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.
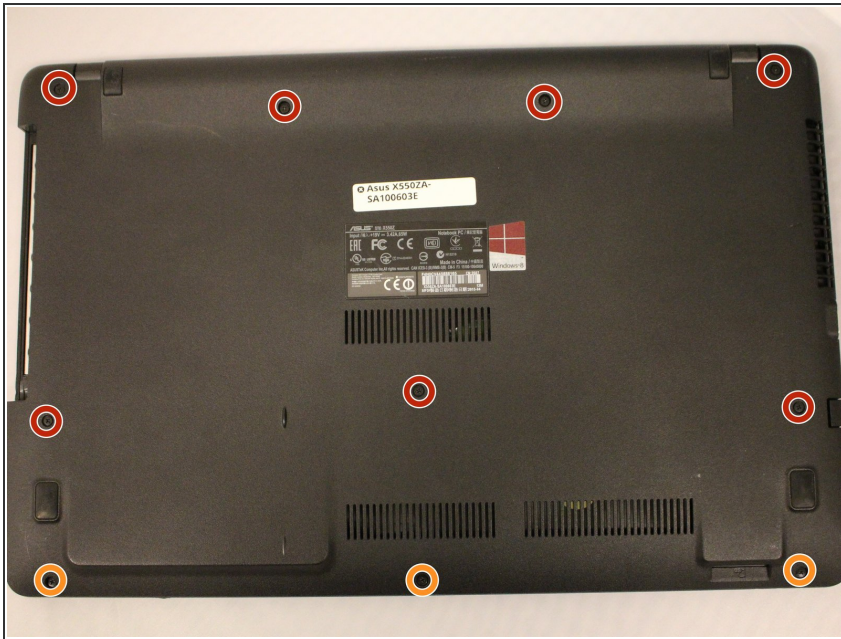
🔧 TOOLS:

- iFixit Opening Tools (1)
- Phillips #0 Screwdriver (1)

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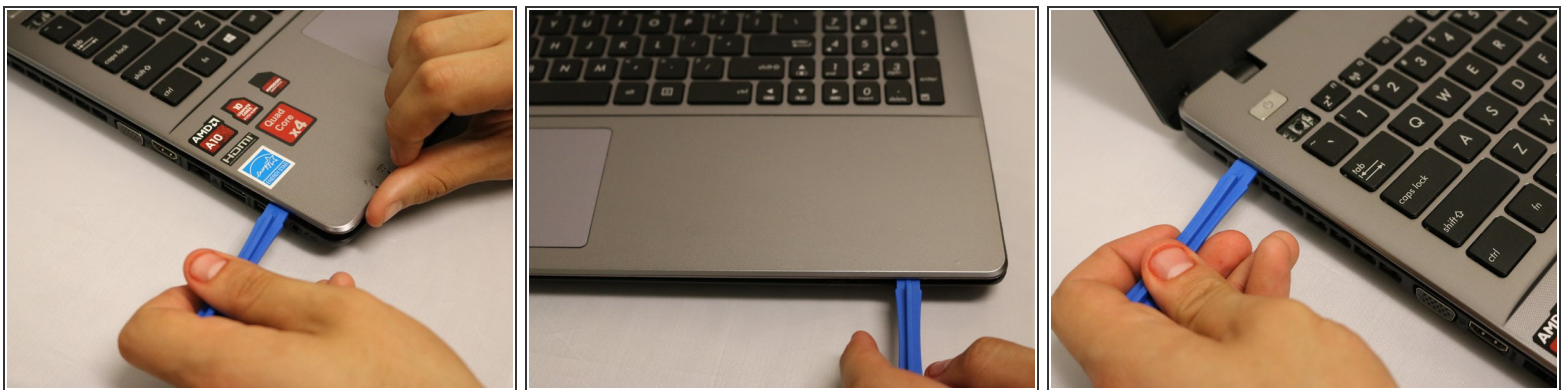
www.iFixit.com

