



HP Chromebook 14-q029wm Motherboard Replacement

This guide will show how to replace the motherboard of an HP Chromebook 14-q029wm.

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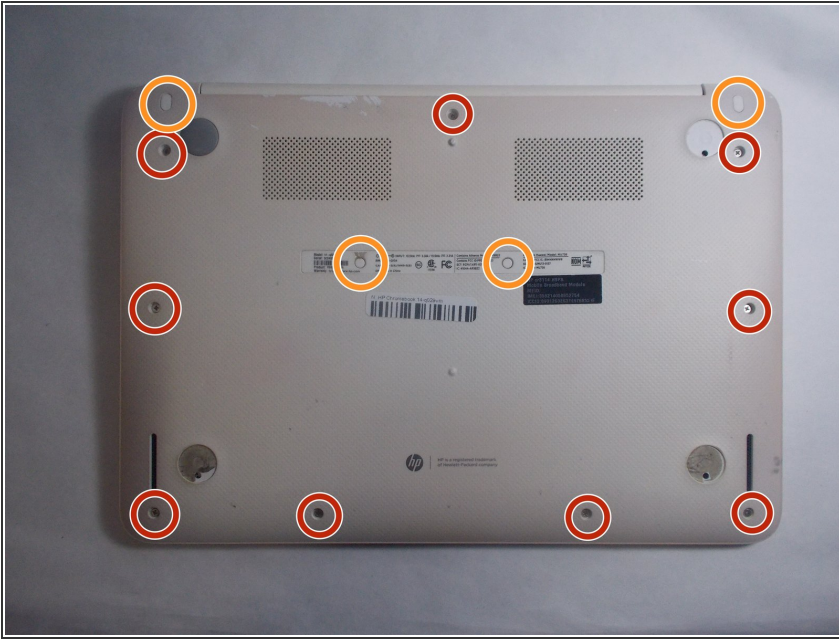
INTRODUCTION

If you are having trouble with your USB ports or motherboard in your HP Chromebook 14-q029wm trying connect it to your input and you have already tried to restart your computer, then following the steps provided might help you solve this issue. For more trouble shooting advice click [here](#). This guide will show you how to replace the USB port/motherboard and get your computer working as new.

TOOLS:

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



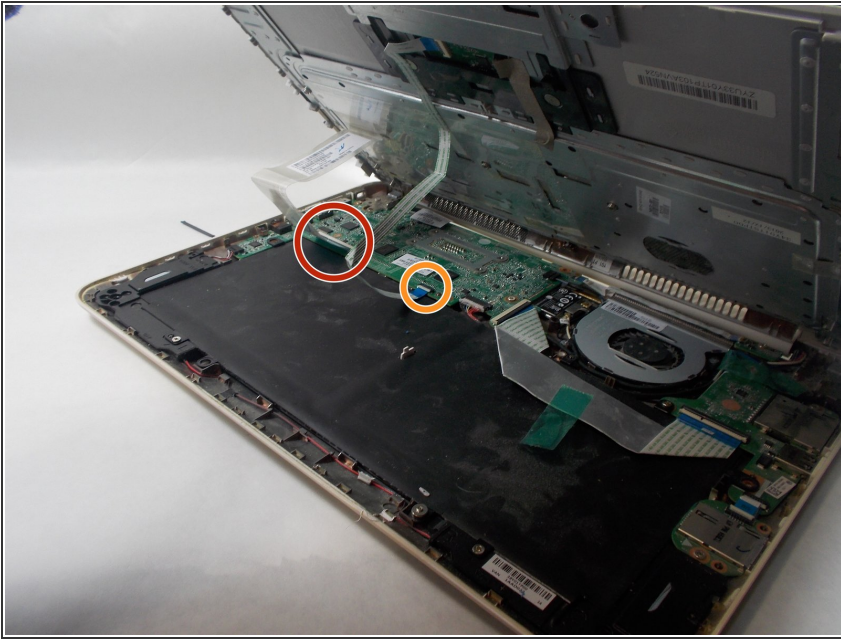
- Remove nine 5mm Phillips #0 screws from the back case.
- Remove the rubber caps using a spudger.
- Remove the four remaining 5mm Phillips #0 screws.

