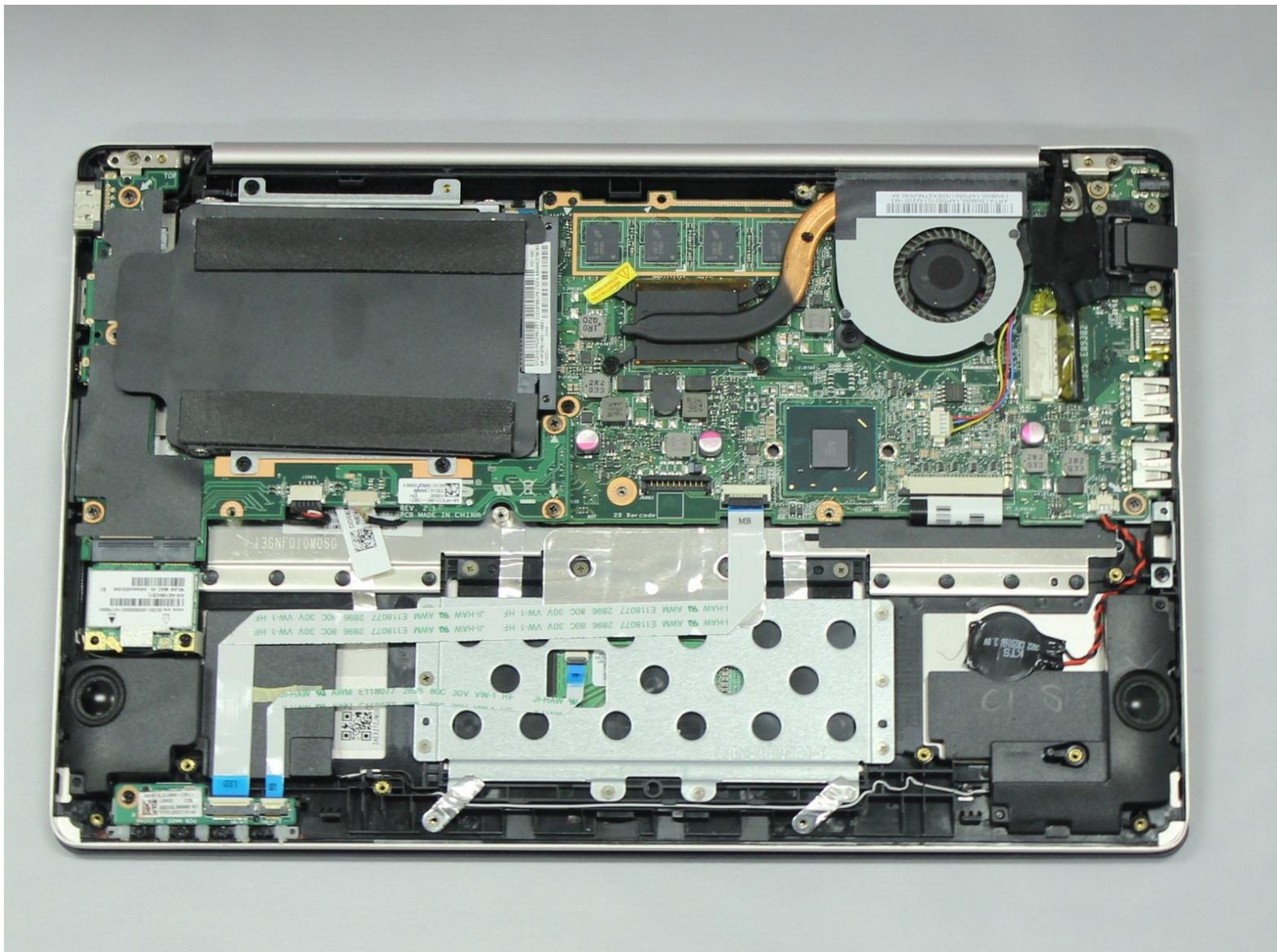




# Asus VivoBook X202E-DB21T Motherboard Replacement

The motherboard is the brain of the computer....

