



Written By: Emily



INTRODUCTION

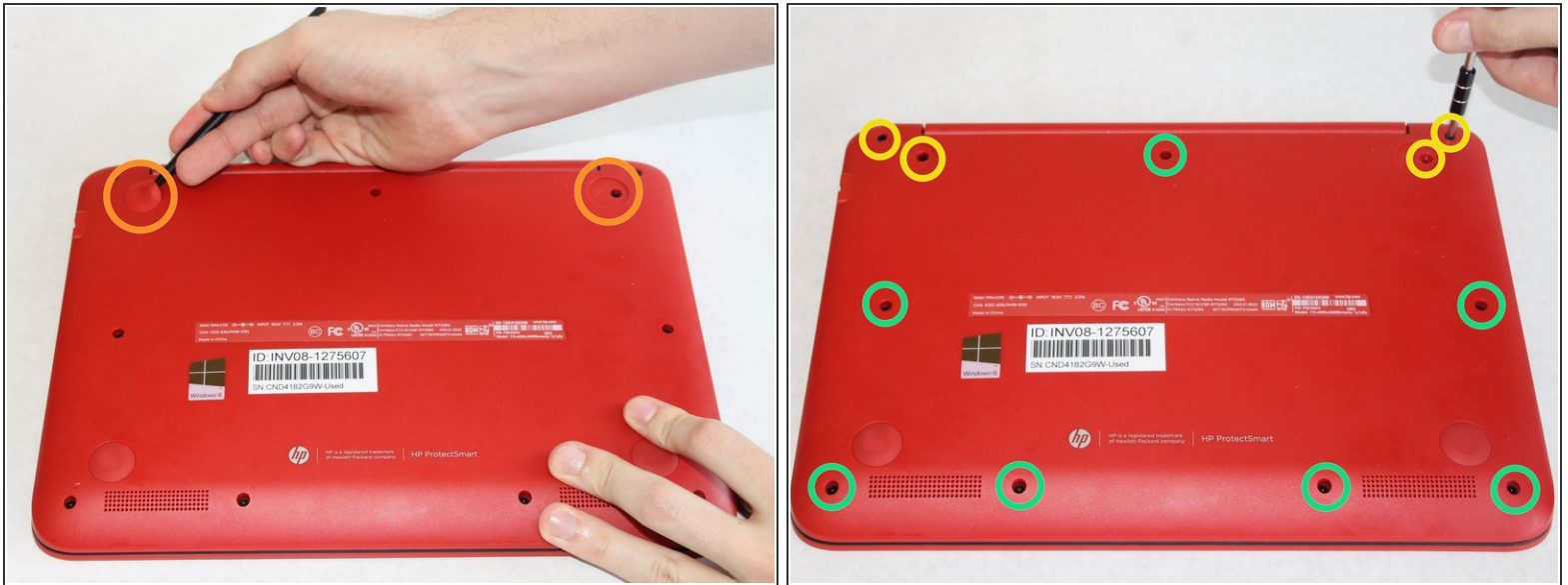
Make sure the device is powered off and is not attached to any electronics.



TOOLS:

- [Phillips #0 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Spudger](#) (1)
-

Step 1 — Remove Screws



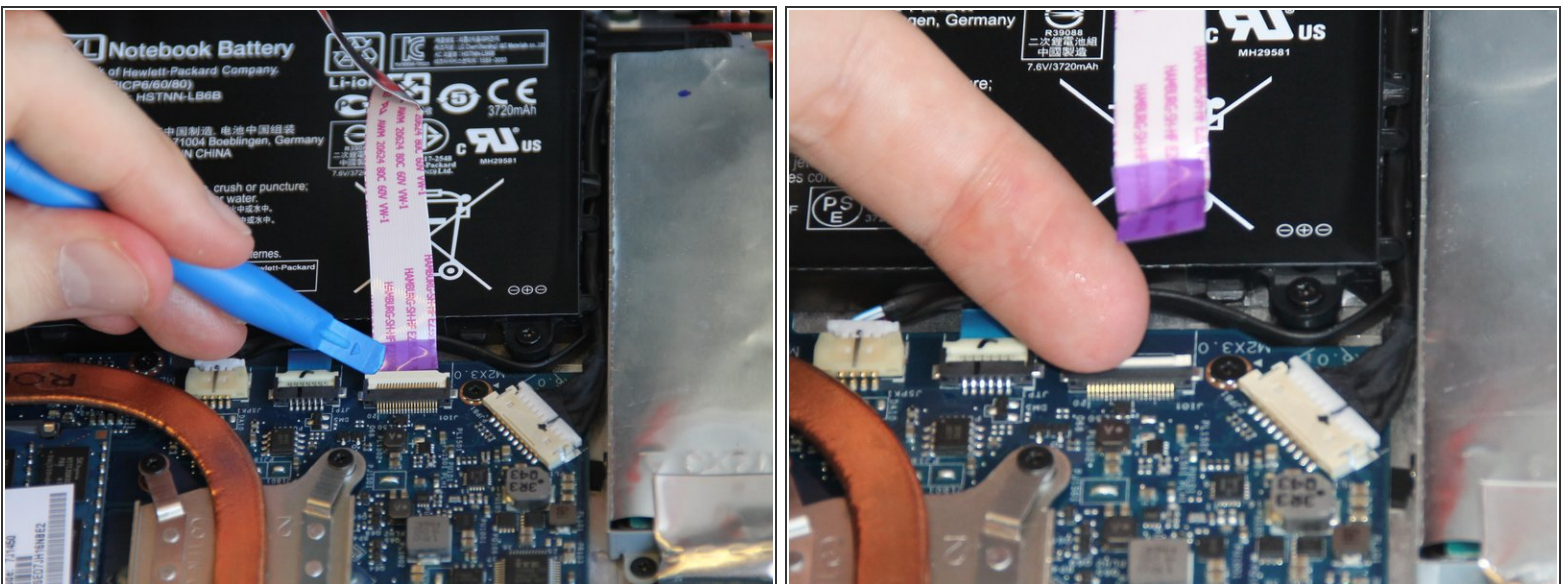
- Use the spudger to pry off the two rubber feet near the hinge of the laptop. This will reveal two hidden 9mm screws.
- You must remove eleven screws.
 - Four 9mm screws with the PH0 screwdriver.
 - Seven 6mm screws with the PH0 screwdriver.

Step 2 — Remove Backing



- Use the spudger to pry the corners of the laptop near the display hinges.
 - Pry around the seam of the laptop with the plastic opening tool until the backing begins to pull apart.
- ⚠ When you lift the bottom cover, there is a cable connected between the motherboard and the bottom cover. Be careful not to pull the cable loose!

Step 3 — Detach Cable



- Use the plastic opening tool to lift the white tab up at the connection.
- Pull the cable outwards.

