



Canon PowerShot A1000 IS Teardown

This guide will document the teardown of the A1000 IS.

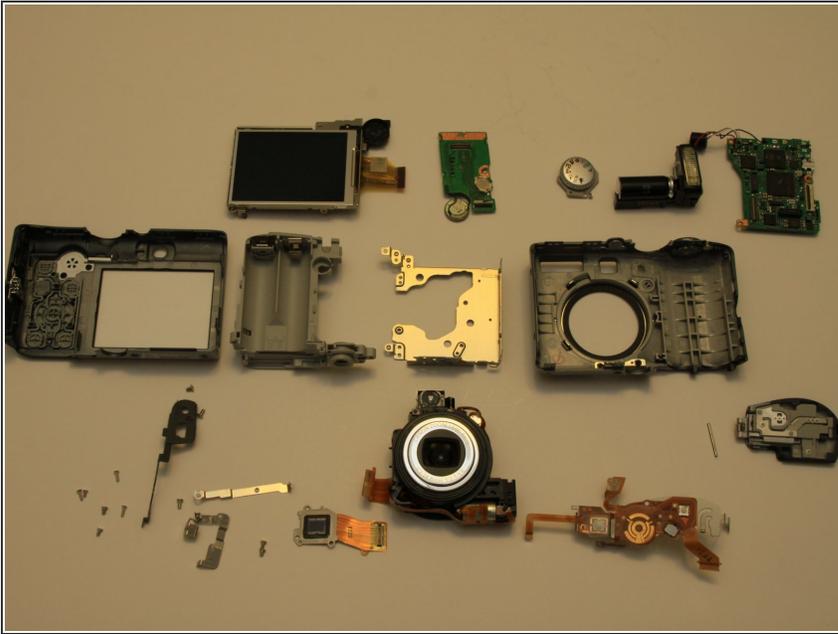
Written By: Biff Wheeler



 **TOOLS:**

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

Step 1 — Canon PowerShot A1000 IS Teardown



- I've started fixing the Canon Powershot Cameras. A lot of them have been showing up with E18 lens errors, broken battery covers, and of course the famous broken LCD cover/screen. This teardown and the accompanying repair guides should help you with most of those problems. Time for a teardown!

Step 2



- Start by removing these three screws. The first two on the left are longer, coarse thread for the plastic, the one on the right is a fine thread that taps into the metal plate underneath.

Step 3



- On the right side of the camera, remove the two fine thread screws.

Step 4



- On the left side, remove the two coarse thread screws.

Step 5



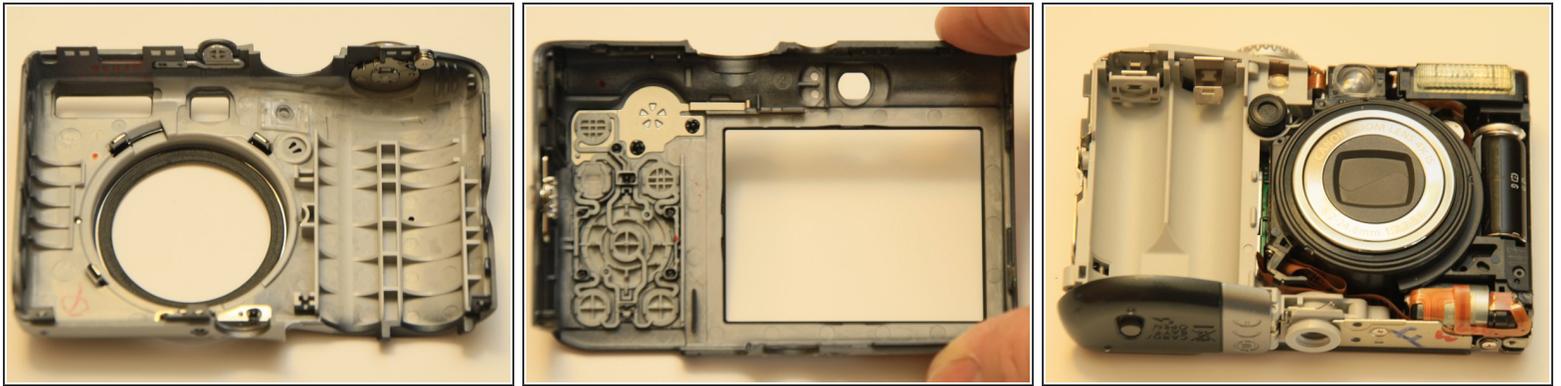
- The last coarse thread screw is located under the battery/memory card cover. Remove this screw and we will be ready to open this baby up!

