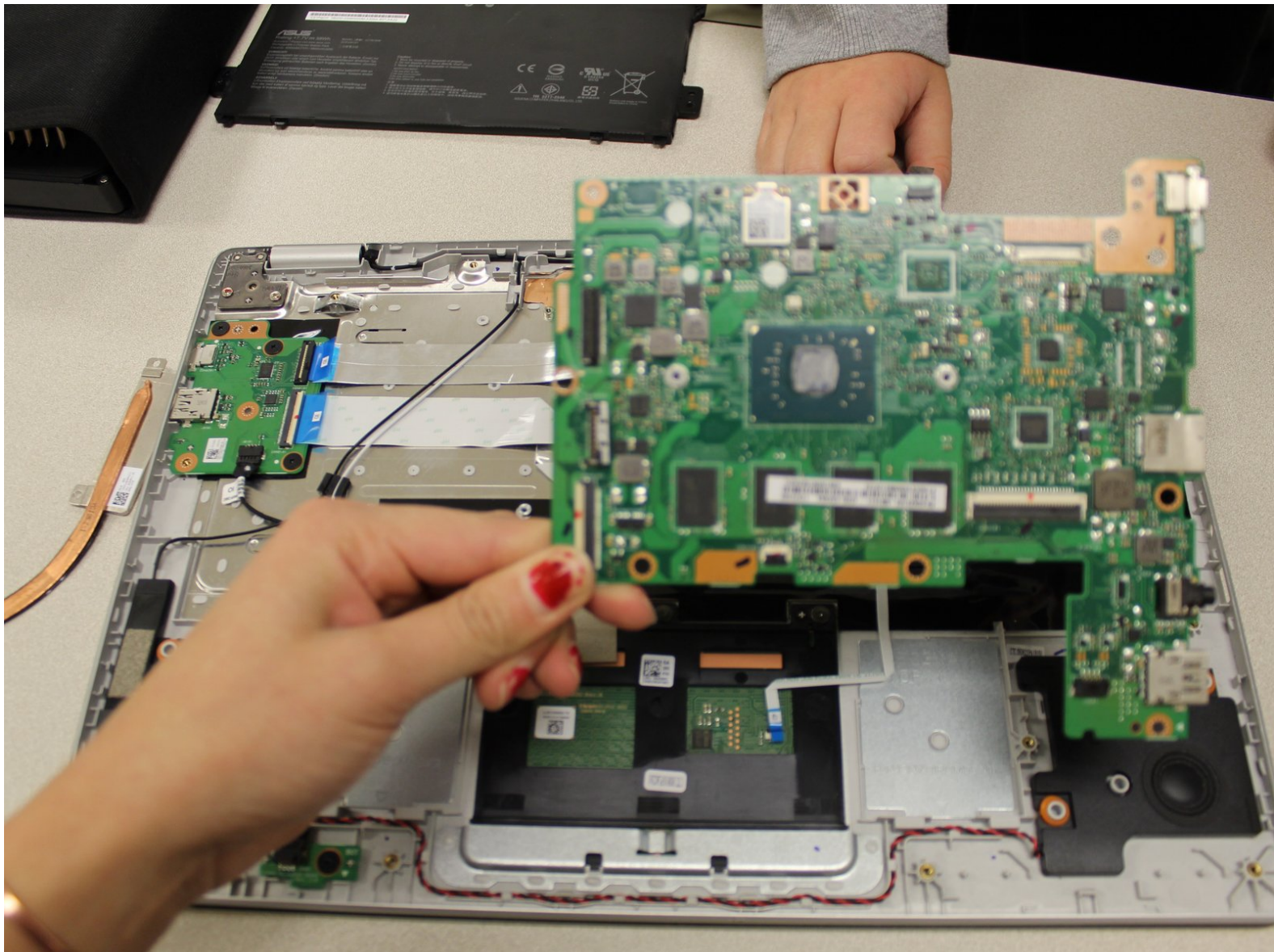




# Asus Chromebook C523N Motherboard Replacement

How to replace an Asus Chromebook C523N motherboard.

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## INTRODUCTION

The motherboard is extremely important to the overall function of your Asus Chromebook C523N. It is a printed circuit board that allows for the overall communication between many of the components, including the CPU, RAM, and many other hardwares.