Step 2



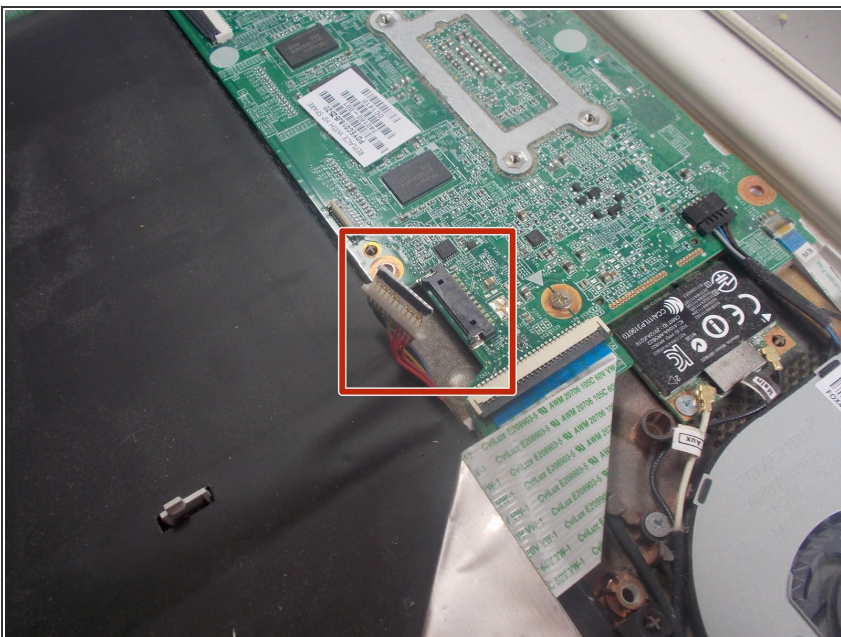
- Use an opening tool to unclip the bottom plastic covering of the laptop.
 - Go around the sides of the laptop until the bottom unclips completely and comes off of the laptop.
- ⚠ Be careful not to break the plastic clips.

Step 3



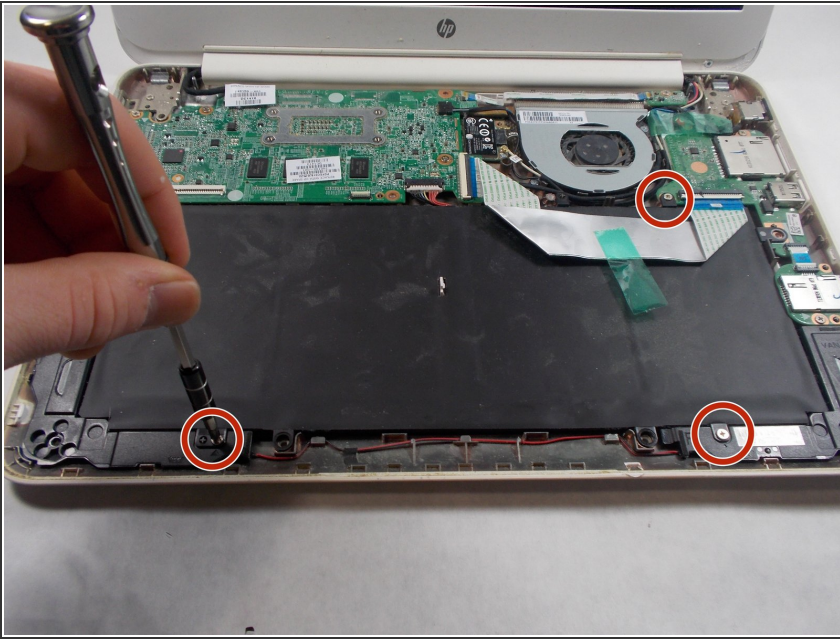
- Once the bottom is completely unclipped, remove the covering slowly so you do not pull and rip the wires.
- There is a little black lever that you have to pull in order to remove the wires. They are found on top of where the wires are connected.
- Remove the larger wire first.
- Then remove the smaller wire.
- ⓘ It is better to use a pair of tweezers for accuracy
- From there the keyboard should completely come off.

Step 4 — Battery



- Use your fingers to pull the white tab out of the black slot above the battery.