Step 6



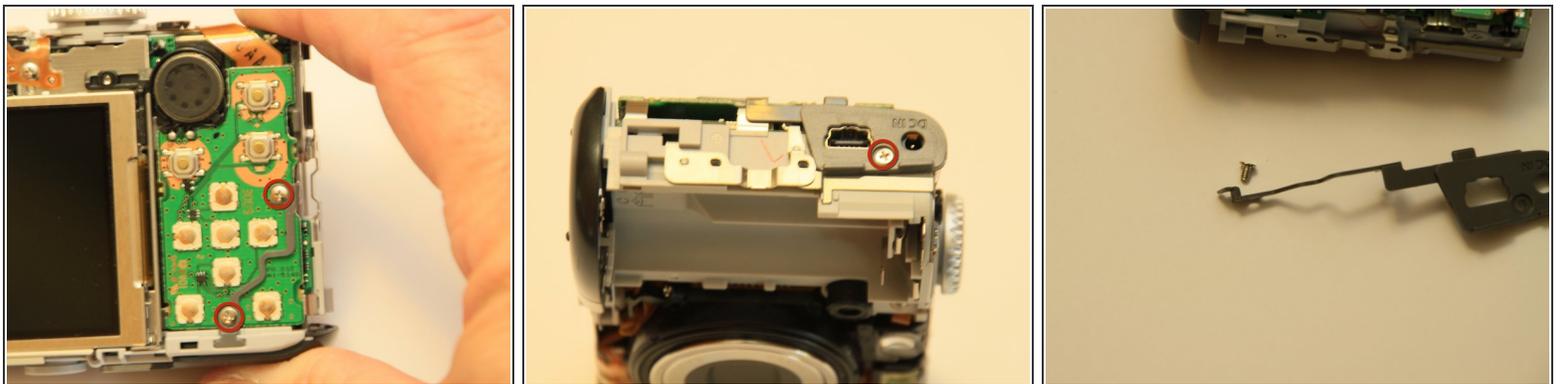
- Slowly pry apart the two covers from the bottom. When you have them apart about 1/4", take you finger and run it lightly along the the top of the camera on the back cover side. This should release the three catches on the the shell.

Step 7



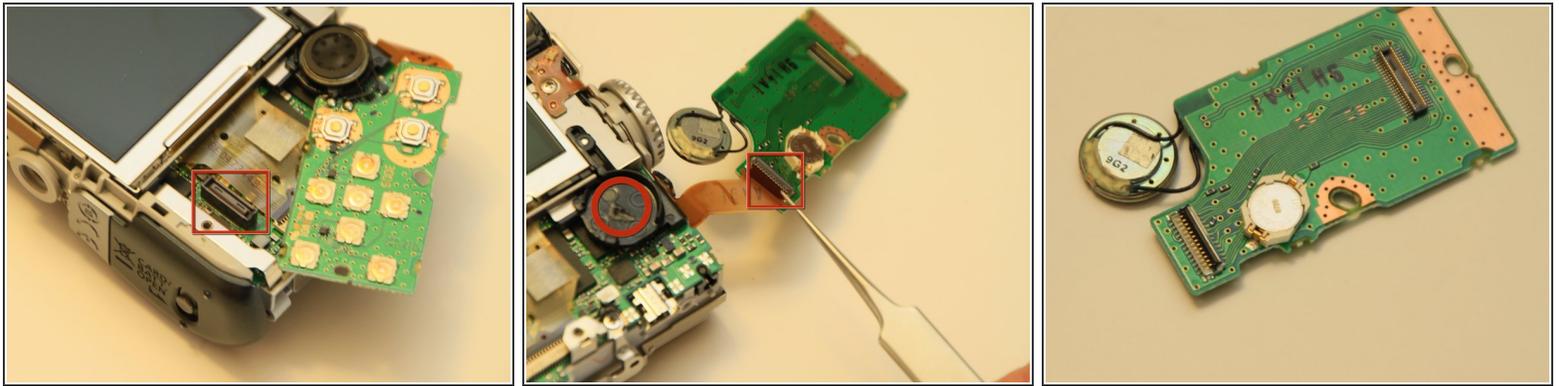
- We now have the front cover, the back cover, and our main camera. Next we'll remove the keypad.