Step 4 — Battery



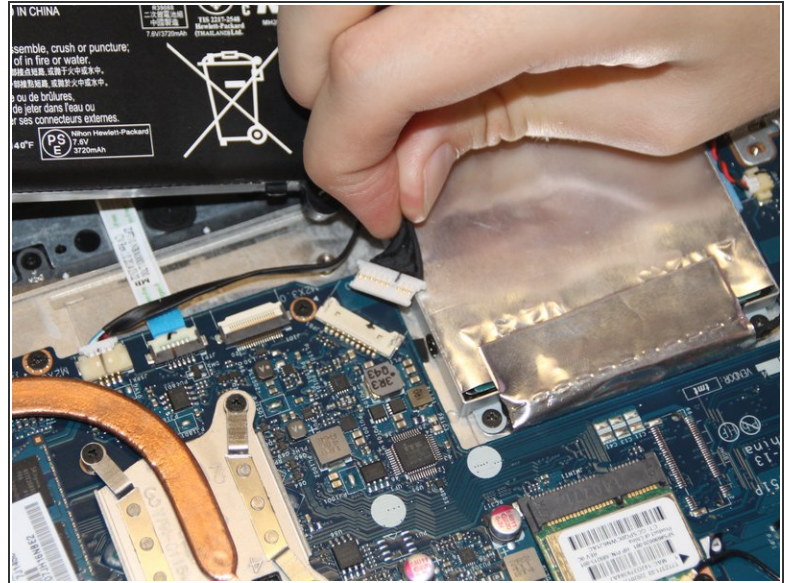
- Remove the four 6mm screws from the battery with the PH0 screwdriver.

Step 5



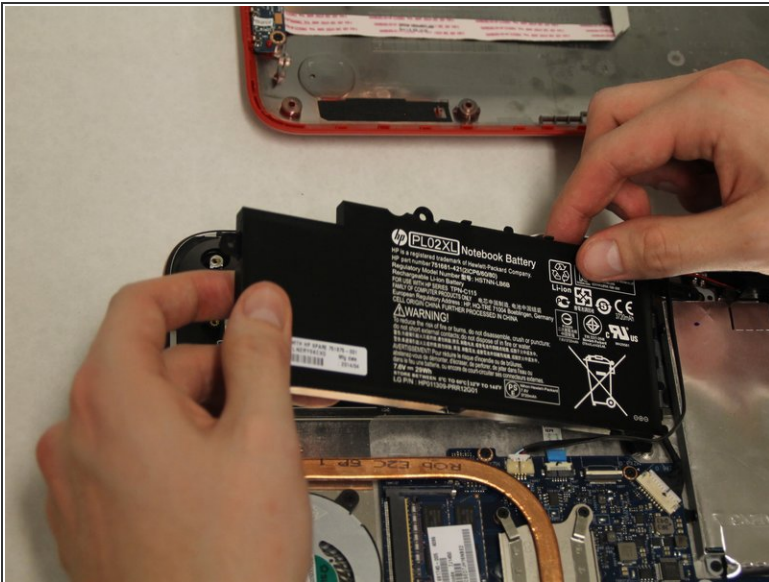
- Use the spudger to pry up the blue/white speaker wires that are routed beside the battery.

Step 6



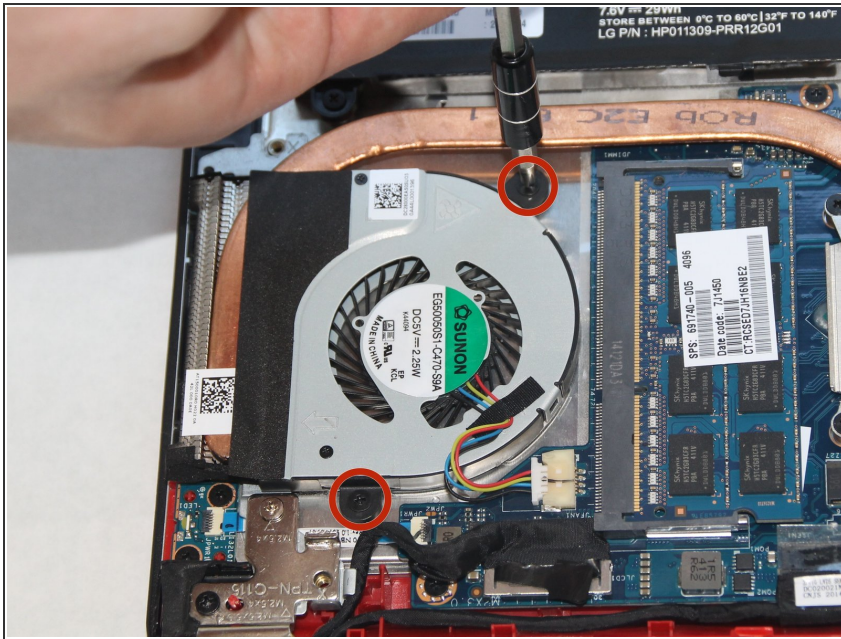
- Remove the battery cable from the motherboard by gently pulling out on the black part of the cable closest to the white tab.

Step 7



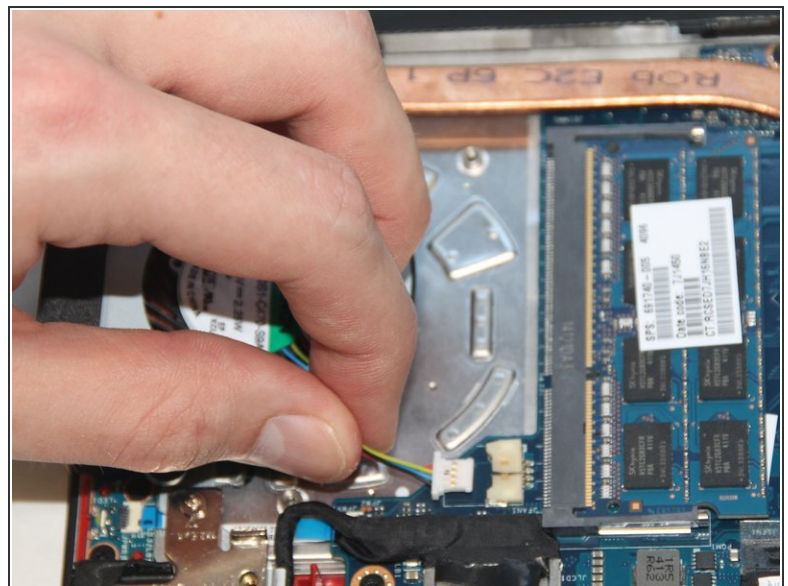
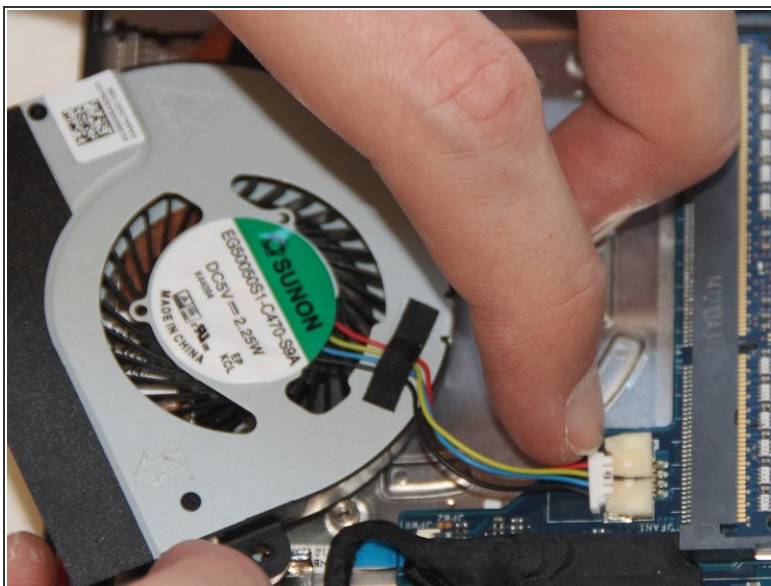
- Remove the battery.

