



Asus Vivobook Q301LA-BHI5T02 Motherboard Replacement

This guide will explain how to replace the motherboard for your Asus Vivobook Q301LA-BHI5T02.

Written By: Caleb Ellis



INTRODUCTION

This guide will show the reader how to replace their failing motherboard with a new one. Other components are disconnected from the motherboard so they can be saved and reconnected to the new one. One of the most common signs of a failing motherboard is random restarts. If you are experiencing these often, a failing motherboard may be the culprit.

TOOLS:

- [iFixit Opening Tools](#) (1)
 - [Phillips #1 Screwdriver](#) (1)
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Step 1 — Back Cover



- ⓘ Make sure the computer is turned off.
- Flip the device over so that the back cover is facing you.

Step 2



- Remove the four 5mm Phillips #1 screws from the top of the laptop.
- Remove the two 6mm Phillips #1 screws from the sides of the laptop.
- Remove the four 2mm Phillips #1 screws from the bottom of the laptop.

Step 3



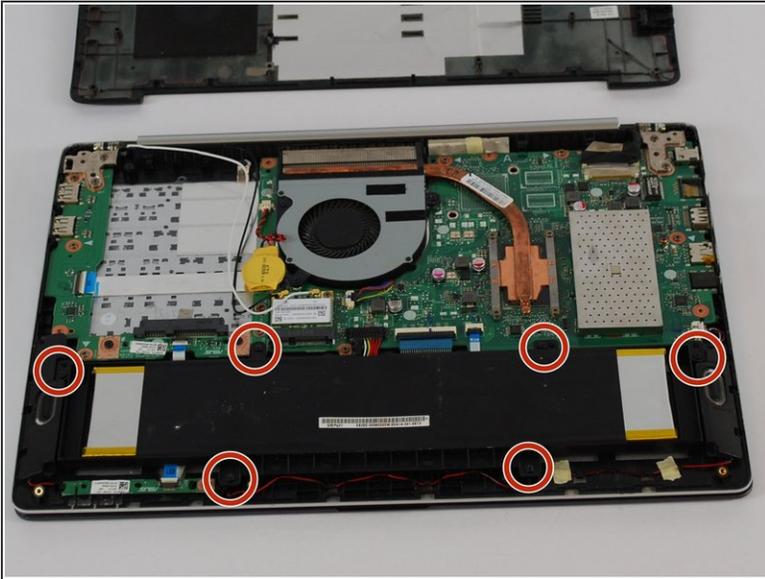
- Use a plastic opening tool to gently pry the bottom of the laptop up. Slowly slide it along the edges, twisting it every so often to pop the bottom of the laptop out of the clips holding it in place.