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## INTRODUCTION

The motherboard is the brain of the computer. It controls everything from image generation to file access and everything in-between. This component can get damaged due to liquid exposure, drops from tall heights, and insect infestations. Take care to make sure the motherboard is disconnected from power before starting.

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### TOOLS:

- [Phillips #1 Screwdriver](#) (1)
  - [Spudger](#) (1)
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## Step 1 — Battery



- Flip the device such that the labels are on top.
- Use a Phillips #1 screwdriver to remove the four 8mm screws near the back.
- Use the same screwdriver to remove the four 5mm screws in the front.
- Use the same screwdriver to remove the single 9mm screw in the center.

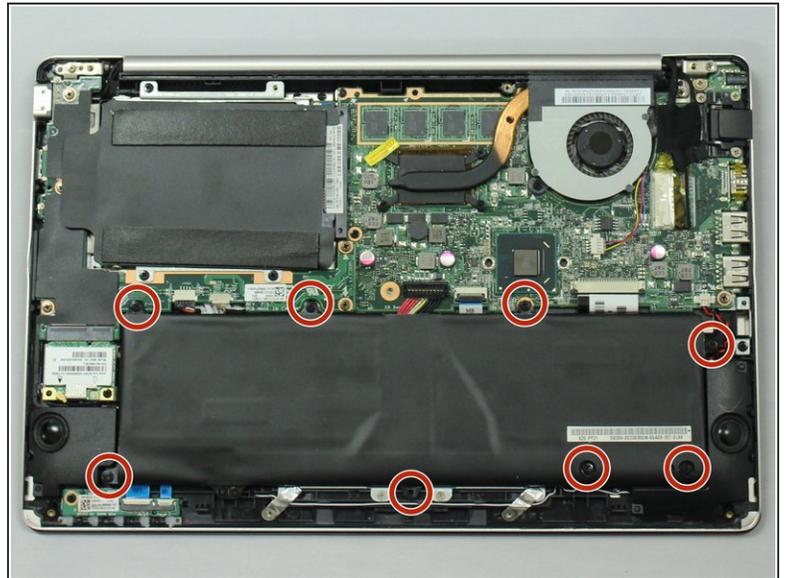
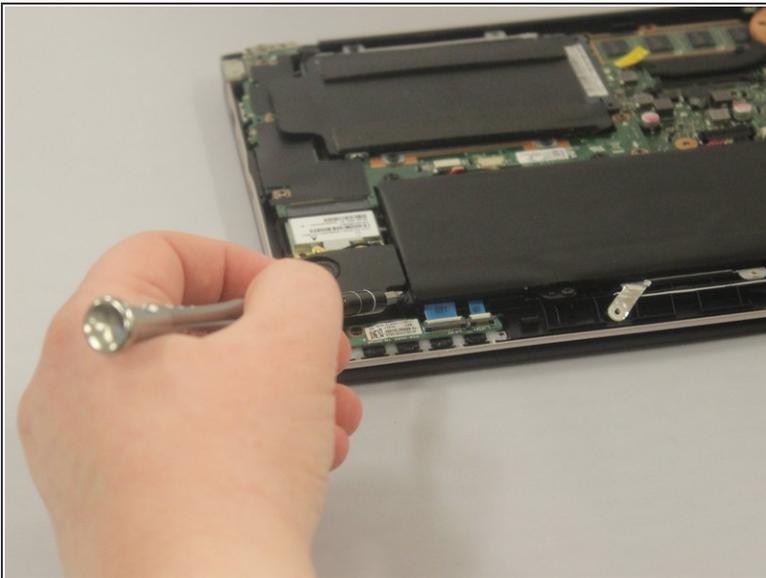
**⚠ Make sure that the device is powered down and unplugged.**

## Step 2



- Remove the back cover by gently prying with a spudger.

## Step 3



- Remove the eight 5mm screws using a Phillips #1 screwdriver.

