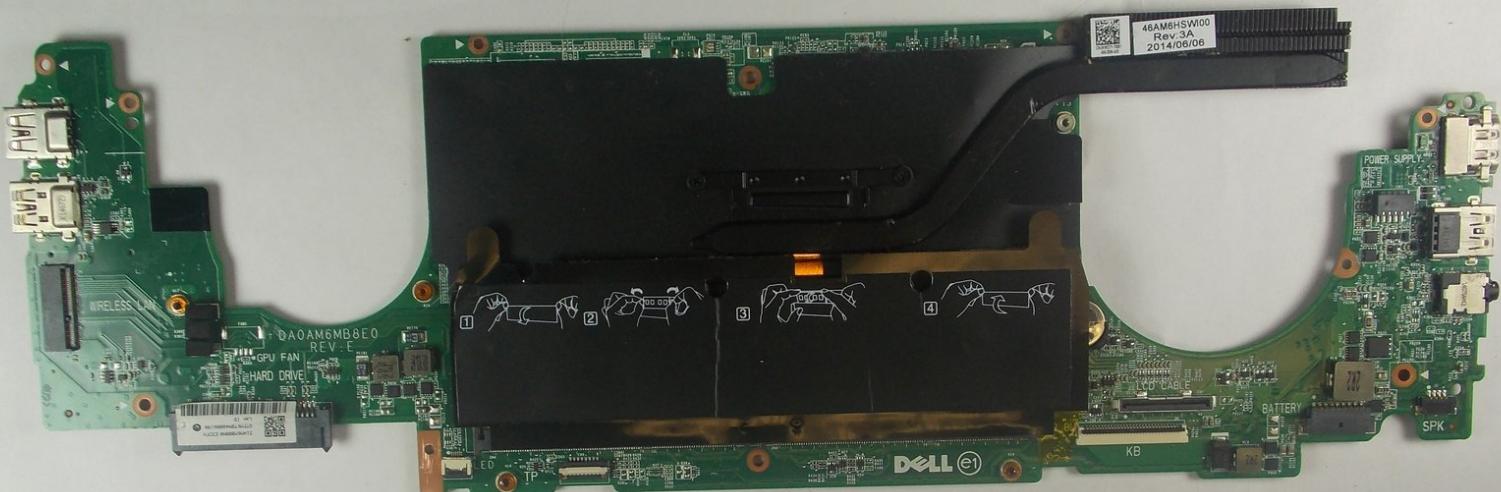




Dell Inspiron 15-7547 Motherboard Replacement

Use this guide to replace the motherboard on a Dell Inspiron 15-7547.

Written By: Kevin Smith



INTRODUCTION

Use this guide to remove the motherboard on a Dell Inspiron 15-7547.

TOOLS:

- [Spudger \(1\)](#)
- [Phillips #0 Screwdriver \(1\)](#)

Step 1 — Bottom Cover



- Close the display and flip the laptop on its back.
- Loosen the ten 5.0 mm-long Phillips #0 screws.
- The four screws marked with orange will remain captive to the cover.

Step 2



- Pry the cover open with a plastic spudger and remove it.

Step 3 — Battery



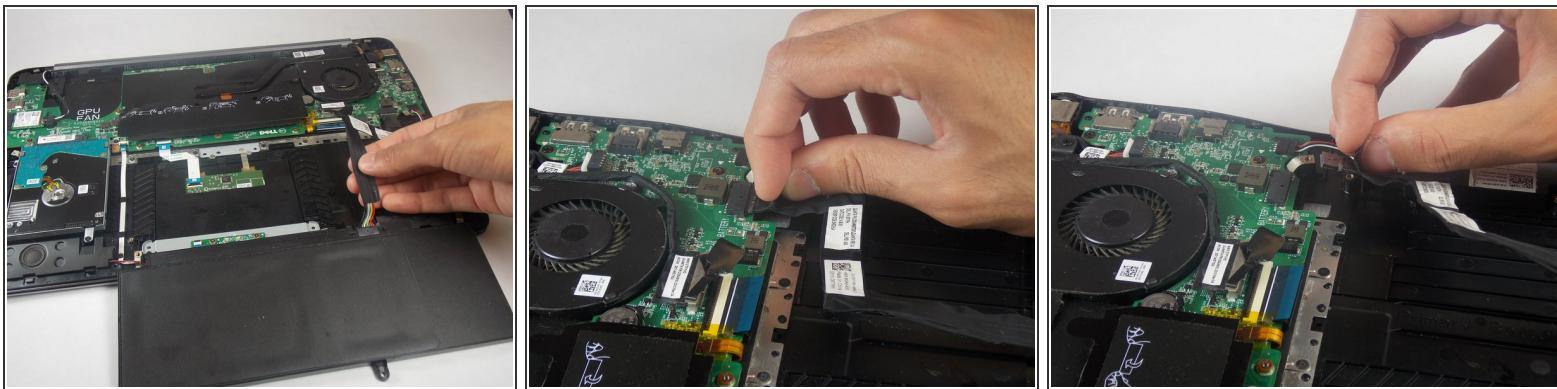
- Remove the five 5.0 mm-long Philips #0 screws that connect the battery to the case.