Step 8



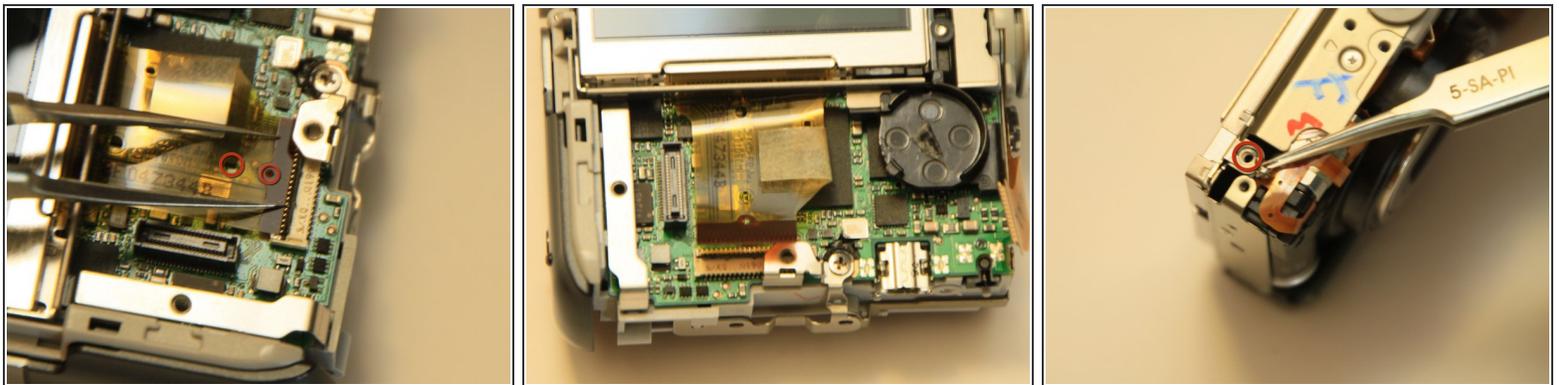
- Remove the two fine thread screws on the top of the keypad. Then remove the one coarse thread screw holding the plastic piece in place on the side of the camera. Remove the plastic piece.

Step 9



- Gently lift the keypad up from the bottom to remove it from the connector shown. You may need to pry up the speaker from its holder, it is held in place with double-sided tape. Lift the keypad upside down and unhook the connector by lifting the gray cam and removing the flexible cable.

Step 10



- Let's remove the LCD Screen. Gently lift the black cam and remove the flexible cable. You can grab it with tweezers or use one of the holes in the flex cable to pull it back from the connector.
- Next, remove the fine thread screw holding the screen plate to the bottom of the camera.

Step 11



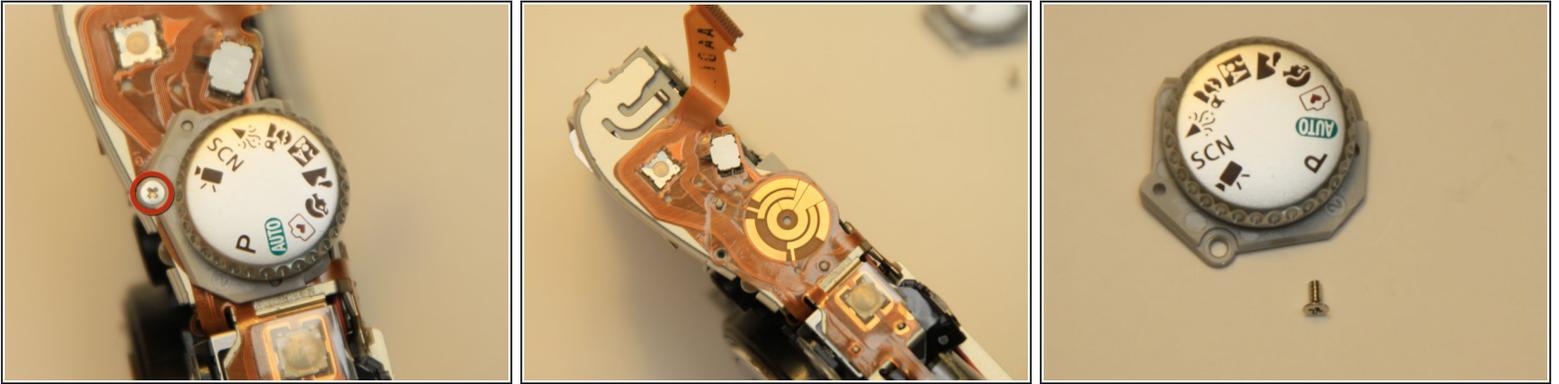
- Remove the fine thread screw holding the screen plate to the top of the camera near the view piece.
- Using a small screwdriver or stick, pry up the catch at the bottom of the screen.
- This releases the screen and it can be rotated out from underneath the flexible circuit card and removed.