**⚠ Do not puncture the battery.**

## Step 4



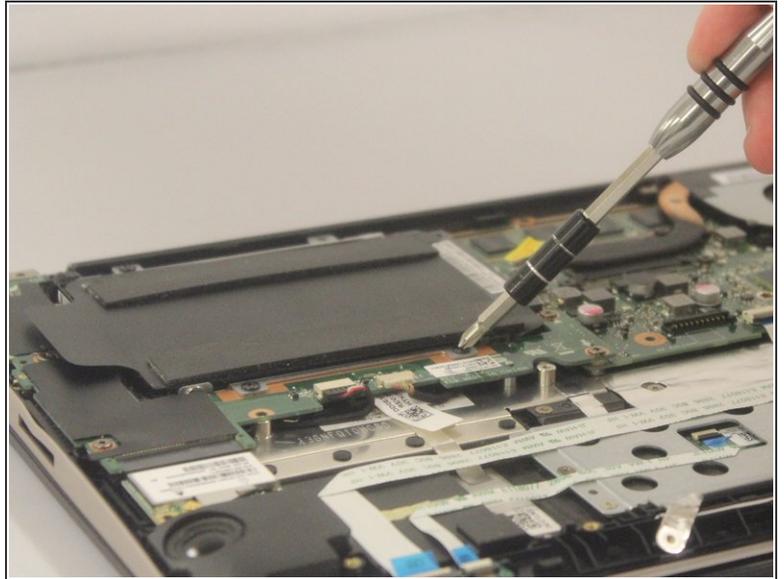
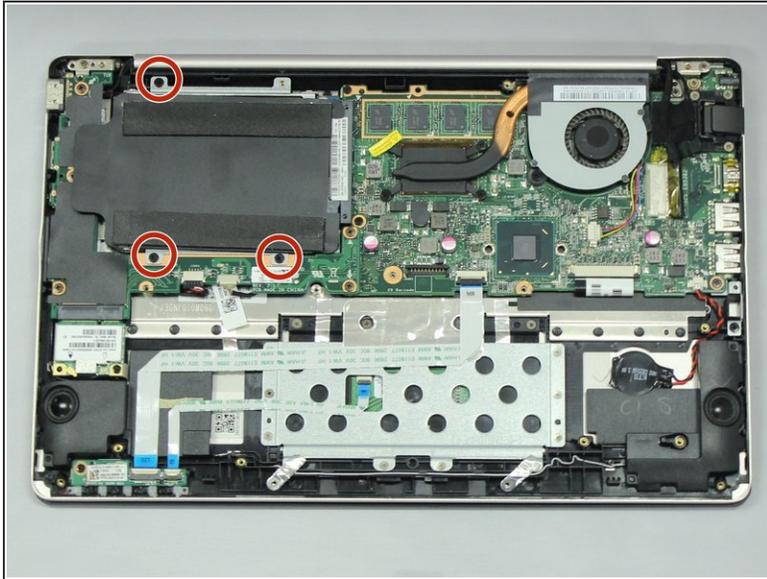
- Disconnect the battery ribbon cable from the motherboard.