Step 4



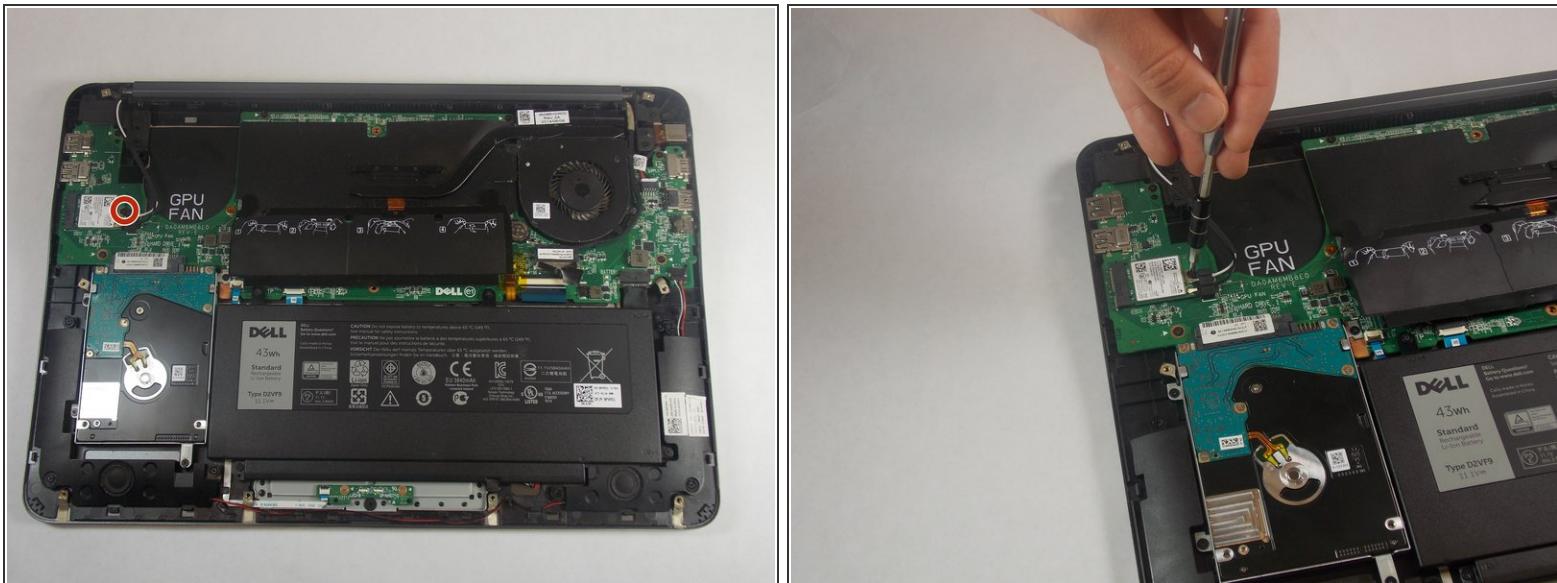
- Lift the battery out of the case.

Step 5



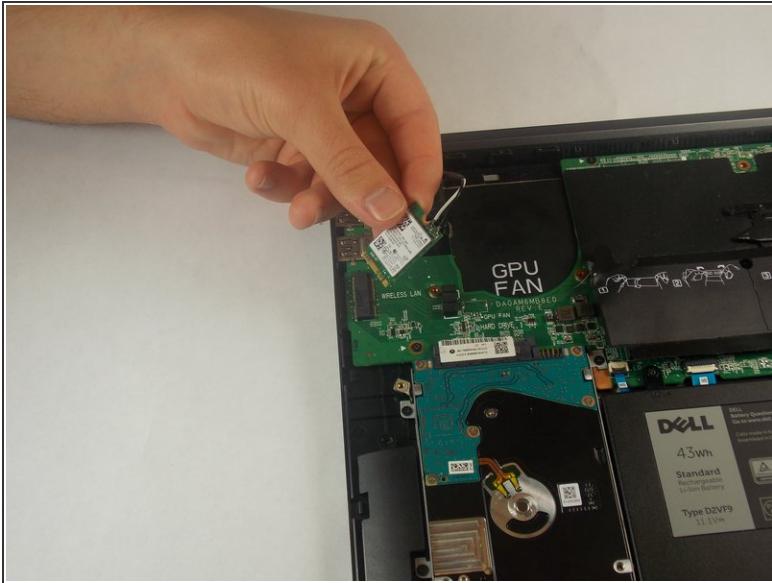
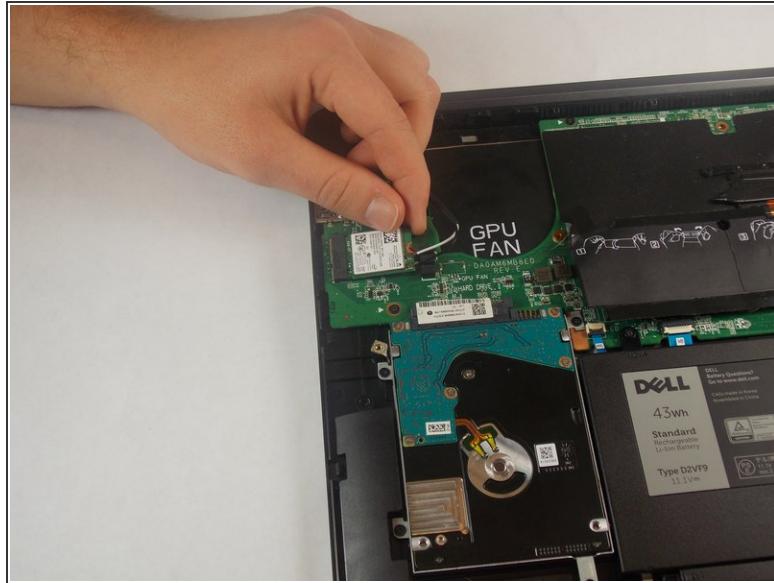
- Disconnect the battery using the pull tab to pull towards the front of the chassis.
- *(i)* Most of the cable is attached to the case with adhesive, which may cause slight resistance.

