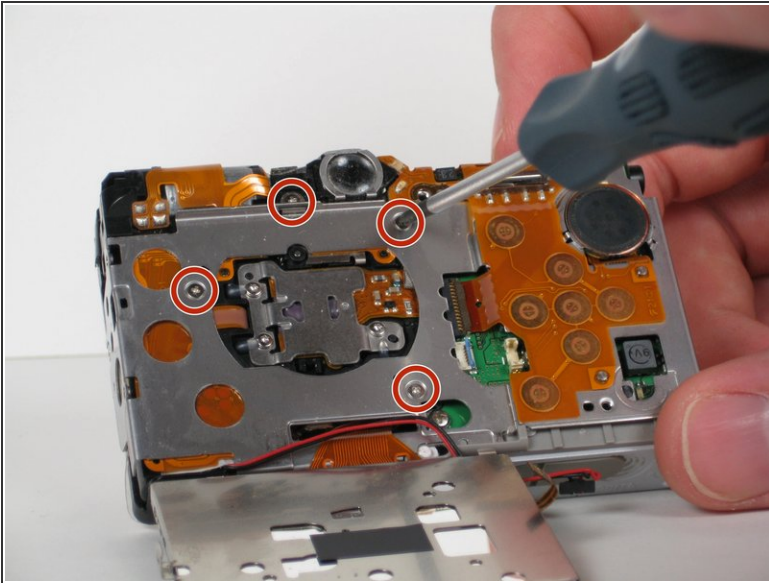
- Use the flat end of the spudger to lift up the small black connector from the back side of the motherboard. The connector should just lift straight up.

Step 13



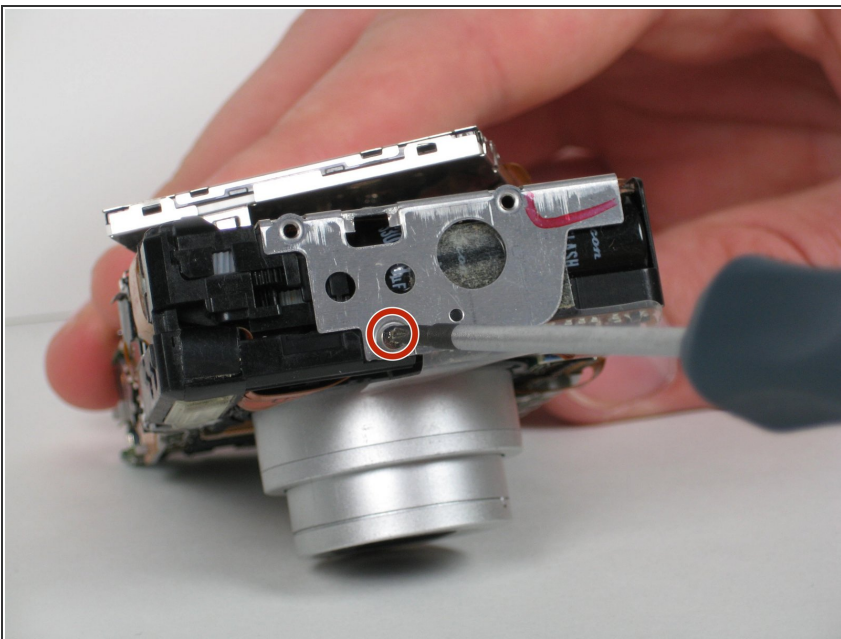
- Hold the camera at an angle to locate the small blue ZIF connector on the back side of the motherboard and next to the LCD screen.
- Use the flat end of the spudger to flip up the tab of the blue ZIF connector. Slide the ribbon cable out.
- ⓘ Once the ribbon is removed, the LCD screen can be rotated away from its initial position to reveal more screws underneath.
- ⚠ Do not pull the LCD screen out or rotate past 180 degrees away from its initial position, or else you will damage the remaining ribbon that holds the LCD screen in place.