Step 12



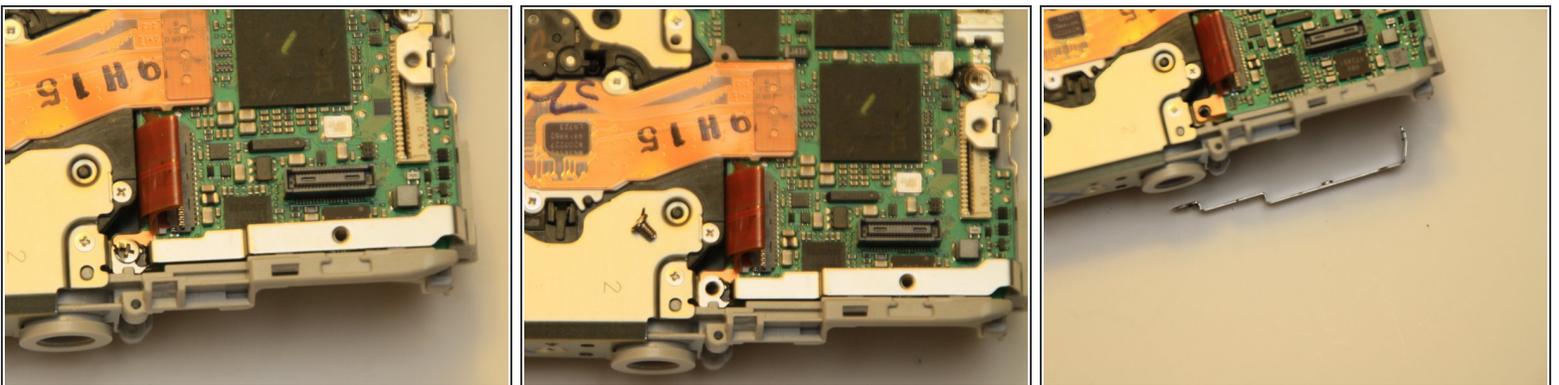
- Next, let's remove the battery door.
- The battery door is held in place with a steel dowel but first undo the spring tension by lifting the spring out of it's retainer.
- Push the dowel through with a pin, the end of the tweezers, or a paperclip.
- Grab the dowel from the other end and pull it out.

Step 13



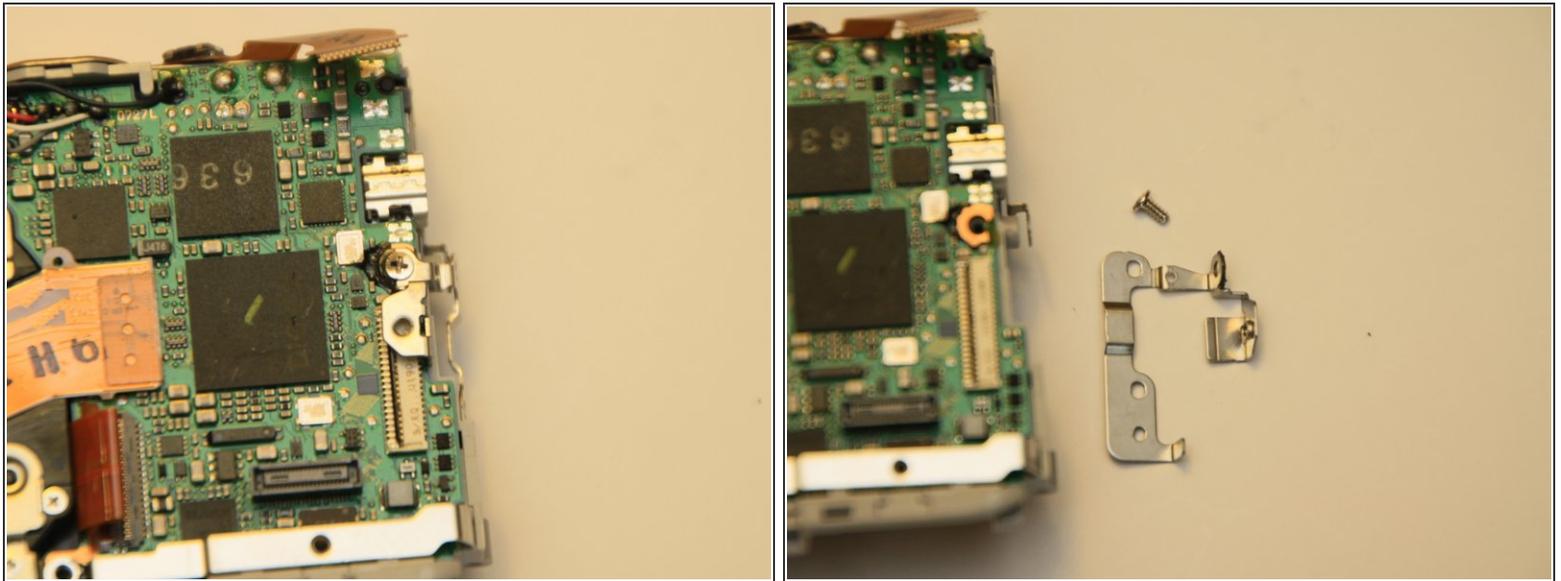
- We'll take off the mode select switch next.
- Remove the coarse thread screw and then rotate the switch towards the back of the camera.