Step 6 — WiFi Card



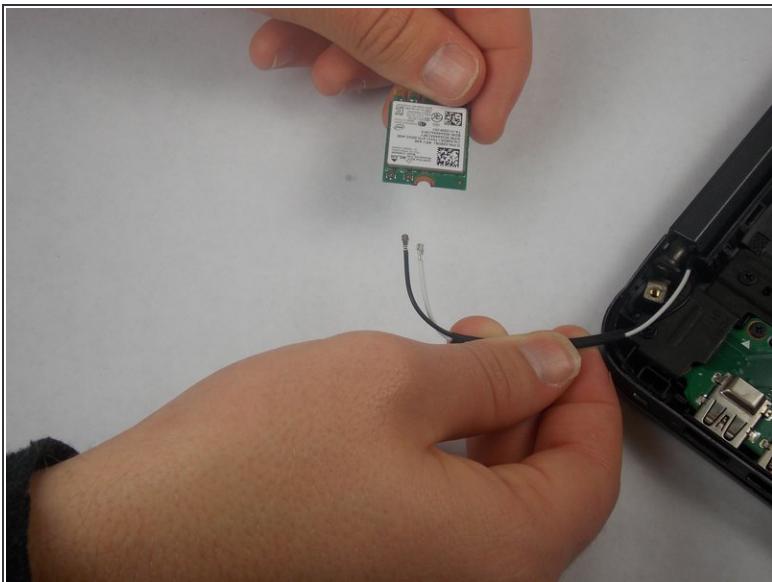
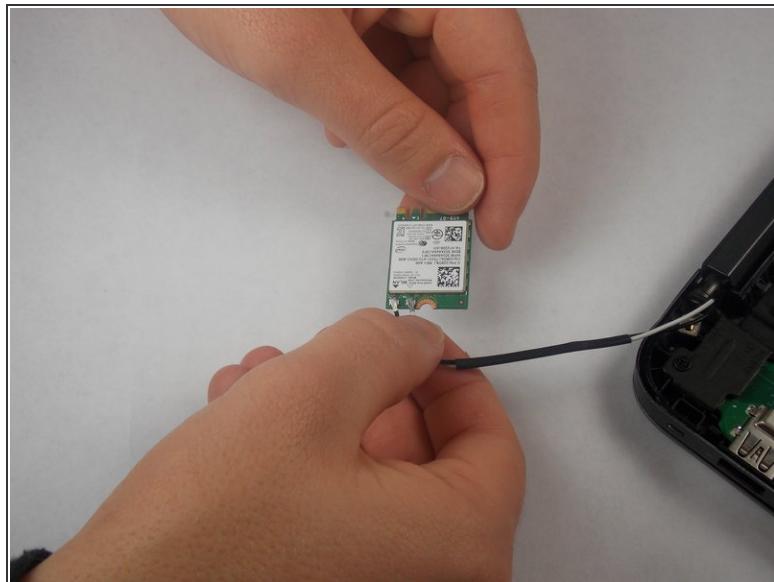
- Remove the 3.0 mm-long Philips #0 screw at the end of the Wifi-Card

Step 7



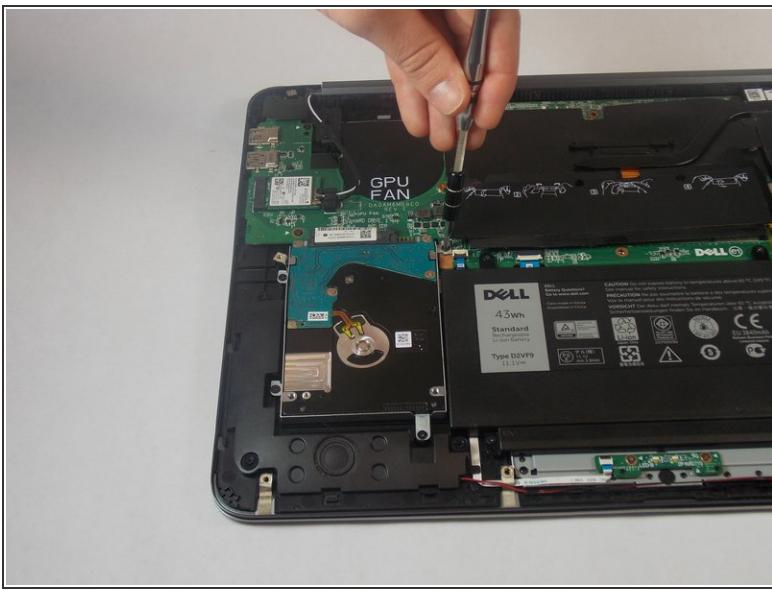
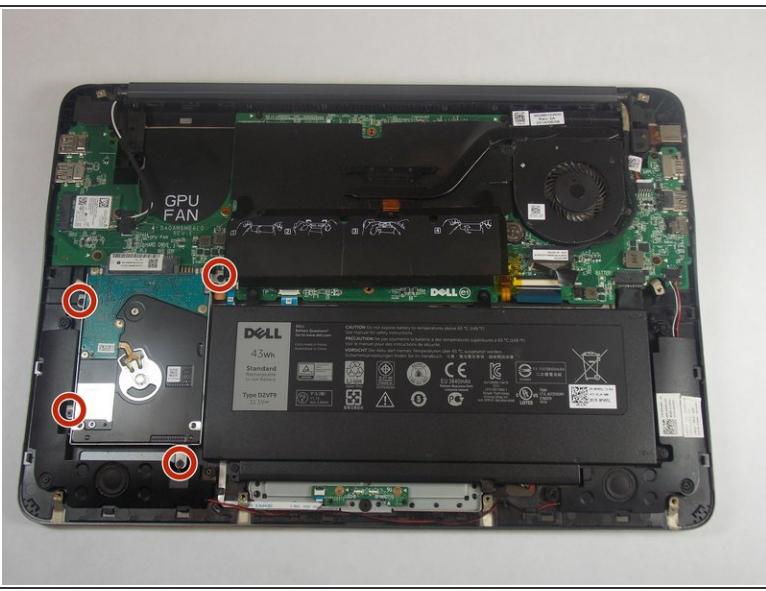
- Remove the WiFi-Card from its socket by pulling away and up from the connector.