Step 14



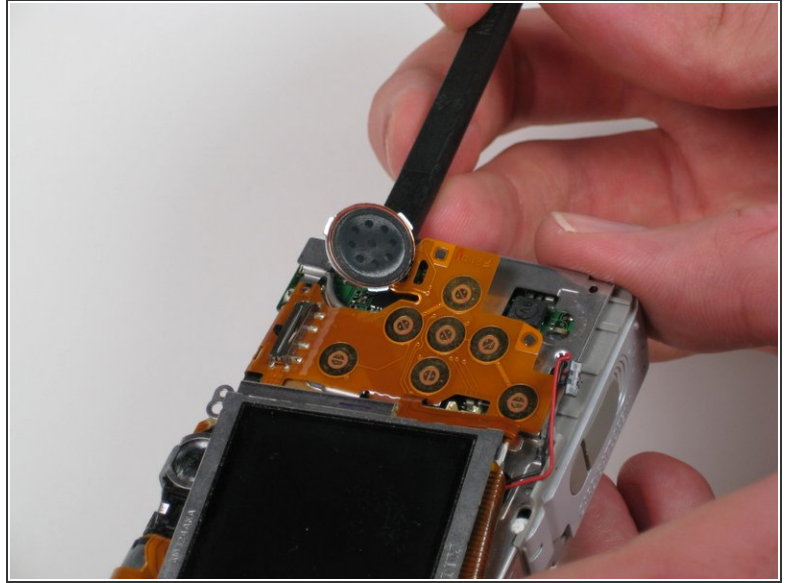
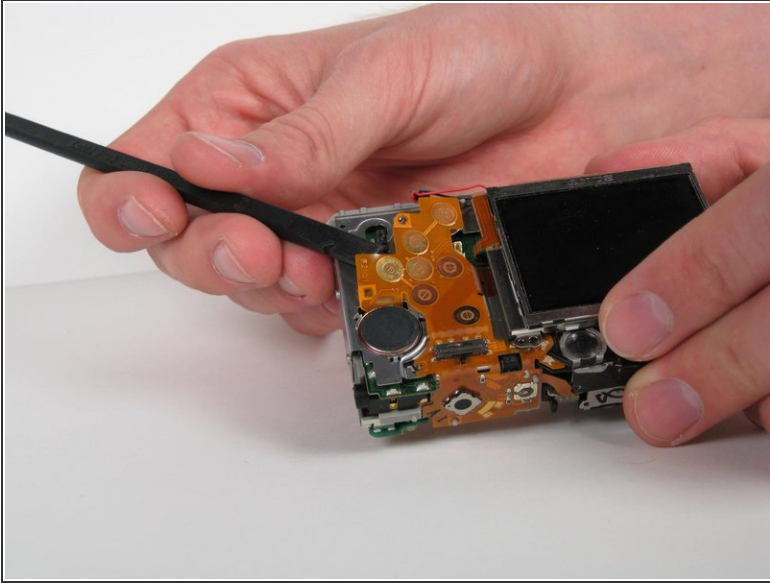
- Remove the four 2.6 mm Phillips screws located underneath where the LCD screen used to be.
- Remove the one 4.2 mm Phillips screw from the bottom of the back face of the camera.

Step 15



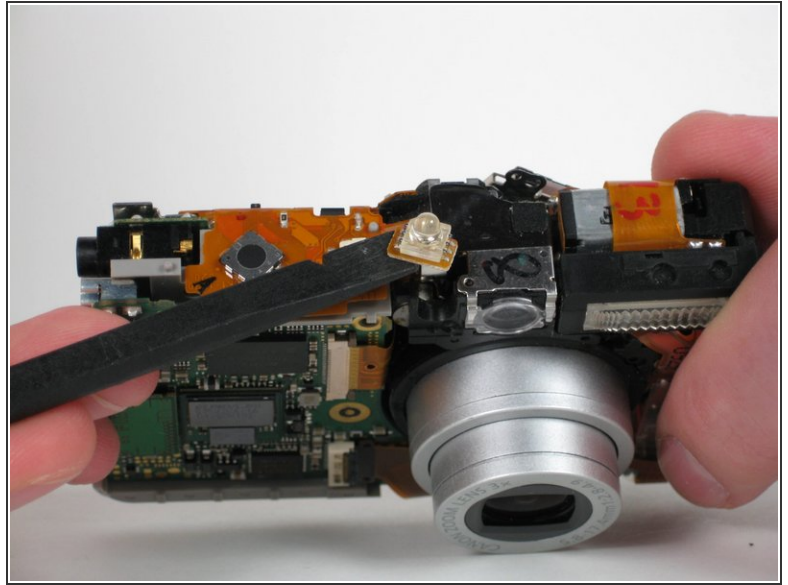
- Remove the one 2.7 mm Phillips screw from the left side of the camera.