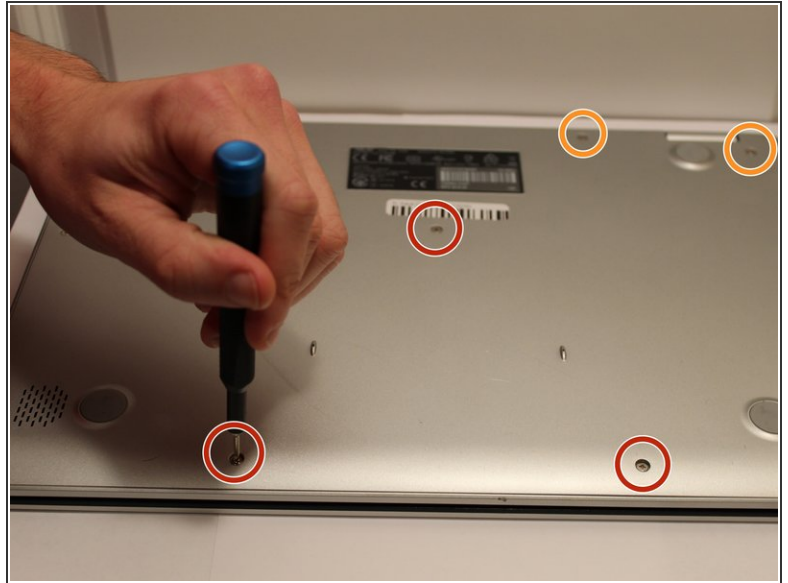
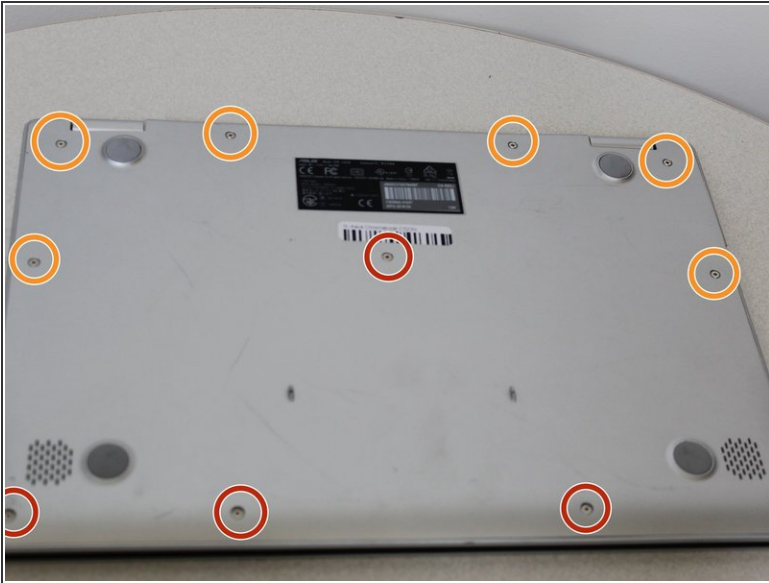
Usually, the only other solution to an unresponsive motherboard is to buy an entirely new laptop. Without the hub of your laptop, most functions are nearly impossible.



### TOOLS:

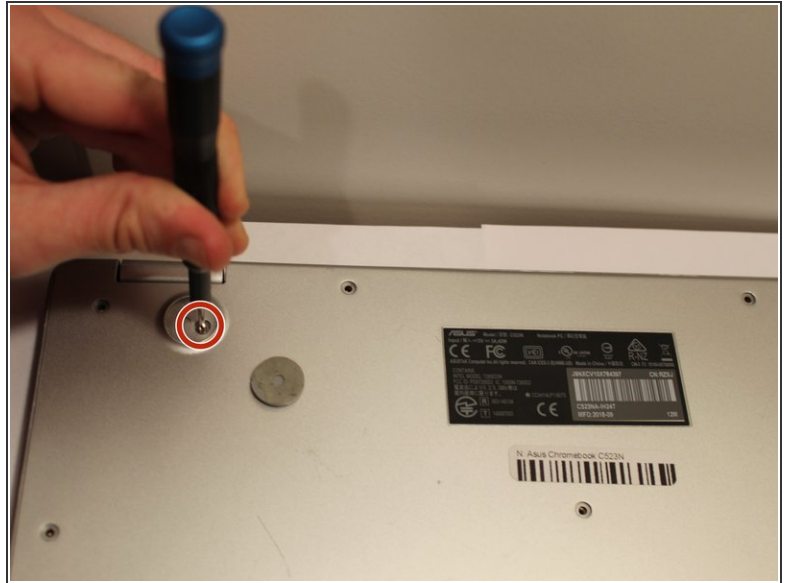
- [Spudger](#) (1)
  - [iFixit Opening Tools](#) (1)
  - [J00 JIS Screwdriver](#) (1)
  - [Nylon Tipped Tweezers](#) (1)
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## Step 1 — Back Cover



- Remove the four 0.5mm JIS #00 screws from the bottom edge of the Chromebook and one in the center.
- Remove the six 1.7mm JIS #00 screws from the sides and top edge of the Chromebook.

