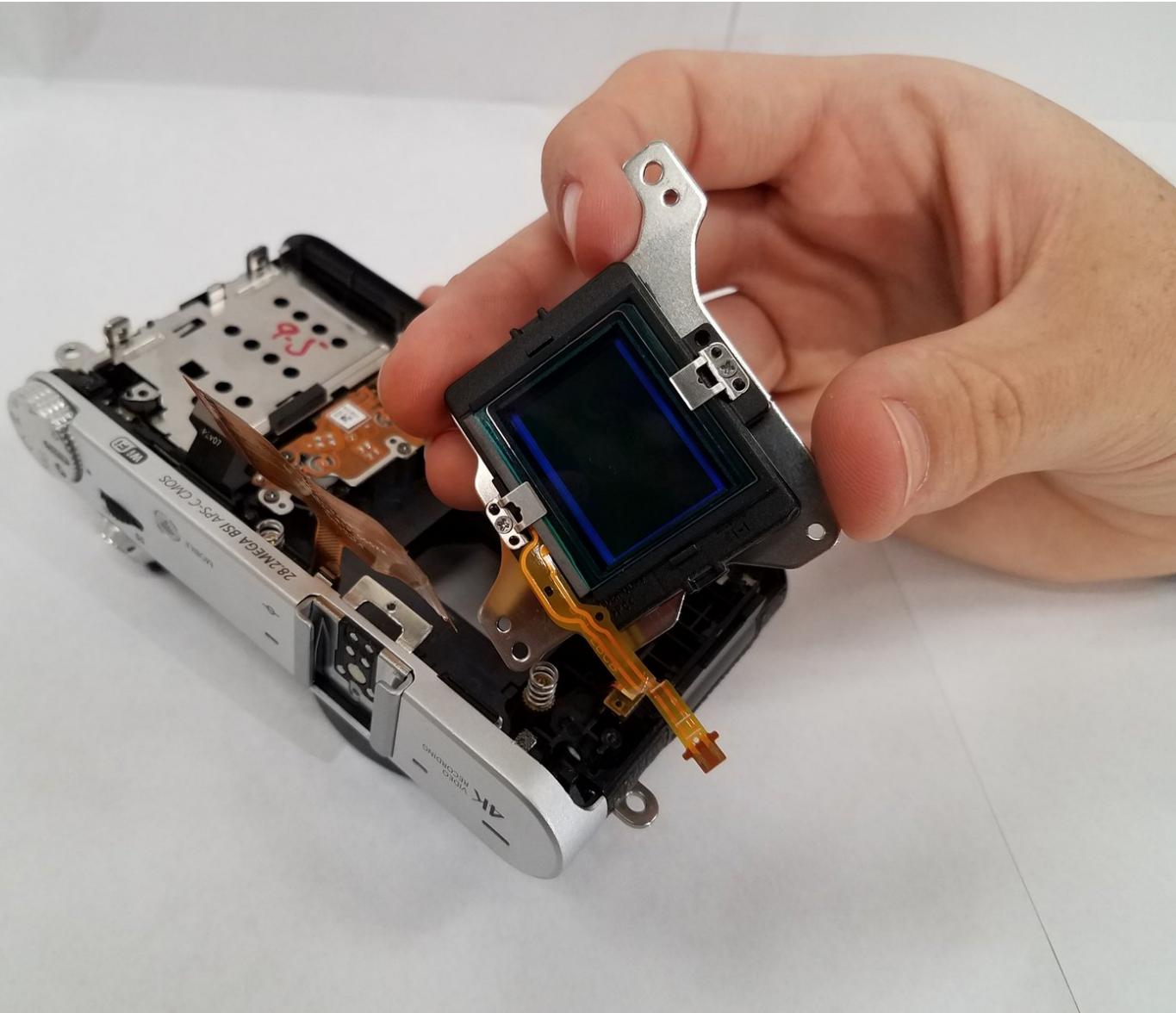




Samsung NX500 Image Sensor Replacement

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.

(i) 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.