Step 16



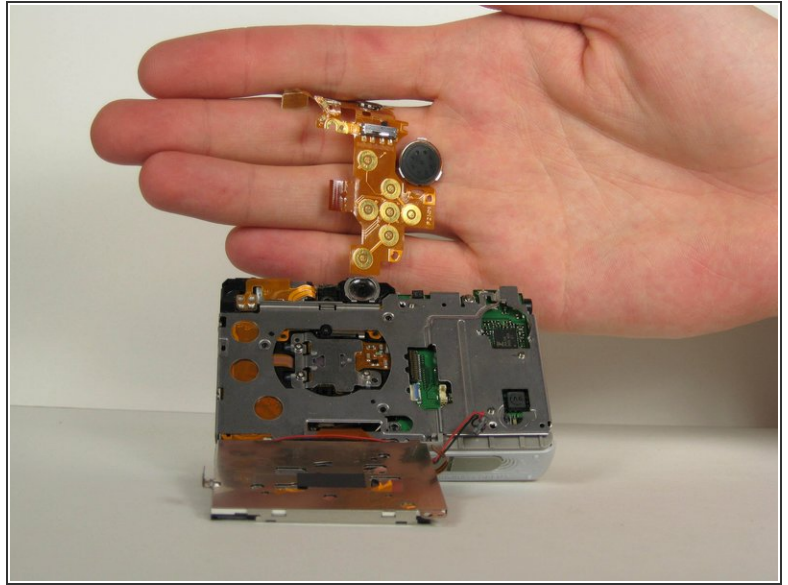
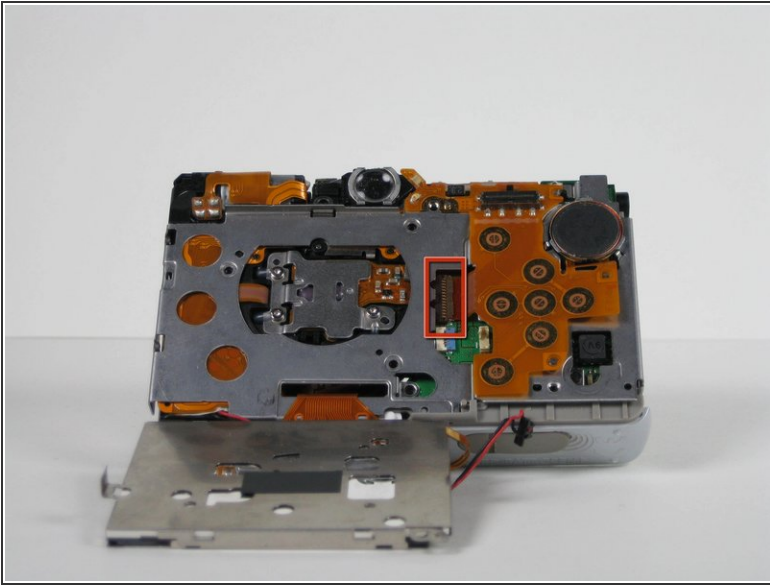
- Using the flat end of the spudger, begin to slightly peel back the orange ribbon cable from the rest of the camera by lifting up at the bottom corner. The ribbon cable should pop off of the pegs.
- Rotate the speaker so that it unlatches from the camera frame. Then use the flat end of the spudger to lift up the speaker from the rest of the camera.

Step 17



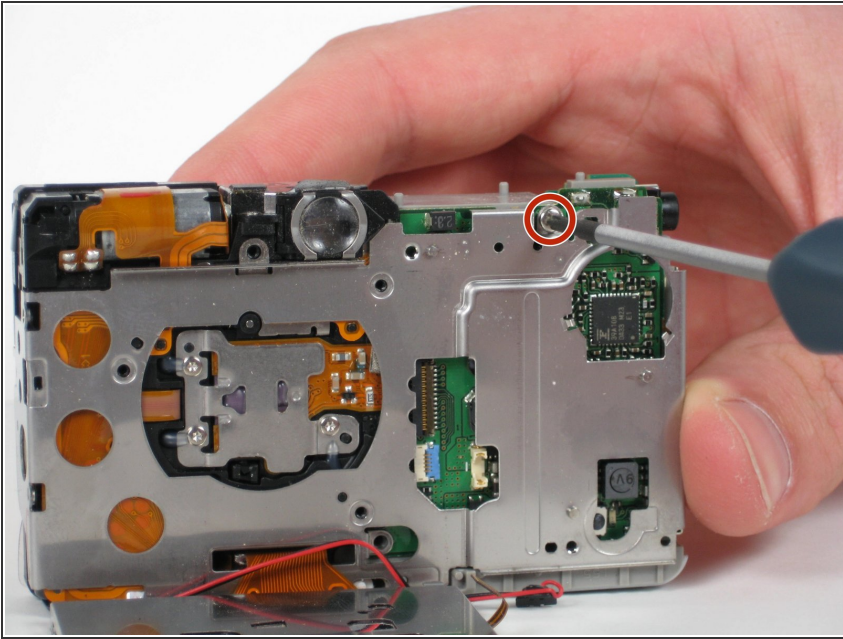
- Use the flat end of the spudger to peel back the orange ribbon cable on the top of the camera where the power button contact is located. Only apply enough force to lift the power button contact up from the rest of the camera.
- Use the flat end of the spudger to lift up the LED bulb from the rest of the camera.

