



Asus X550ZA-SA100603E Motherboard Replacement

A demonstration of how to remove the motherboard in the event malfunction or for the sake of upgrading your computer.

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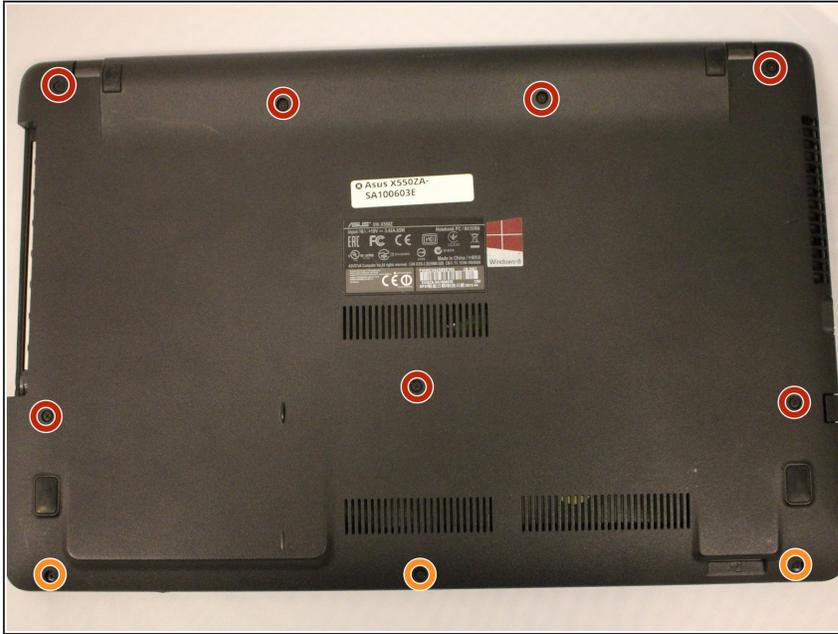
INTRODUCTION

This tutorial demonstrates how to remove the motherboard from your laptop. Doing so allows you to upgrade the CPU, implement a higher quality graphics card, and improve the operating power of your computer.

TOOLS:

- [iFixit Opening Tools](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
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Step 1 — Keyboard



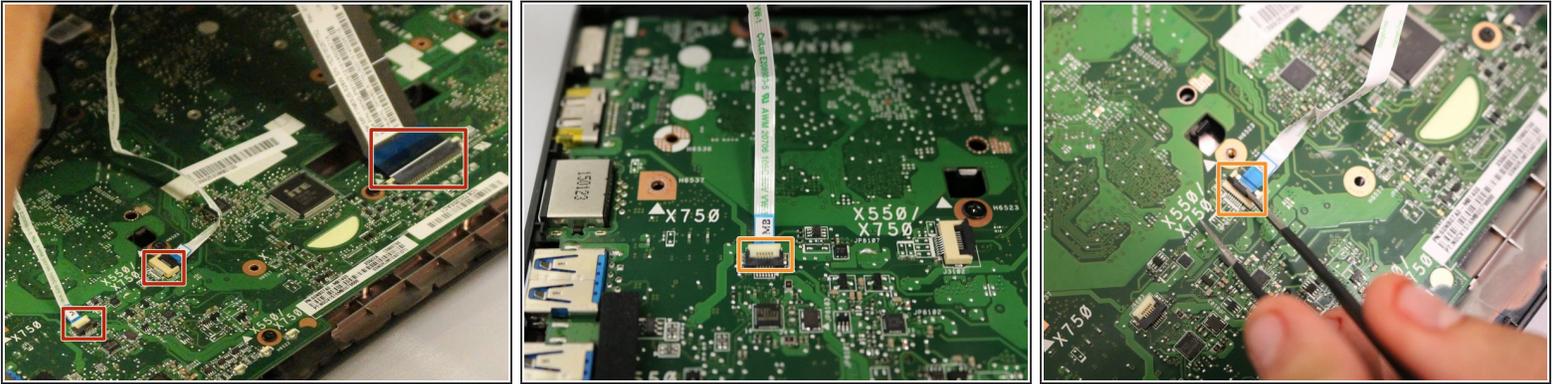
- Using the Phillips #0 screwdriver, remove the seven 14 mm screws on the bottom of the laptop.
- Then use the Phillips #0 to remove the three 4 mm screws on the bottom of the laptop.