Step 14



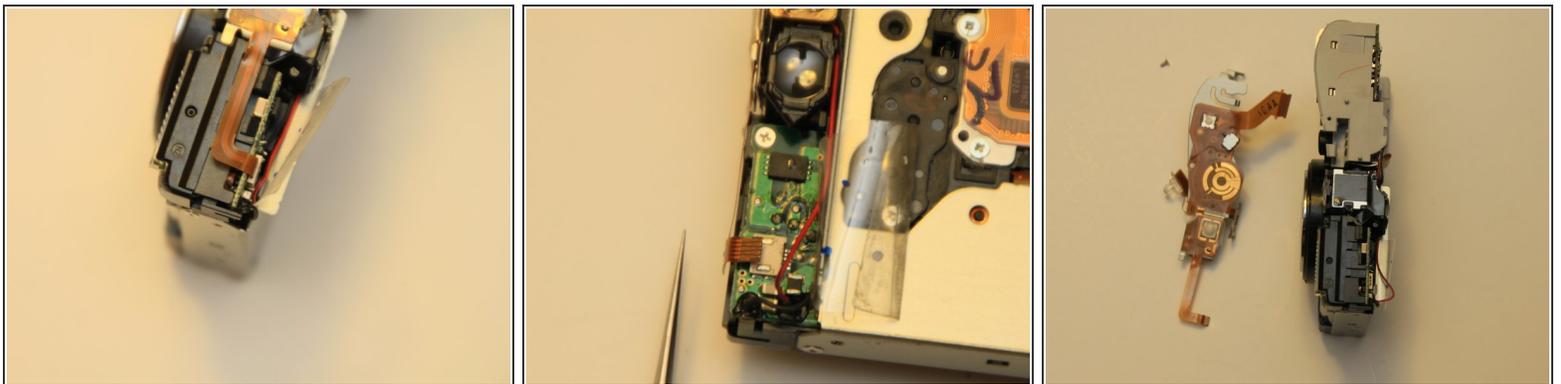
- Remove the coarse thread screw from the lower keypad bracket.

Step 15



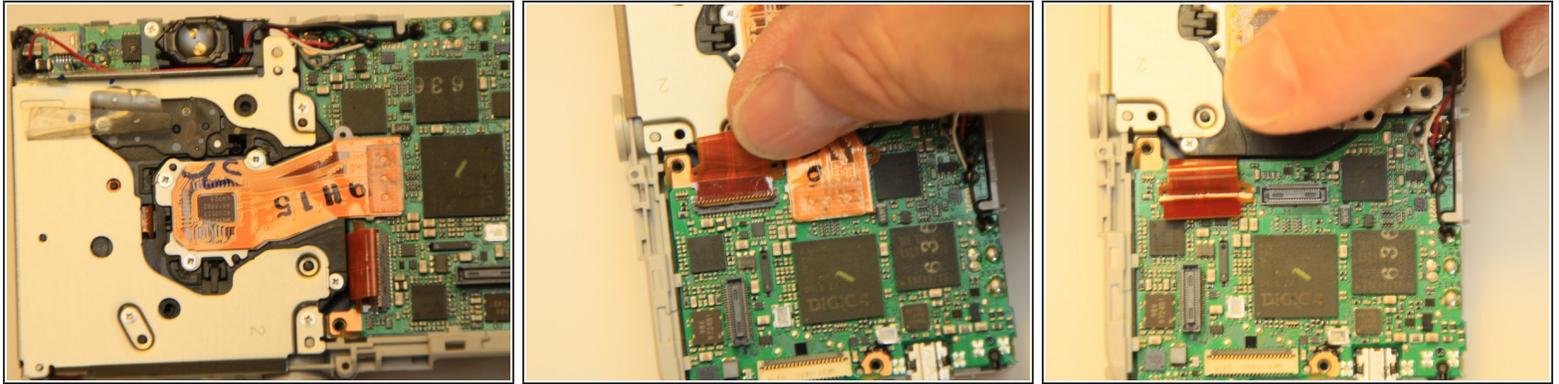
- Remove the coarse thread screw from the upper keypad bracket.