Step 4



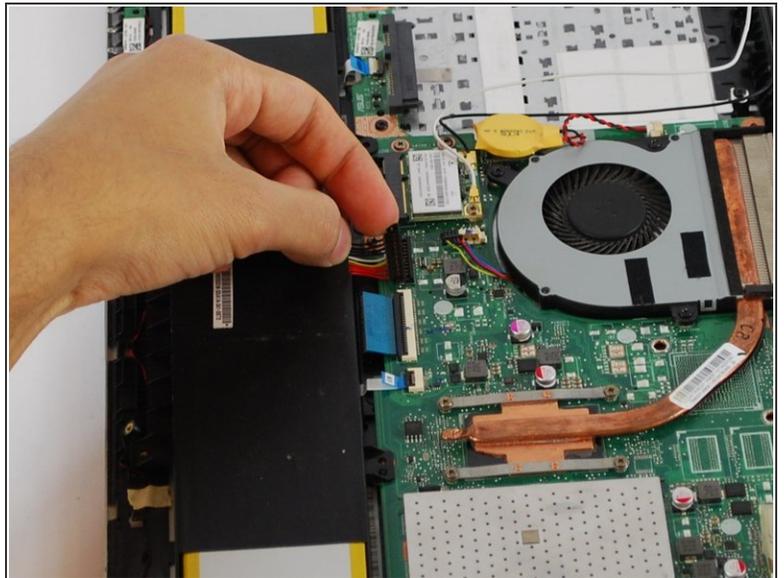
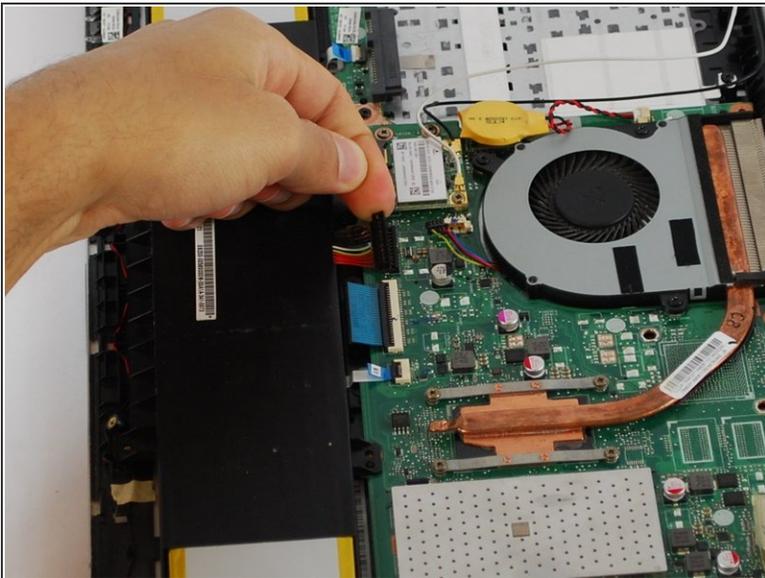
- Lift off the cover and remove the back cover from the device.

Step 5 — Battery



- Using a Phillips #1 Screwdriver remove the six 3 mm screws keeping the battery in place.

Step 6



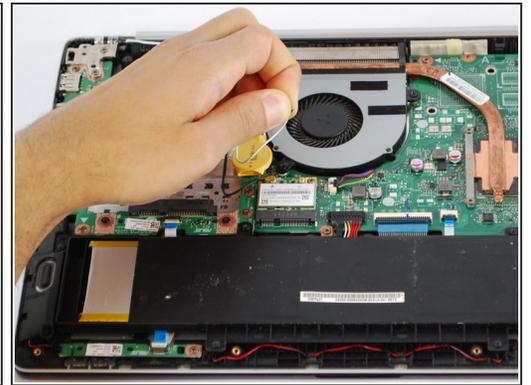
- Unplug the battery connector from the motherboard.

Step 7



- Gently remove the battery from the slot.

Step 8 — Wifi card



- Unplug the two small cords connected to the wifi card.

Step 9



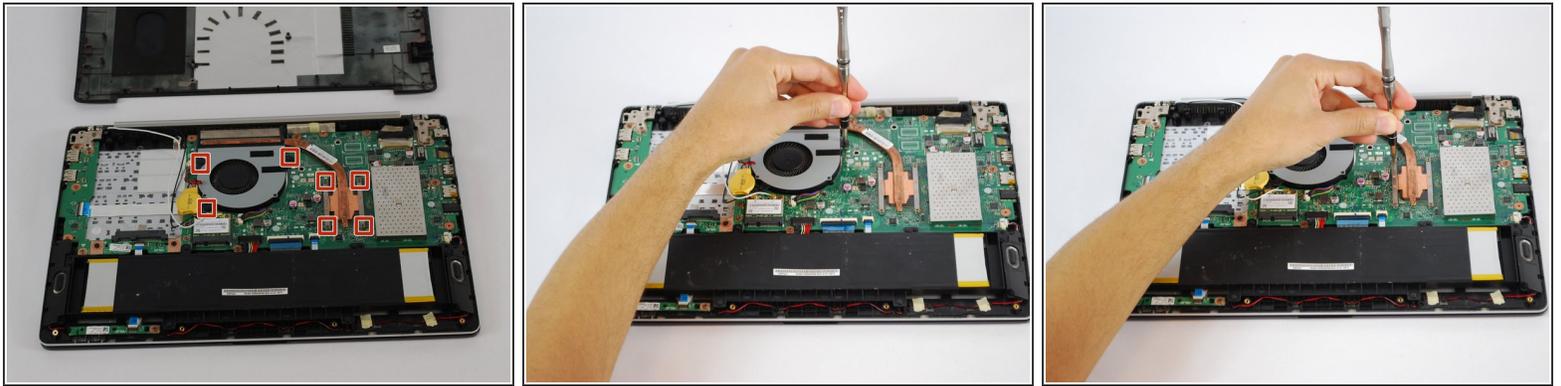
- Using a Phillips #1 Screwdriver unscrew the 2 mm screw holding the wifi card in place.