Step 8 — Remove Screws



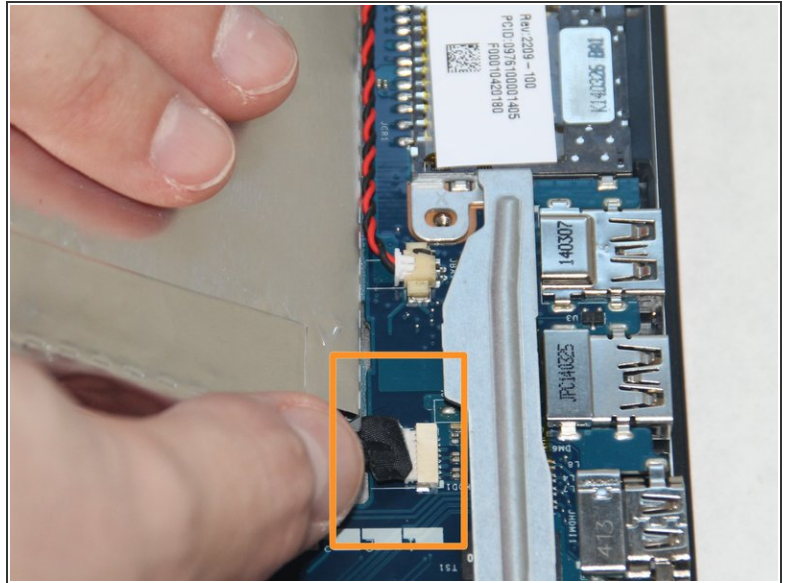
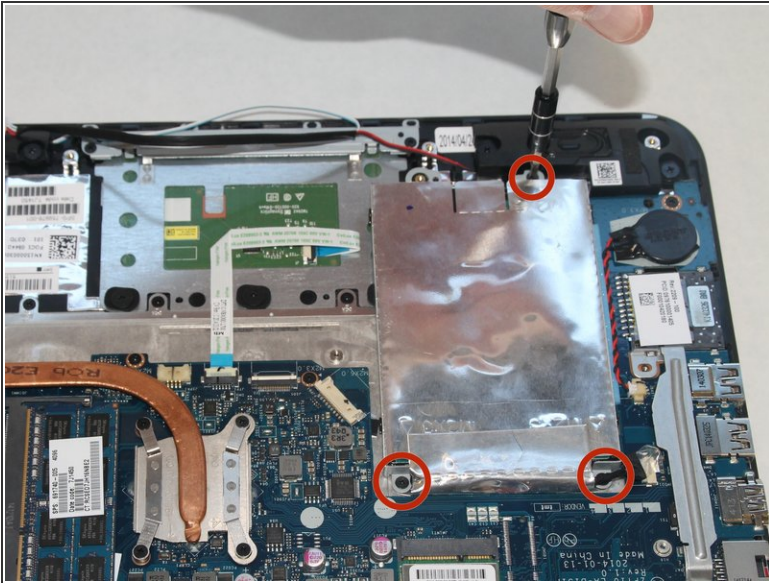
- Remove the two 3mm screws with the PH0 screwdriver.

Step 9 — Disconnect Cable



- Use your fingernails to slowly loosen the fan connection cable.
- After the cable is slightly pulled from the connection, grab the cable and pull it outwards.

Step 10 — Remove Hard Drive



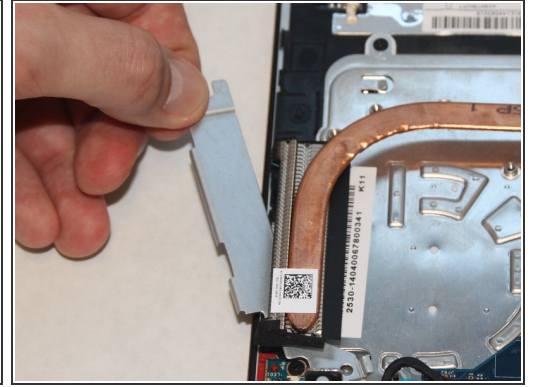
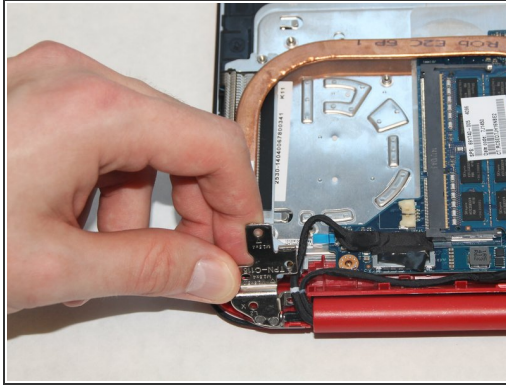
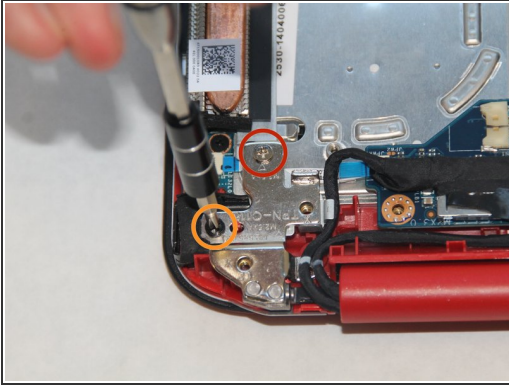
- Remove the three 3mm screws using the PH0 screwdriver.
- Pull the hard drive slightly away from the connection to easily disconnect the hard drive cable from the motherboard.
- Remove the hard drive.

