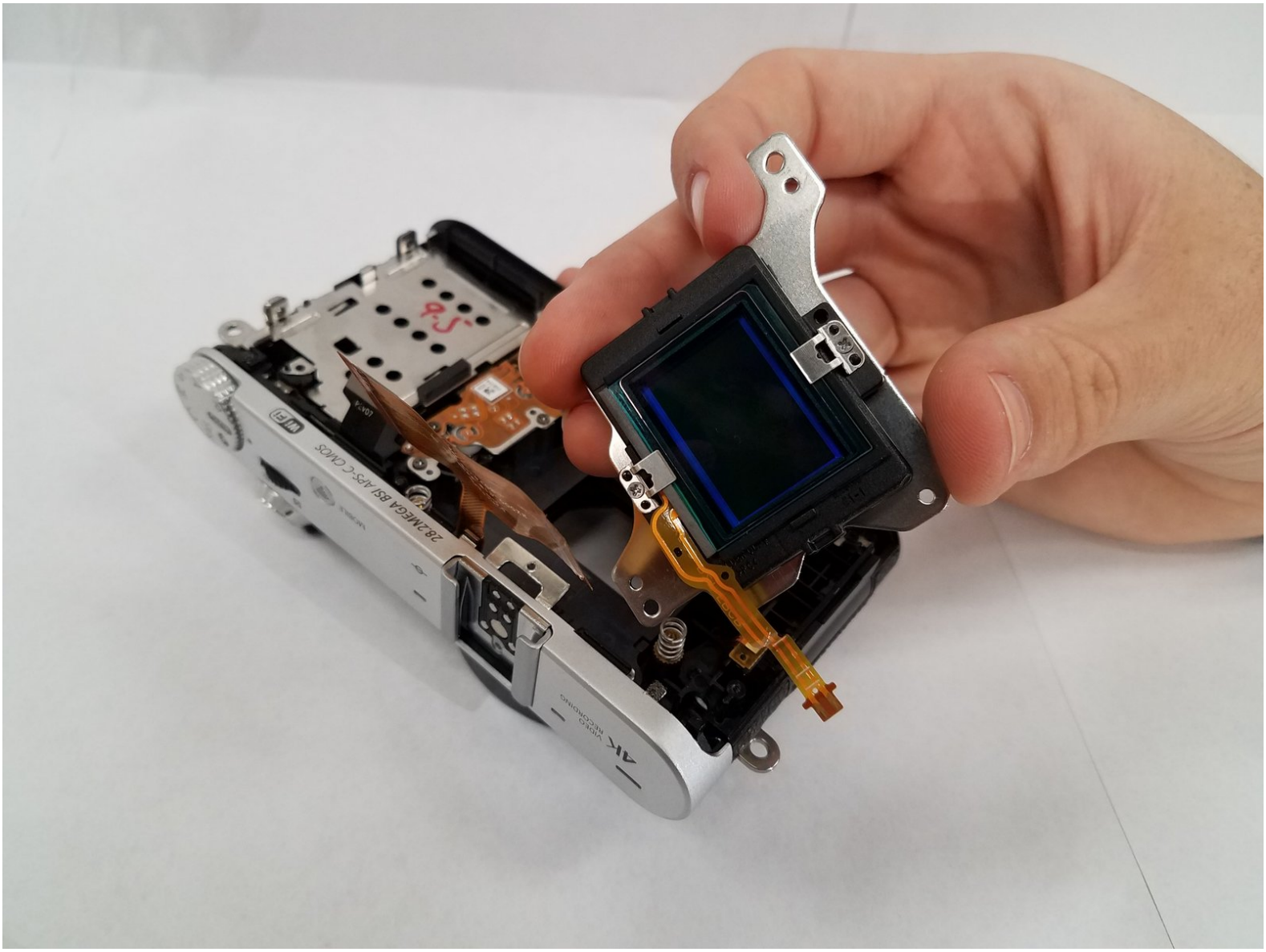
Samsung NX500 Image Sensor Replacement

If you have confirmed that your image sensor is bad, check out this guide.

Written By: Eli Carcalete



INTRODUCTION

If your camera has been exposed to high heat or prolonged periods of time in high temperature conditions, your camera's image sensor could be shot. A bad image sensor can cause a very distorted image or in some cases even a completely black screen when turned on.

