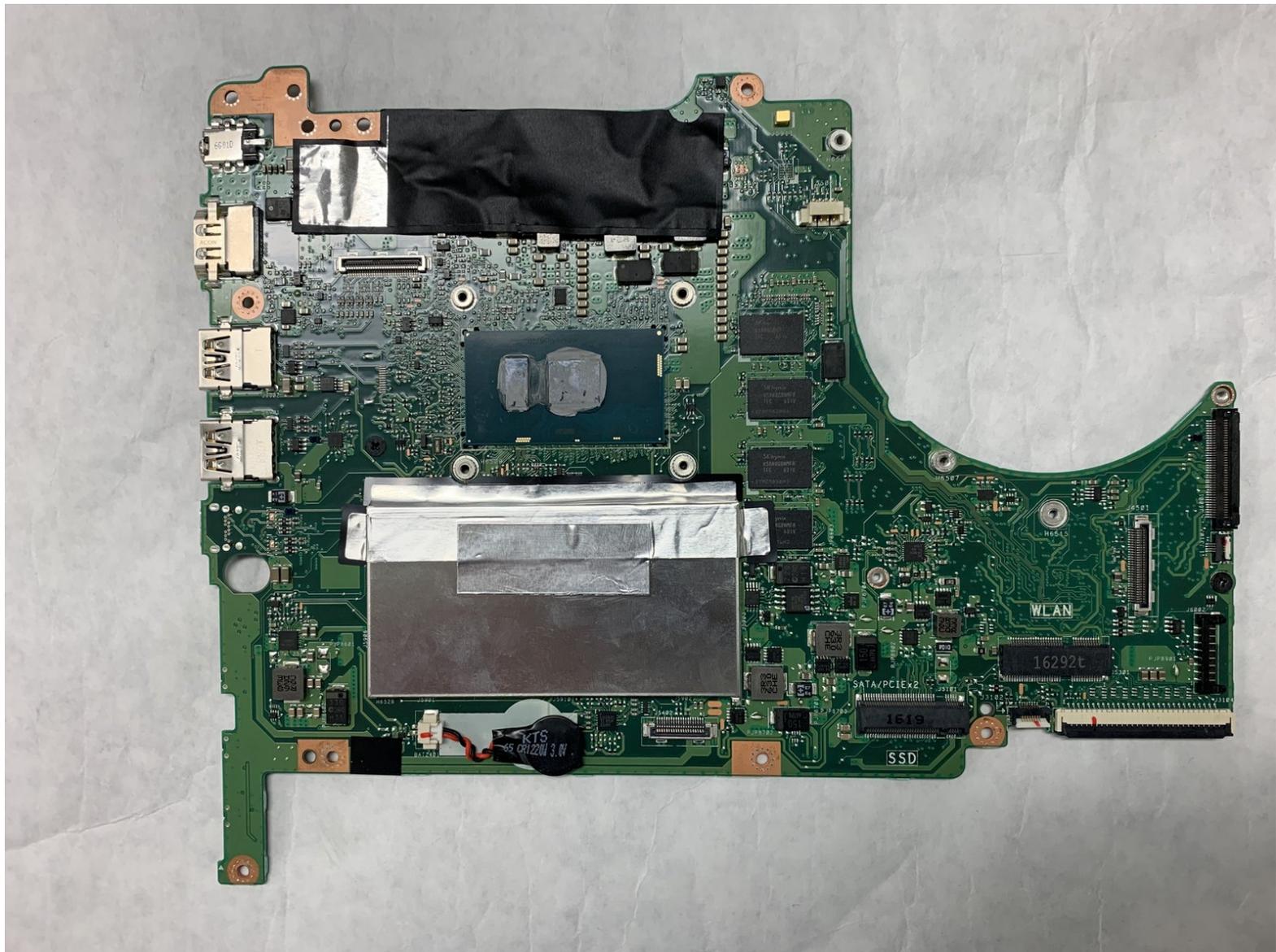




Asus Q504UA-BHI5T13 Motherboard Replacement

This guide will show you how to replace the motherboard on the ASUS Q504UA-BHI5T13.

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INTRODUCTION

This repair would be needed if the laptop is no longer booting, but other auxiliary components are still functional. When removing the Motherboard be sure to keep things organized, through the course of this replacement you will need to remove most major internal components.

TOOLS:

- [Metal Spudger](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [T5 Torx Screwdriver](#) (1)
 - [Tweezers](#) (1)
-

Step 1 — Back Panel



- ⓘ Ensure that the laptop is off so you do not shock yourself.

Step 2



- Use the T5 Torx screwdriver to remove the ten 1mm screws located around the back cover.

Step 3



- Remove the two rubber pads nearest to you using the metal spudger.