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.
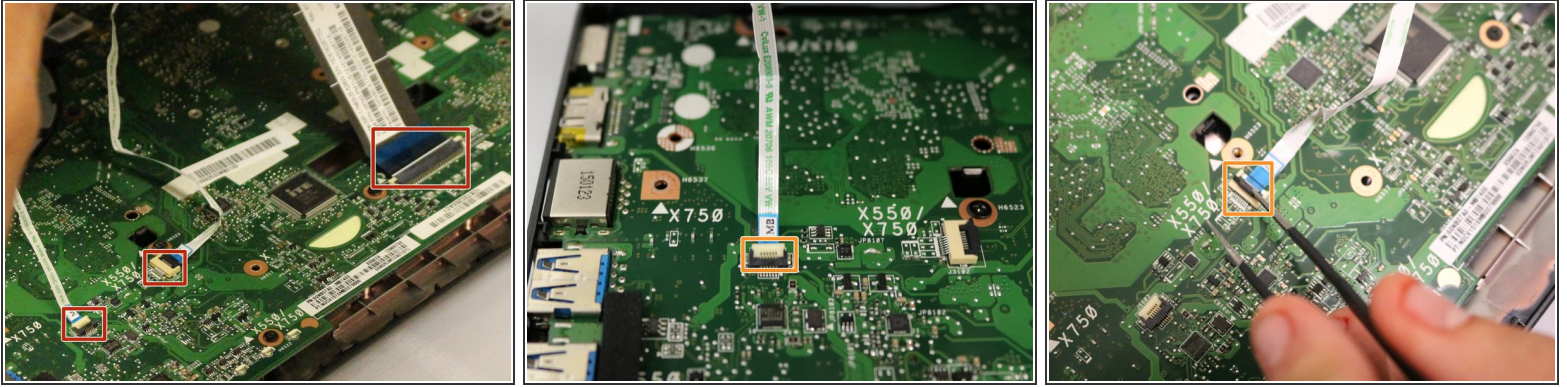
Step 2

- 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.
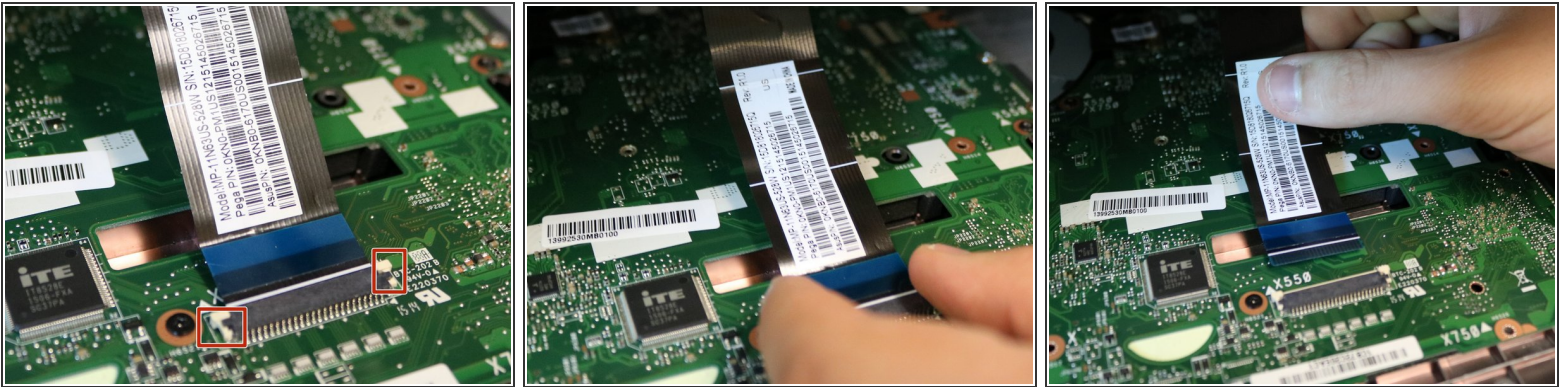
- ⚠ There are still ribbon cables connecting the keyboard face to the motherboard. Do not pull the keyboard away roughly.

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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.