Step 18



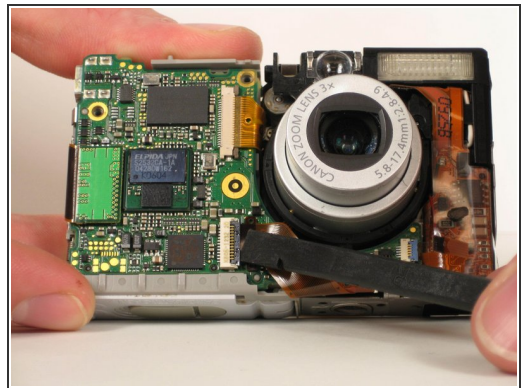
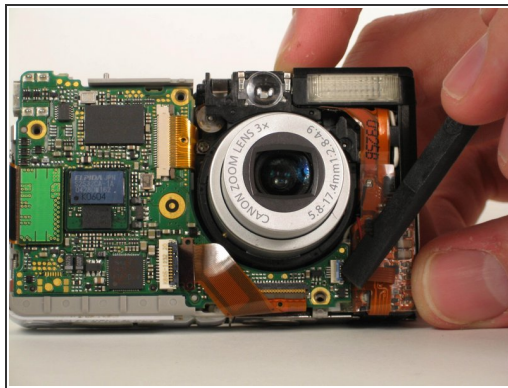
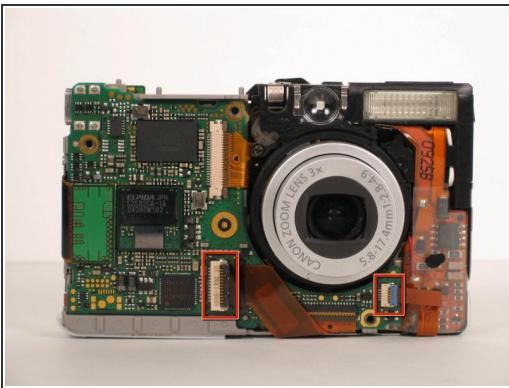
- Rotate the camera upside down to locate the small black ZIF connector located in the middle of the camera.
- Use the flat end of the spudger to flip up the tab on the black ZIF connector. Pull the ribbon cable straight out.
- Remove the orange ribbon cable from the rest of the camera.

Step 19



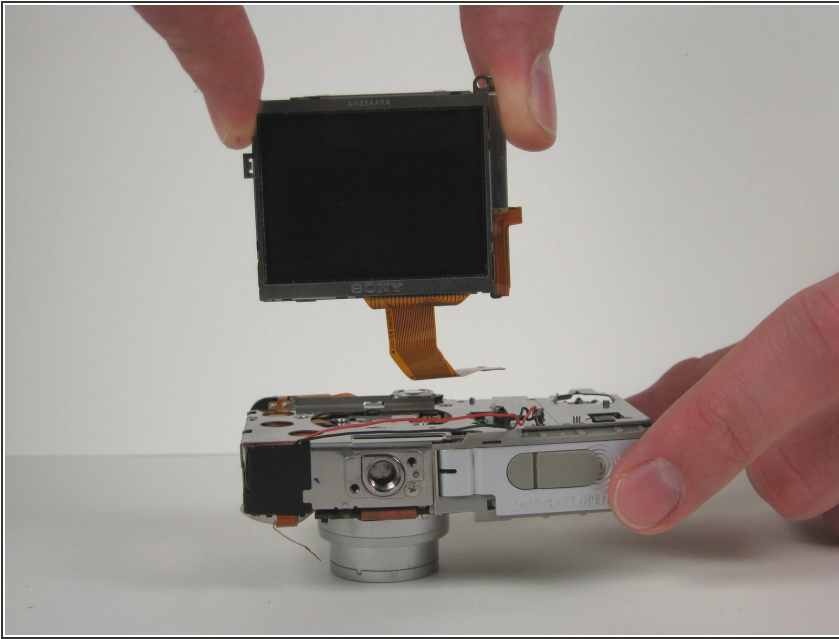
- Remove the one 4.3 mm Phillips screw that is now visible, which is located at the top right of the back of the camera.