Step 8



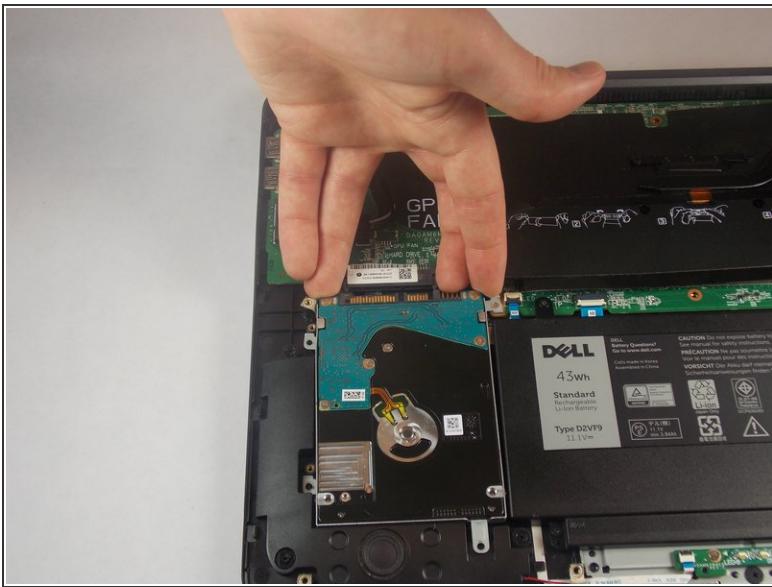
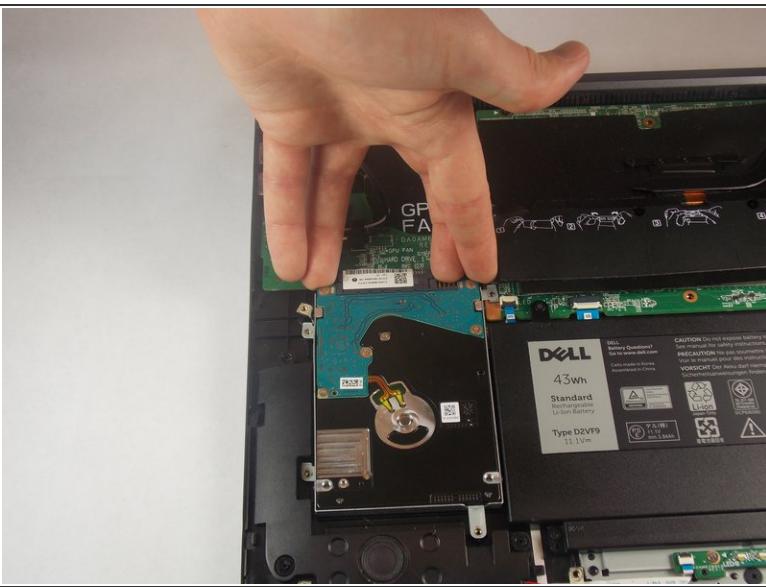
- Disconnect the white and black cables from the WiFi-Card.
- *(i)* Make a note of which wire goes where for reconnecting them to the replacement card.

Step 9 — Hard Drive



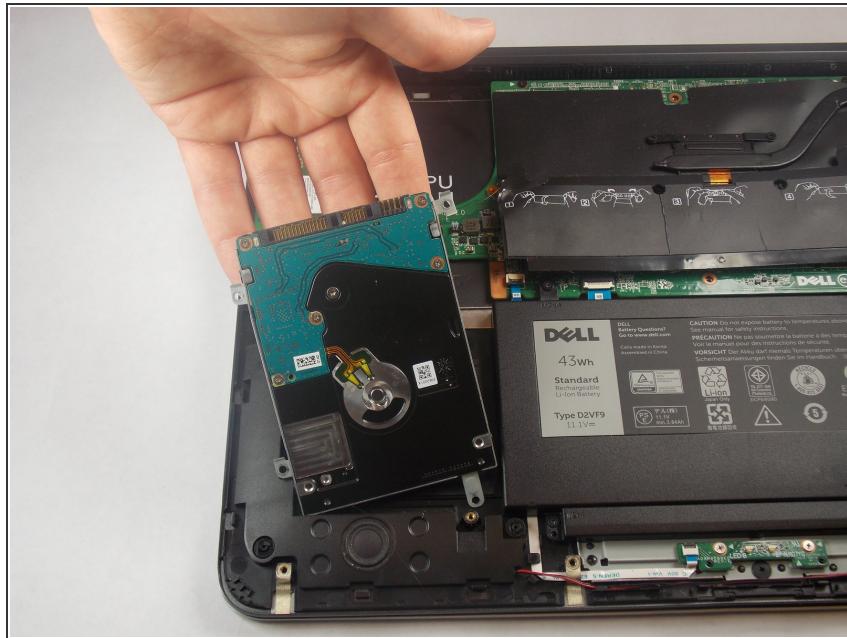
- Remove the four 5.0 mm-long Philips #0 screws connecting the hard drive to the chassis.