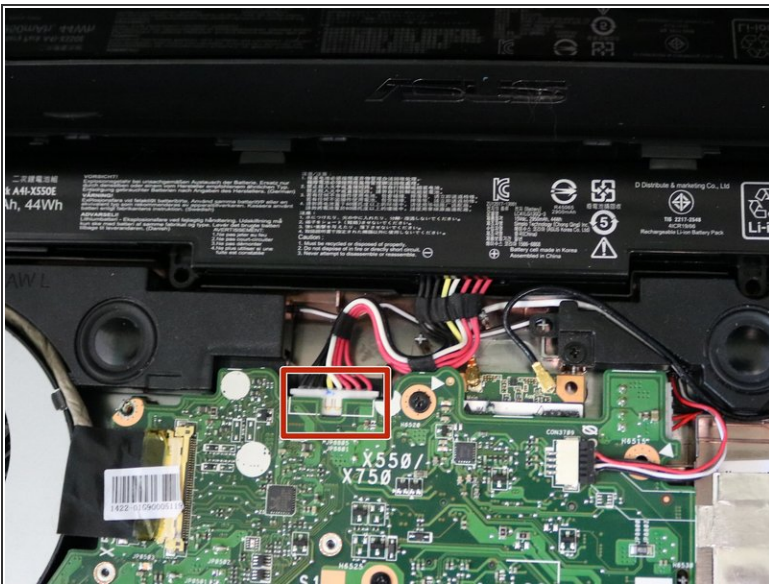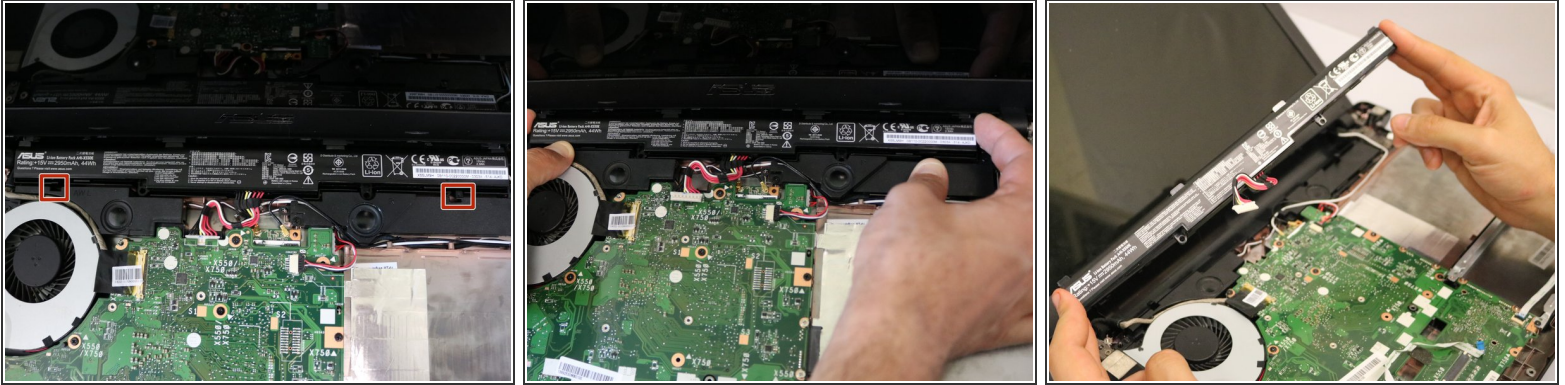- Gently remove the track pad ribbon cable from its connector.

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Step 5

● Remove the keyboard.