Step 10



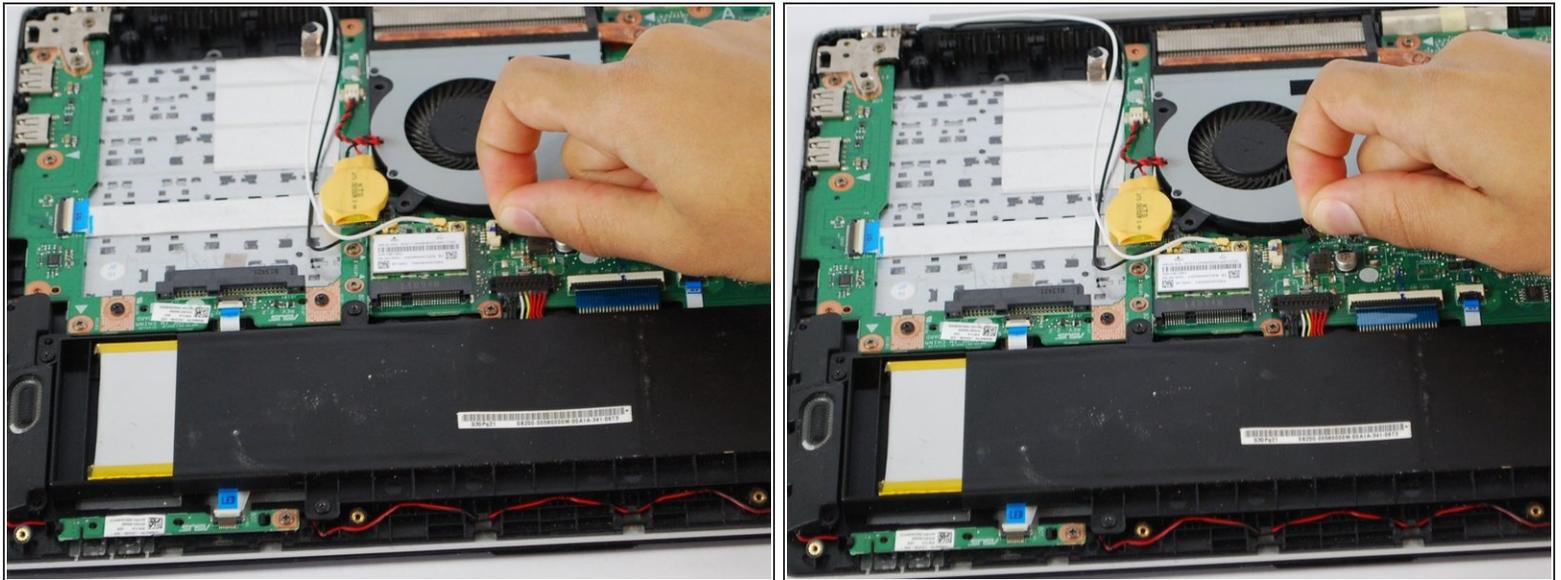
- Unplug the Wi-Fi card from the motherboard and remove it from the device.