Step 16



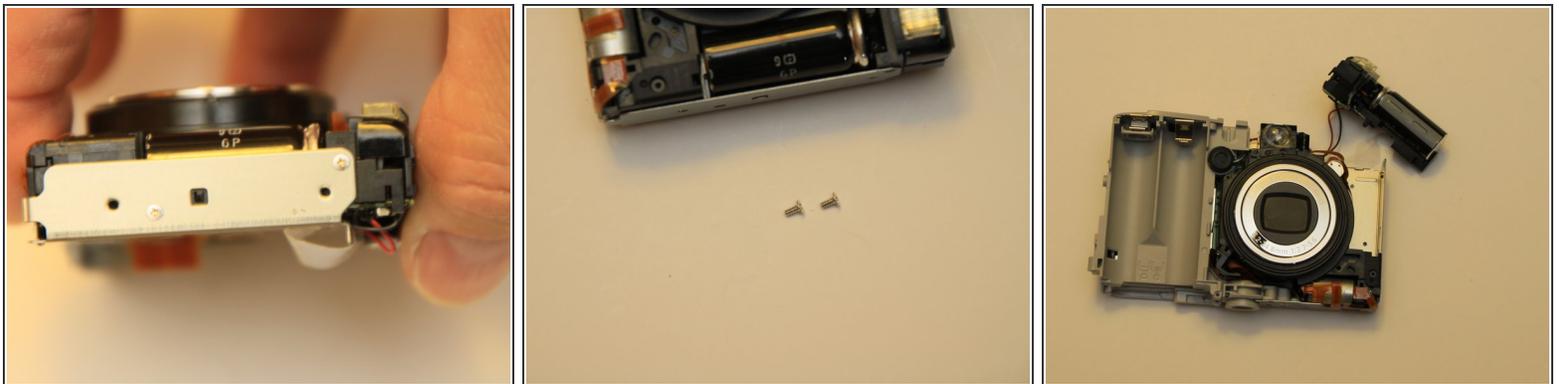
- Lift the plastic protector off the circuit ribbon on the top of the camera.
- Grab the flexible ribbon near the connector and pull up. this is one of the few connectors that do not have a cam mechanism to hold the ribbon in place. Gently lift the ribbon out of the catches on the top of the flash assembly.
- The circuit assembly can be lifted off the top of the camera.

Step 17



- Gently lift the CCD flexible cable off of the main circuit board but lifting it up with your tweezers or a fingernail.
- Lift the gray cam on the lens motor assembly and lift the flexible cable out with your tweezers.

Step 18



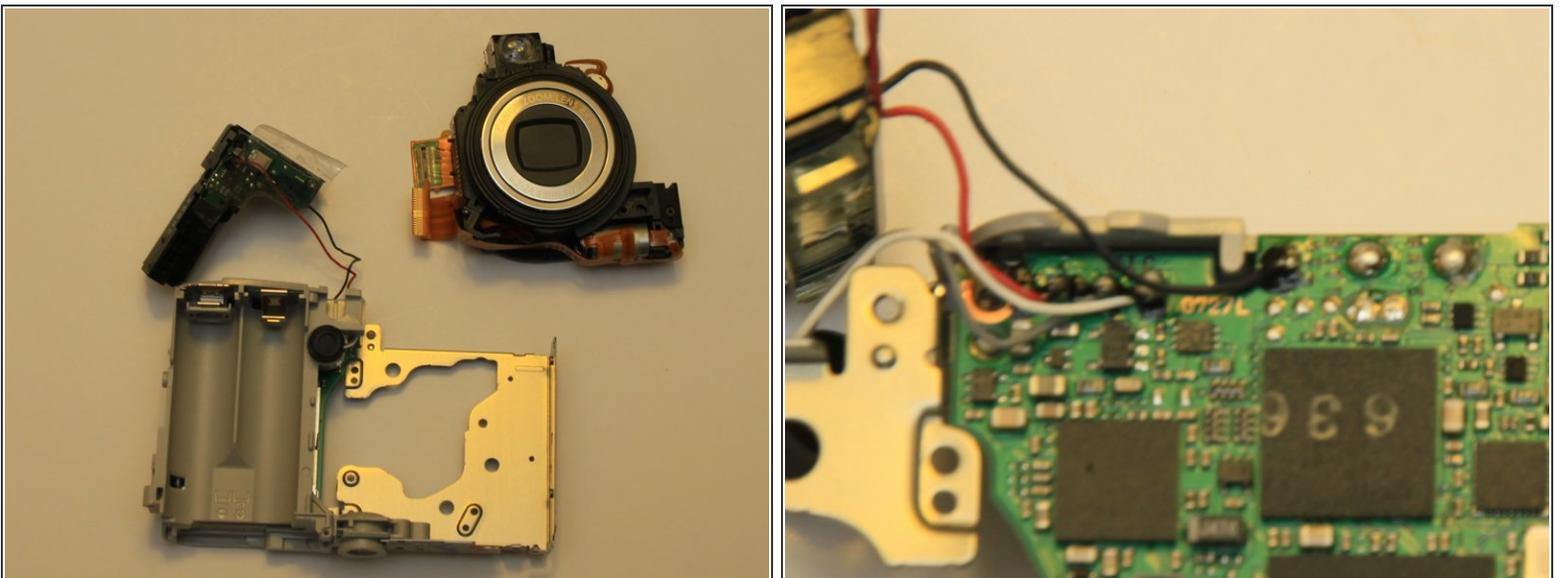
- remove the two coarse thread screws from the main camera bracket. These screws hold the flash assembly in place.
- The flash assembly can now be carefully lifted up and out of the main camera bracket.
- **Watch out!** The flash capacitor packs quite the punch!