Step 2



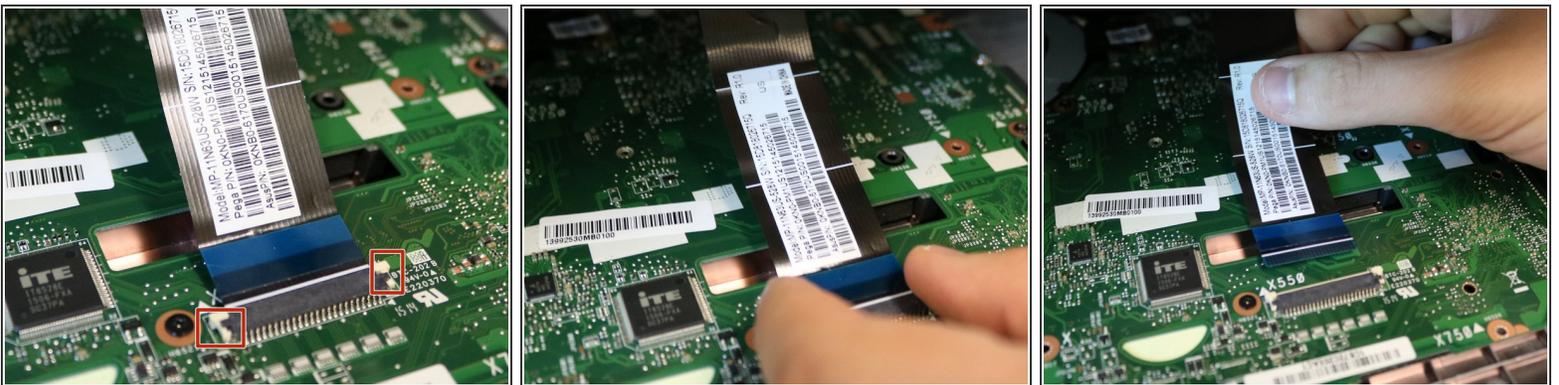
- Insert a plastic opening tool between the keyboard and base of the laptop to pry the keyboard away from the base. Do this around the entire perimeter of the laptop.
 - This disconnects the face of the keyboard. Gently lift the keyboard up to expose the motherboard.
- ⚠ There are still ribbon cables connecting the keyboard face to the motherboard. Do not pull the keyboard away roughly.

Step 3



- Gently lift the keyboard to access the three ribbon cables connected to the motherboard
- Using precision tweezers, flip up the white and black retaining flaps on the ZIF connectors that hold the two smaller ribbon cables in place.
- Gently pull the ribbon cables from their sockets on the motherboard.

Step 4



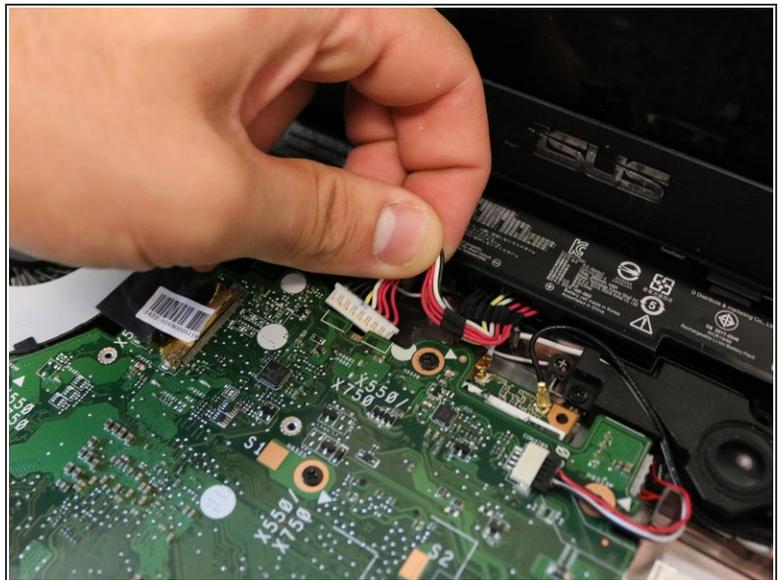
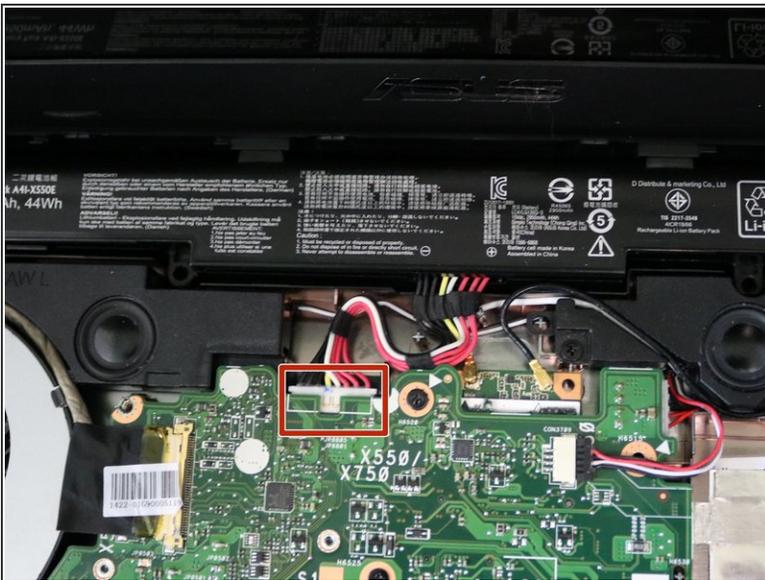
- Push the two white clamps on the large ZIF connector towards the screen.
- Gently remove the track pad ribbon cable from its connector.