## Step 2



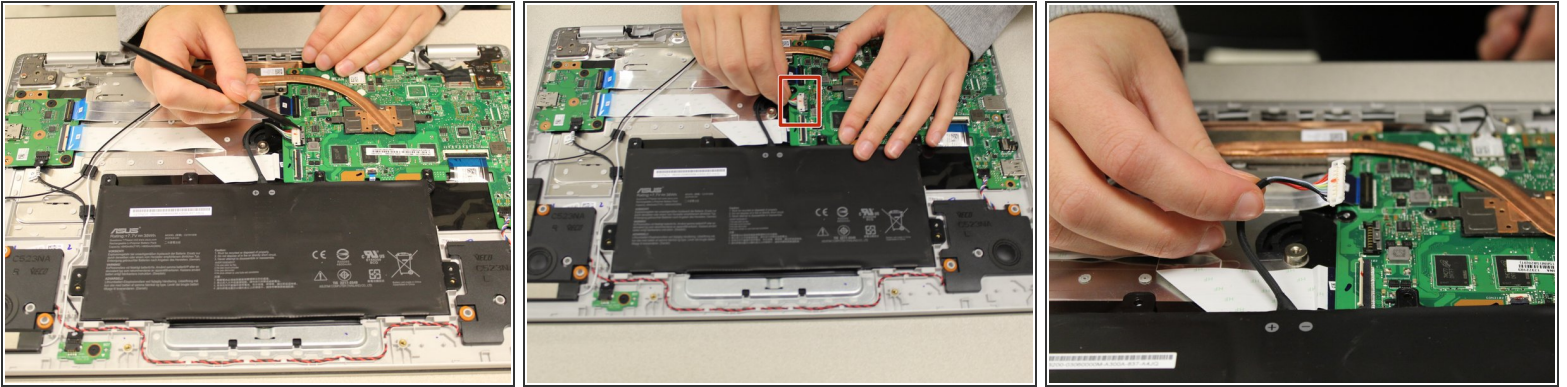
- Using a spudger, lift the top left base pad and remove it to reveal a final screw underneath.
- Remove the one 0.5mm JIS #00 screw underneath the base pad.

## Step 3



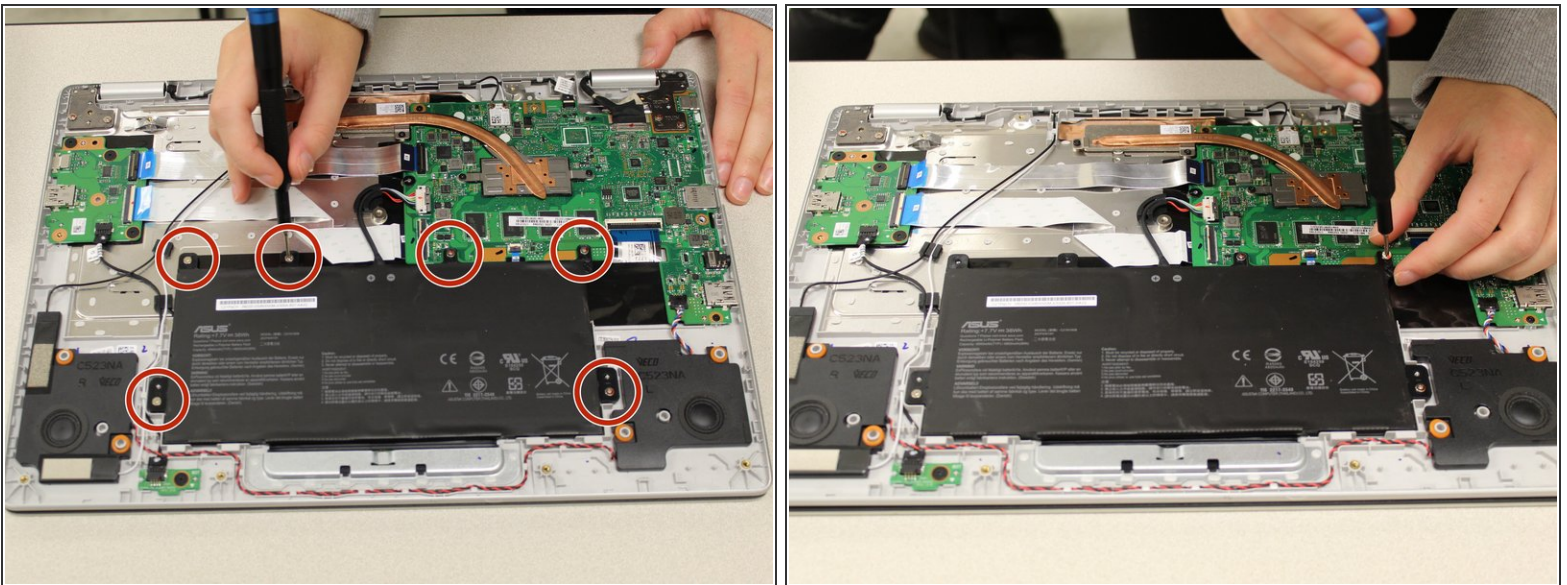
- Use an opening tool to gently pry the base enclosure up and remove from the laptop.