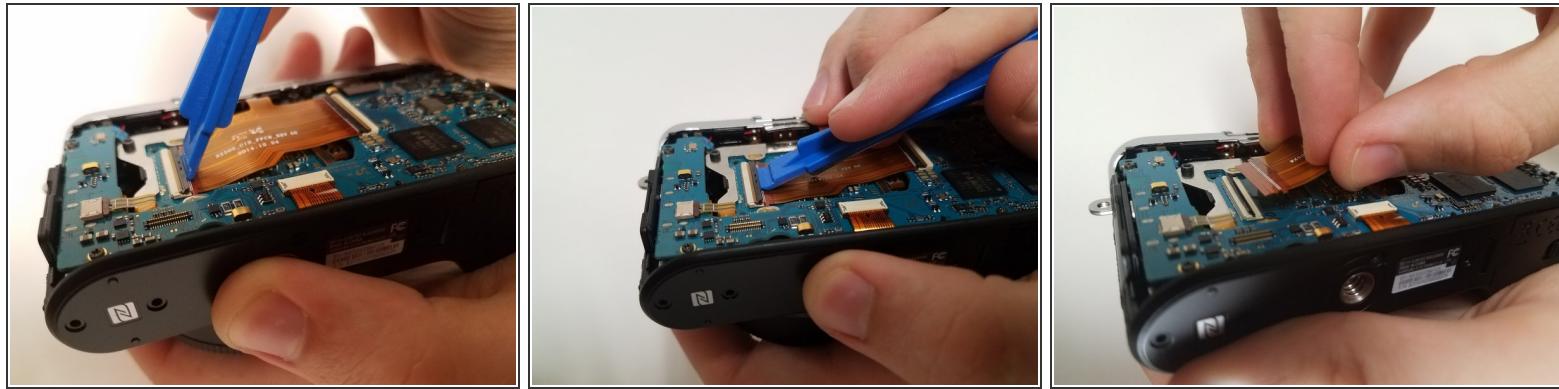
Step 7



- 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.

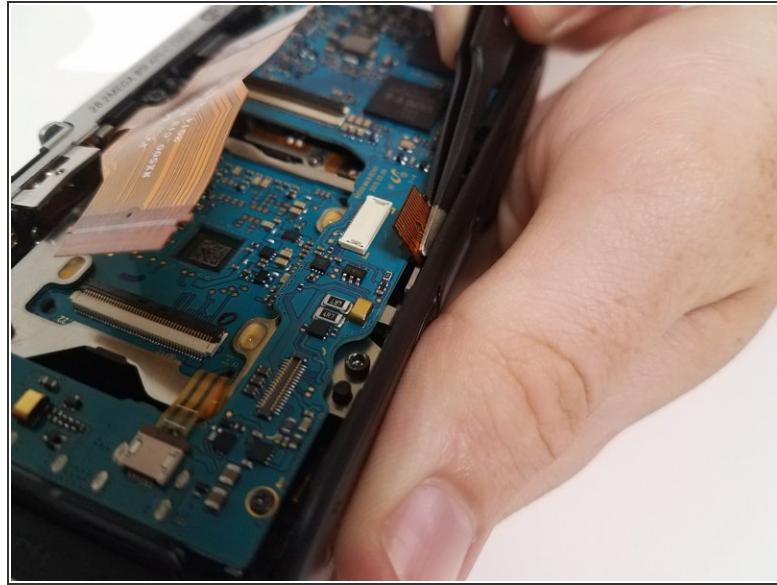
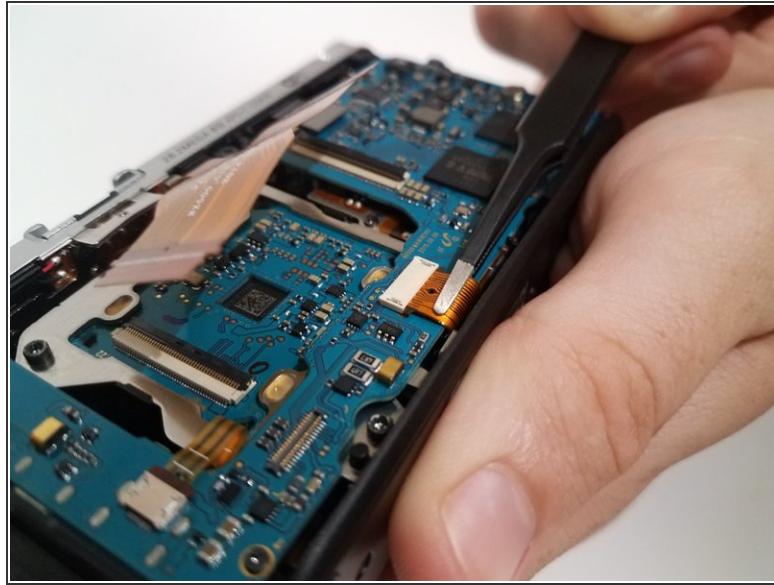
(i) There are five ZIF cables total to be removed.