Step 11 — Fan and Heatsink



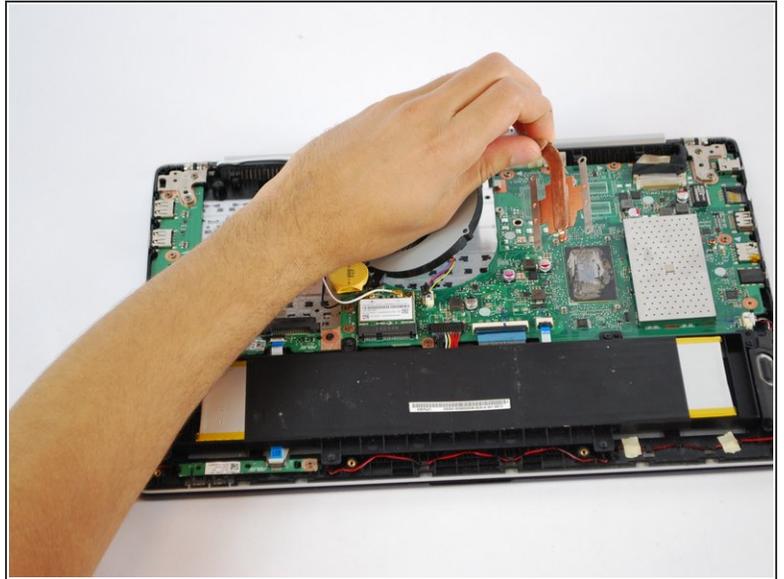
- Using a Phillips #1 Screwdriver remove the three 3 mm black screws and four 2 mm copper screws holding the fan and heat sink in place.

Step 12



- Remove the wire connecting the fan to the motherboard.

Step 13



- Gently remove the fan and heat sink from the motherboard.
- ☞ On reassembly, be sure to clean the CPU and heat sink and reapply thermal compound to the CPU. Follow [this guide](#) to learn how.

Step 14 — RAM



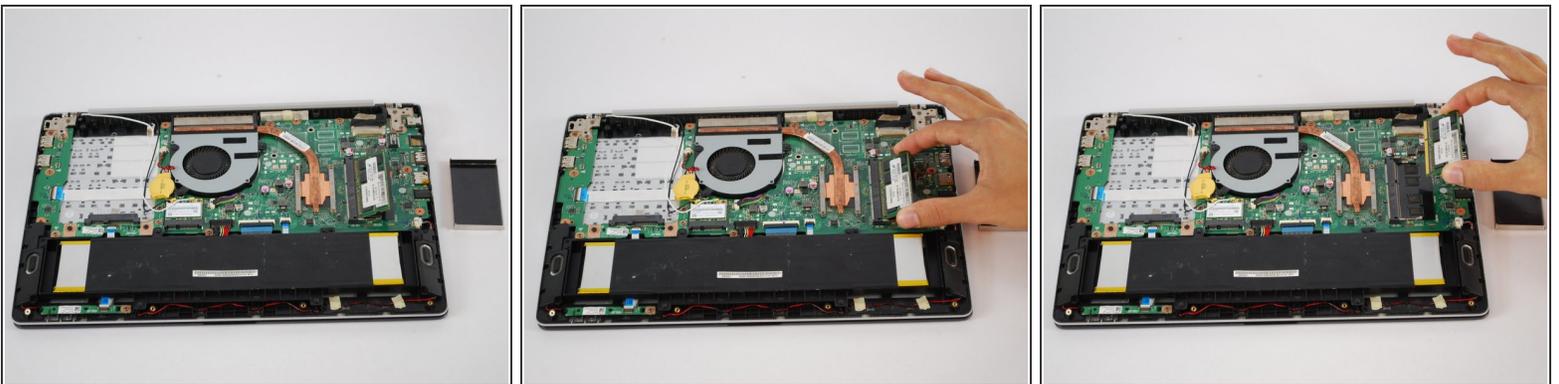
- Remove the top covering the RAM chips.