TOOLS:

- iFixit Opening Tools (1)
- Tweezers (1)
- Phillips #000 Screwdriver (1)
- T6 Torx Screwdriver (1)

Step 1 — Battery

- Pull the switch on the bottom of the camera back with your thumb.

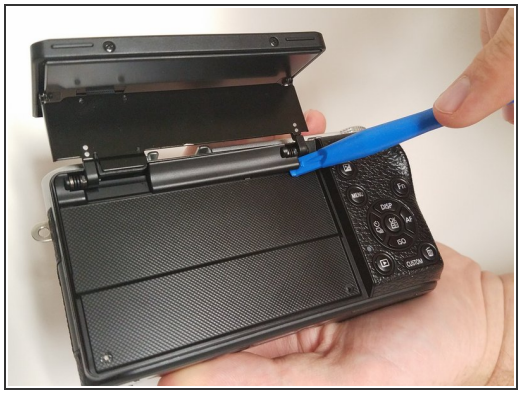
Step 2

- Push second switch(blue) forward with your thumb.

Step 3

- Pull out battery.

Step 4 — Screen Side Encasement



- Open the screen exposing the hinge cover and place the plastic opening tool inside.
- Pry the hinge cover up by moving the plastic opening tool in a downward motion.
- Remove the black 4mm Phillips #000 screw that is revealed once the hinge cover is removed.

Step 5



- Unscrew the two 4 mm Phillips #000 screws on the right hand side of the camera using the screwdriver.
- Unscrew five more 4 mm Phillips #000 screws that are located at the bottom of the camera with the screwdriver.

In the second step, do not the remove the two 4 mm Phillips #000 screen on the screen.

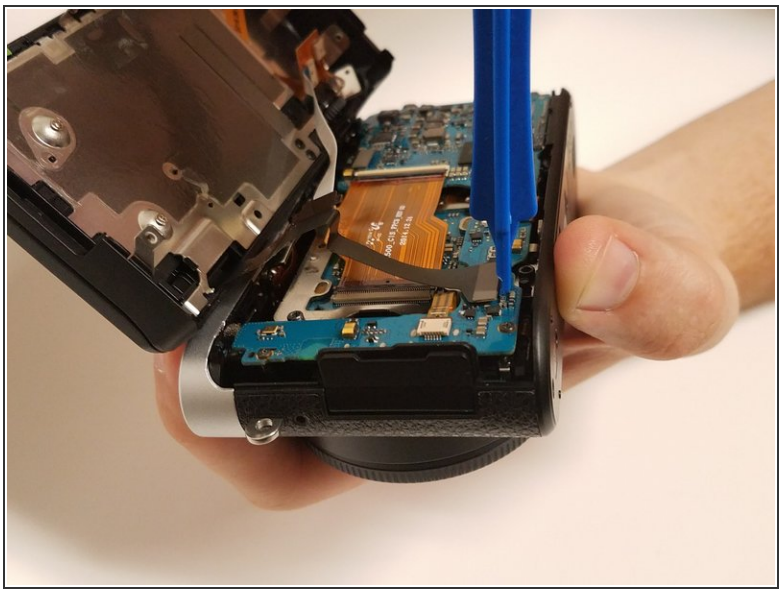
- Remove the last exterior 4 mm Phillips #000 screws on the left hand side of the camera with the scredriver.