Step 5



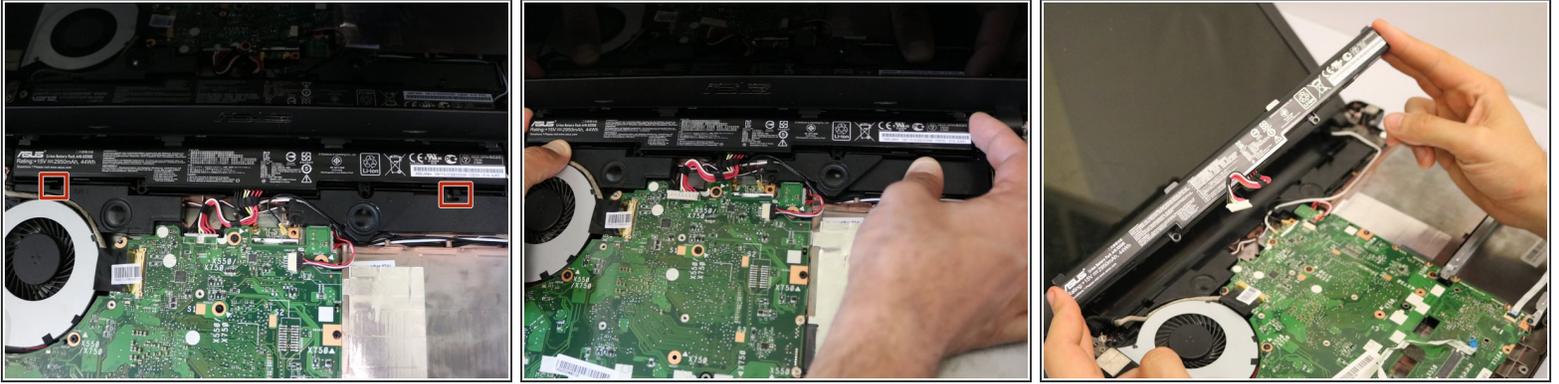
- Remove the keyboard.

Step 6 — Battery



- Disconnect the multi-wire battery plug from the motherboard.