Step 20



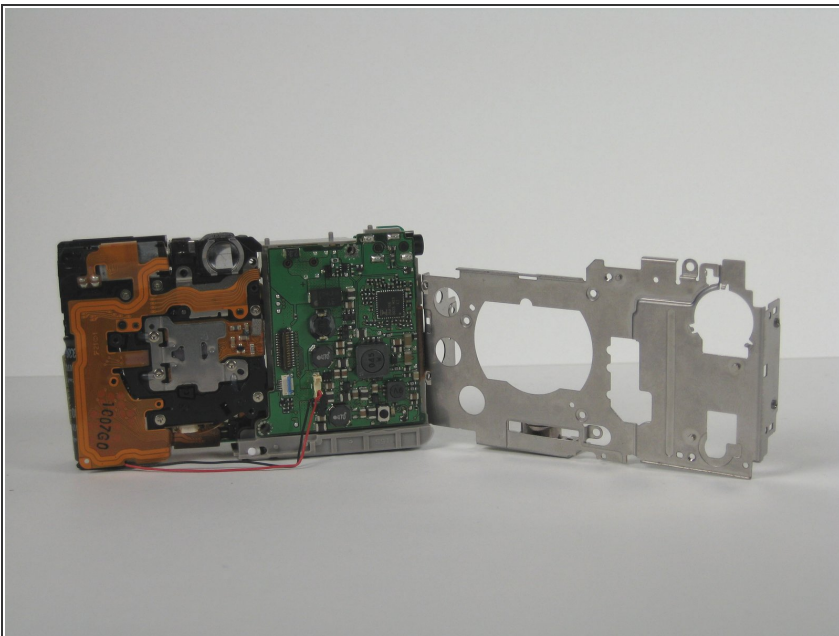
- Locate the two ZIF connectors on the front of the camera.
- Use the flat end of the spudger to flip up the tab on the blue ZIF connector. Then pull the ribbon cable straight out.

Step 21



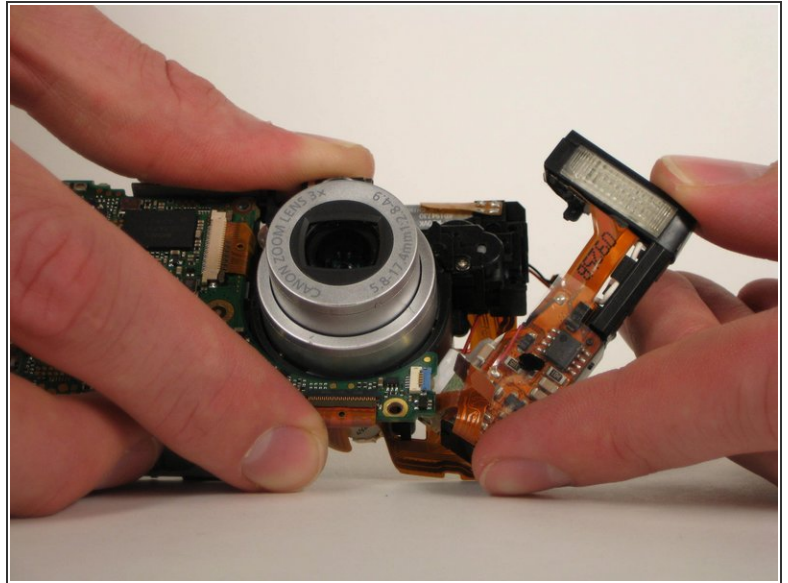
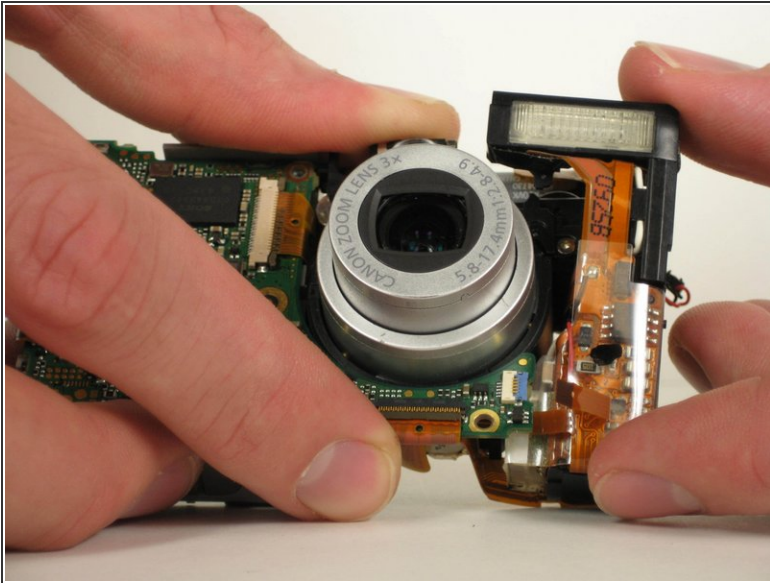
- Lay the camera on its front side.
 - Hold down on the camera's metal casing with one hand. Using your other hand, lift the LCD screen straight up, making sure the LCD screen's ribbon cable slides free of metal casing.
- ★ When reassembling, the LCD screen ribbon cable must go through its slot in the metal backing before attaching the back metal casing.