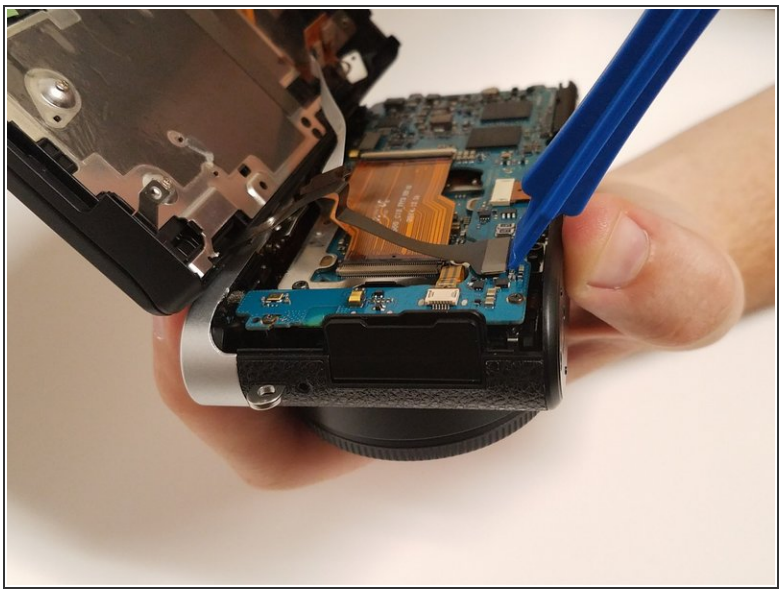
Step 6

- Use the plastic opening tool in a downward motion around each side of the camera to pry the casing open.

⚠ The casing should be removed easily; you shouldn't have to use much force.

Step 7

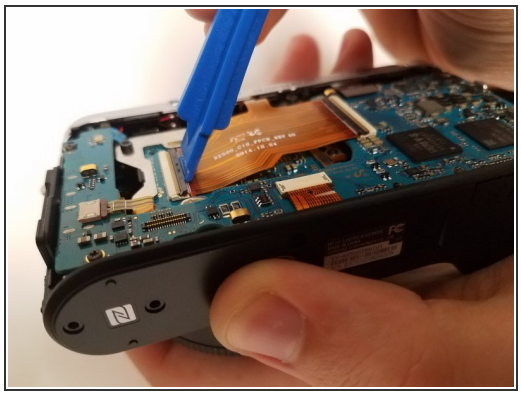
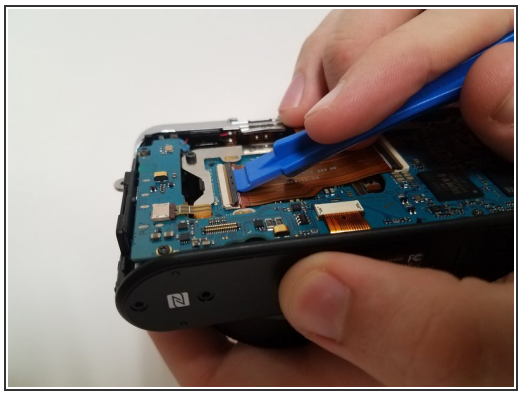




- Locate the black ribbon at the bottom left of the camera's interior.
- Place the plastic opening tool under the black ribbon connector.
- Remove the cable by moving your plastic opening tool in a downward motion.

⚠ There is zero to little force needed to remove this ribbon.

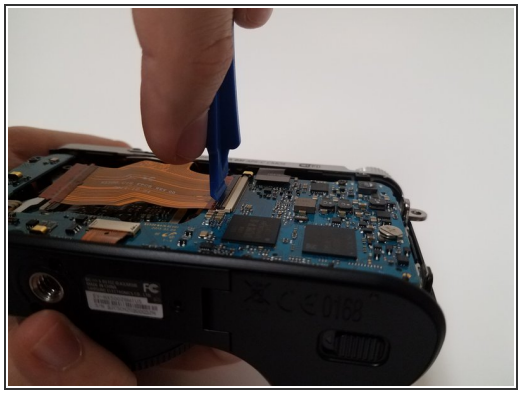
Step 8 — Main board

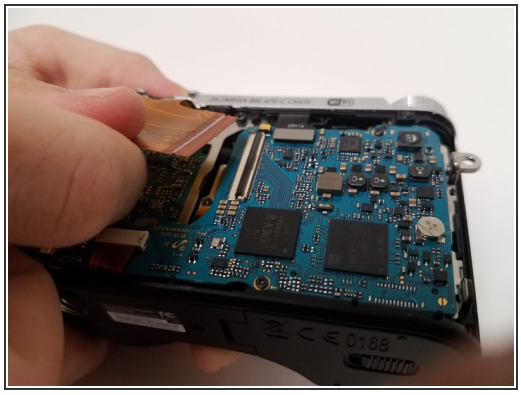




- Lift the black latch of the left main ribbon connector using a wide-set plastic opening tool in a downward motion.
- Use your fingers to disconnect the cable.

There are five ZIF cables total to be removed.