## Step 5



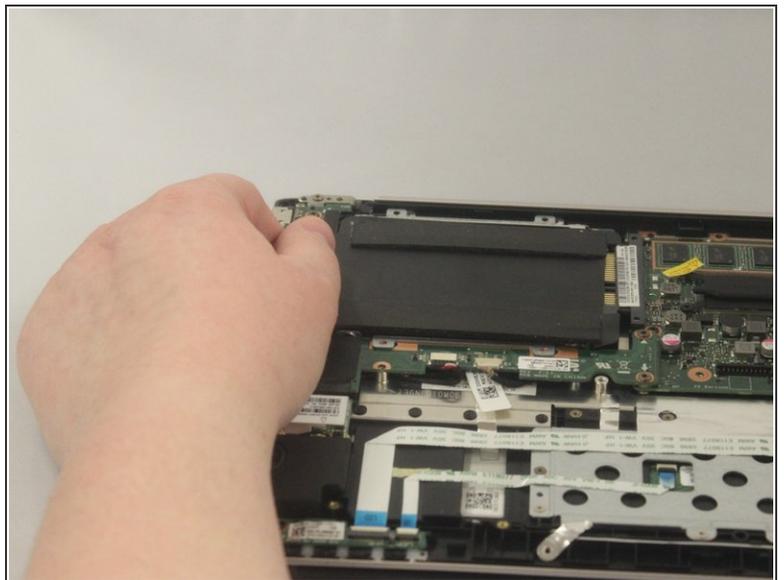
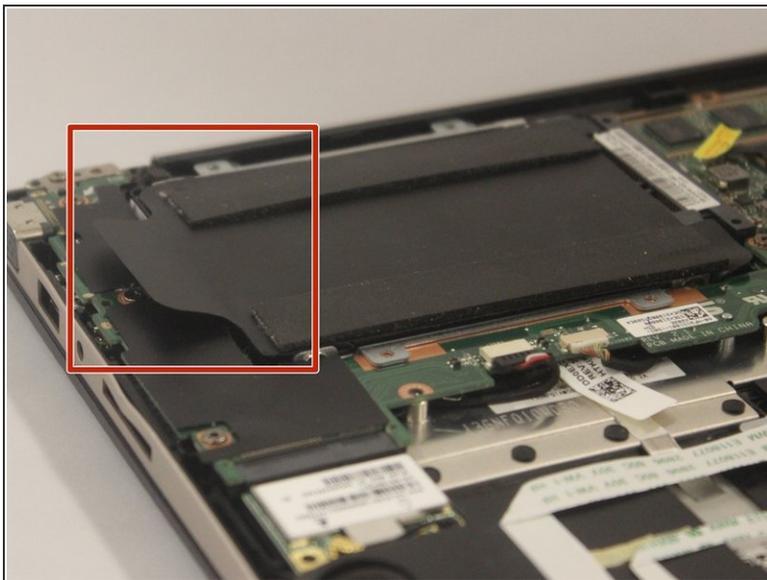
- Remove the battery from the laptop.

## Step 6 — Hard Drive



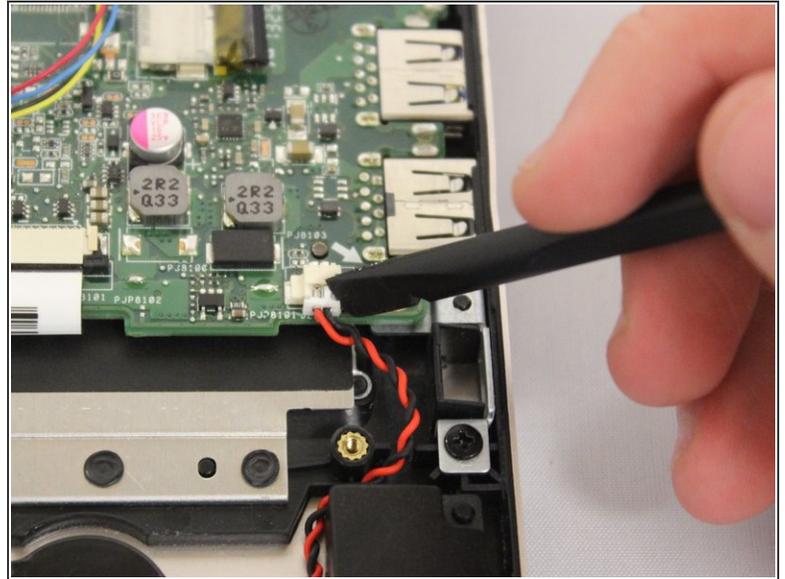
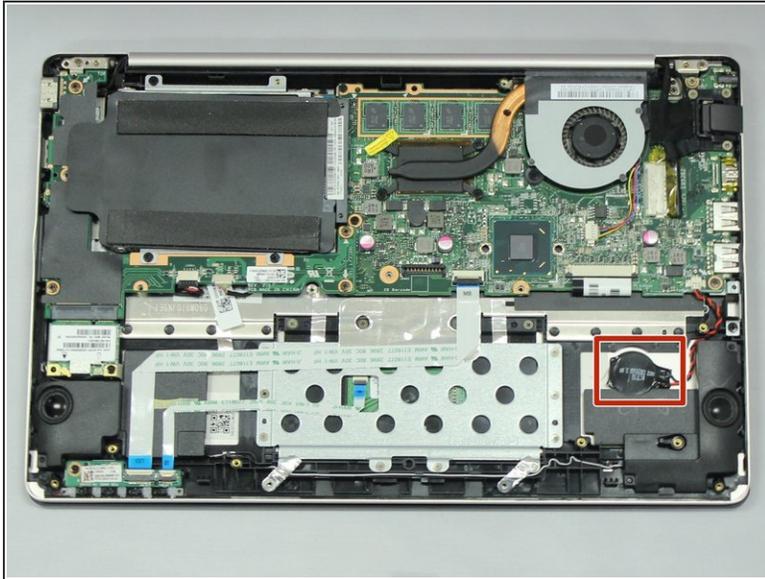
- Unscrew the three 4mm screws holding the hard drive to the board.