Step 15



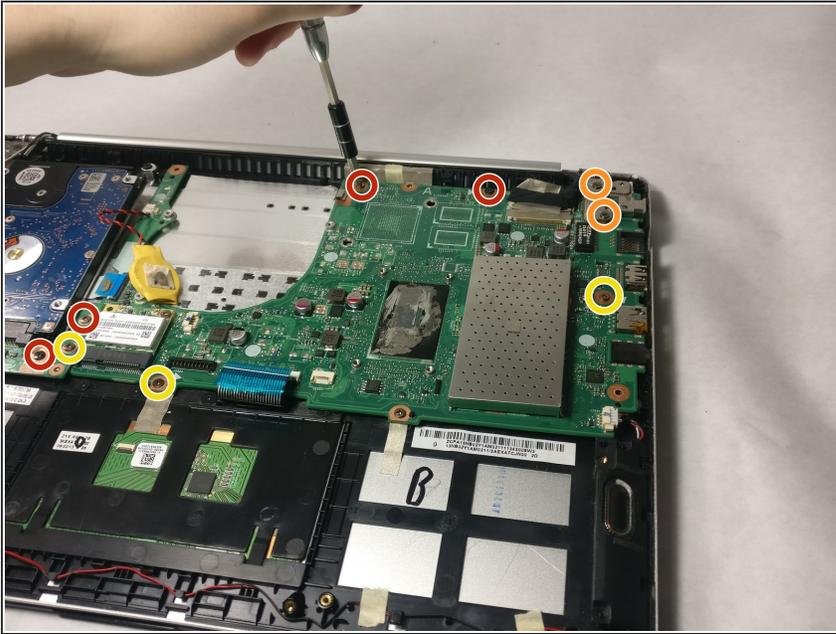
- Gently push the RAM chip holder to the sides.

Step 16



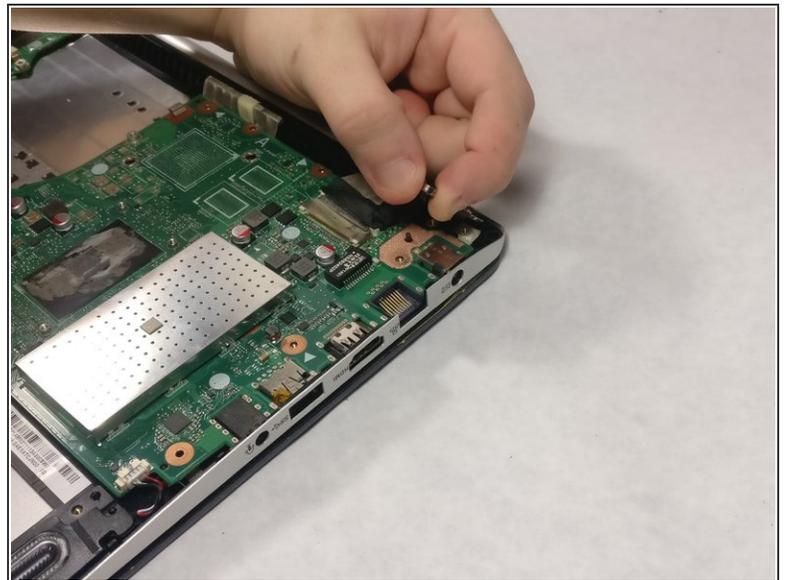
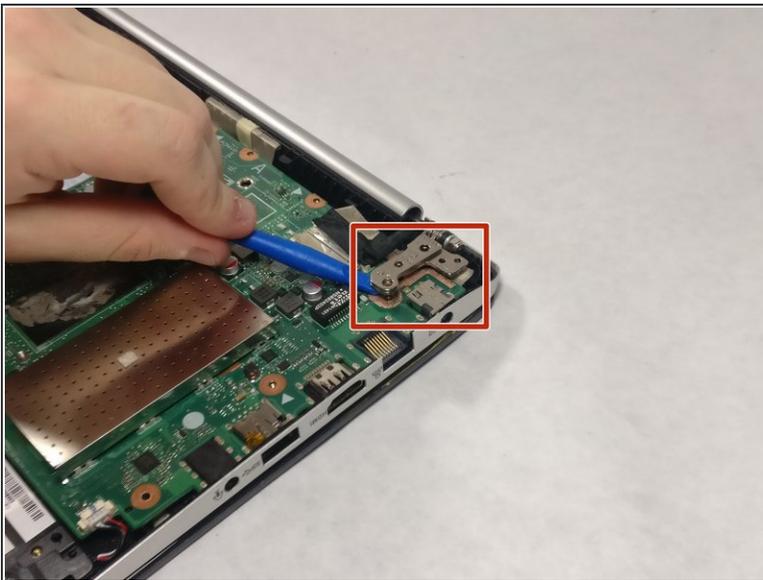
- Remove the RAM from the device.