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.

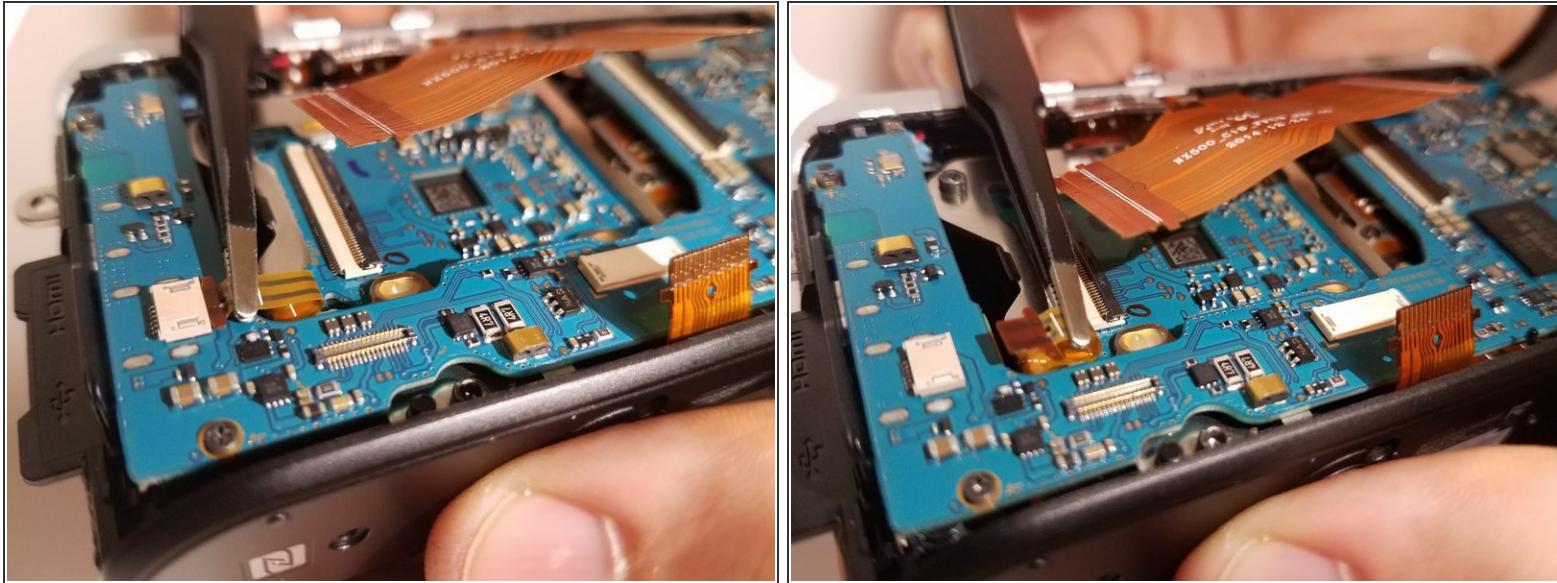
Step 10



- 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.