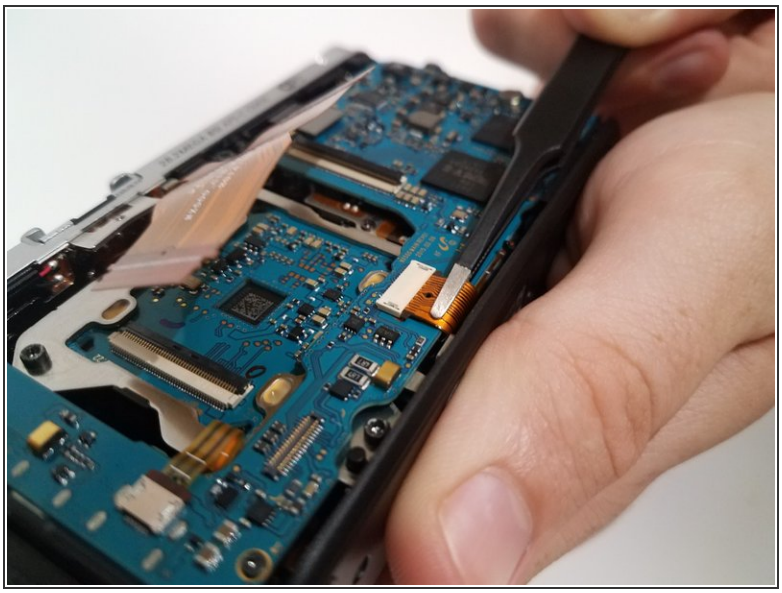
Step 9

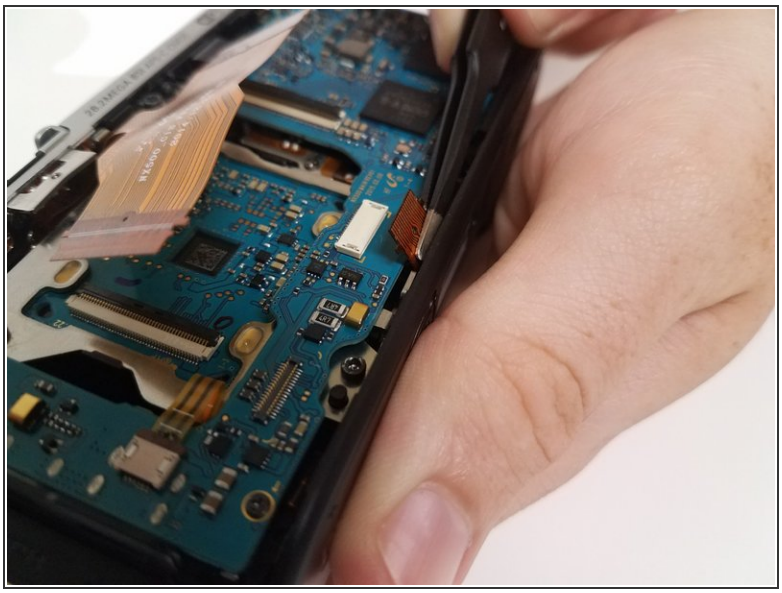




- Use the wide-set plastic opening tool to lift the latch on the right main ZIF cable in a downward motion.
- Disconnect the cable using your finger.