Step 19



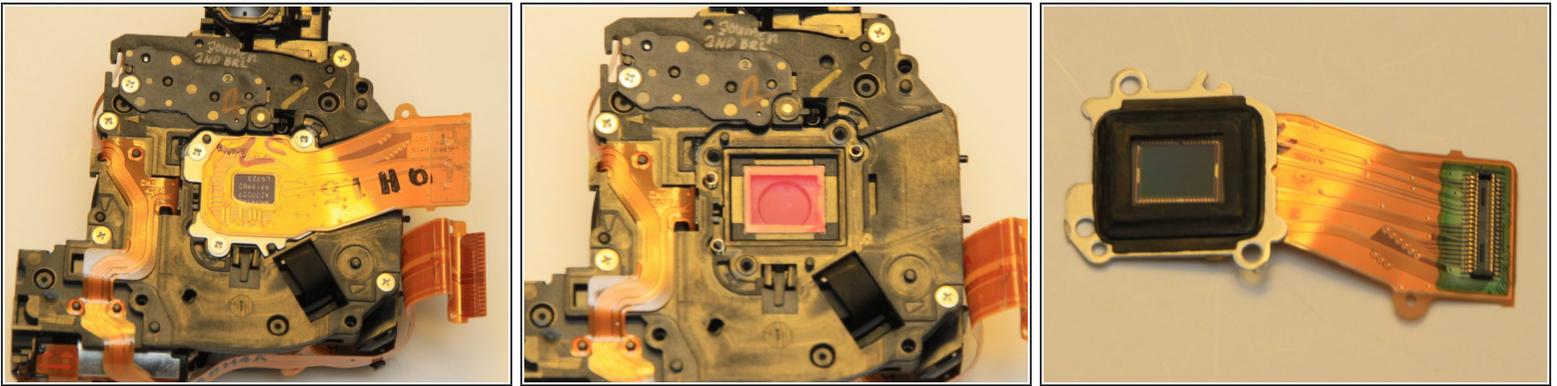
- Remove the three coarse thread screws that attach the lens assembly to the main camera bracket.
- The Lens assembly can now be rotated out of the main camera bracket and removed.
- Take care to thread the CCD and lens assembly flexible circuit connectors through the opening.