Step 11



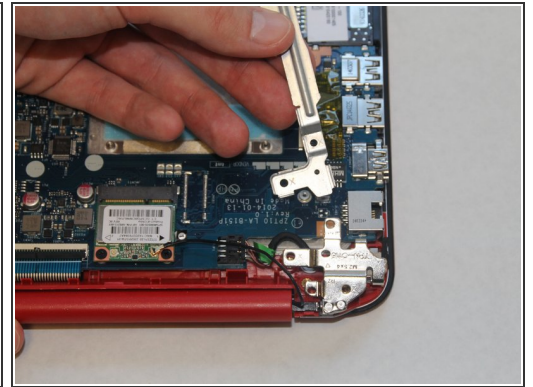
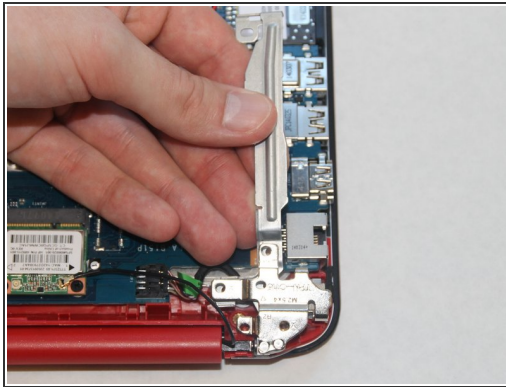
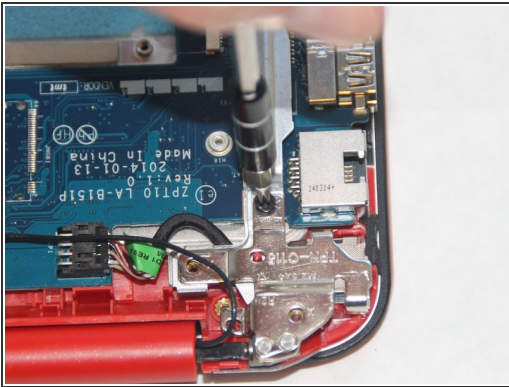
- Remove the four 3mm screws using the PH0 screwdriver.

Step 12



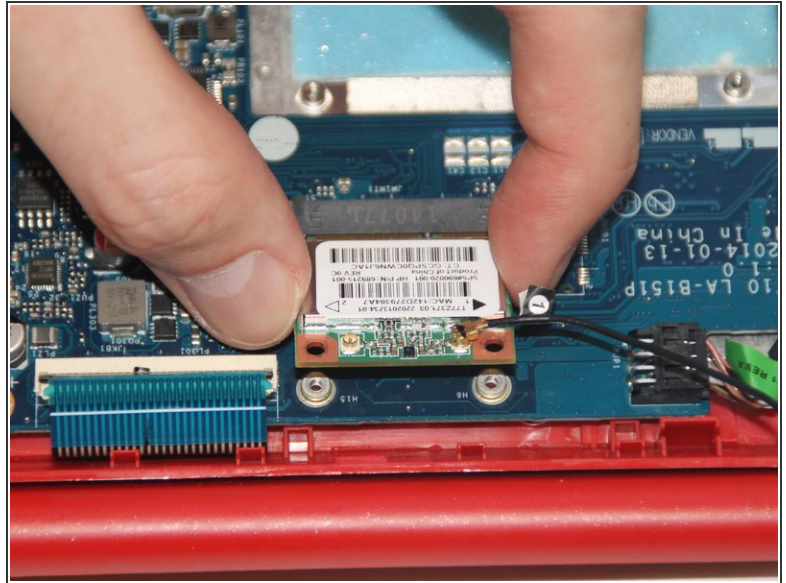
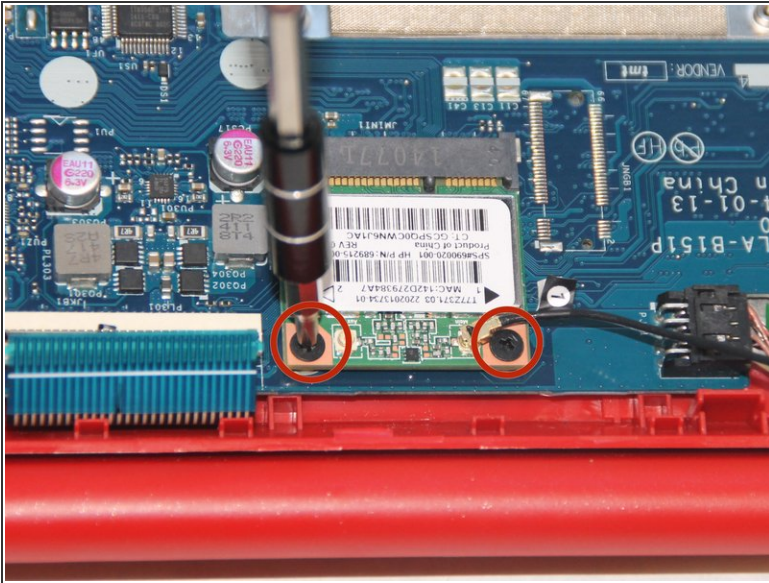
- Remove the two screws from the metal hinge on the power button side using the PH0 screwdriver.
 - One silver 4mm screw
 - One black 5mm screw
- Lift up the hinge to remove the metal bracket underneath.

Step 13



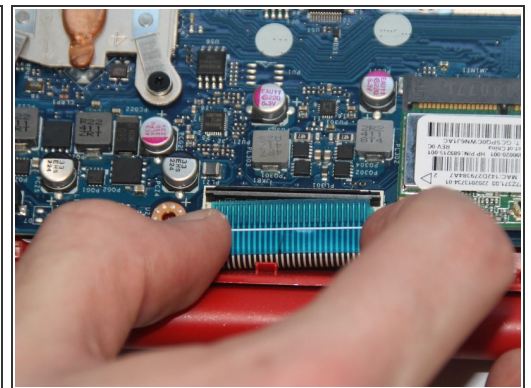
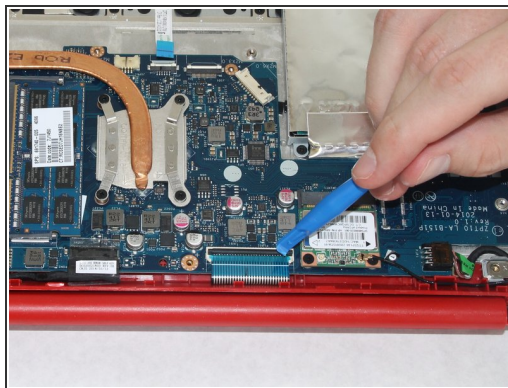
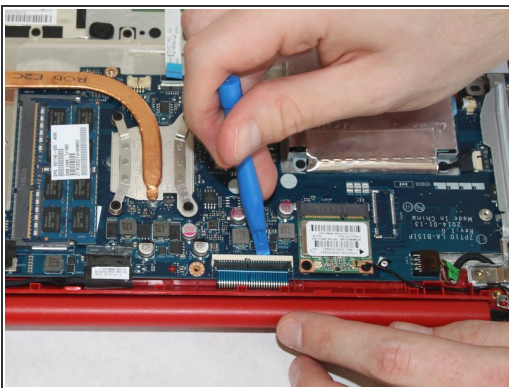
- Remove one 3mm screw using the PH0 screwdriver from the metal hinge located on the power connector side of the computer.
- Lift up the hinge with some force to remove the metal bracket underneath.