## Step 4 — Battery



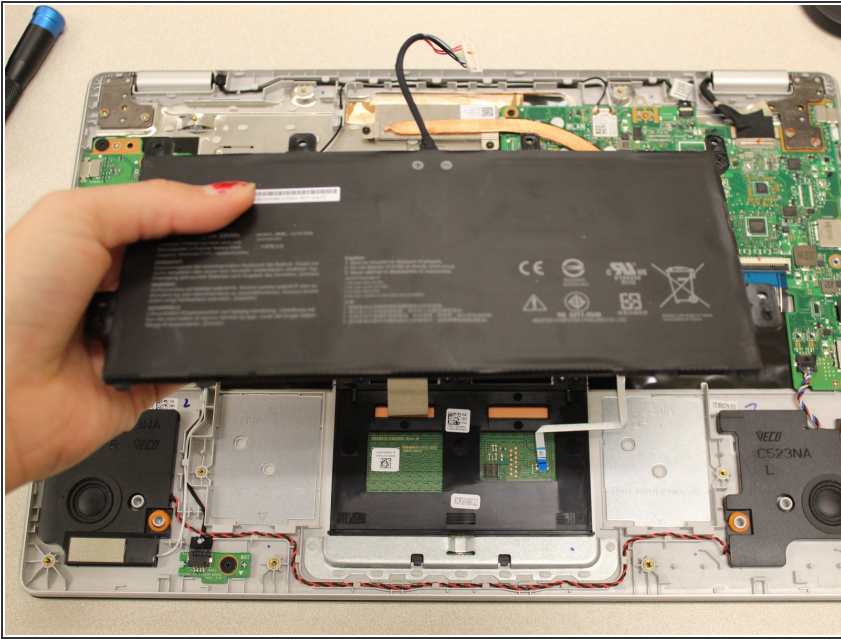
- Using a spudger, gently push back the small metal piece where the cord connects to the motherboard.
- Gently disconnect the battery cable from the motherboard.

## Step 5



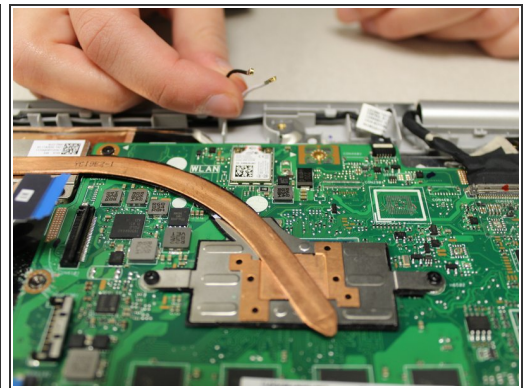
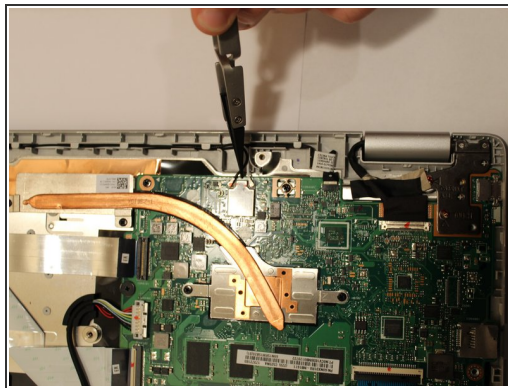
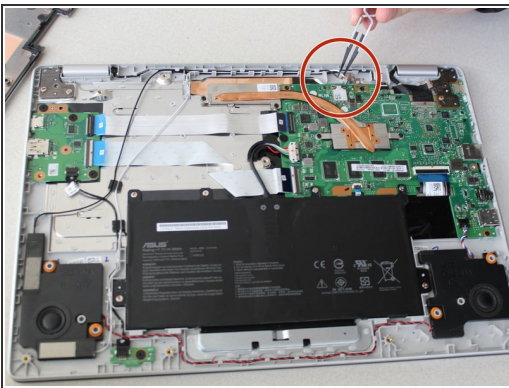
- Remove six 1.4mm JIS #00 screws from the battery.

## Step 6



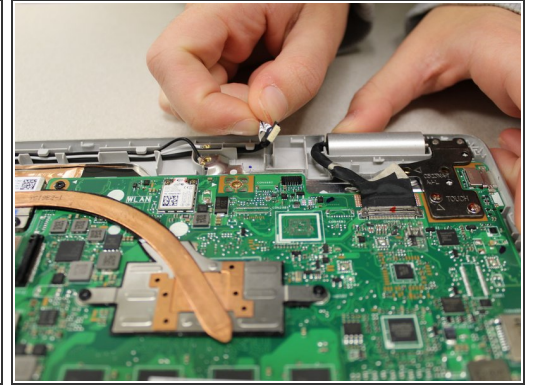
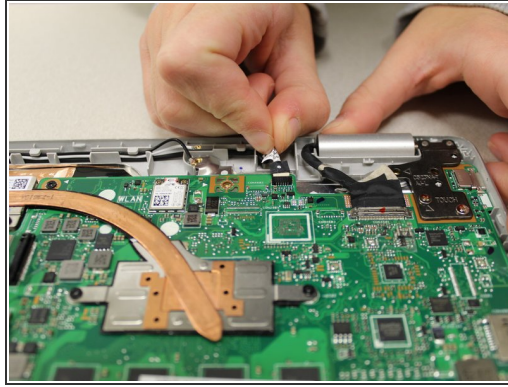
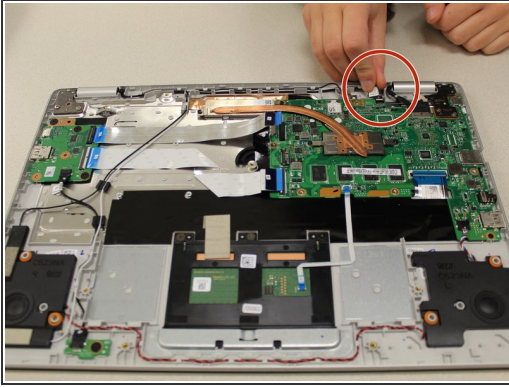
- Remove the battery from the laptop.