Step 6 — Battery

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

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Step 7

- Pull the two tabs holding the battery in place and lift the battery up. It should remove easily.
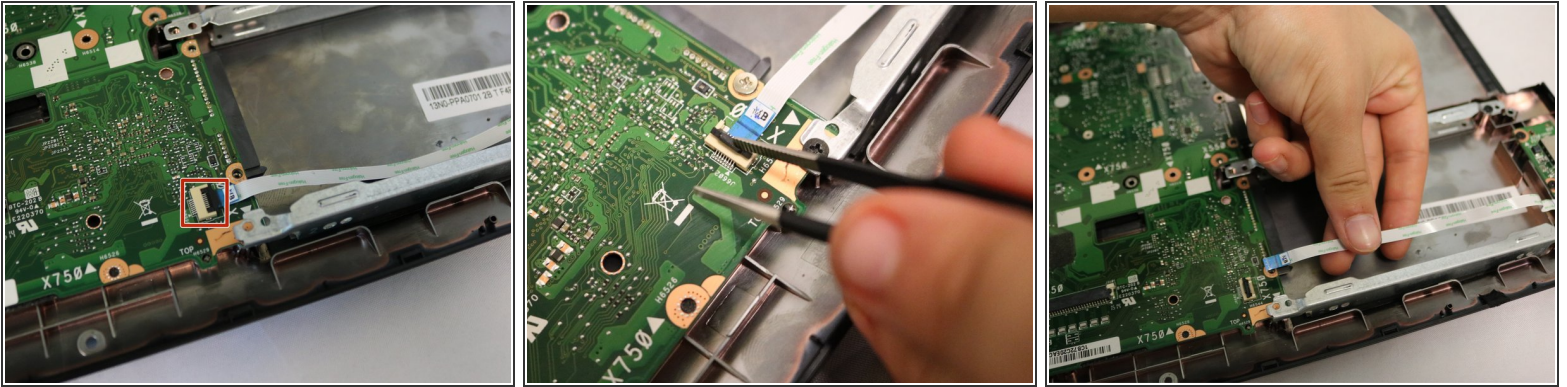
Step 8 — Motherboard

- Use a Phillips #0 screwdriver to remove the thirteen black 4 mm screws from the face of the motherboard.

- Use a Phillips #0 head screwdiver 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.

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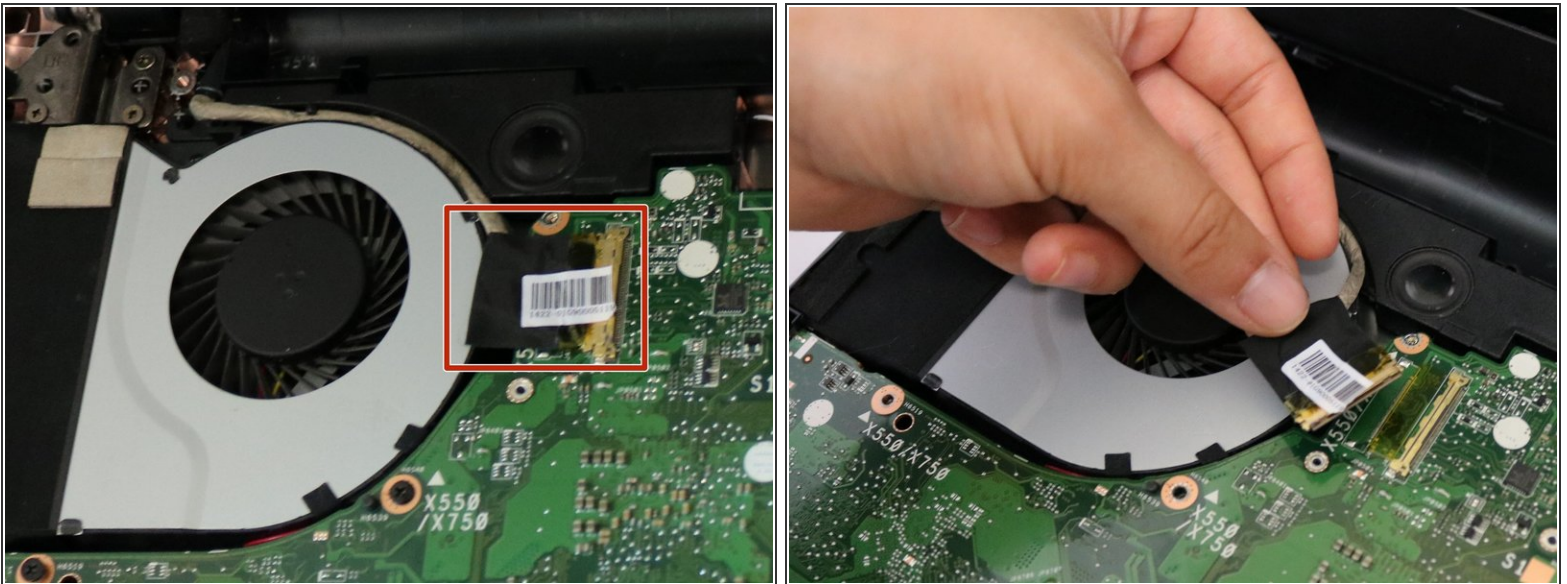
Step 9

- Use the precision tweezers to flip the black switch holding the film connected to the USB port.