Step 5



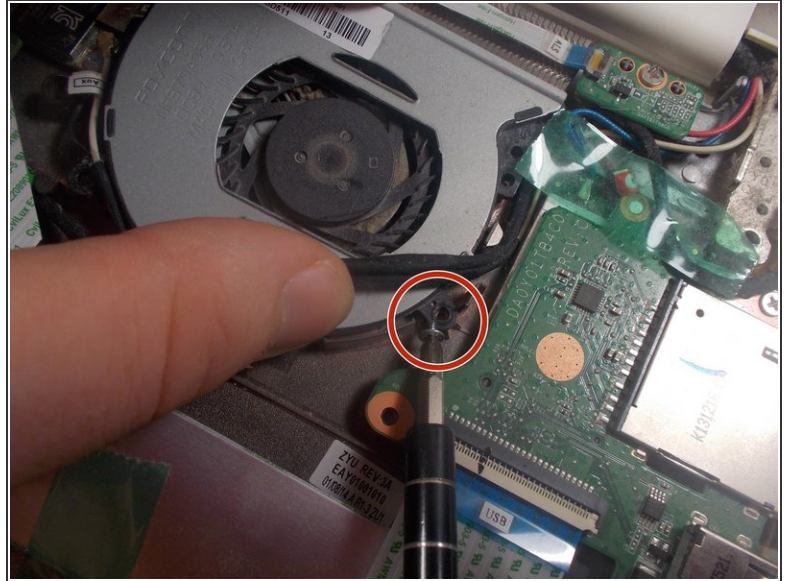
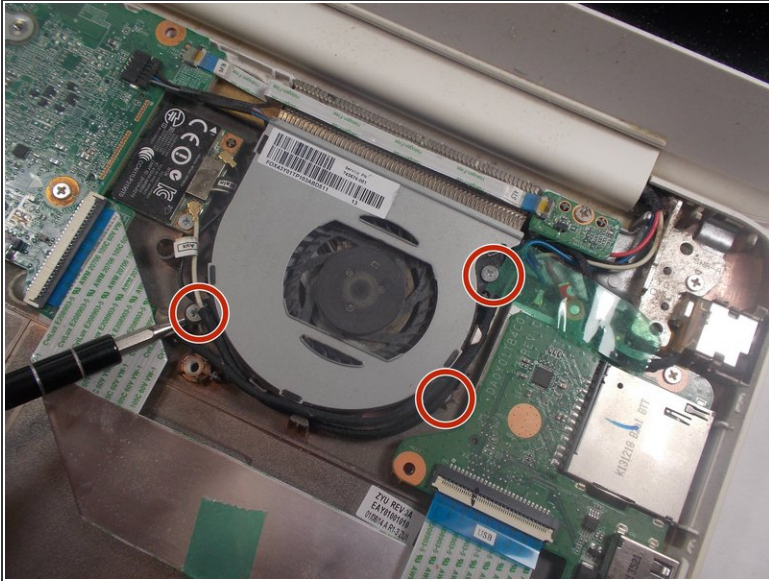
- Remove the 3mm Phillips #0 screws.

Step 6



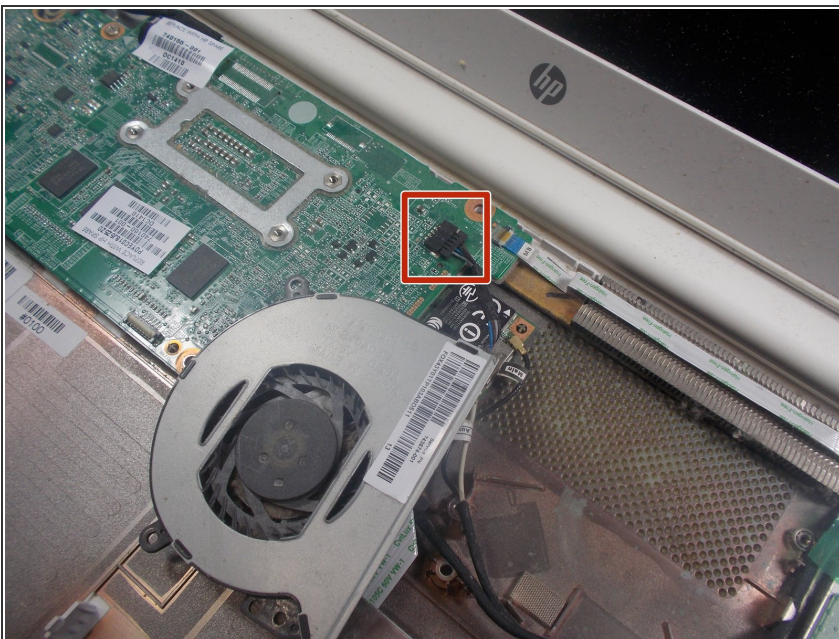
- Pick up and gently remove the battery.