## Step 7 — Motherboard



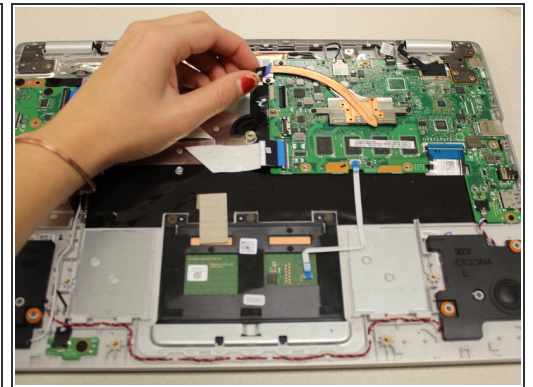
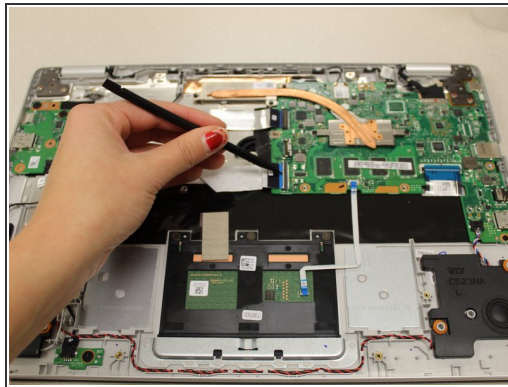
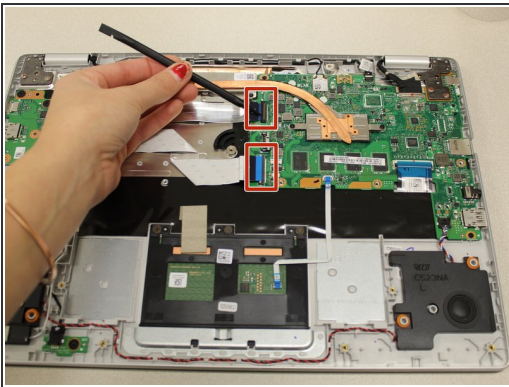
- Using tweezers, gently pry the black and white wires from the wireless card and lift.

## Step 8



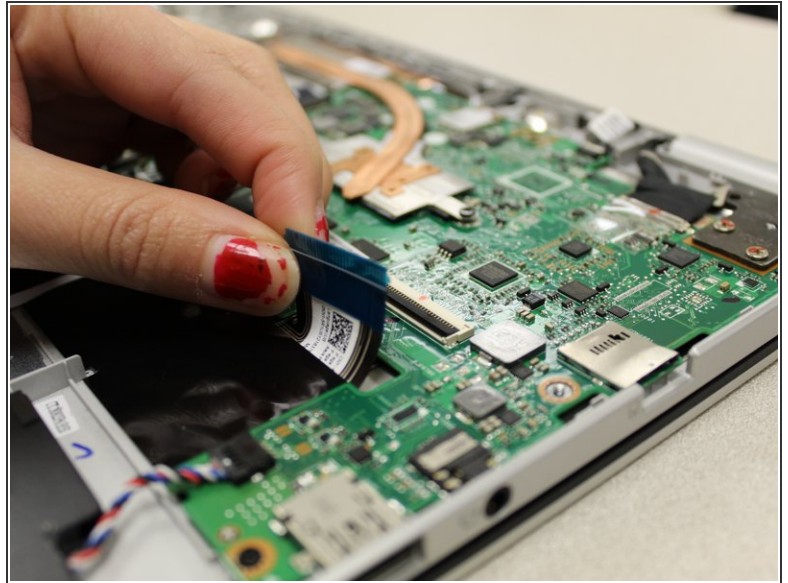
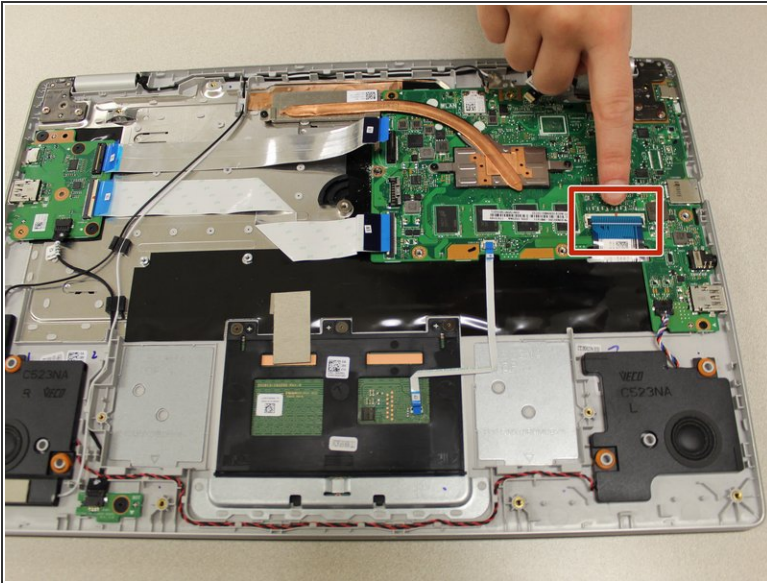
- Gently pull the trackpad cable from the connector, located next to the wireless card.