Step 14 — Disconnect the Wireless Card



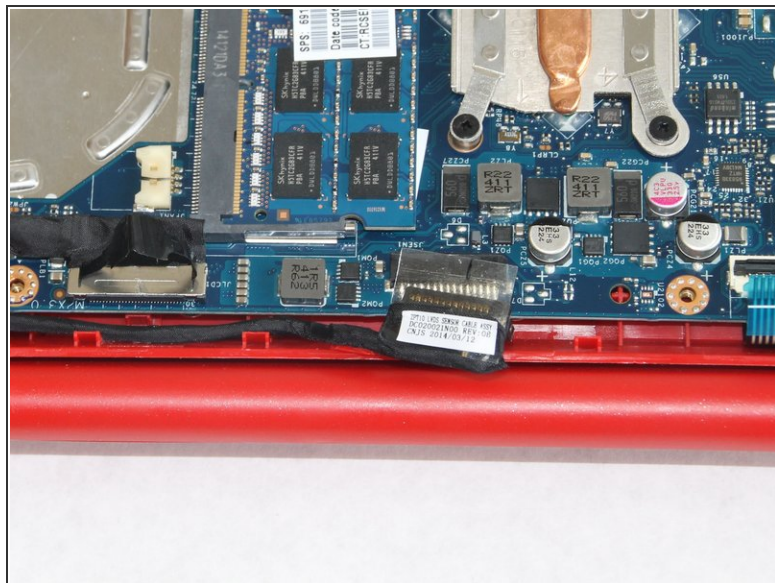
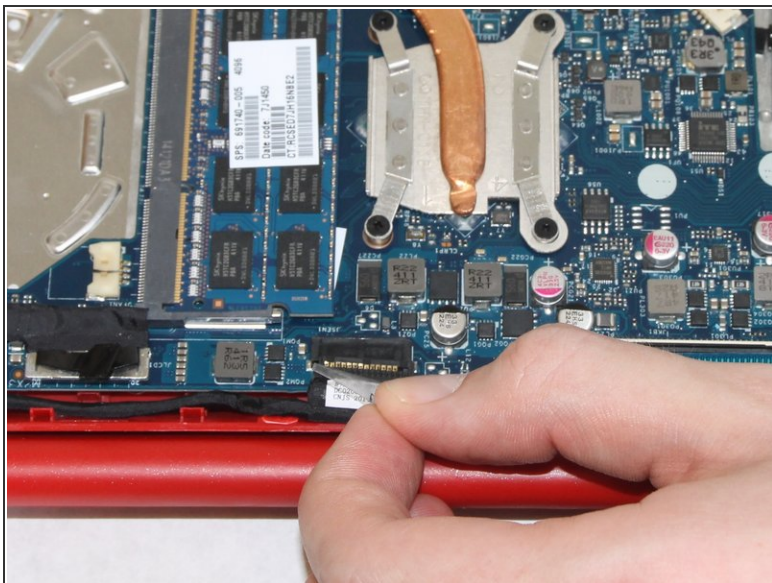
- Unscrew the two 3mm screws with the PH0 screwdriver.
- Pull the wireless card out of its port to disconnect it from the motherboard.

Step 15 — Disconnect Keyboard Cable



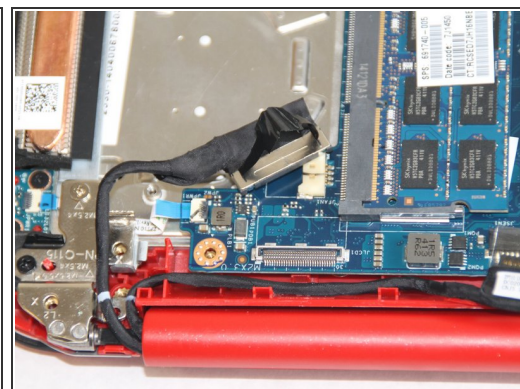
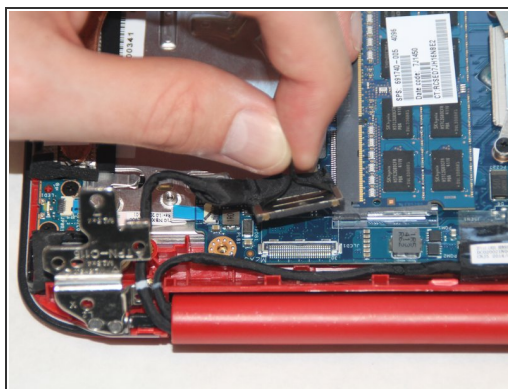
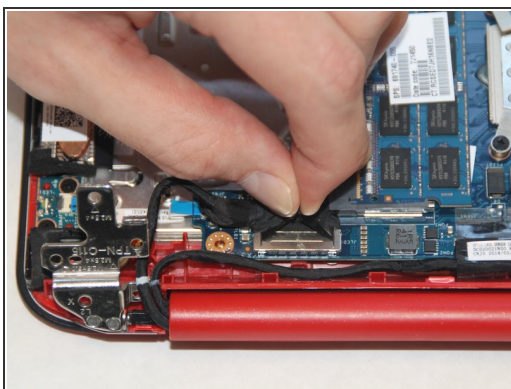
- Push the black tab away from the hinge of the laptop.
- After the black tab has been flipped, pull out the blue cable to disconnect the keyboard cable.