## Step 7



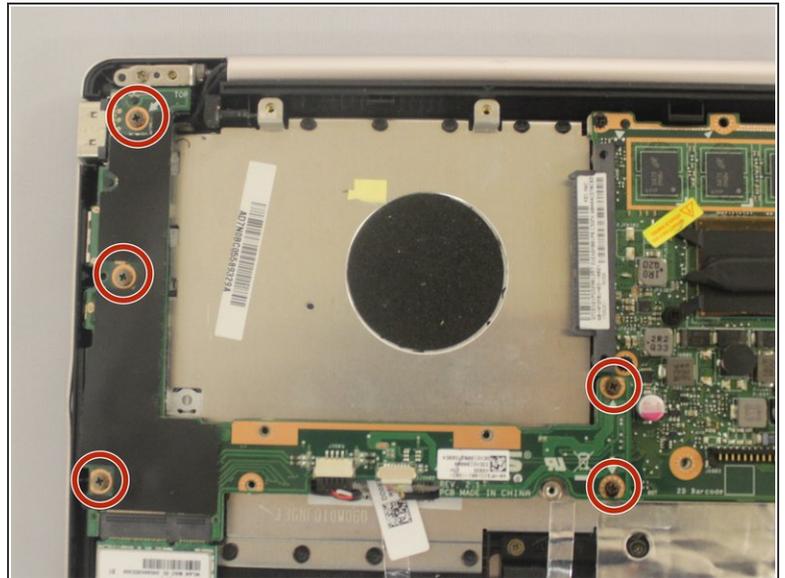
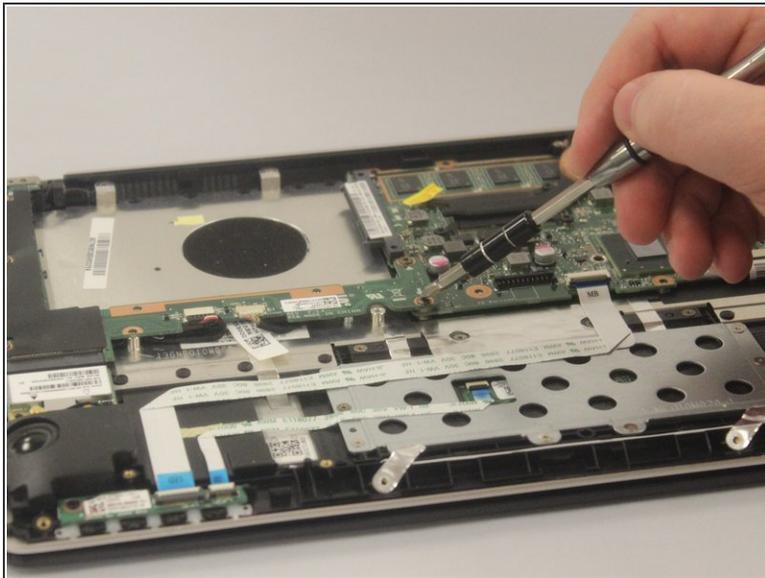
- Pull on the tab on the left side of the hard drive and slowly disconnect it from the board.