## Step 9



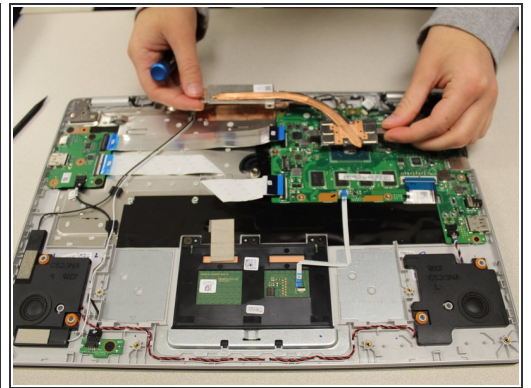
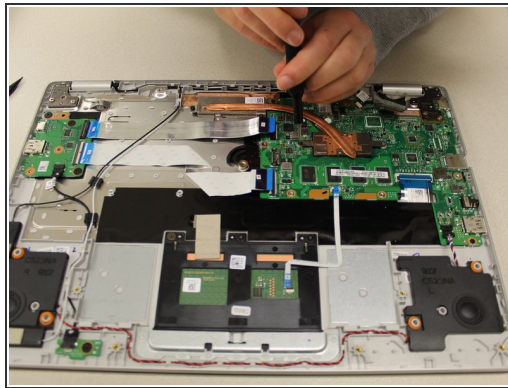
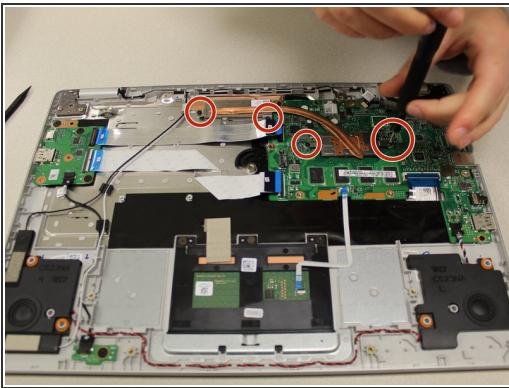
- Using a spudger, disconnect the two side-by-side ribbon cables from their connectors, pushing in the direction of the ribbons (toward the left side of the Chromebook).

## Step 10



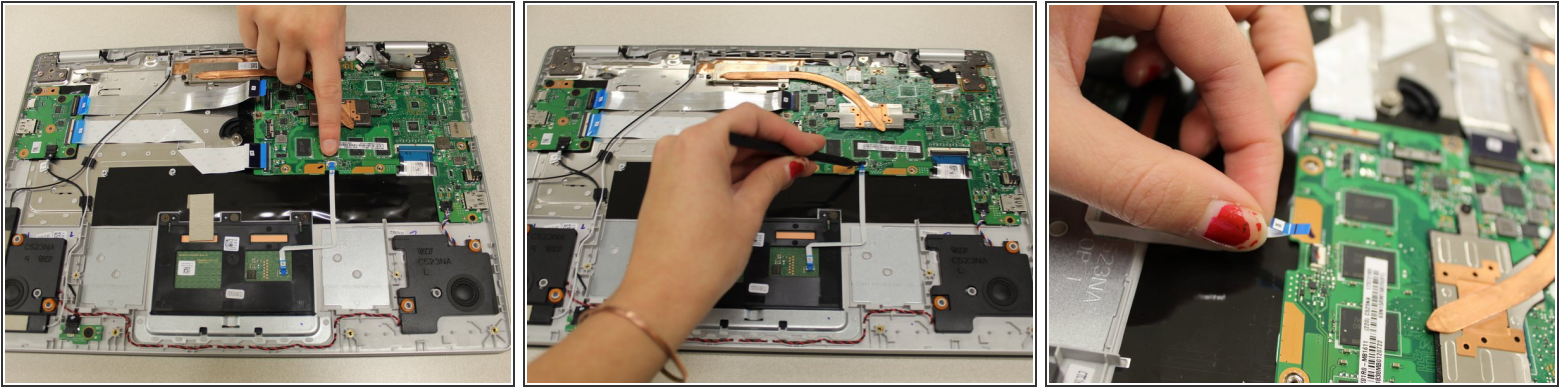
- Disconnect the thick blue ribbon cable from the connector by pulling it away from the motherboard.