Step 4



- Use the Phillips #0 screwdriver to remove the two 4mm screws that are under the rubber pads.

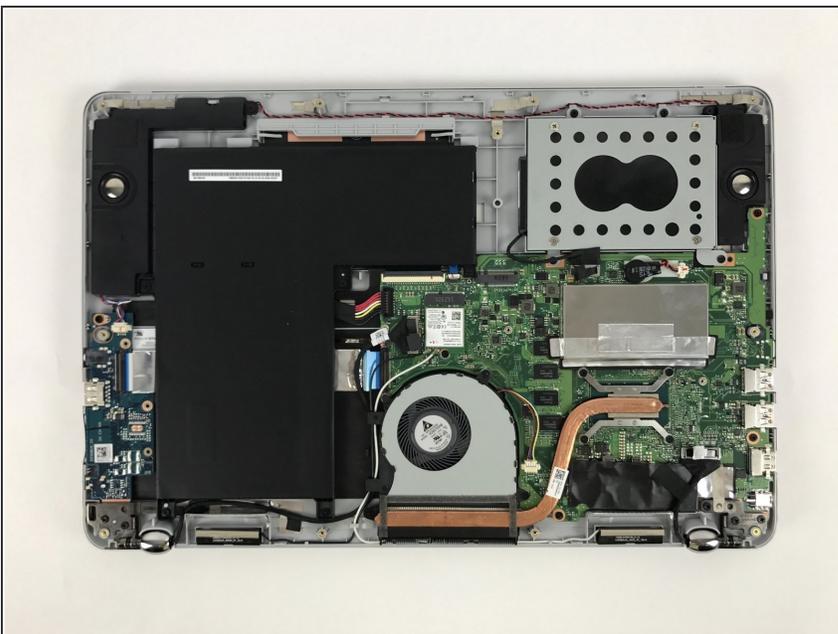
Step 5



- Insert any of the plastic opening tools into the seam to separate the back cover (it is recommended to start at the corner of the hinges). If you did it right, then the cover should pop off.

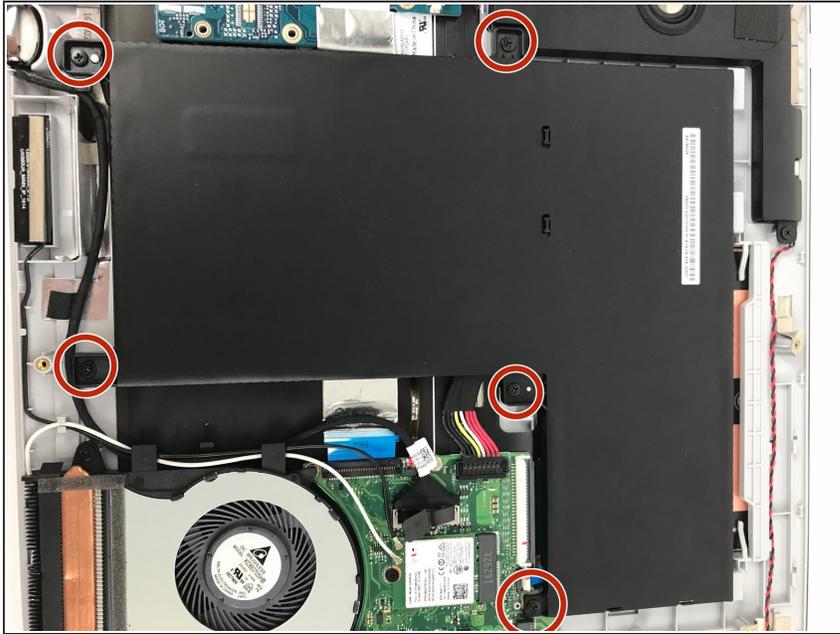
 Be careful as you may damage the tabs.

Step 6 — Battery



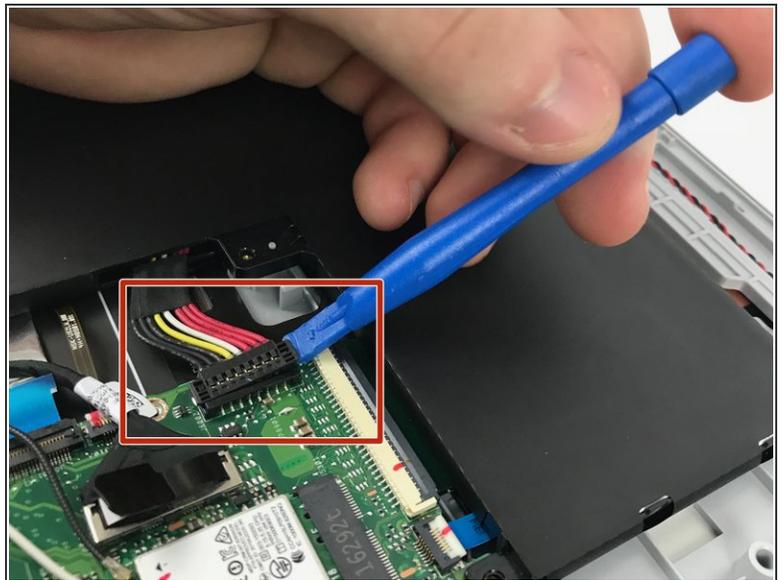
- Once the back cover is removed, have the laptop facing upside down with the hinges facing toward you.