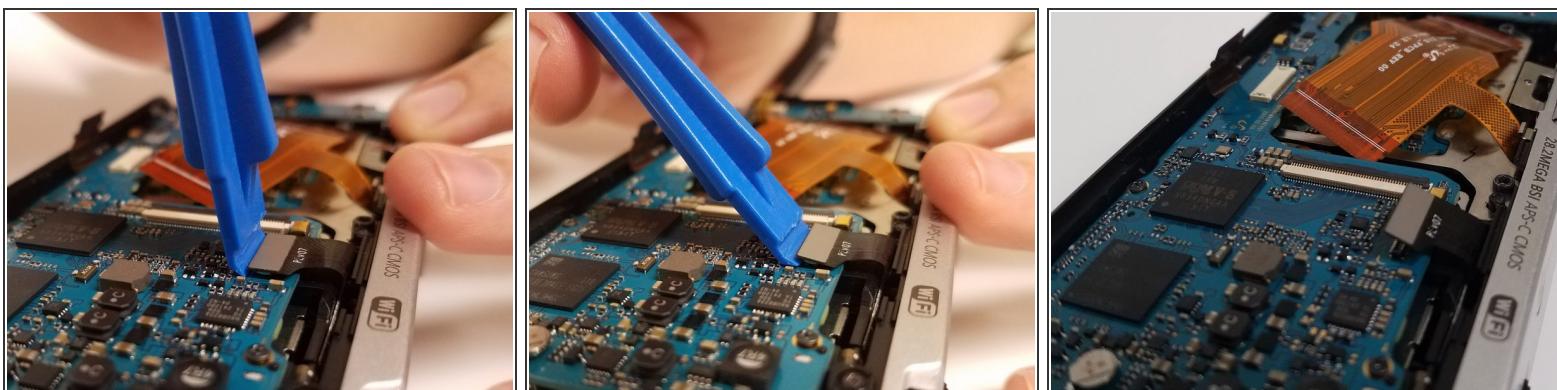
Step 11



- 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.

i It will easily pop up.

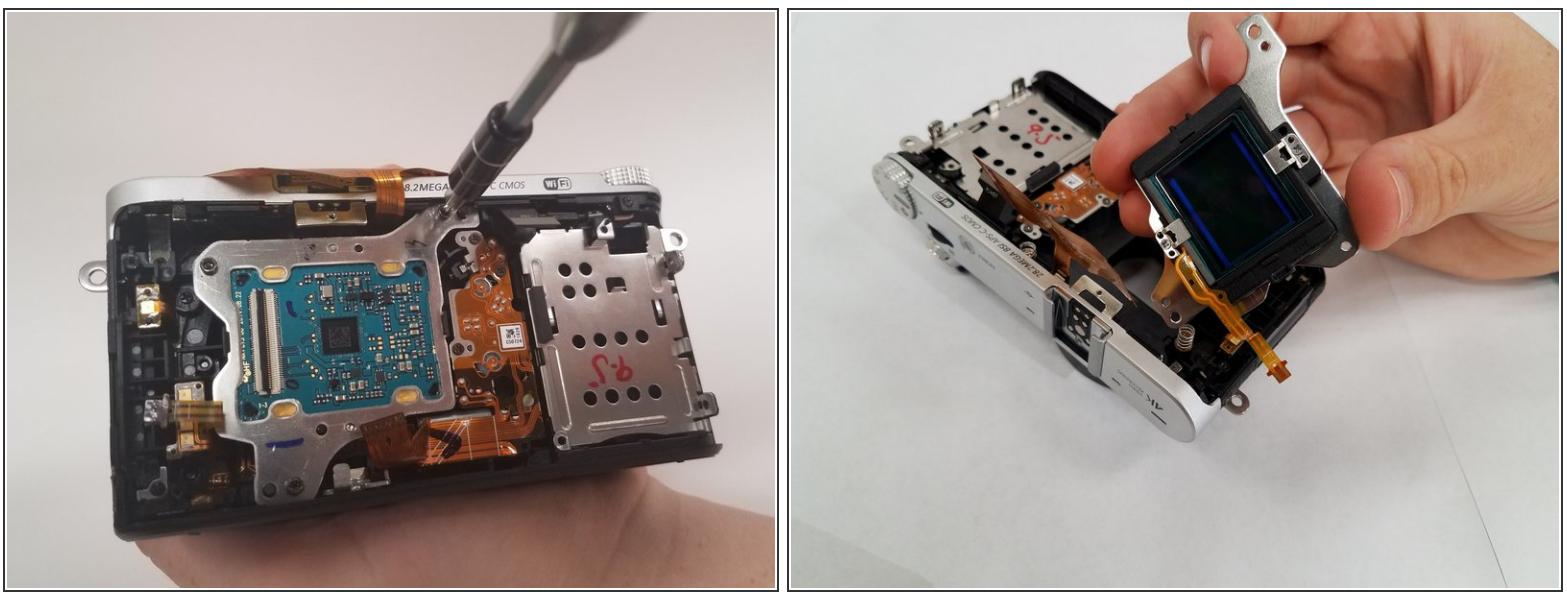
Step 13



- 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.

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