## Step 11



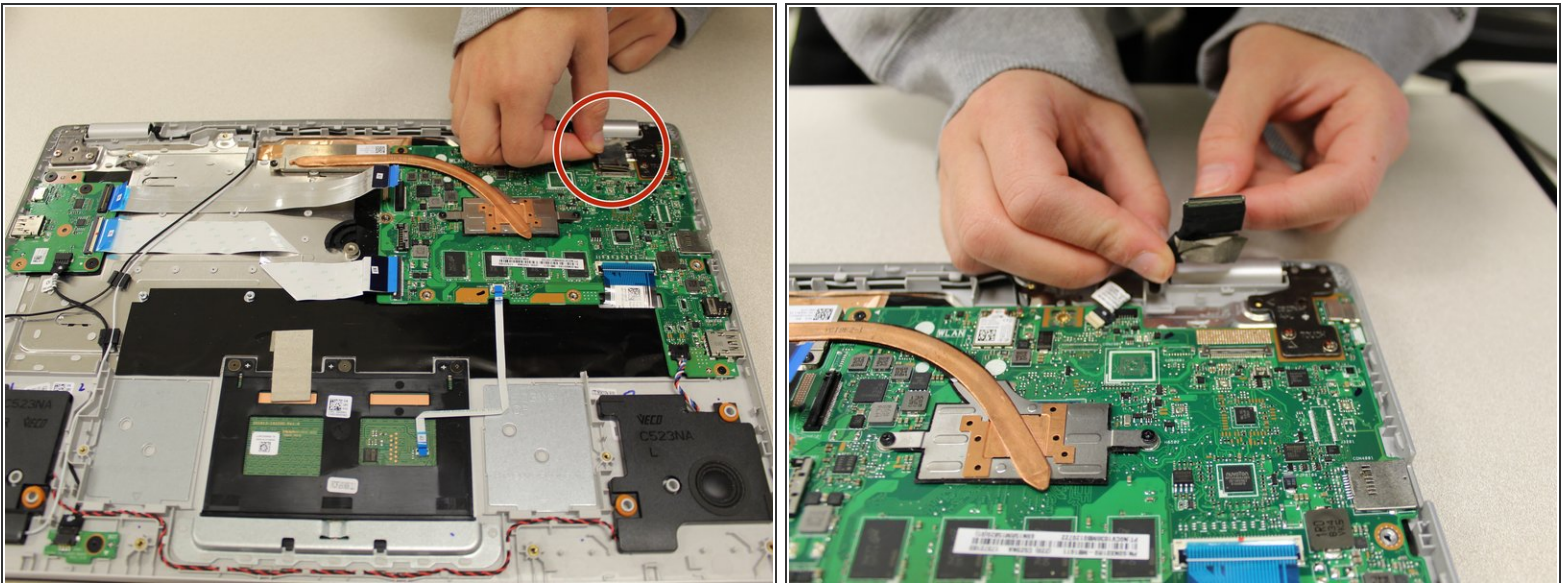
- Remove the 0.4mm JIS #0 screws from the heat sink in the center of the motherboard.
- Lift and remove the heat sink.