Step 10

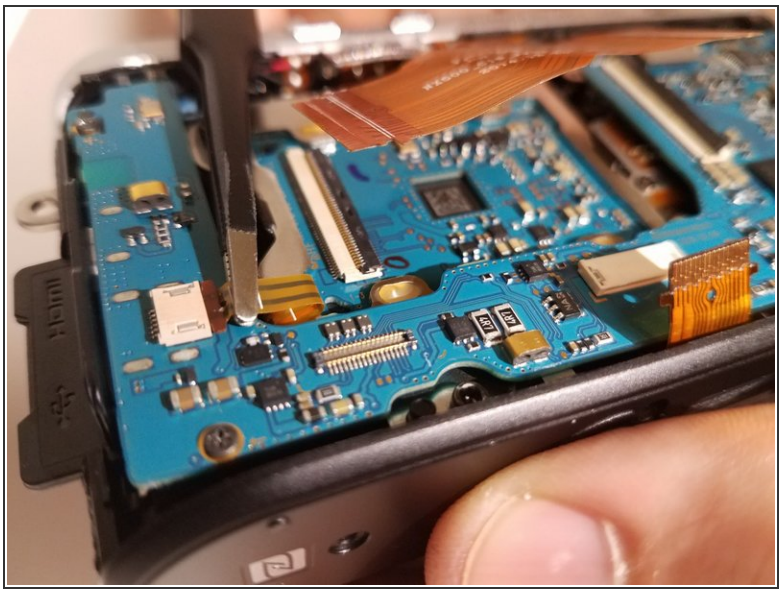
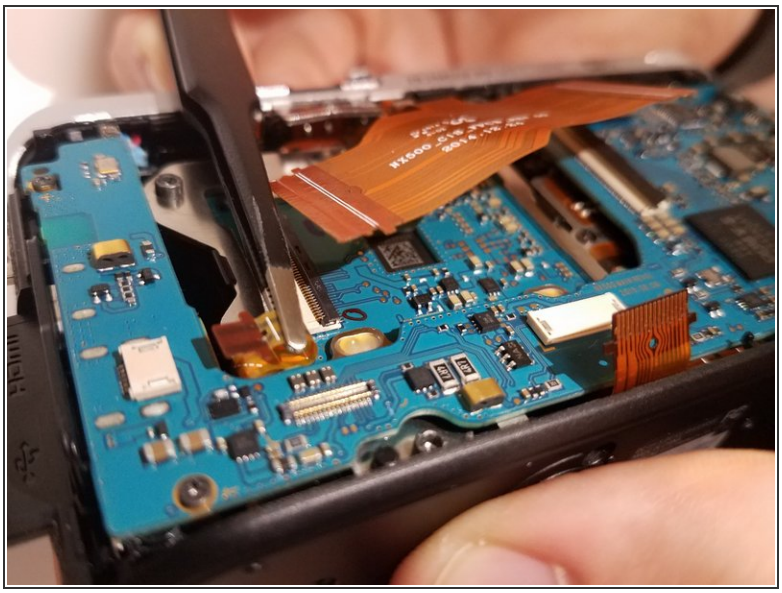




- Locate the ZIF cable at the bottom of the main board.
- Disconnect the cable with the tweezers by pulling it away from where the cable is connected.

⚠ Be careful not tug too hard on the cable as you can damage it.

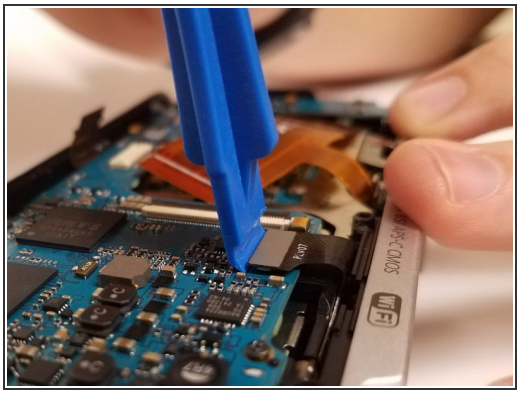
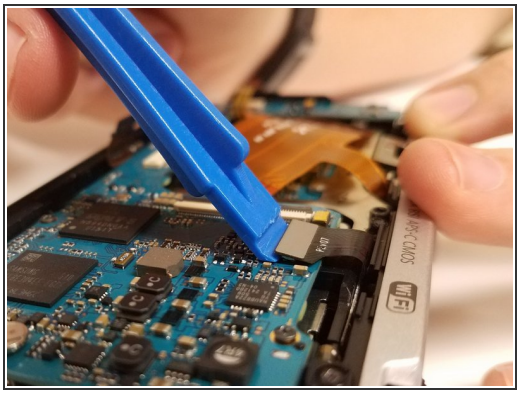
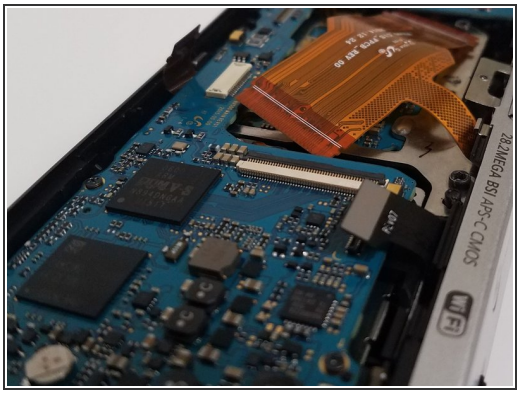
Step 11

- Locate the skinny ZIF cable on the left side of the main board.
- Disconnect the cable with the tweezers by pulling it away from where the cable is connected.