Step 7



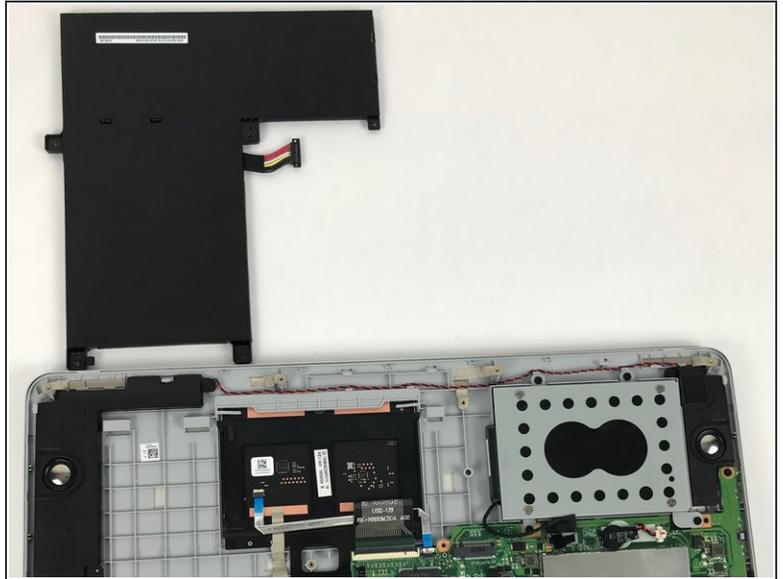
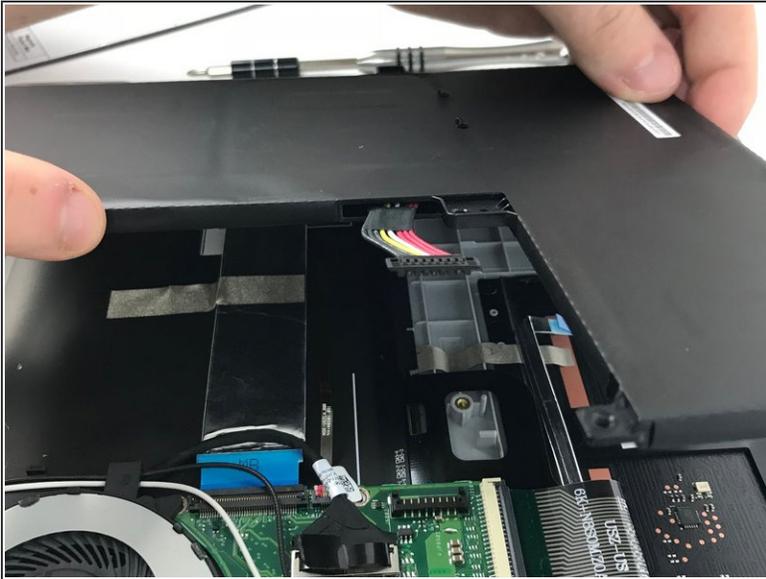
- Use the Phillips #0 screwdriver to remove the five 4mm screws around the battery.

Step 8



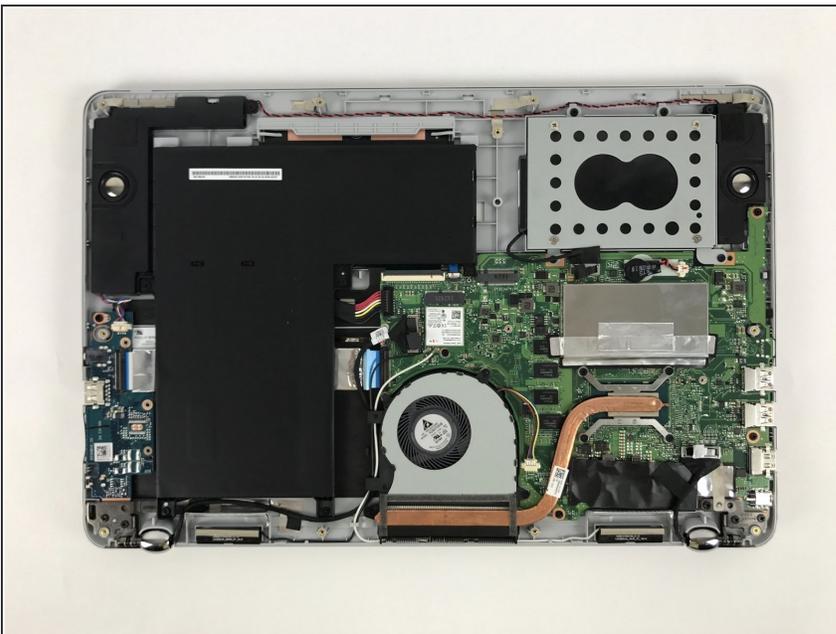
- Use the small plastic opening tool to remove the ZIF Connector on the right side of the battery.