## Step 8 — CMOS Battery



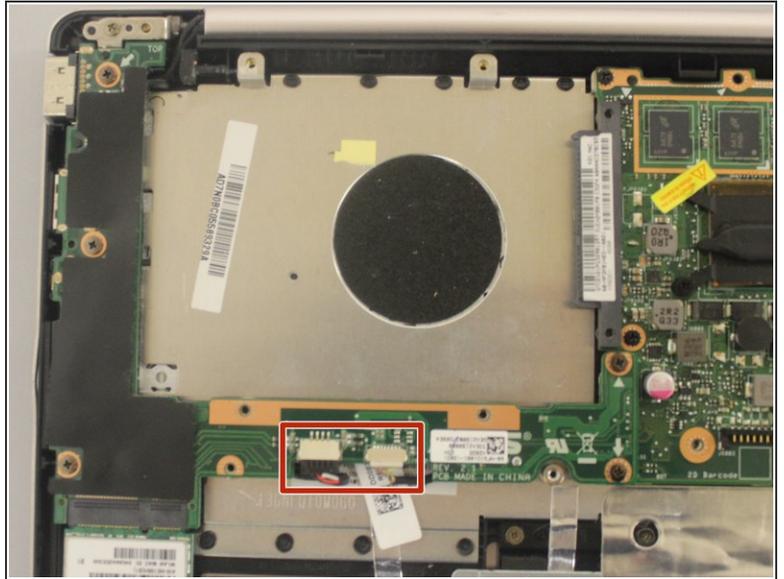
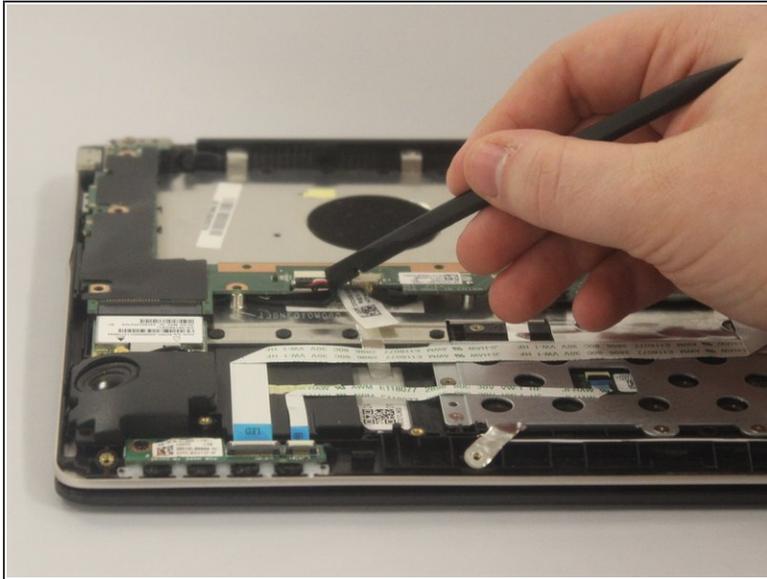
- Unplug and remove the CMOS battery.

## Step 9 — Motherboard



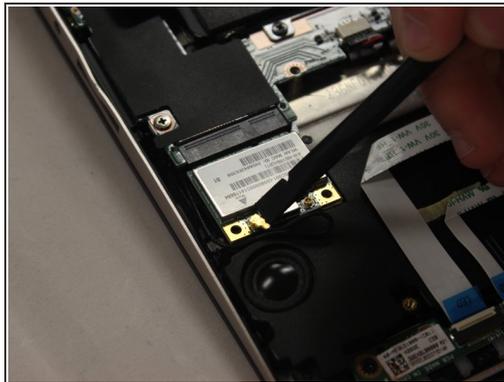
- Unscrew the five 5mm screws holding the left board together.