⚠ Be careful not tug too hard on the cable as you can damage it.

Step 12

- Locate the black cable connected at the top right of the main board.
- Place the wide-set plastic opening tool underneath the gray connector and carefully pry it up.

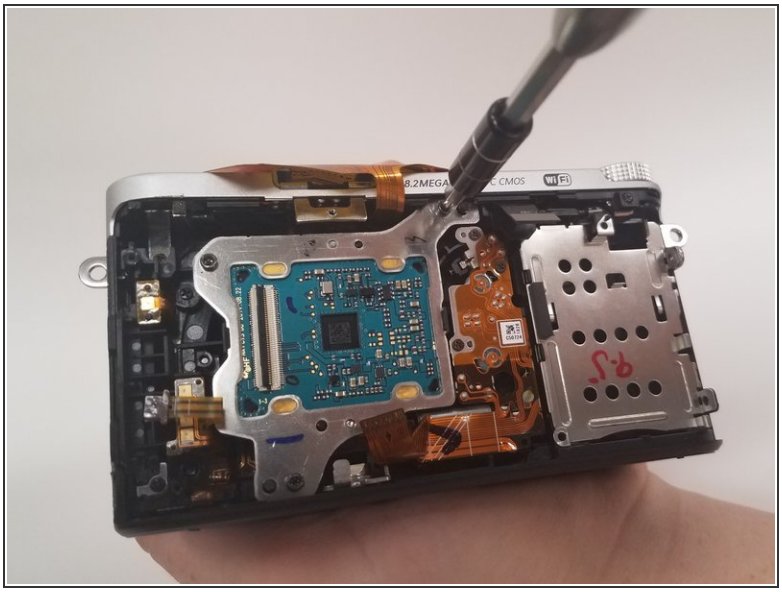
ⓘ It will easily pop up.

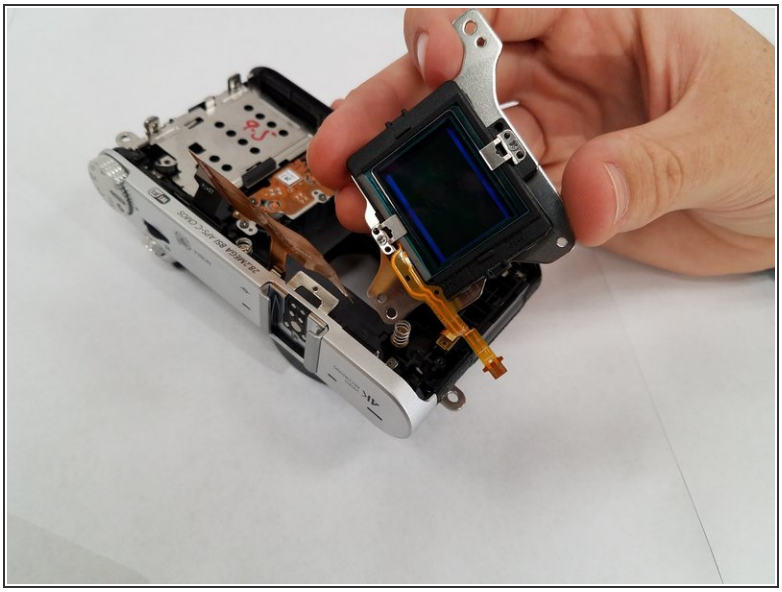
Step 13

- Remove the 4 black 4-mm Phillips #000 screws located near each corner of the main board.

⚠ Lift the board out of the casing and carefully put it somewhere safe.

Step 14 — Image Sensor





- Remove the three black 5-mm T6 type screws using a Torx screwdriver located along the metal casing of the image sensor.

⚠ The image sensor is very sensitive, be sure not to smudge the filter covering.

- Pull the image sensor out and it can now be replaced.

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