Step 22 — Flash Assembly



- Use your fingers to carefully pry off the back metal casing.
- ⚠ Once the metal back casing comes off, the camera will lose most of its rigidity and will want to fall apart. Hold the camera with both hands to avoid damage to the camera.
- Separate the metal case and tripod internal thread end from the rest of the camera.

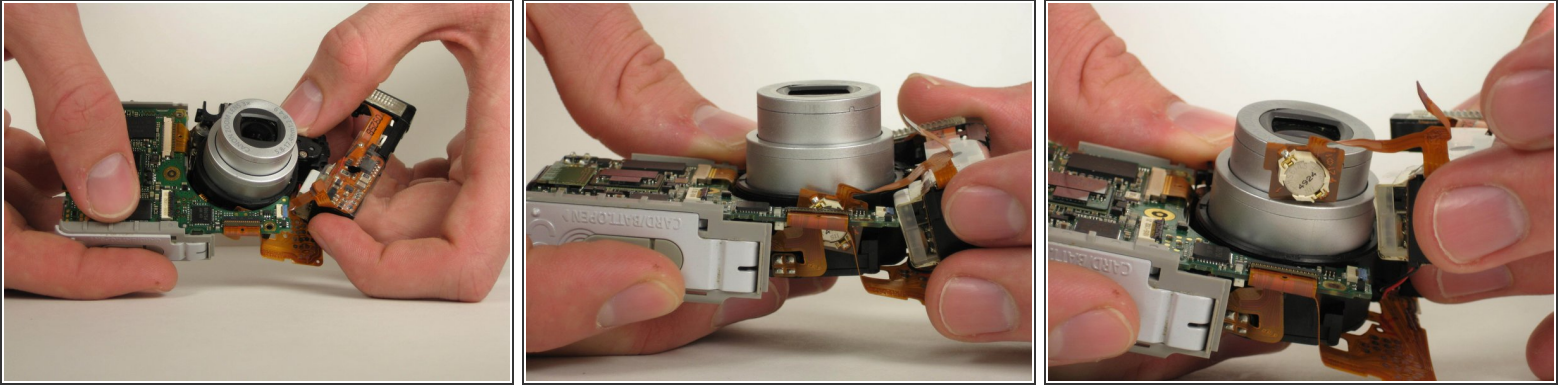
Step 23



 Before working on the flash assembly make sure the flash is completely discharged or pay attention to where your fingers are. The capacitor in the flash assembly can hold a charge for a long time and it can shock you.

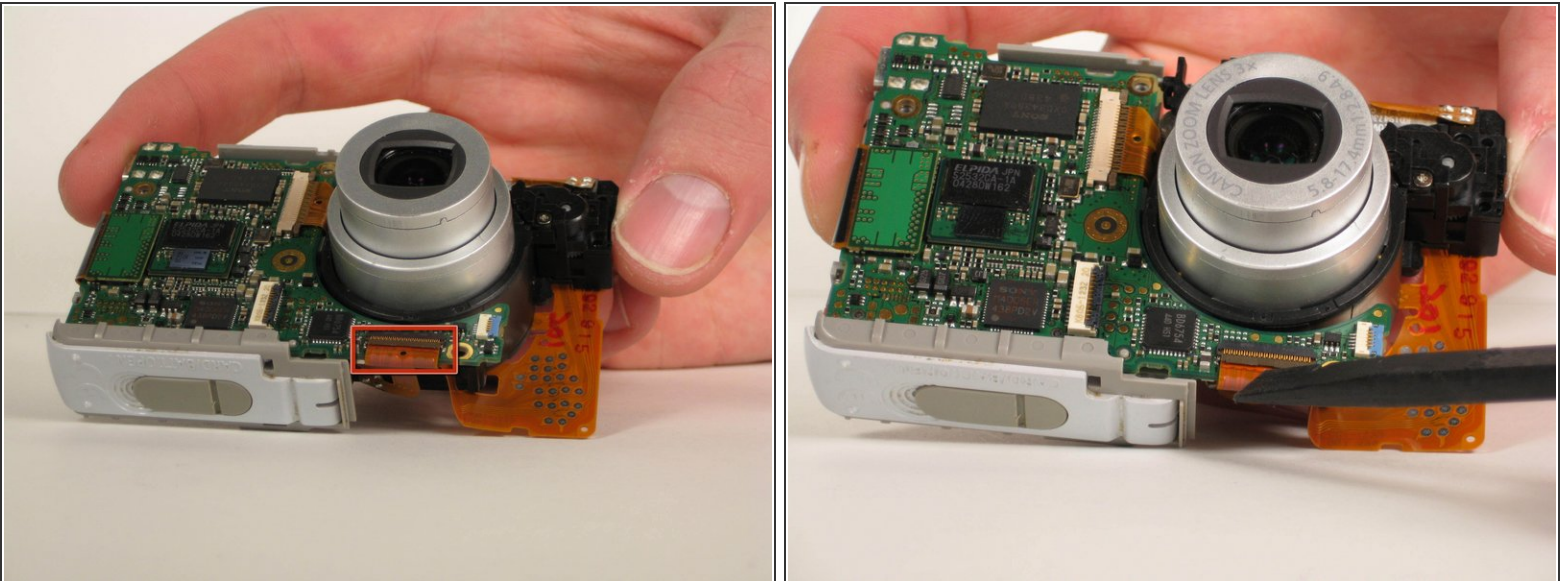
- Lift flash assembly up.
- Rotate flash assembly away from the camera.