Step 9



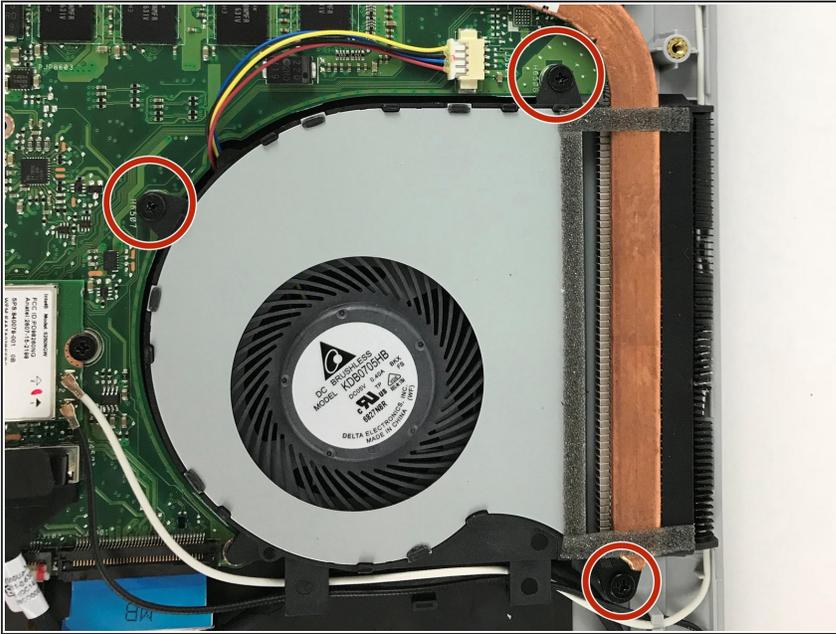
- Remove the battery from the device.

Step 10 — Heat Sink



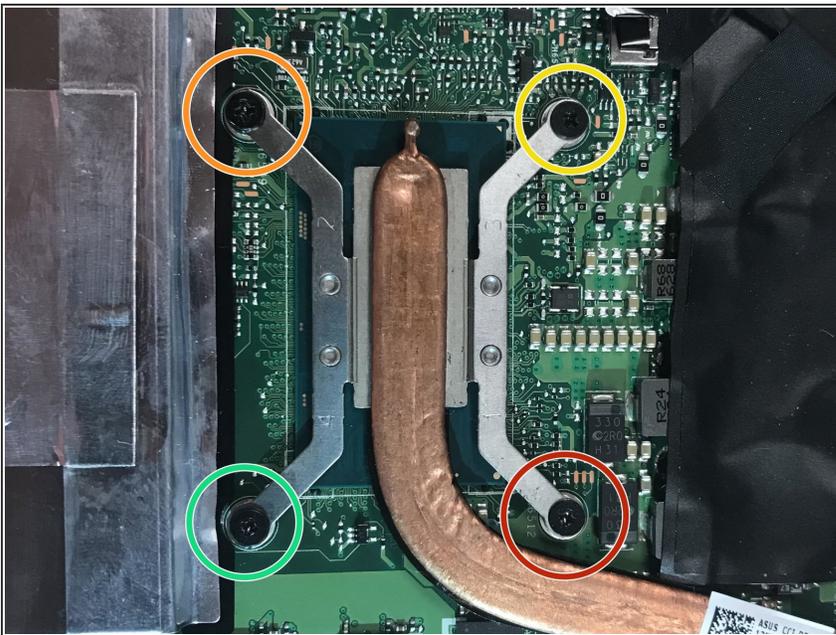
- Once the back cover is removed, have the laptop facing upside down with the hinges facing nearest to you.