Step 10



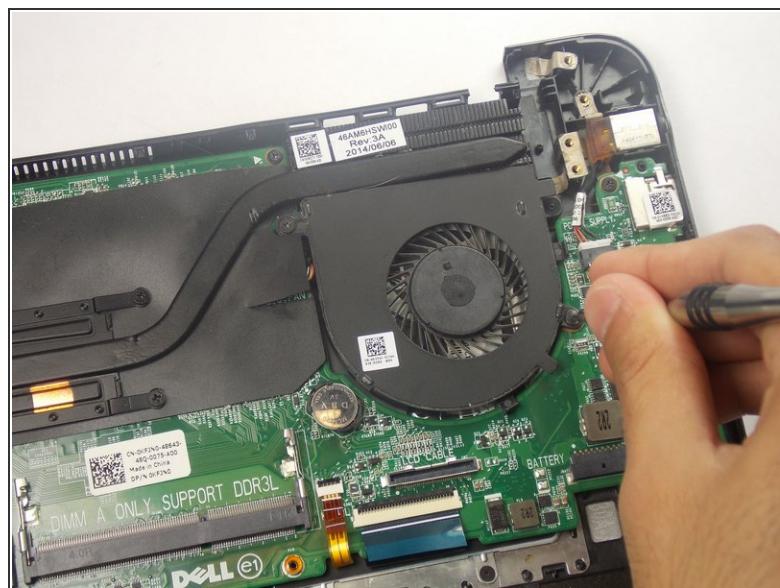
- Disconnect the hard drive from the motherboard by placing your fingers at the back, and pulling forward towards the front of the chassis.

Step 11



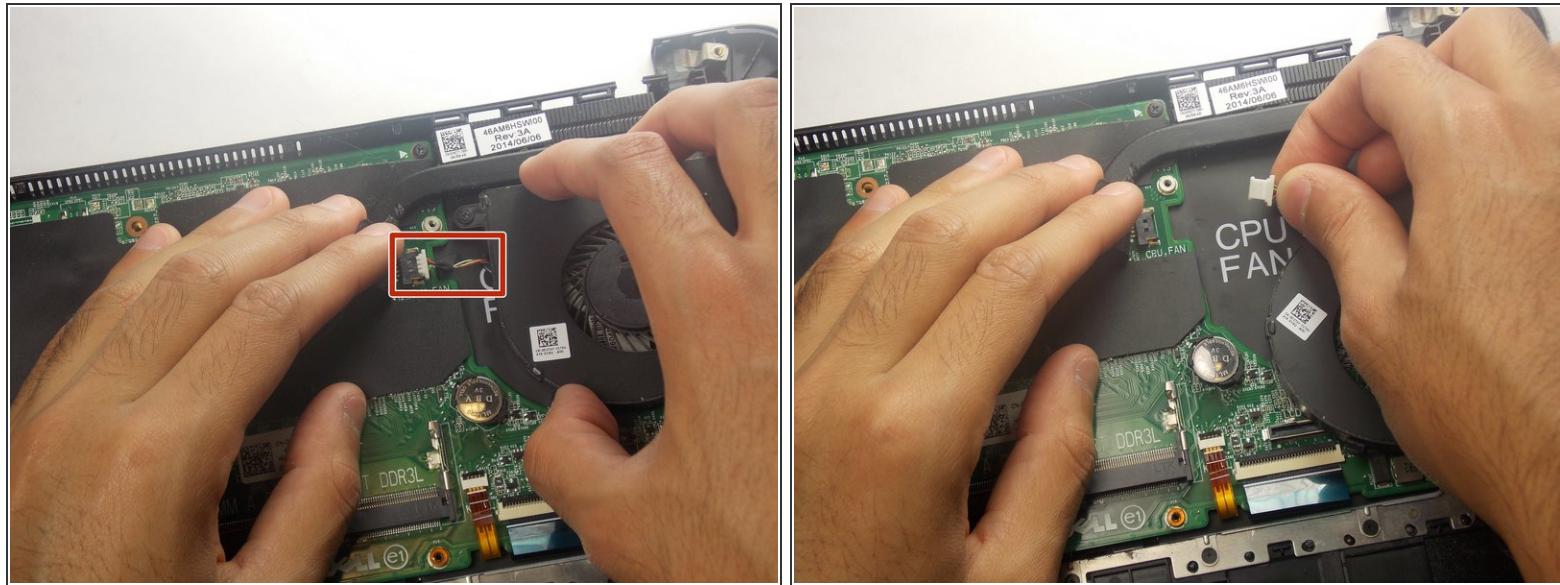
- Lift the hard drive out of the chassis.

Step 12 — CPU Fan



- Remove the two 5.0 mm-long Philips #0 screws from the fan.
 - The screw marked in orange will remain captive to the fan.

Step 13



- Disconnect the wire that connects the fan to the motherboard. This can be found under the flap directly to the left of the fan.

Step 14



- Lift the fan out of the chassis.

Step 15 — RAM



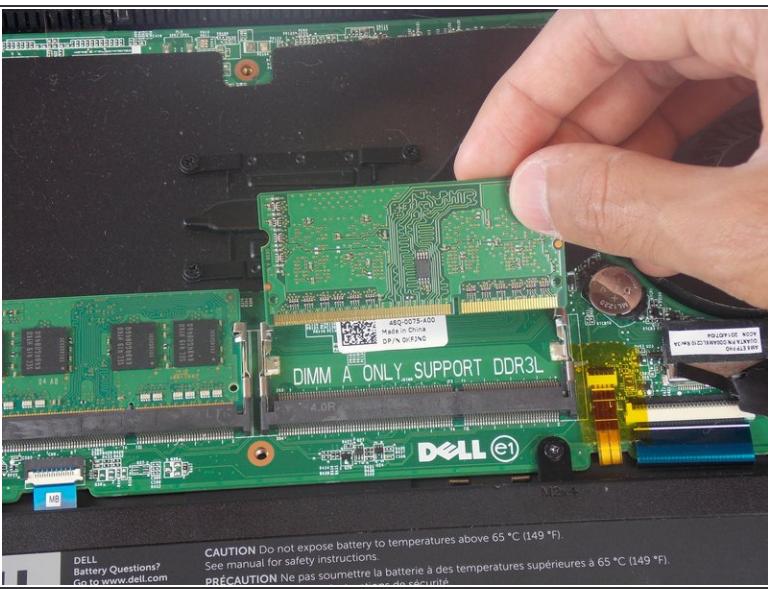
- Remove the plastic heat spreader that covers the RAM sticks.