Step 16 — Disconnect the Webcam Cable



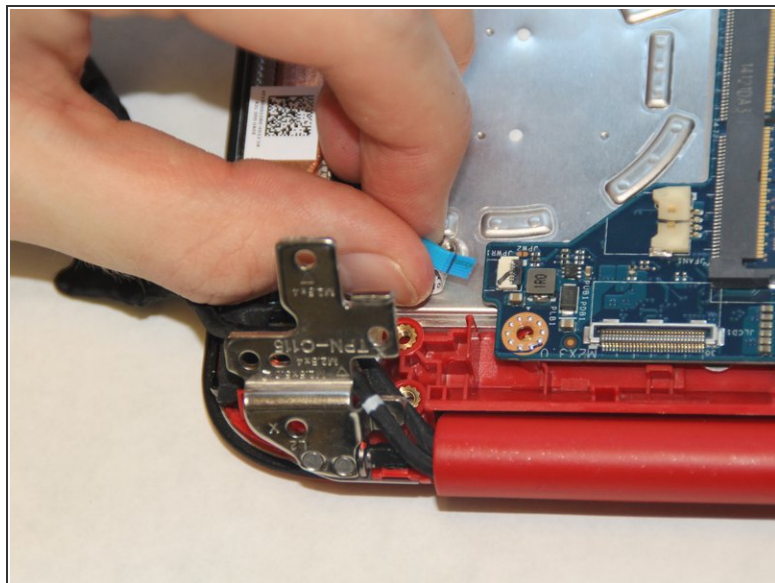
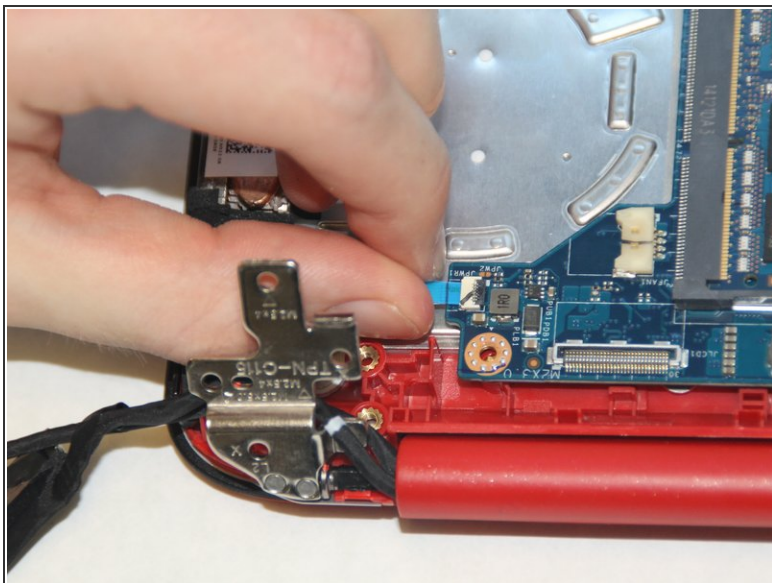
- Pull horizontally toward the hinge of the laptop to disconnect the webcam cable.

Step 17 — Disconnect Display Cable



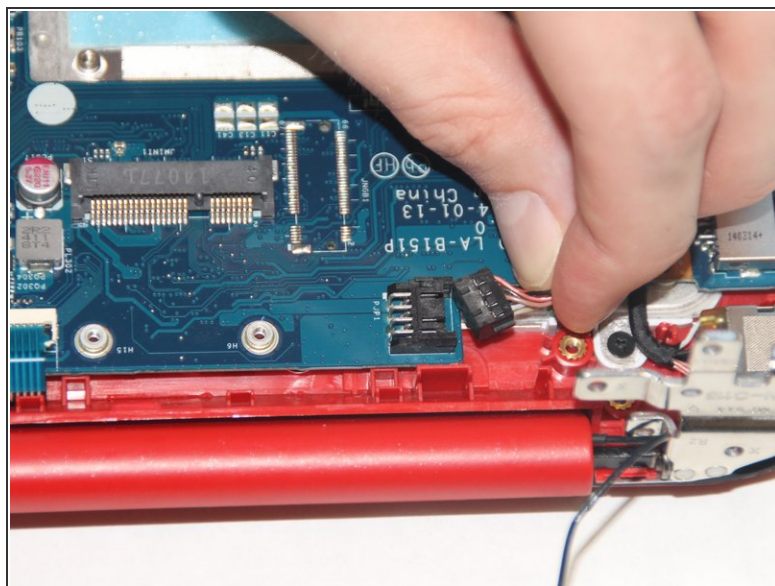
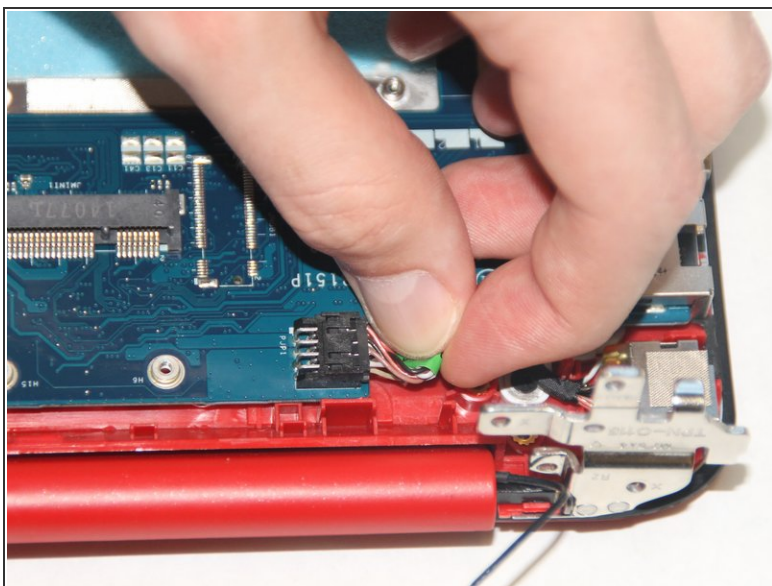
- Pull up on the black tabs to disconnect the display cable.

Step 18 — Disconnect Power Button Board



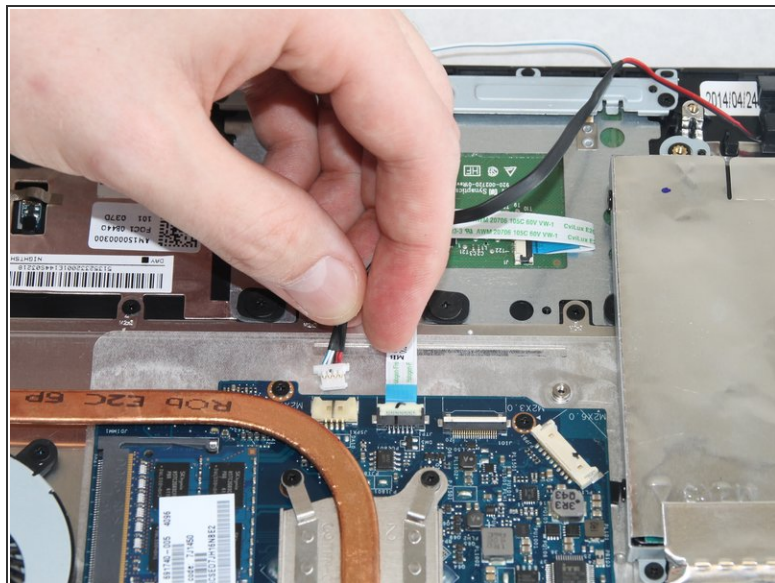
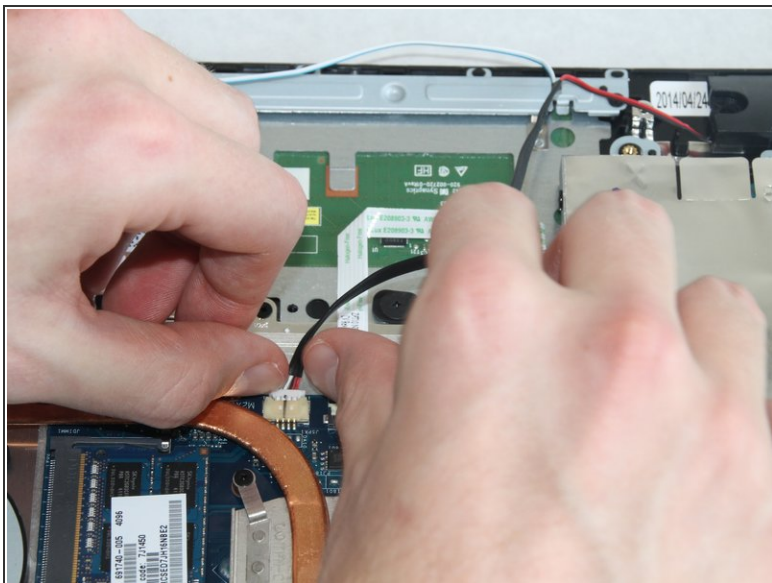
- Pull the cable horizontally away from the motherboard to disconnect the power button board cable.