Step 7 — Fan



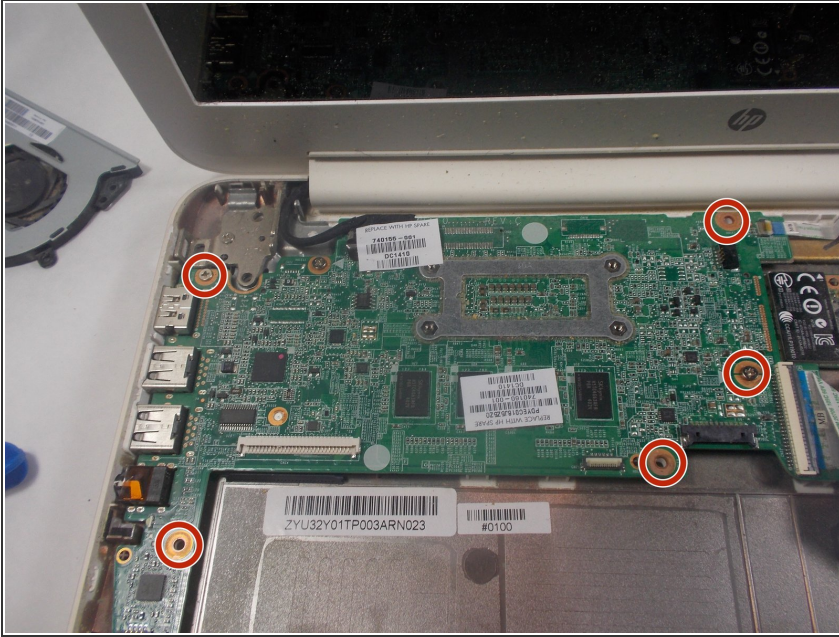
- Remove the three 3mm Phillips #0 screws.
- i* The bottom right screw may be covered by the fan's wires.

Step 8



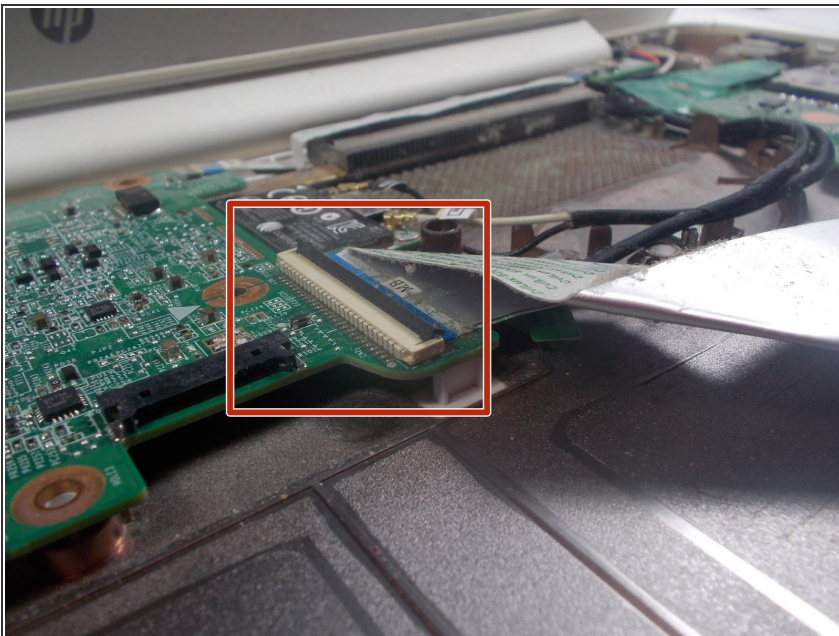
- Using your fingers or an opening tool, remove the cable connecting the fan to the motherboard.
- Gently remove the fan.