Step 16



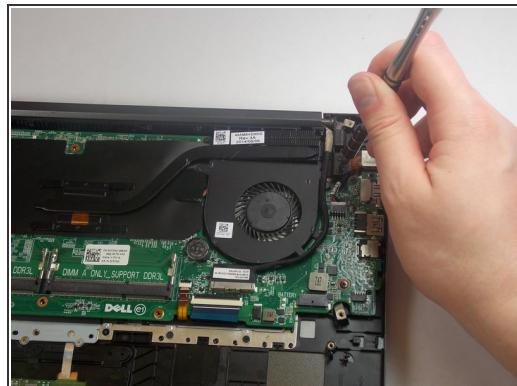
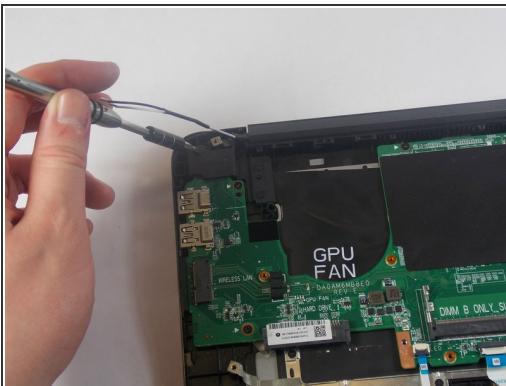
- Release the clamps on each side of the RAM sticks by pushing away from the center.
- When done properly the RAM stick should pop up.

Step 17



- Pull the RAM stick in a straight line out of the socket.

Step 18 — LCD Assembly



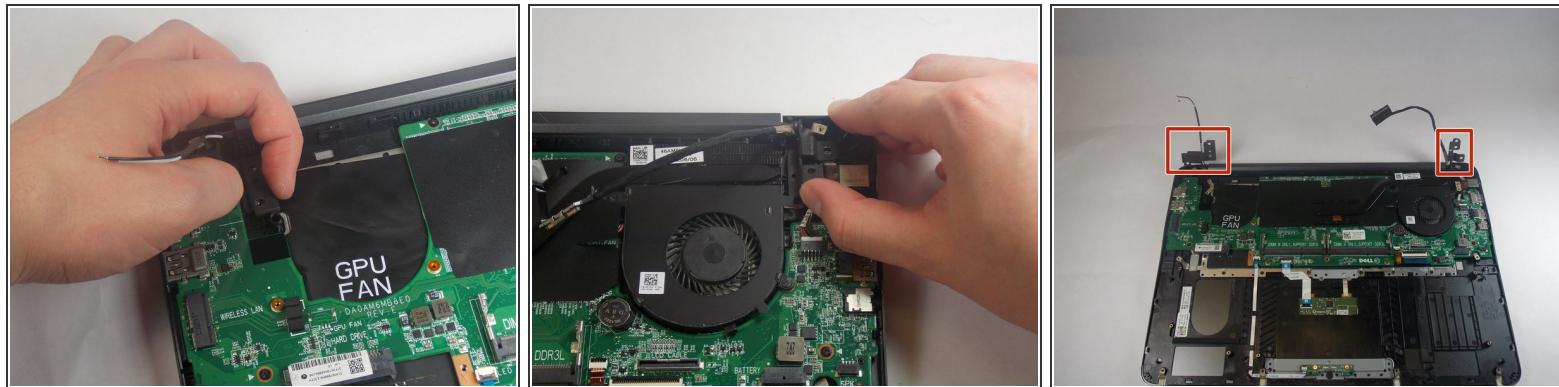
- Remove the six 7.0 mm-long Philips #0 screws that mount the hinges.

Step 19



- Use a spudger to unlatch and unplug the display cable.
 - ⓘ There will be a notch on the side of the connector.

Step 20



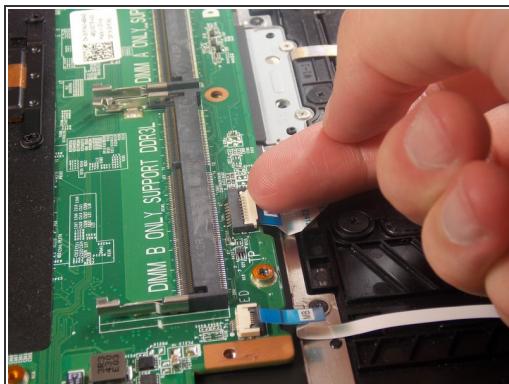
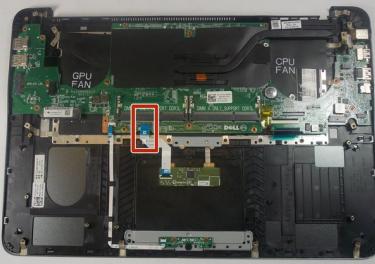
- Raise the left and right hinges.