Step 24



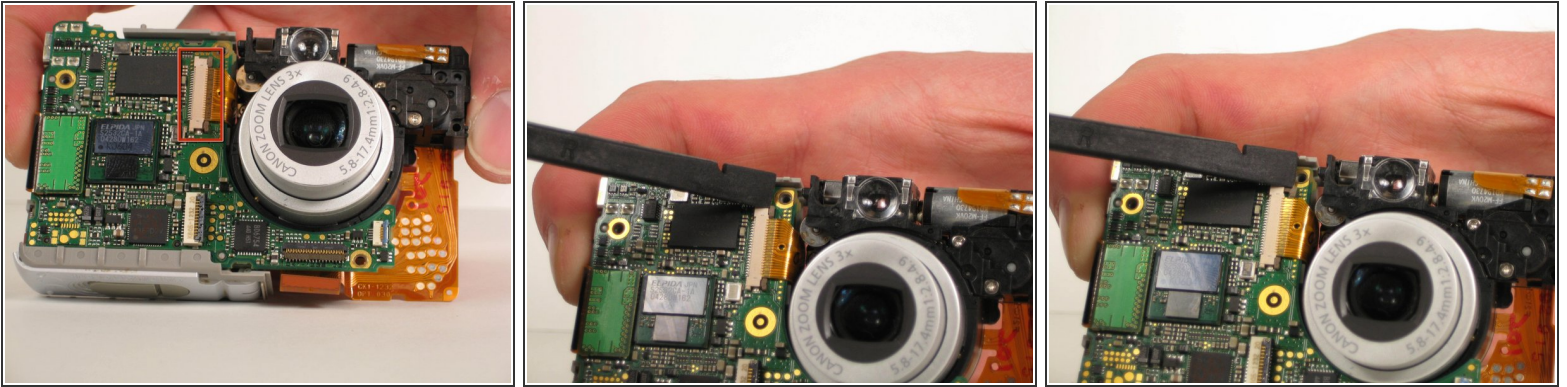
- Use your fingers to give a small gap of space between the bottom of the lens assembly and the motherboard.
- Slide the small circular battery, which is part of the flash assembly, through the small gap.
- Separate the flash assembly from the rest of the camera.

Step 25 — Motherboard



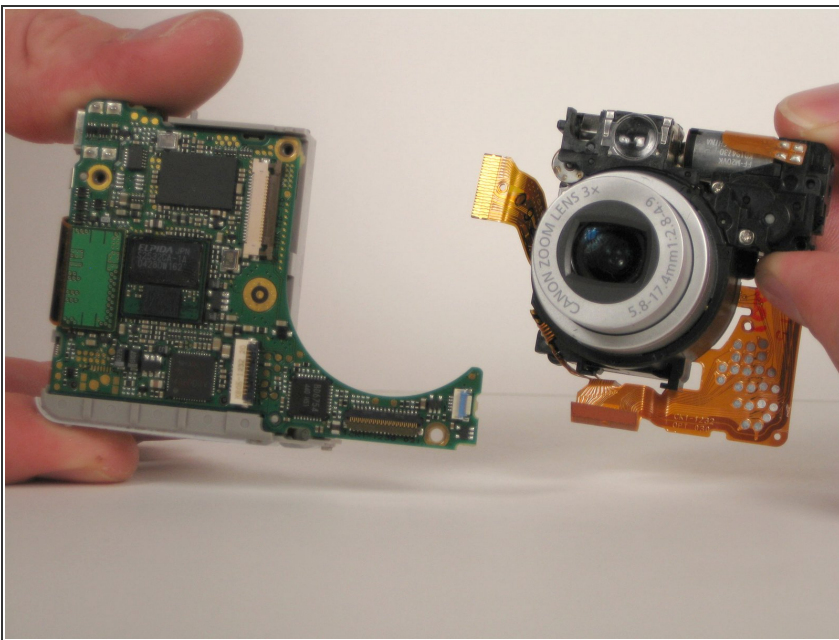
- Locate the black ZIF connector located directly below the lens.
- Use the flat end of the spudger to flip up the black tab on the ZIF connector and pull the ribbon cable straight out.