Step 9 — Motherboard



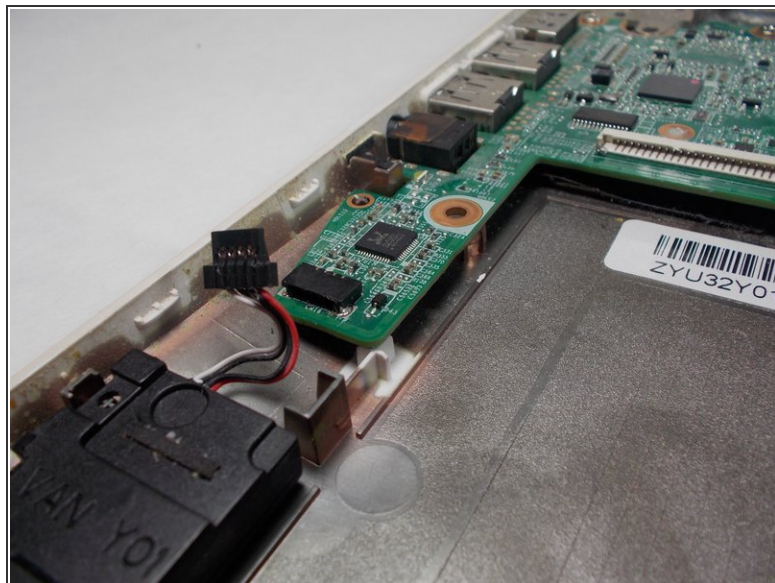
- Remove the five 2mm Phillips #0 screws from the motherboard.

Step 10



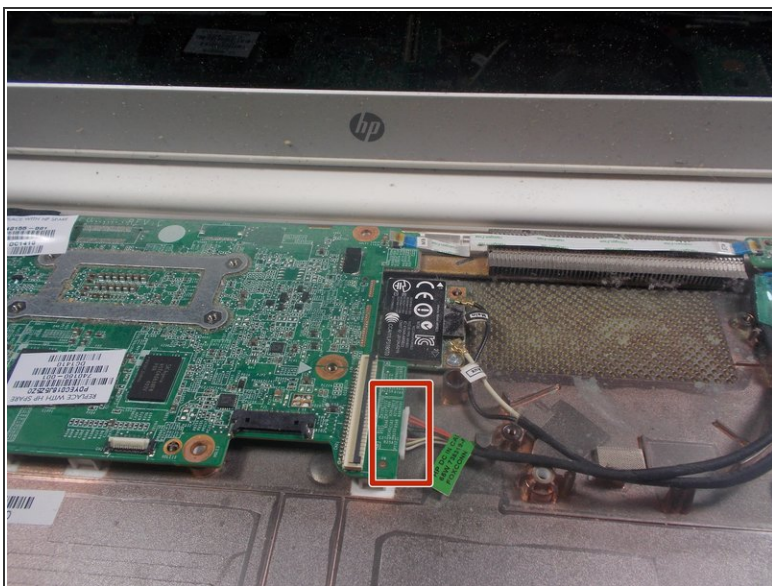
- Unclip the black lever holding the connector in place to the motherboard and remove the connector.

Step 11



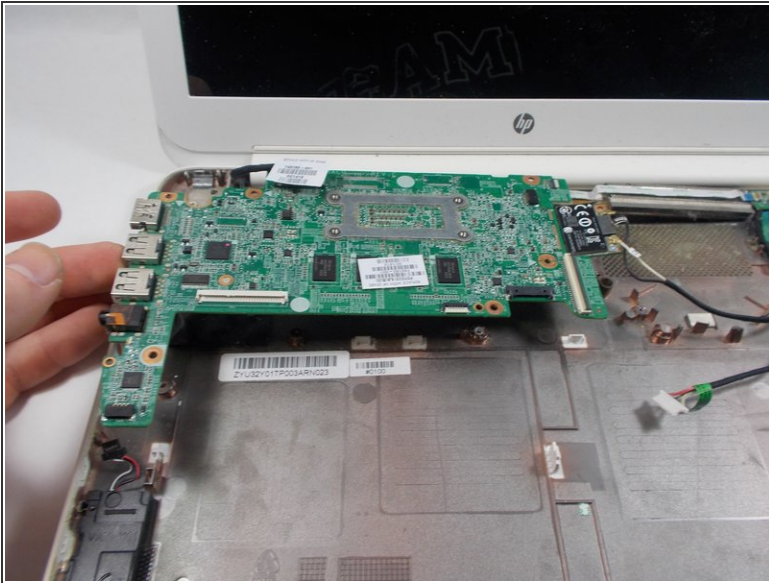
- Unplug the wire connecting the speaker to the motherboard.