Step 21



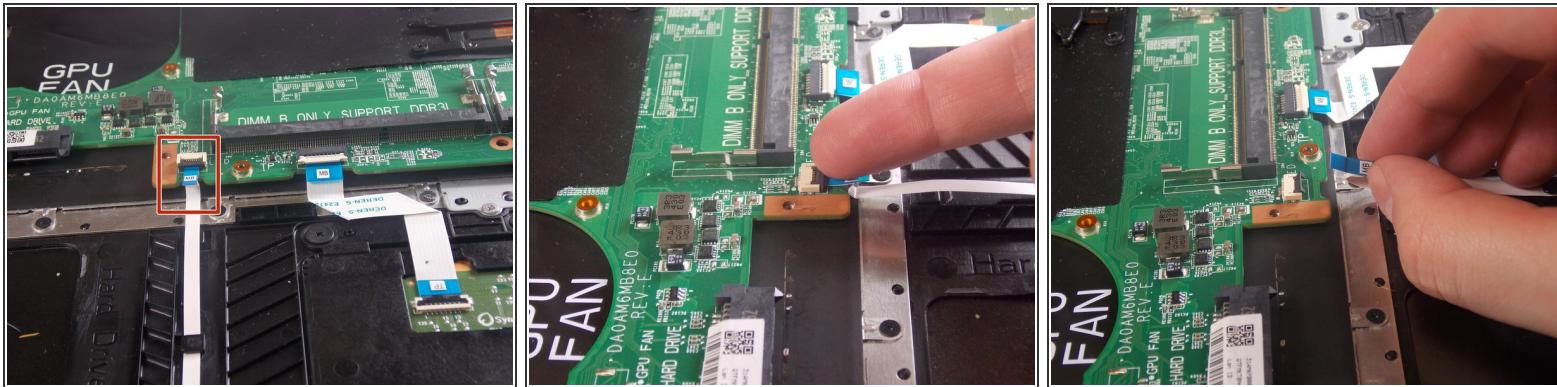
- Remove the LCD display assembly from the laptop.

Step 22 — Motherboard



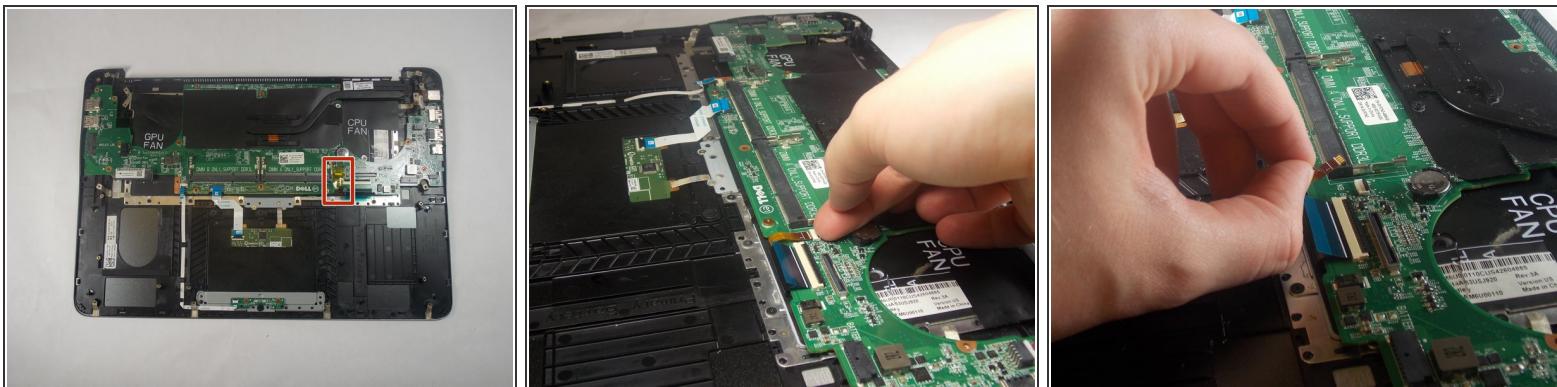
- Unlatch the ribbon cable by pulling the white release up.
(i) If this proves to be difficult using your fingers, try a plastic spudger.
- Hold the blue flap and pull to unplug the cable.

Step 23



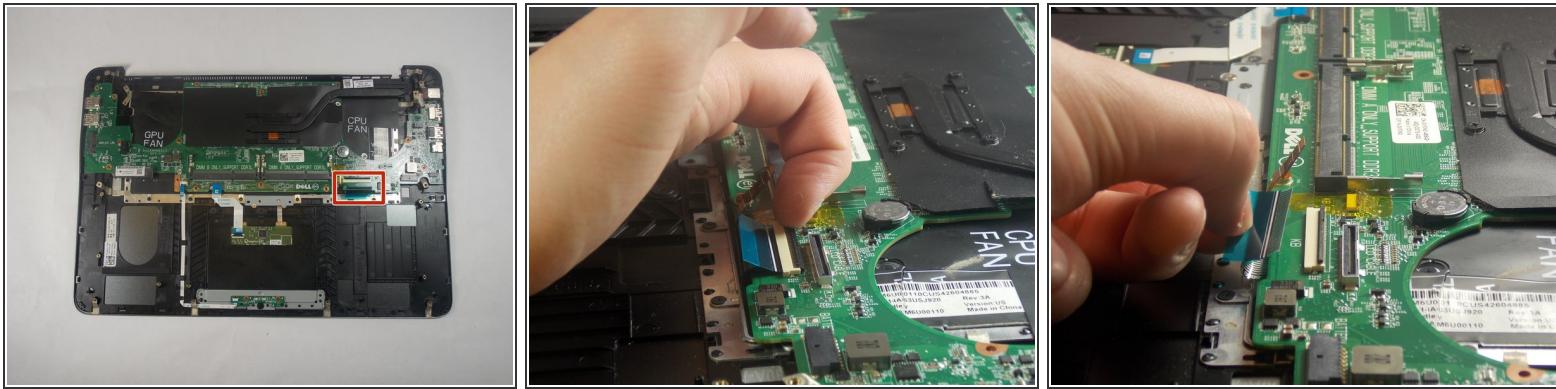
- Unlatch black release on the ribbon cable.
- Hold the blue flap to unplug the cable.