Step 7



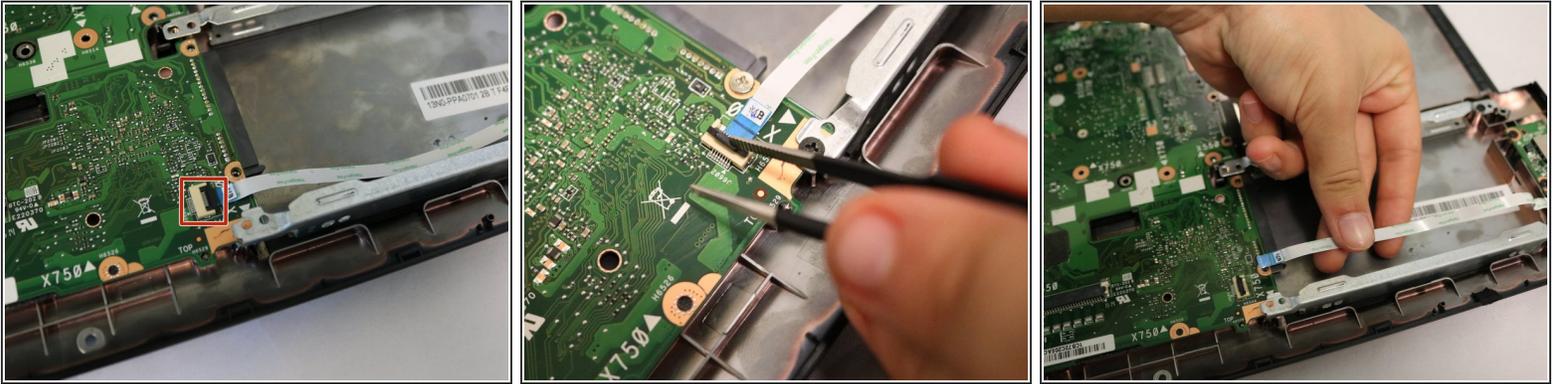
- Pull the two tabs holding the battery in place and lift the battery up. It should remove easily.

Step 8 — Motherboard



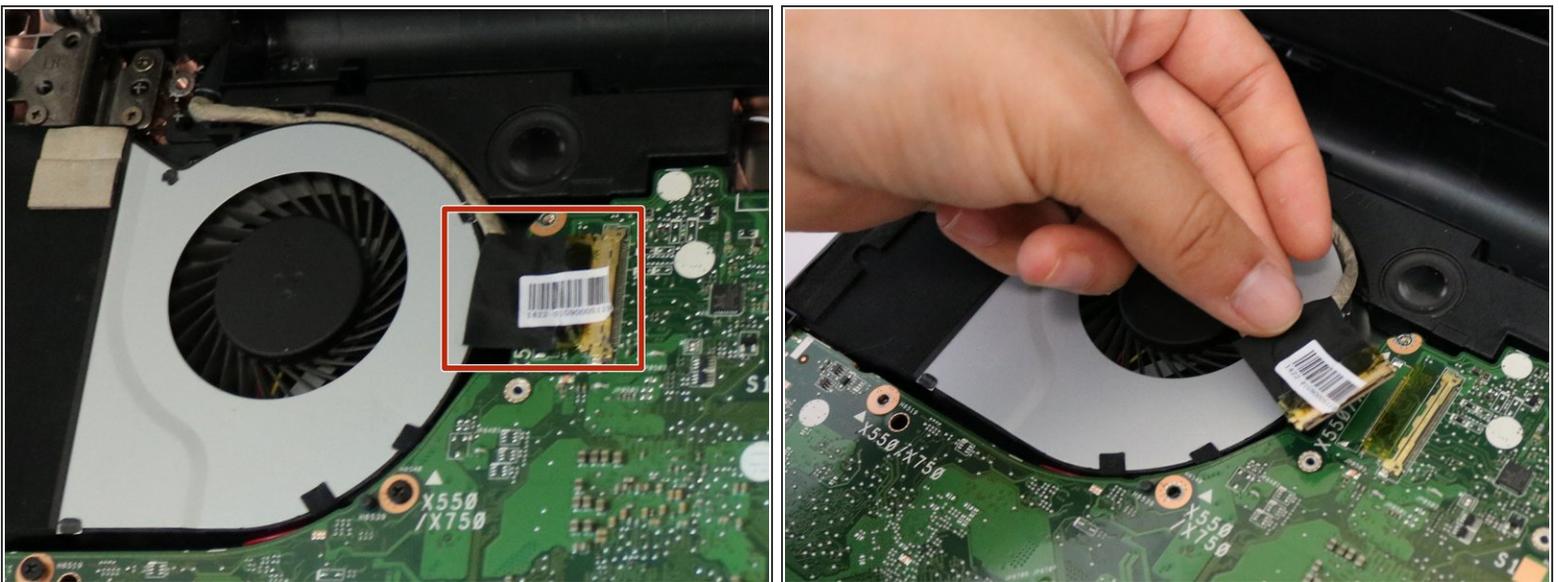
- Use a Phillips #0 screwdriver to remove the thirteen black 4 mm screws from the face of the motherboard.
- Use a Phillips #0 head screwdriver to remove the four silver 4 mm screws from the face of the motherboard
- Use a Phillips #0 head screwdriver to remove the one black 4 mm screw from the indented area above the fan.