Step 11



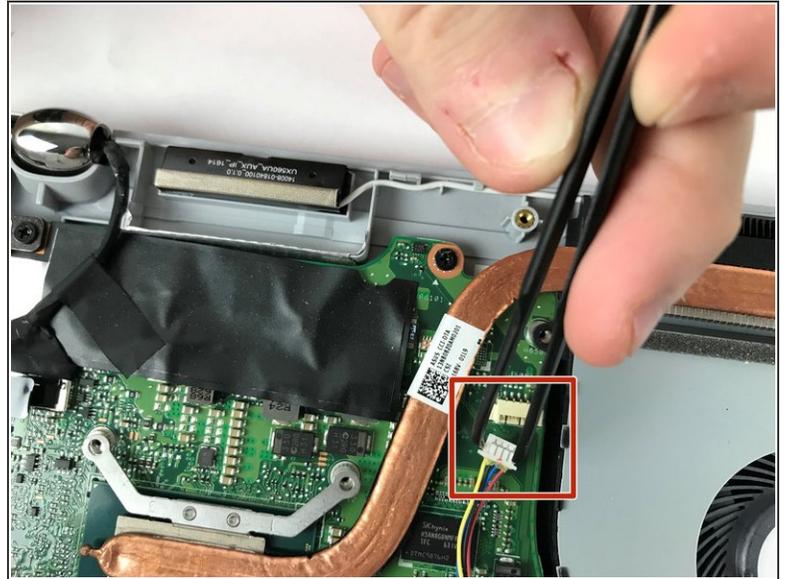
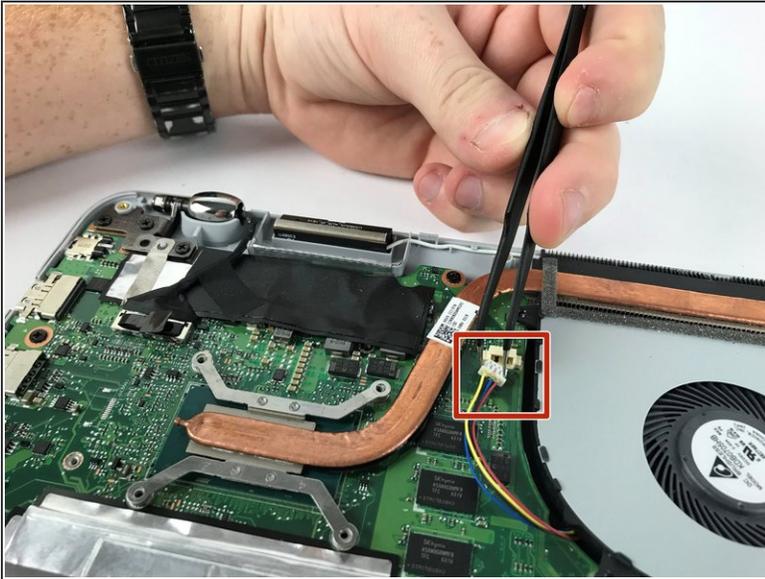
- Using a Phillips #0 screwdriver, remove the three black 4mm screws located around the heat sink fan.

Step 12



- Using the same screwdriver, remove the four 4mm black screws around the copper lining
 - First remove the screw in the red circle.
 - Then remove the screw in the orange circle.
 - Next remove the screw in the yellow circle.
 - Finally, remove the screw in the green circle.
- i** For this step, it helps to remove the screws in this order to prevent damage to the heat sink.

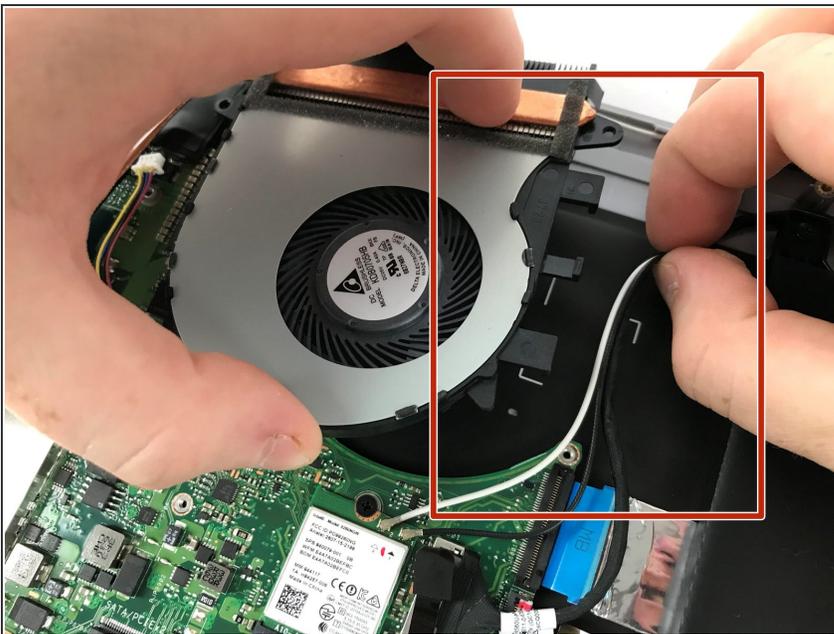
Step 13



- Use a pair of tweezers to pull and disconnect the cable located to the right of the heat sink fan.