Step 26



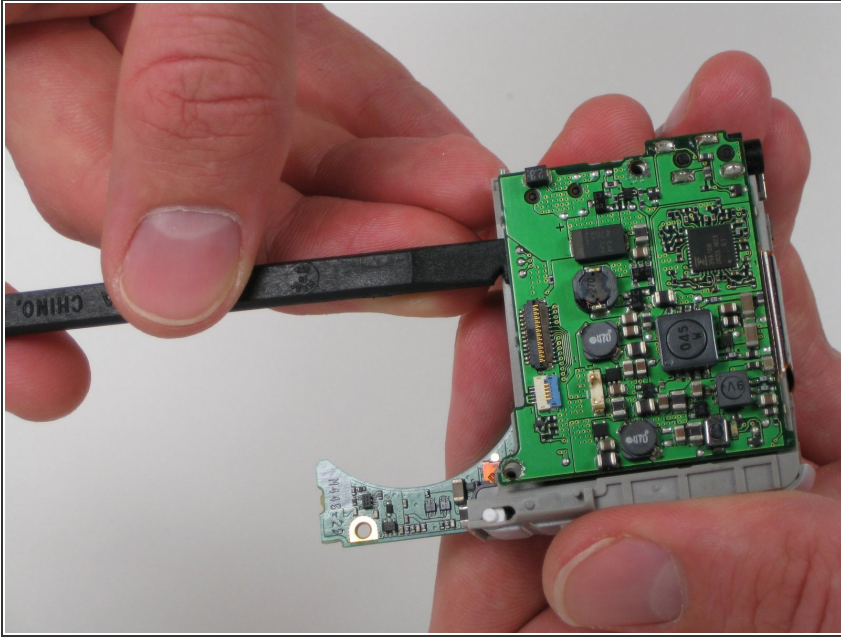
- Locate the brown ZIF connector located on the front of the camera.
- Use the flat end of the spudger to push the small top brown tab out towards the lens. Repeat for the bottom brown tab.
- Pull the ribbon cable out from the ZIF connector.

Step 27



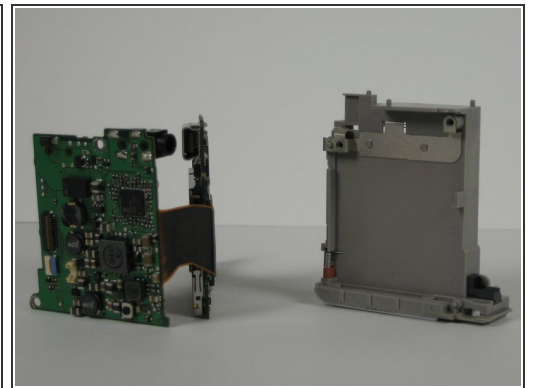
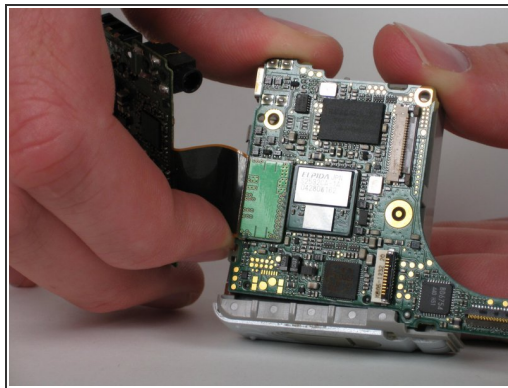
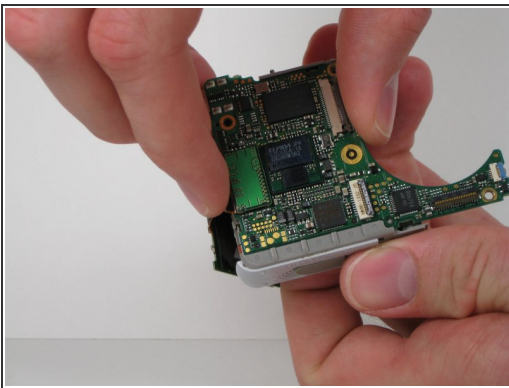
- Pull the lens assembly away from the motherboard assembly.

Step 28



- Use the flat end of the spudger to loosen the connection from the battery holder and gently pry the side of the motherboard off of the battery holder.

Step 29



- Pull the back side of the motherboard around the battery holder.
- Wiggle the motherboard so it can free itself completely from the battery holder.

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