Step 20



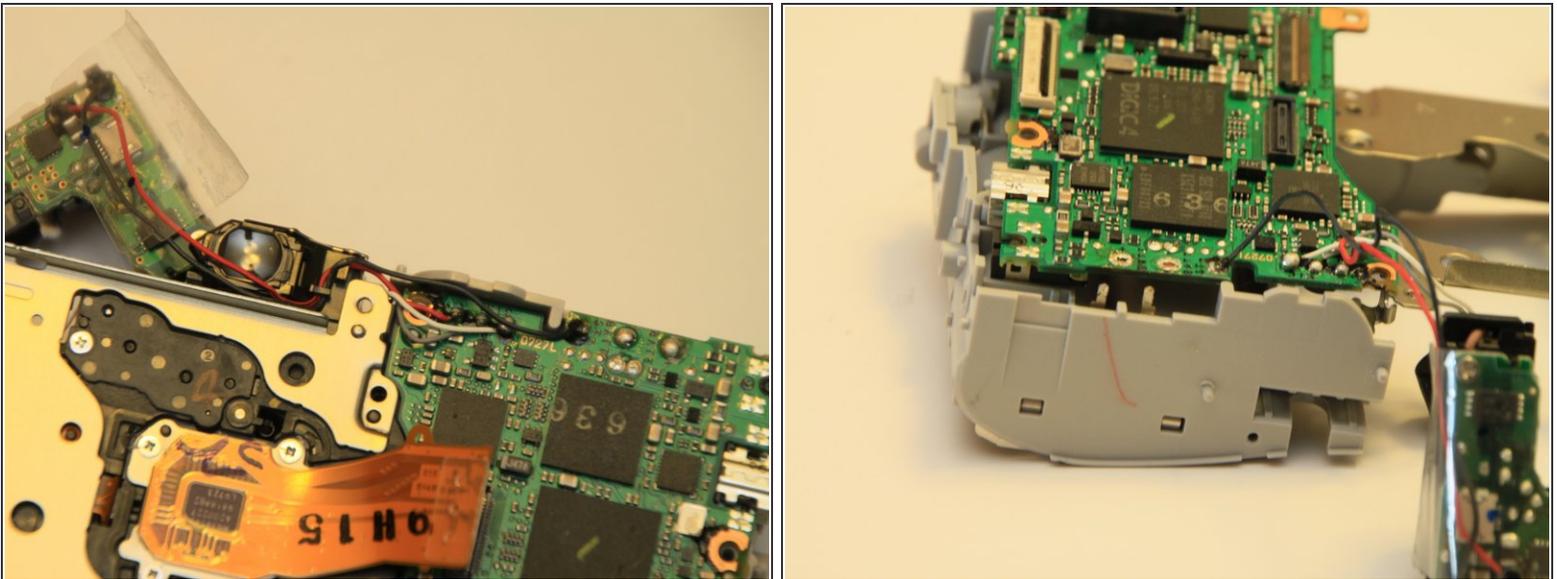
- The lens assembly is now free. We'll remove the CCD in the next step.
- You can unsolder the flash assembly and microphone now. I didn't because I wanted to put this thing back together!

Step 21



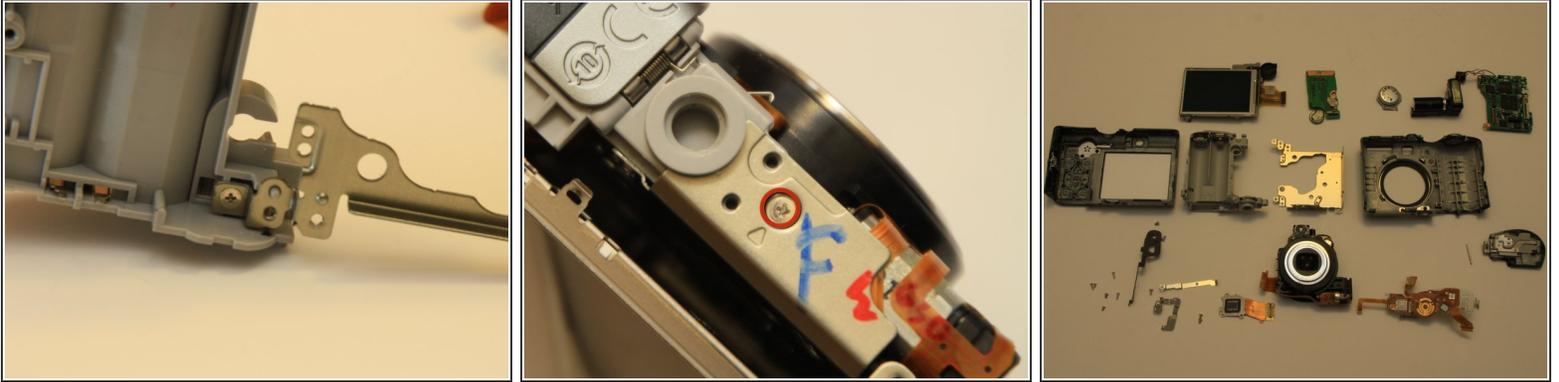
- Remove the epoxy from the three coarse thread screws. Slowly loosen the three screws a little bit at a time. There are three springs underneath the metal plate that you might not want to launch. First time I did this I lost two of the three. The pink looking lens is a filter, if you turn the lens over it will fall out o be careful if you want to keep it.

Step 22



- Unsolder the two points that attach the battery compartment to the main circuit board.
- Gently lift the circuit board off the battery compartment.

Step 23



- Remove the coarse thread screw from the top of the battery compartment.
- Remove the coarse thread screw holding the battery compartment to the bottom of the main camera bracket.
- That's it!

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