Step 12



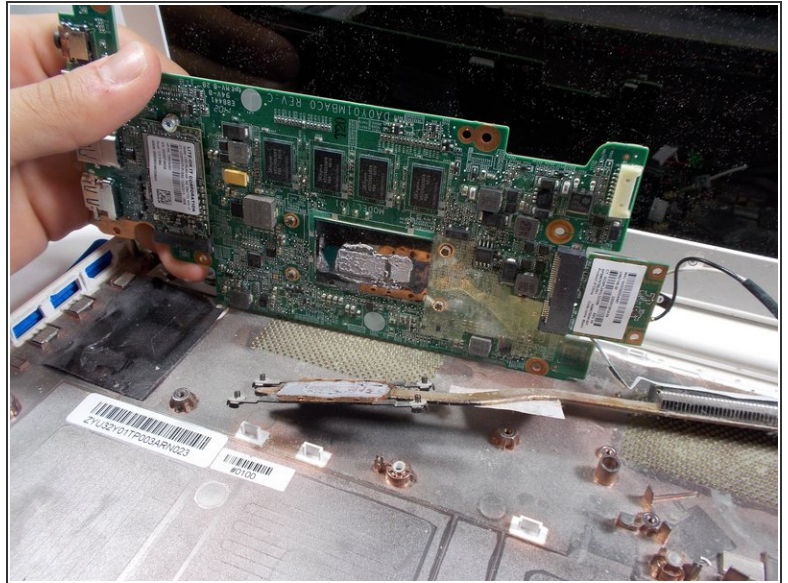
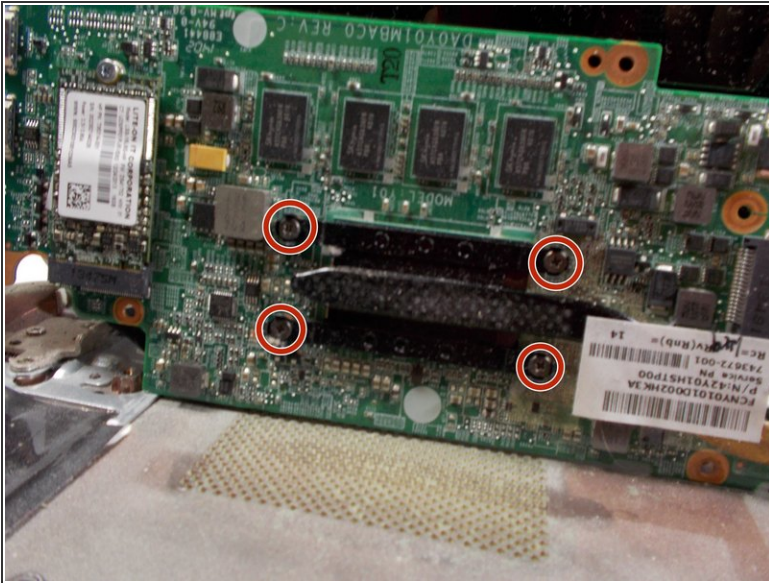
- Remove this connector found under the right side of the motherboard.