⚠ Take caution when removing the cable. Damaging the cable will stop the part from working.

Step 14



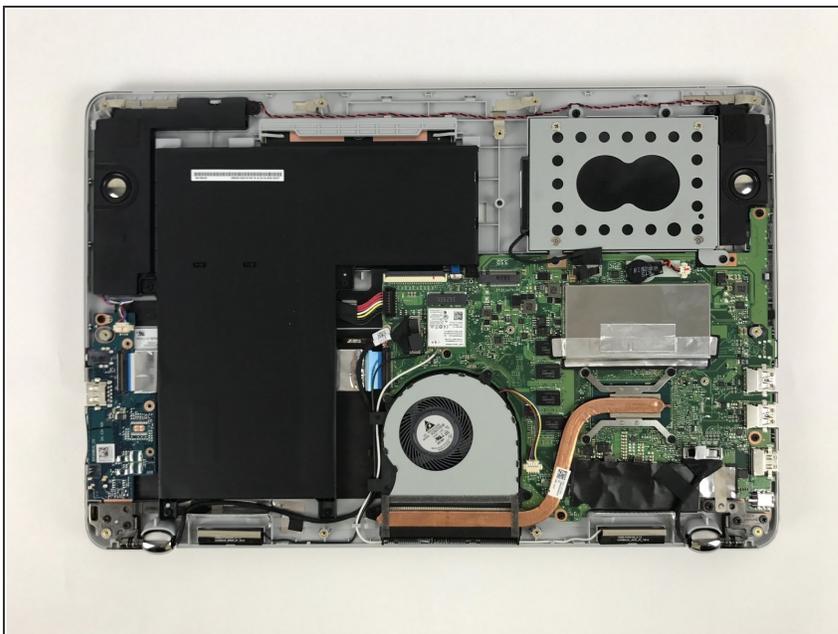
- Carefully unravel the cables (two black and one white) to the left of the heat sink fan.

Step 15



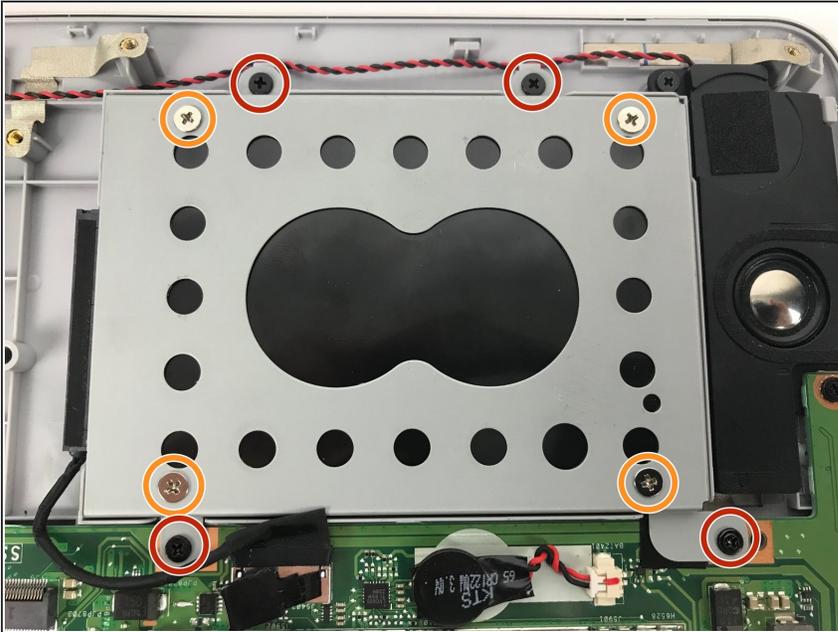
- Remove the heat sink from the device.