Step 17 — Motherboard



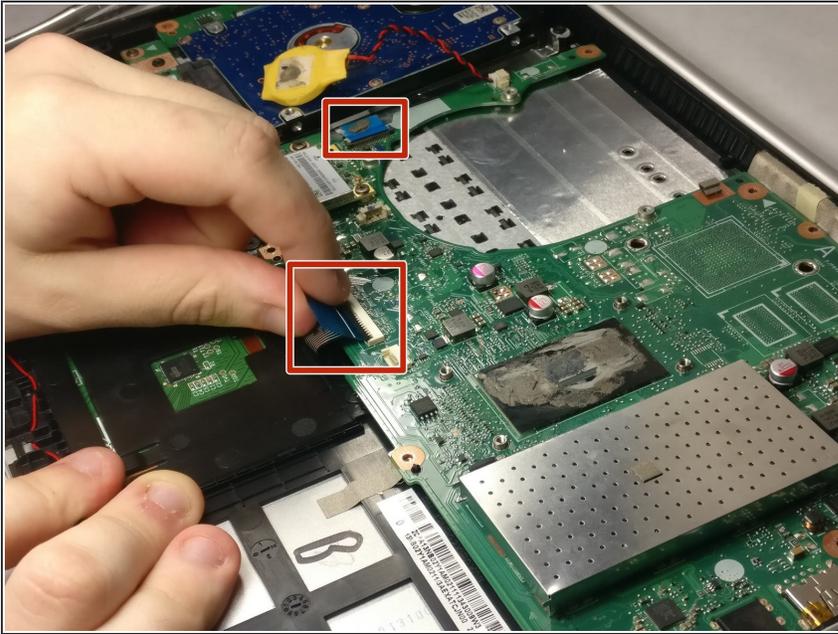
- Remove the four 4.0 mm Phillips #1 screws shown.
- Remove the two 5.0 mm Phillips #1 screws shown.
- Remove the three 3.0 mm Phillips #1 screws shown.

Step 18



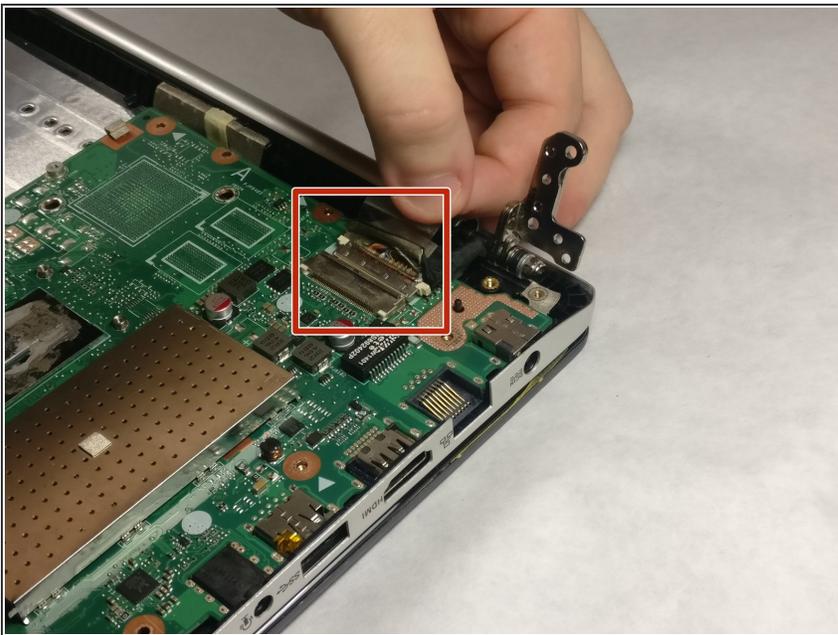
- Using a plastic opening tool, pry open the hinge shown until your fingers can fit under it.
- Pull the hinge the rest of the way up.