Step 9



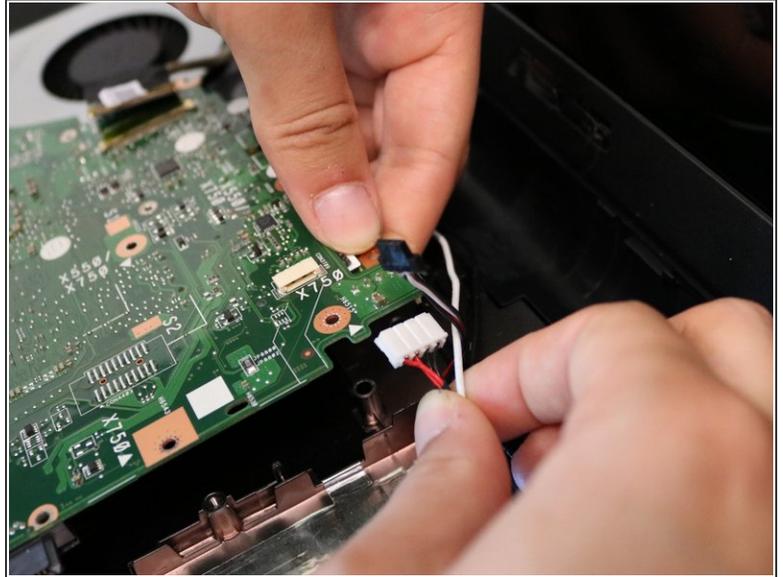
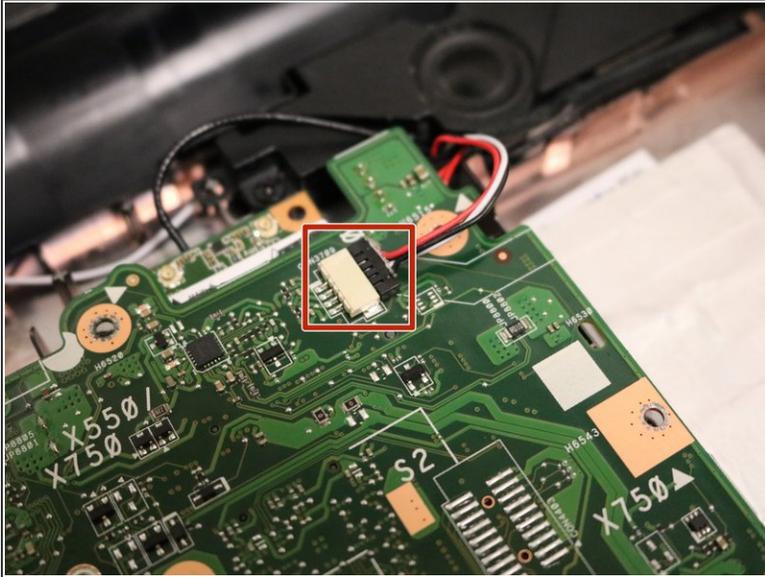
- Use the precision tweezers to flip the black switch holding the film connected to the USB port.
- Gently remove the film from it's connection to the motherboard.

Step 10



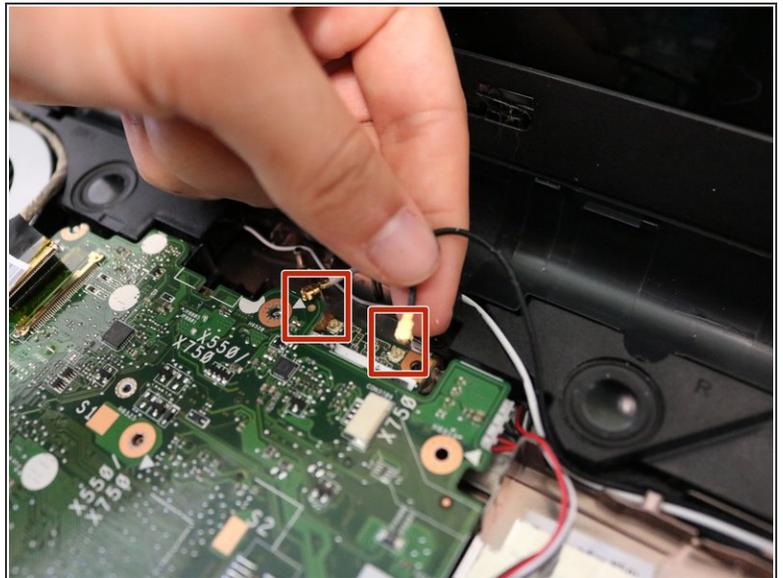
- Gently pull the thick wire in between the fan and the motherboard. To release the wire connected to the motherboard, gently pull towards the cooling fan.