Step 16 — Hard Drive



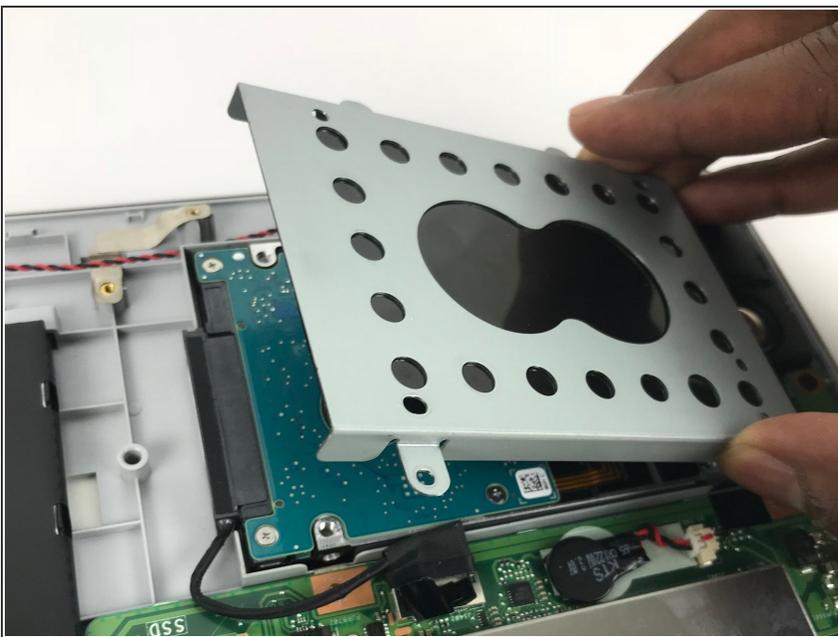
- Once the back cover is removed, have the laptop facing upside down with the hinges facing toward you.

Step 17



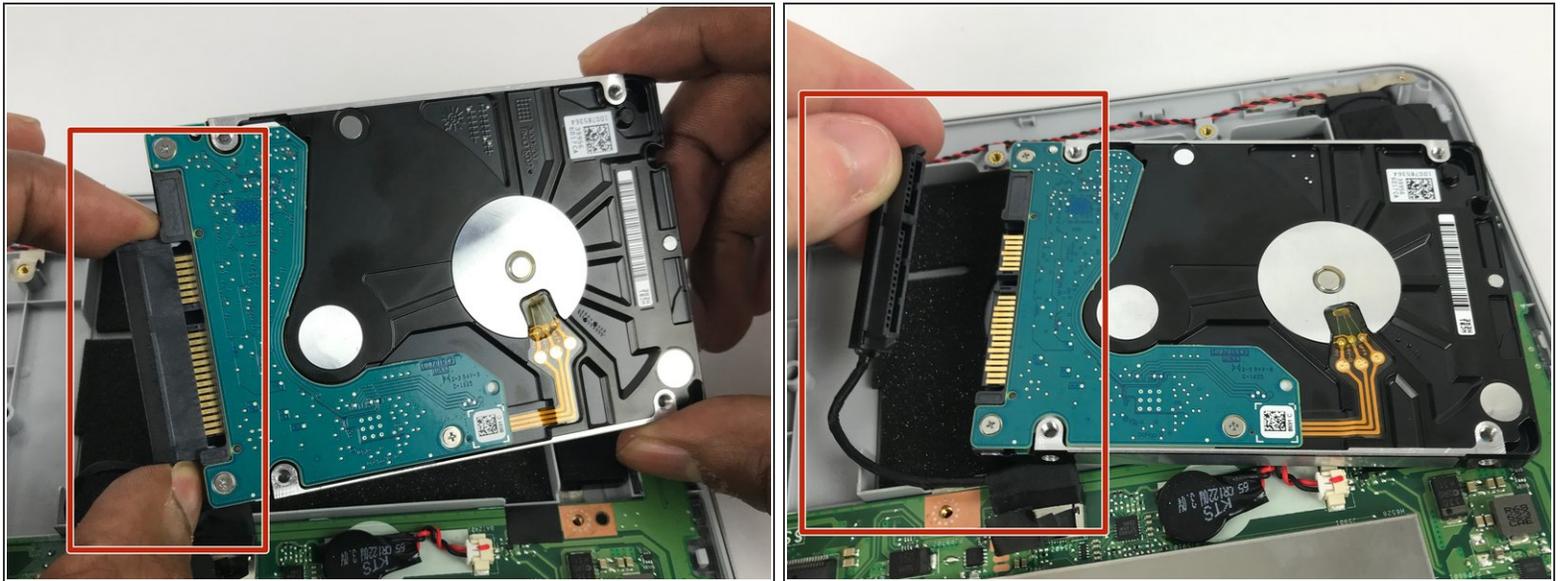
- Use the Phillips #0 screwdriver to remove the eight 4mm screws around the hard drive casing (located next to the Right [R] speaker).
- Start off with the four black outer screws so that the casing can be released from the laptop unit.
- The next sequence of screws to remove are the four silver screws.

Step 18



- Remove the cover.