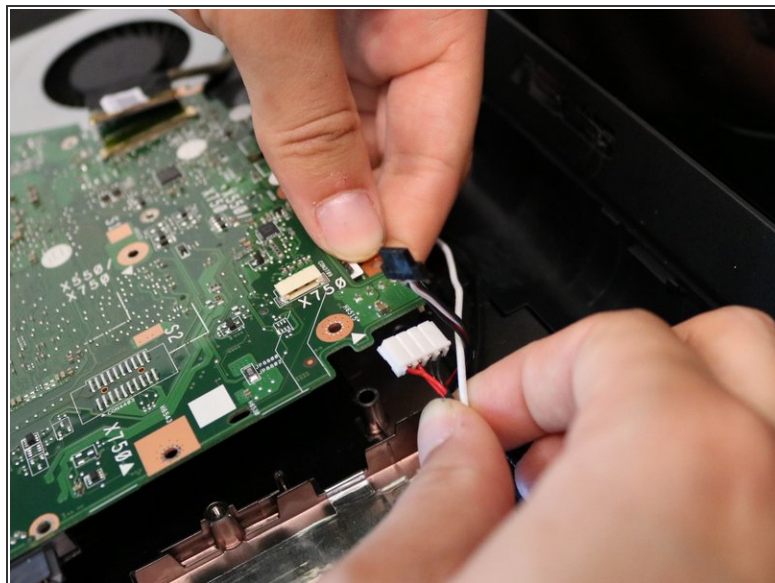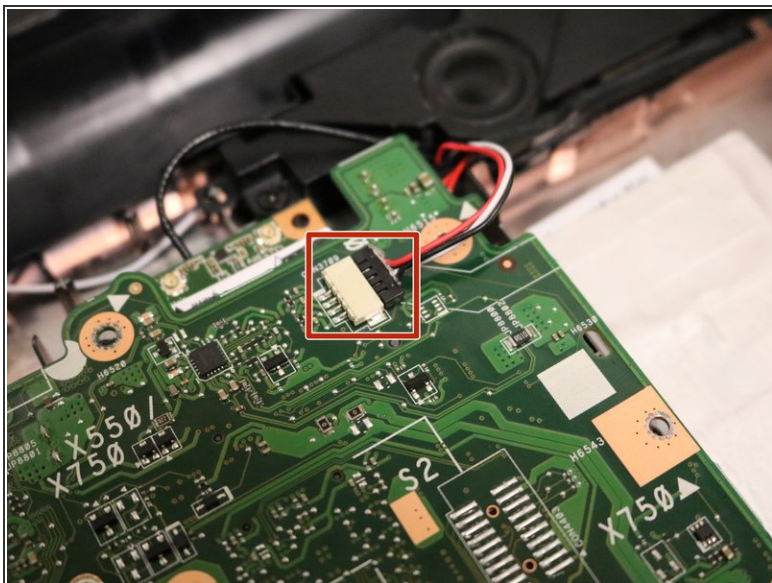- Gently remove the film from it's connection to the motherboard.

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.

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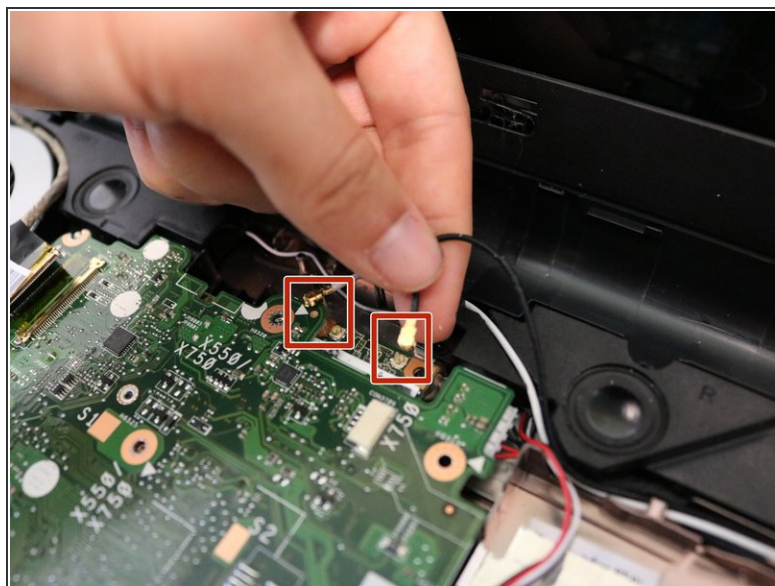
Step 11