Step 24



- Unlatch the ribbon cable by pulling the black release up.
- *(i)* Unlike the others, this release is found at the back.
- Hold the flap and unplug the cable.

Step 25



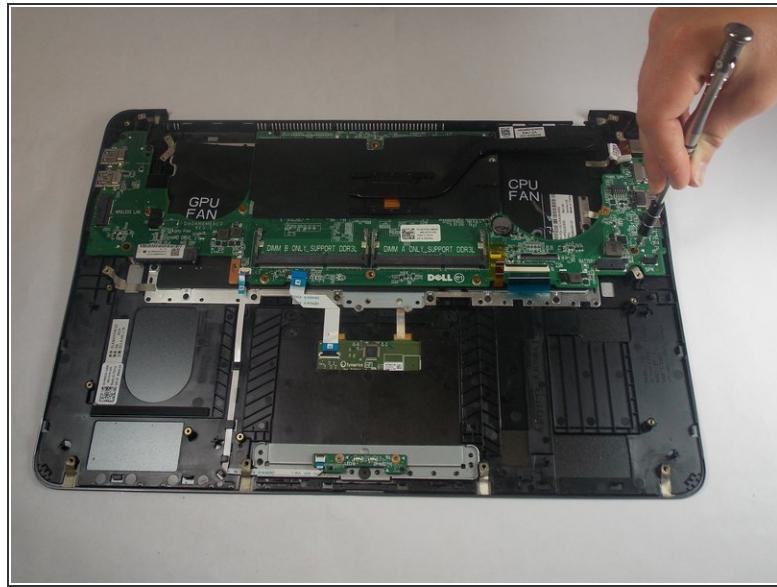
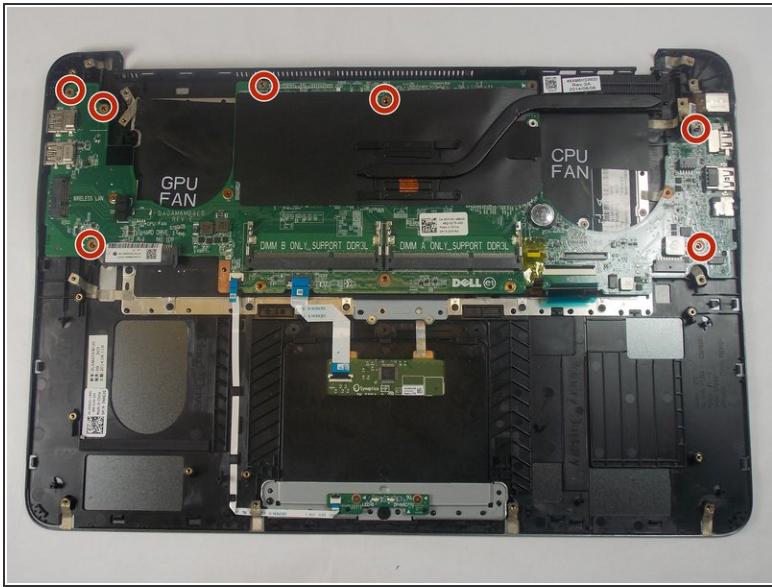
- Unlatch the ribbon cable by pulling the black release up.
- *ⓘ* Unlike the others this release is found at back.
- Hold the blue flap and unplug the cable.

Step 26



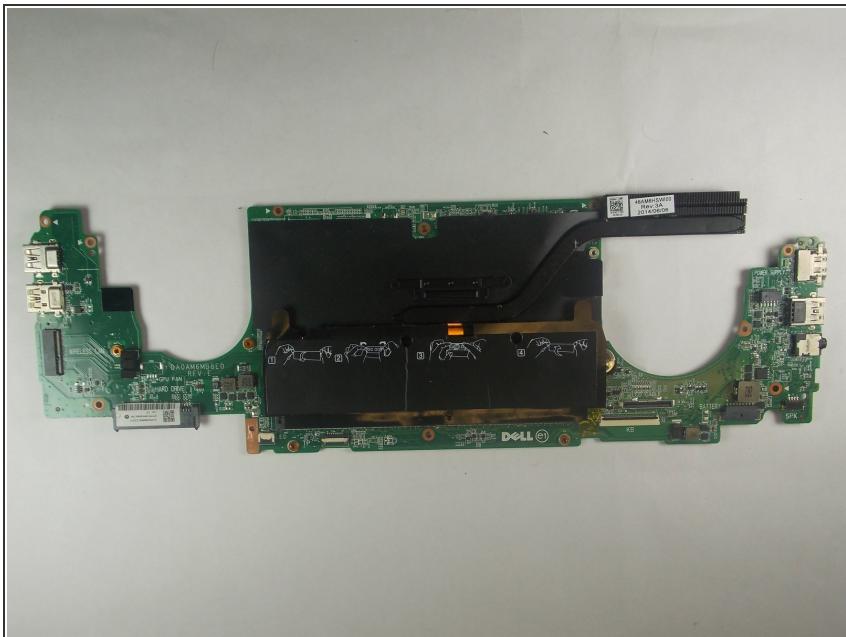
- Unplug the DC jack cable.

Step 27



- Remove the seven 3.0 mm-long Philips #0 screws that secure the motherboard.

Step 28



- Remove the motherboard from the laptop.

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