Step 11



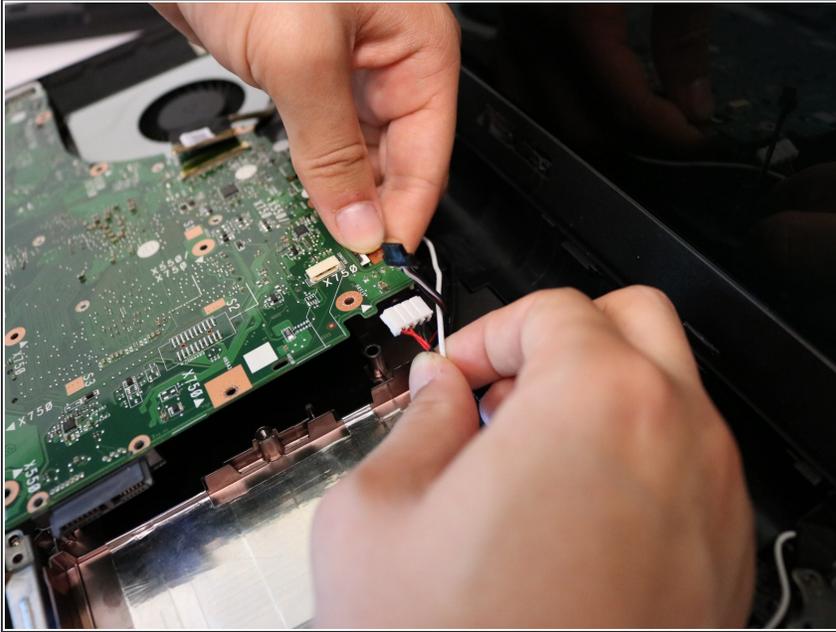
- Gently pull the red, black, and white wire found on the top right-hand corner of the motherboard.

Step 12



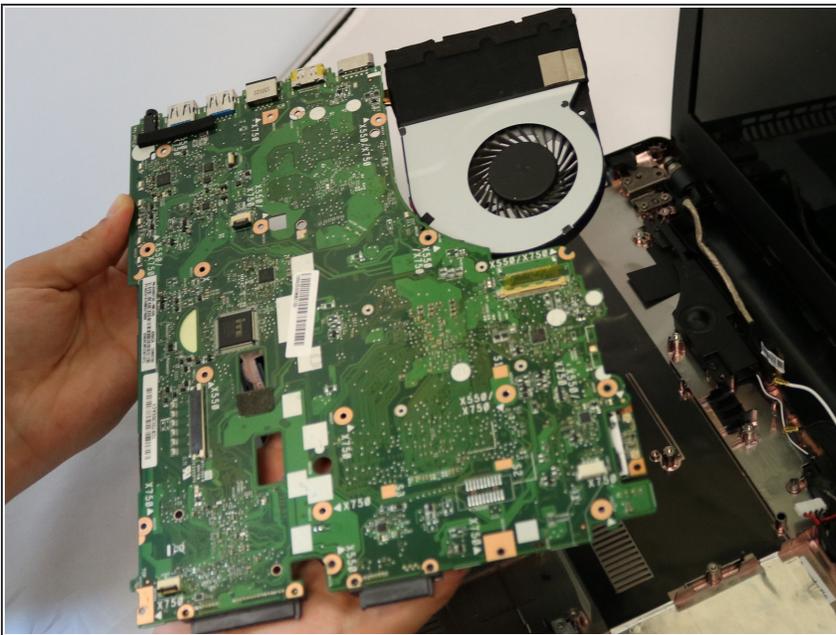
- Lift the black and white wires out of their ports at the top of the motherboard.

Step 13



- Lift the top right corner of the motherboard to access the final wire.
- Gently remove the wire from the port connecting it to the motherboard.

Step 14



- Remove the motherboard from the laptop.

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