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

Step 12

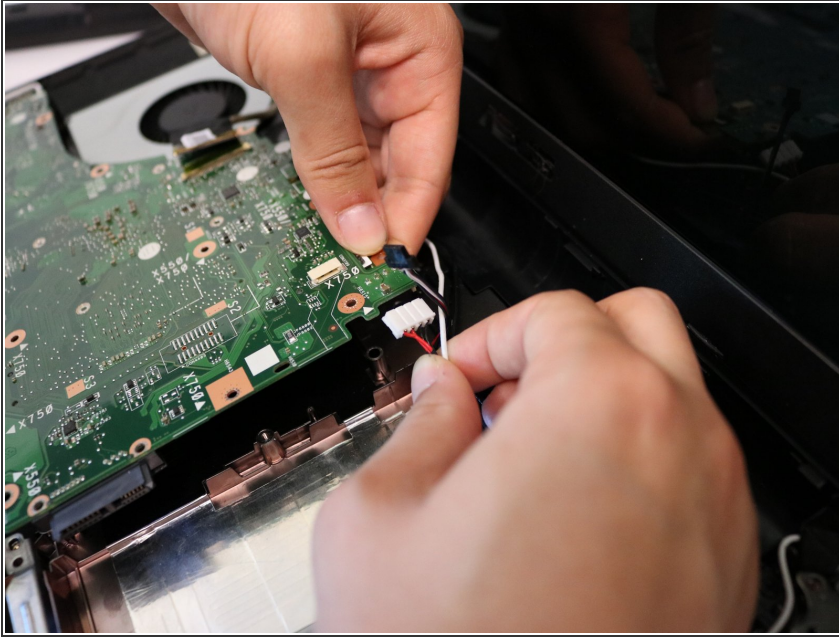- Lift the black and white wires out of their ports at the top of the motherboard.

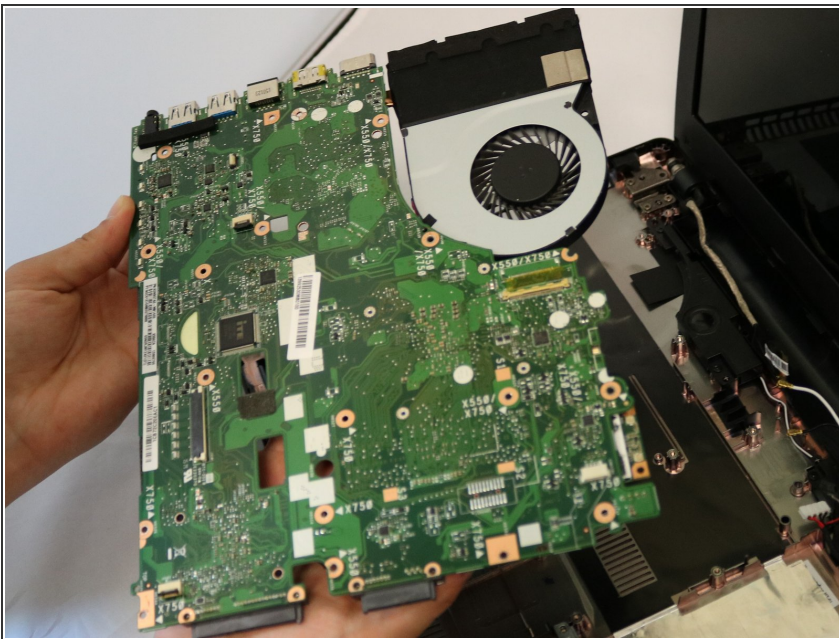This document was generated on 2020-02-12 01:11:36 PM (MST).

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.

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