Step 13



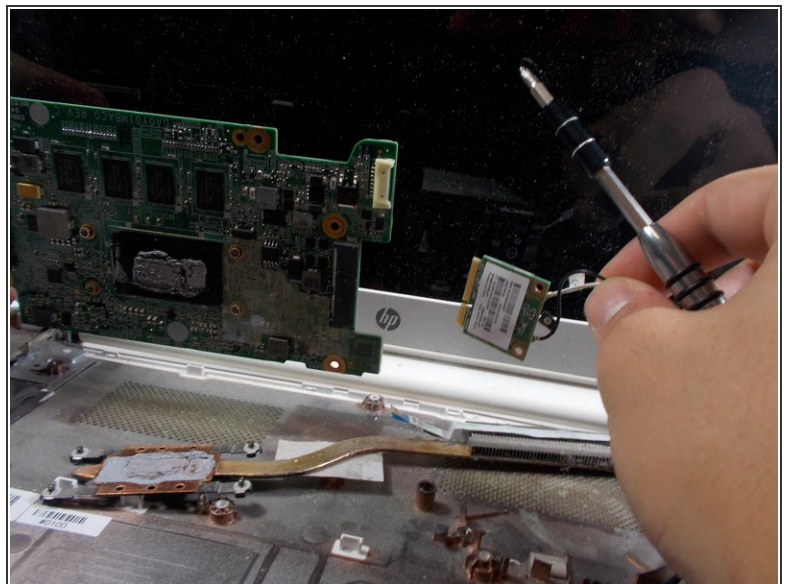
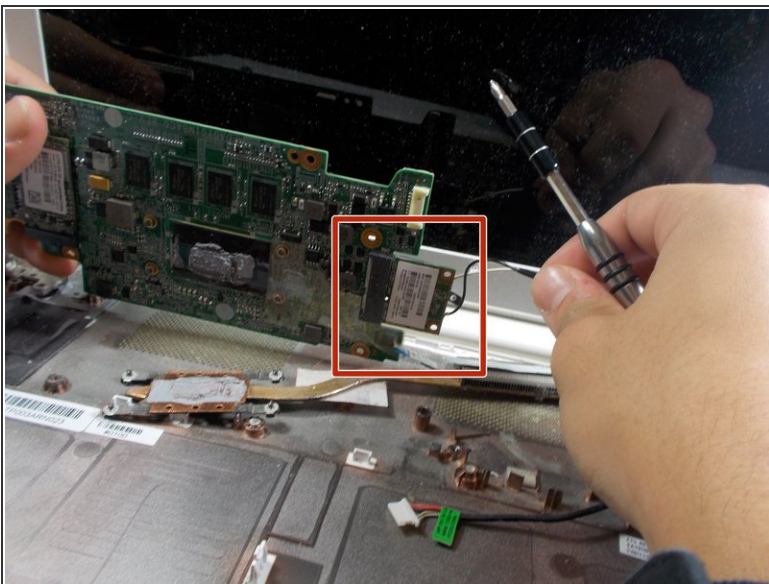
- Lift the right side of the motherboard slightly and slide the USB and other ports out from the left side.
- The motherboard should be able to turn on its side after that.

Step 14



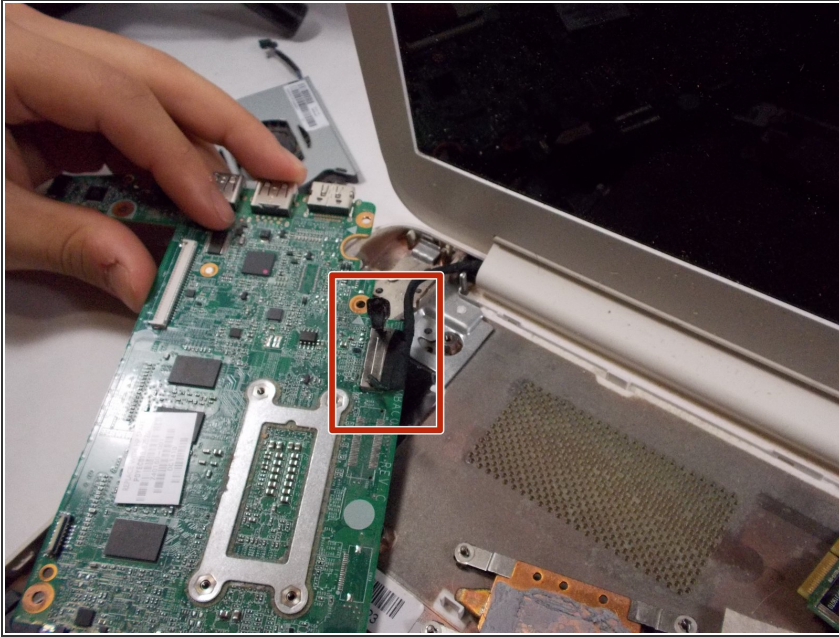
- Remove the four 2mm Phillips #0 screws from the heat sink.
- Remove the heat sink from the motherboard.

Step 15



- Looking at the right side of the motherboard, remove the Wi-Fi card that is connected to the motherboard.

Step 16



- Remove the black wire from the screen.
- Remove the motherboard from the laptop.

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