Step 19 — Disconnect the Power Connector Cable



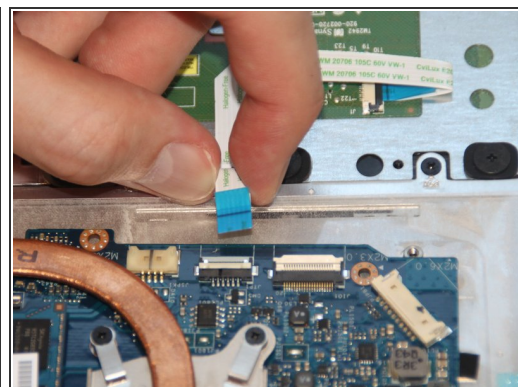
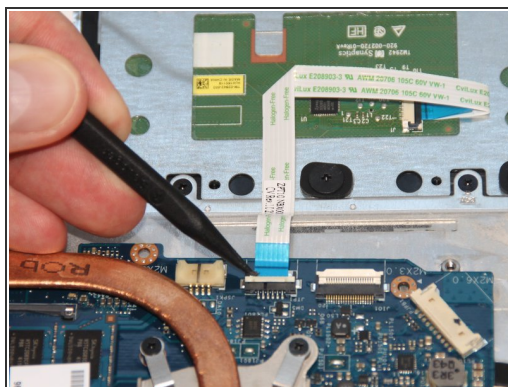
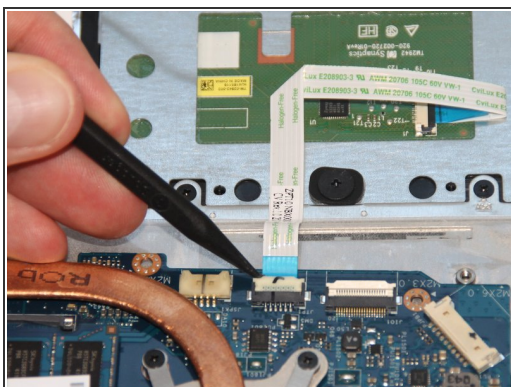
- Pull the cable horizontally away from the motherboard to disconnect the power connector cable.

Step 20 — Disconnect Speaker Cable



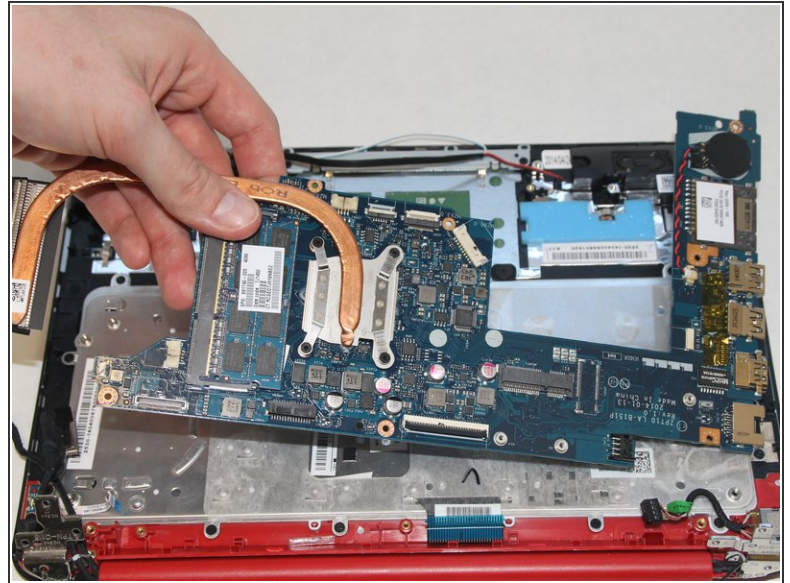
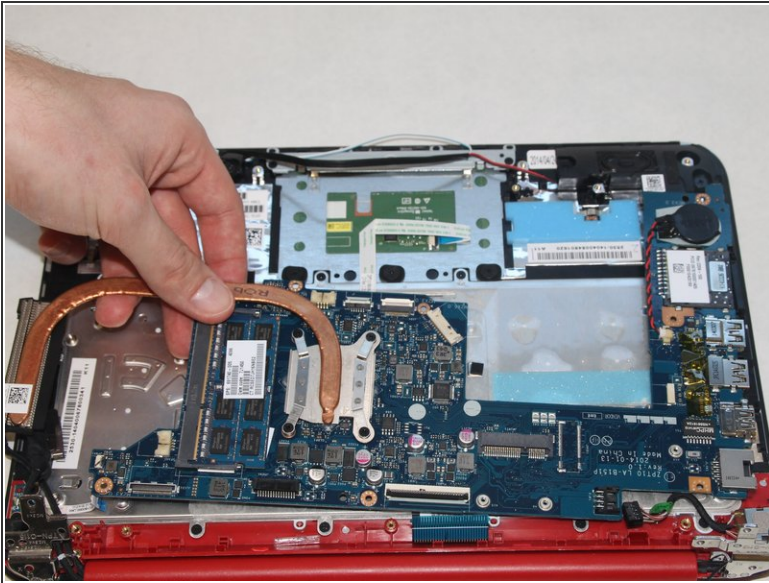
- Pull the cable horizontally away from the motherboard to disconnect the speaker cable.