## Step 12



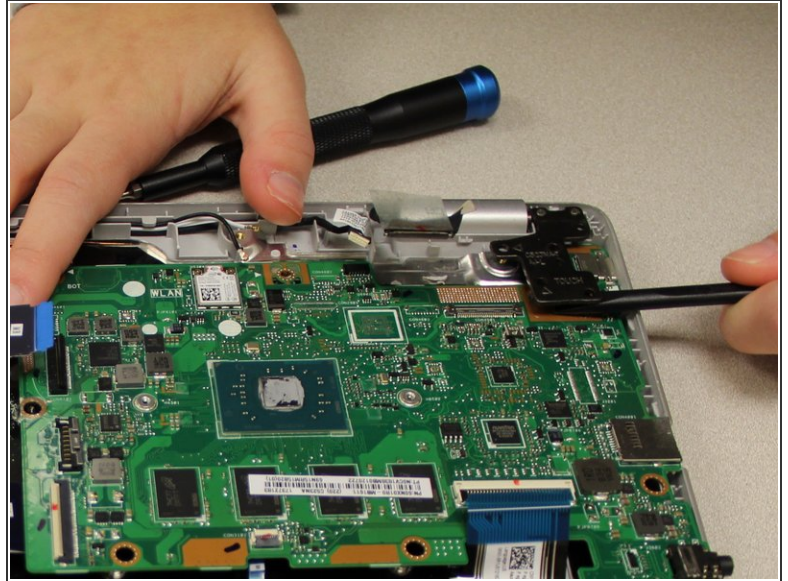
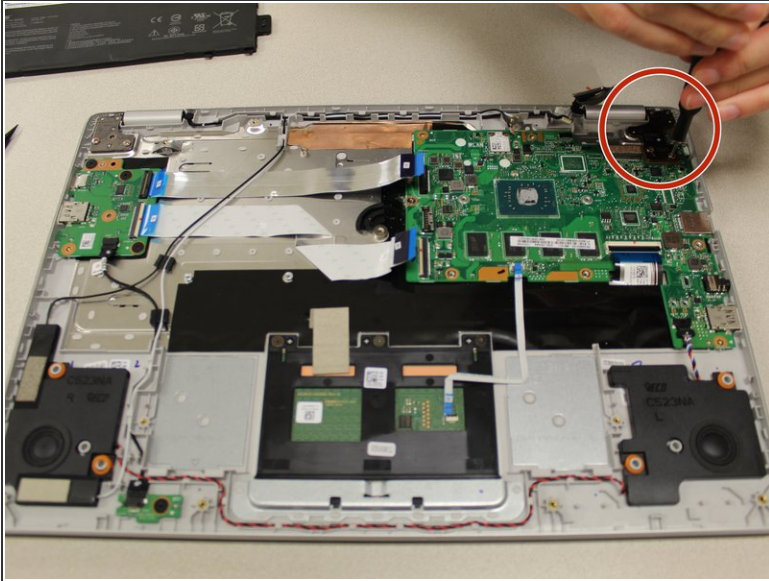
- Gripping the thin white ribbon cable, gently pull it away from the motherboard to disconnect.

## Step 13



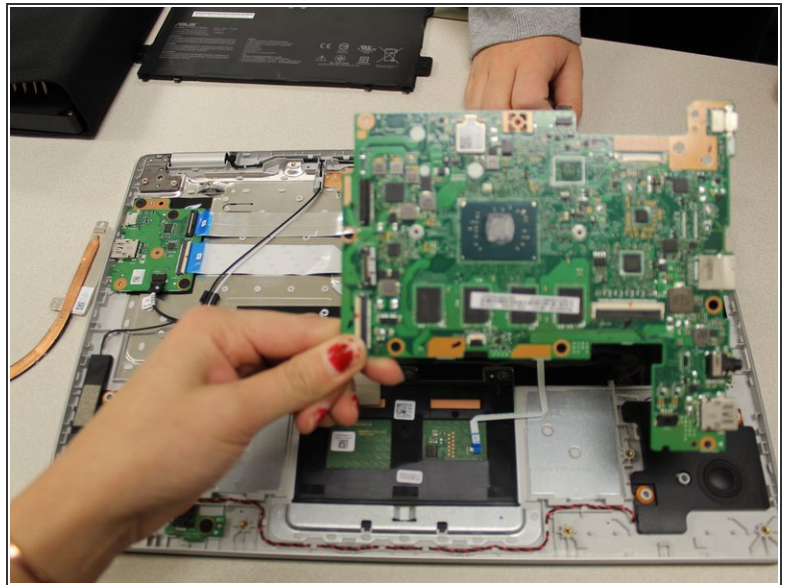
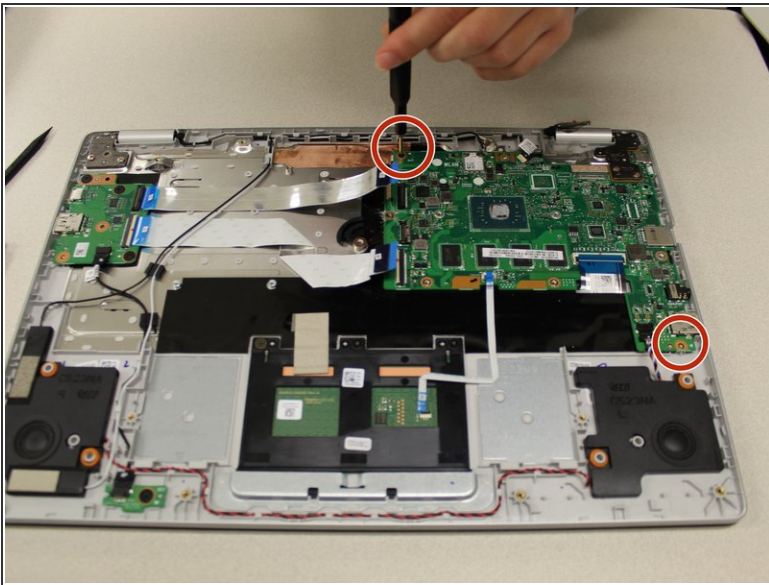
- Disconnect the thick black connector by gently pulling it up, away from the motherboard.

## Step 14



- Remove the two 0.4mm JIS #00 screws at the bottom of the hinge (closest to the motherboard).
- Using an opening tool, pry the hinge upward.

## Step 15



- Remove the two 0.4 mm JIS #00 screws from the motherboard.
- Gently lift and remove the motherboard.

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