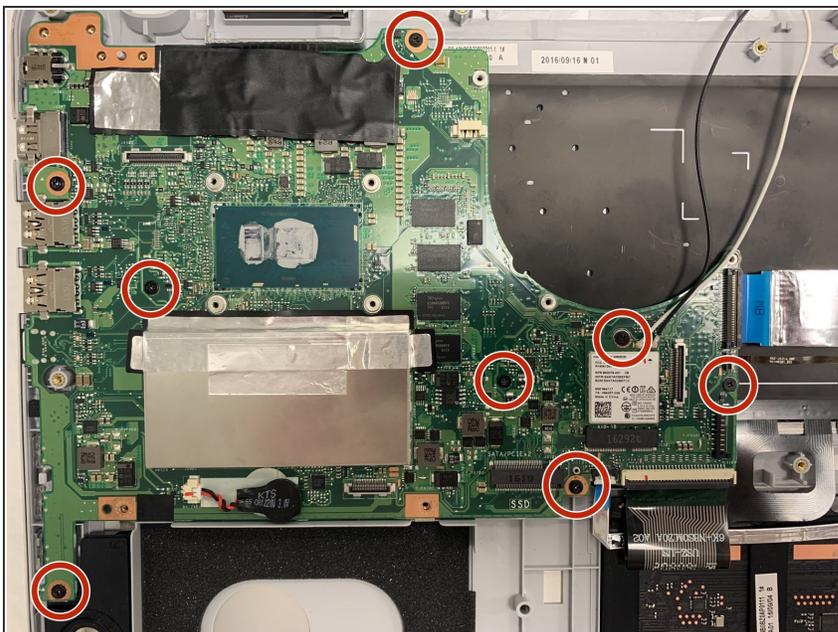
Step 19



- Lift the hard drive and disconnect the hard drive sliding connector.

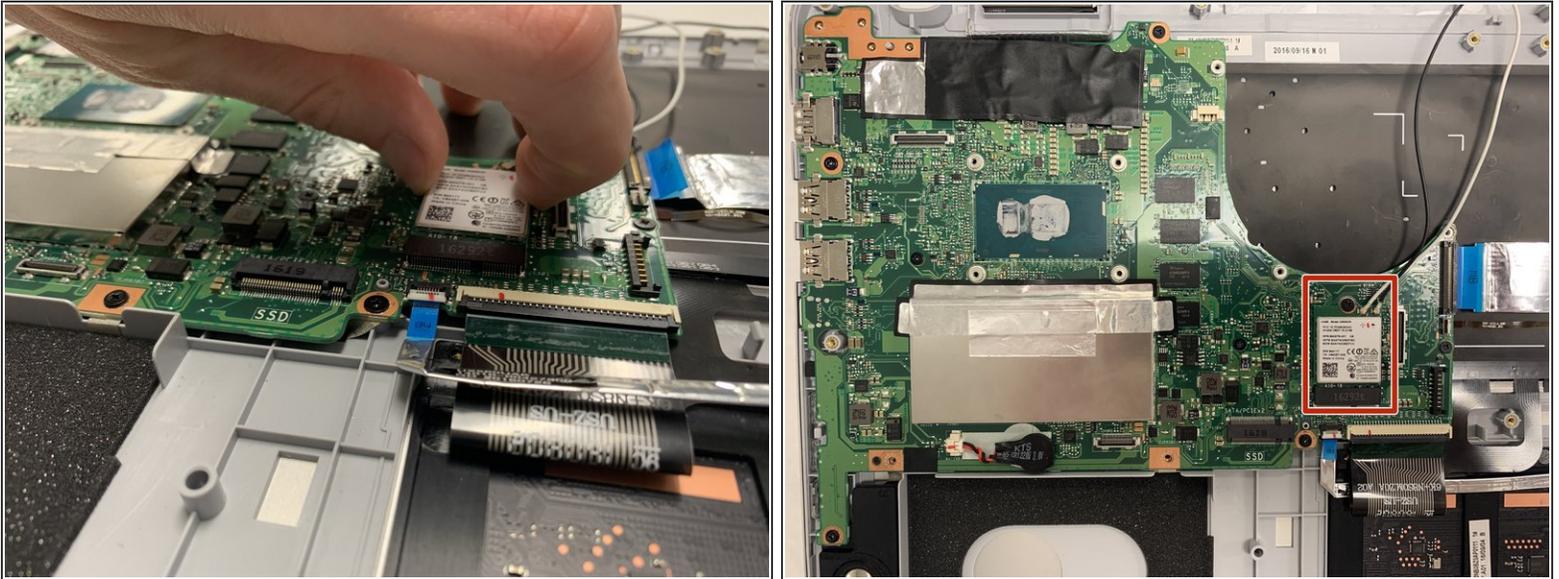
⚠ Be careful when removing the connector from the hard drive, as damaging that cable could cause damage to the hard drive.

Step 20 — Motherboard



- Use the Phillips #0 screwdriver to remove the remaining eight 4.0 mm screws.

Step 21



- Remove the wifi card by hand, as shown.

Step 22



- Use the small plastic opening tool to remove the three ZIF Connectors.

Step 23



- Pull up on two corners and pull upwards to remove the Motherboard.

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