Step 19



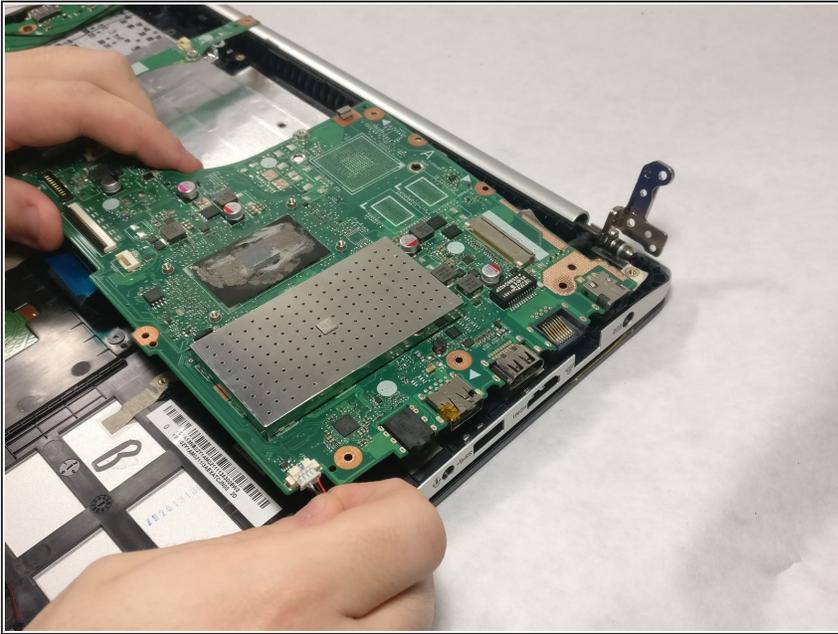
- Disconnect the motherboard from the two connectors shown.

Step 20



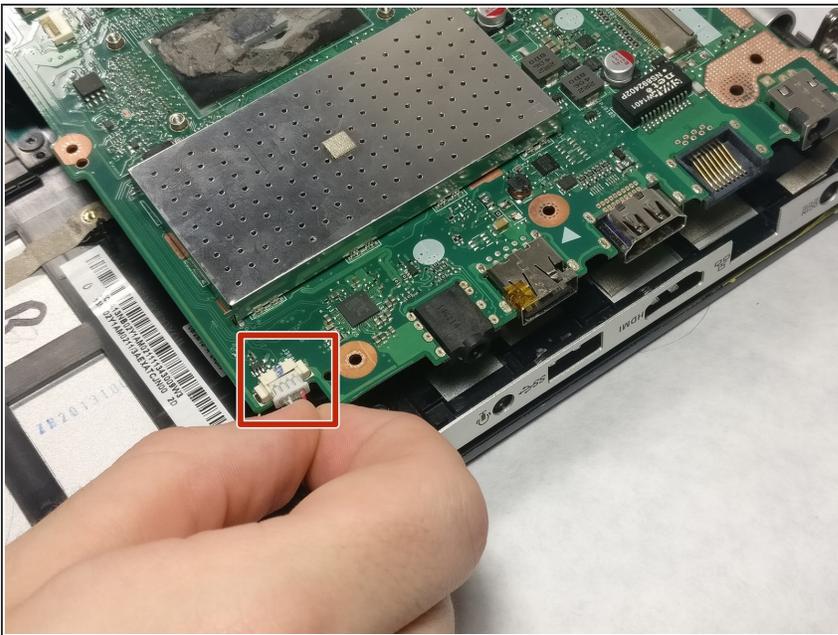
- Disconnect the motherboard from the connector shown.

Step 21



- Pull the motherboard loose.

Step 22



- Disconnect the motherboard from the connector shown and it is now removed from your device.

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