Step 21 — Remove Touch Pad Cable



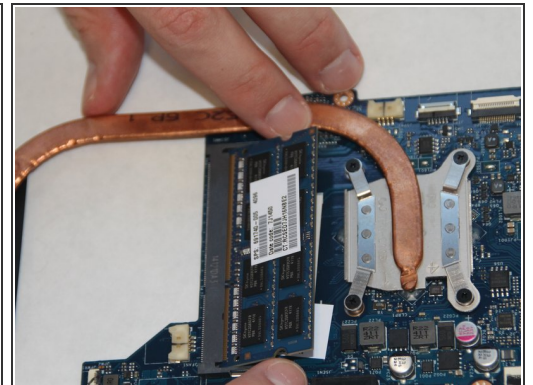
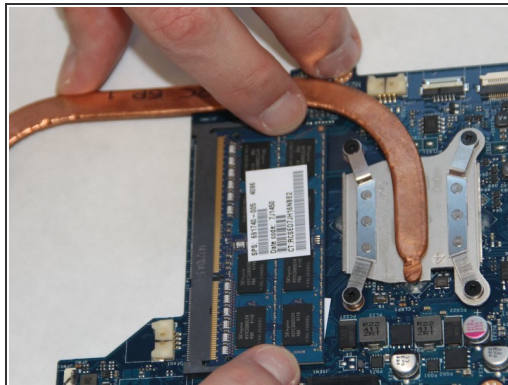
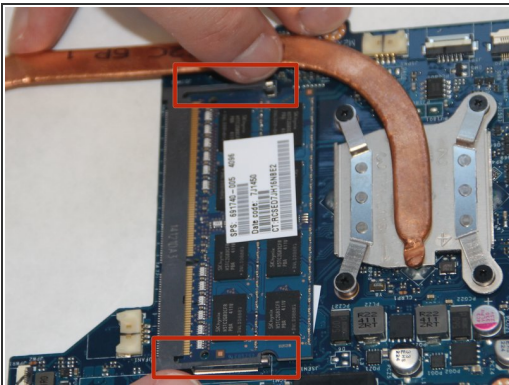
- Push the white tab up toward the hinge of the laptop.
- Disconnect touch pad cable by pulling up and away from the motherboard.

Step 22



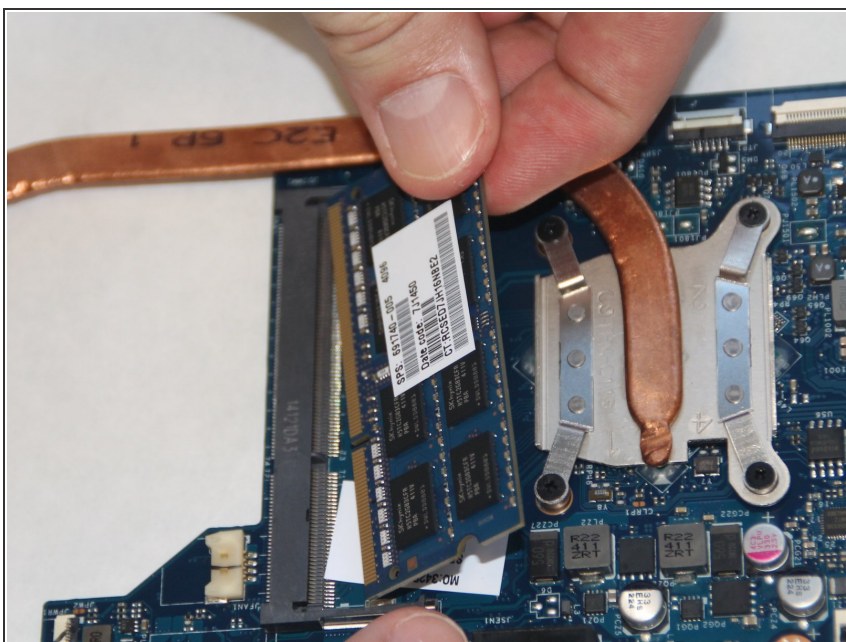
- Lift up to remove the motherboard.

Step 23



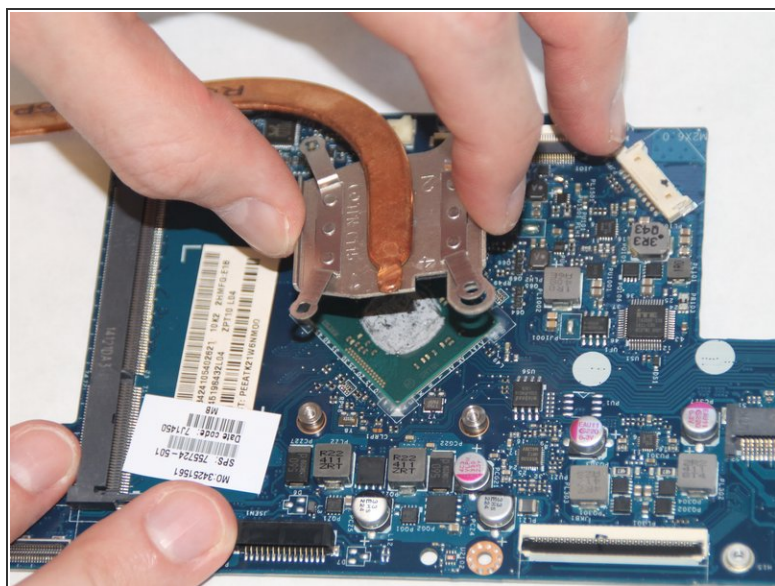
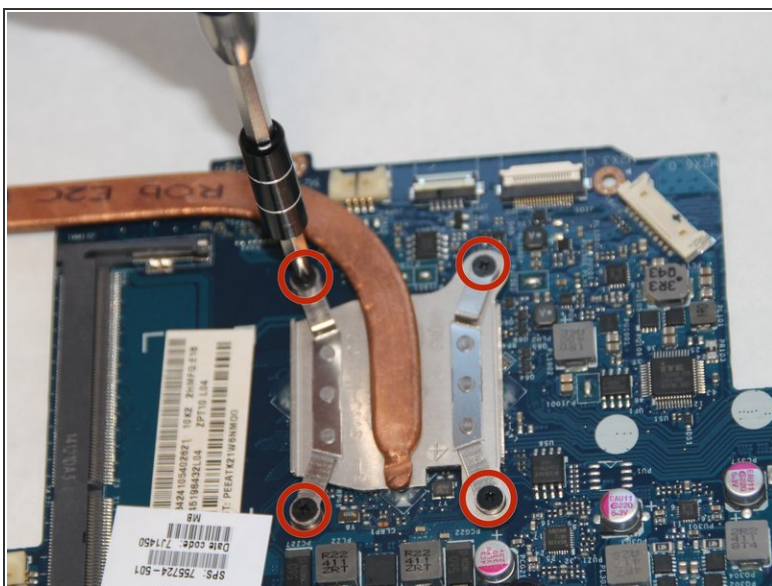
- Push outwards on the two black tabs to pop the RAM up.

Step 24



- Remove the RAM.

Step 25



- Remove the four 3mm screws using the PH0 screwdriver.
- Lift up the heat sink to remove it from the motherboard.

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