## Step 10



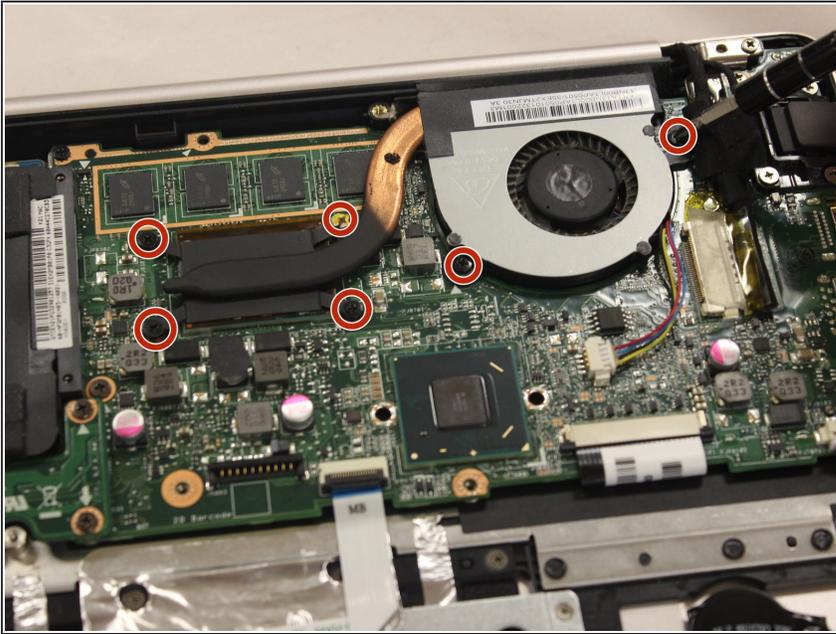
- Unplug the two connectors on the left board.

## Step 11



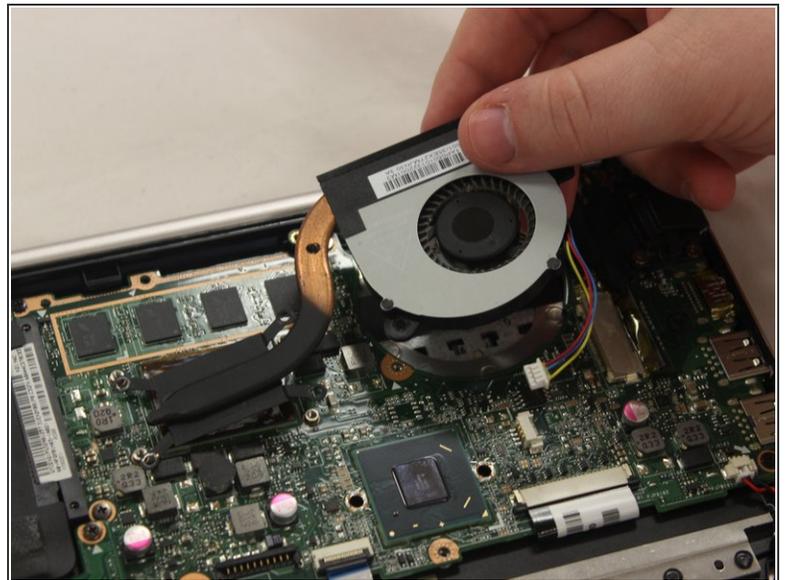
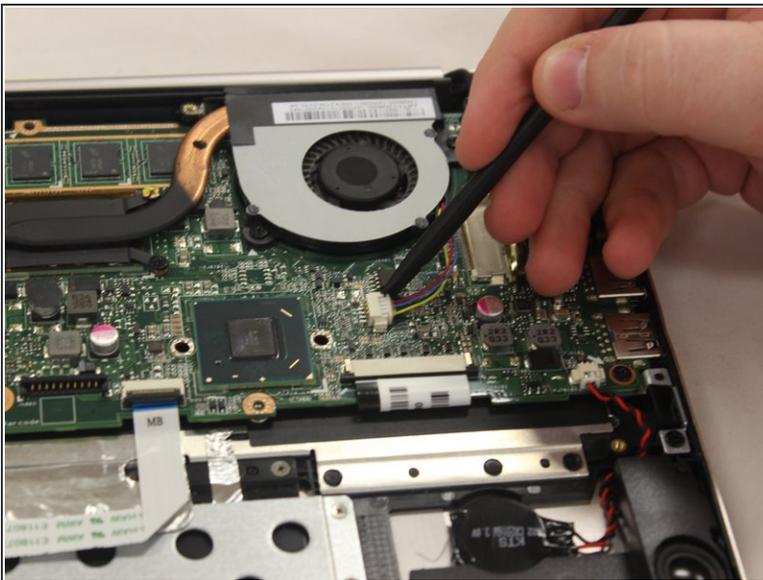
- Remove the single 3mm screw from the sound chip.
- Unplug the sound chip.
- Remove the sound chip.

## Step 12



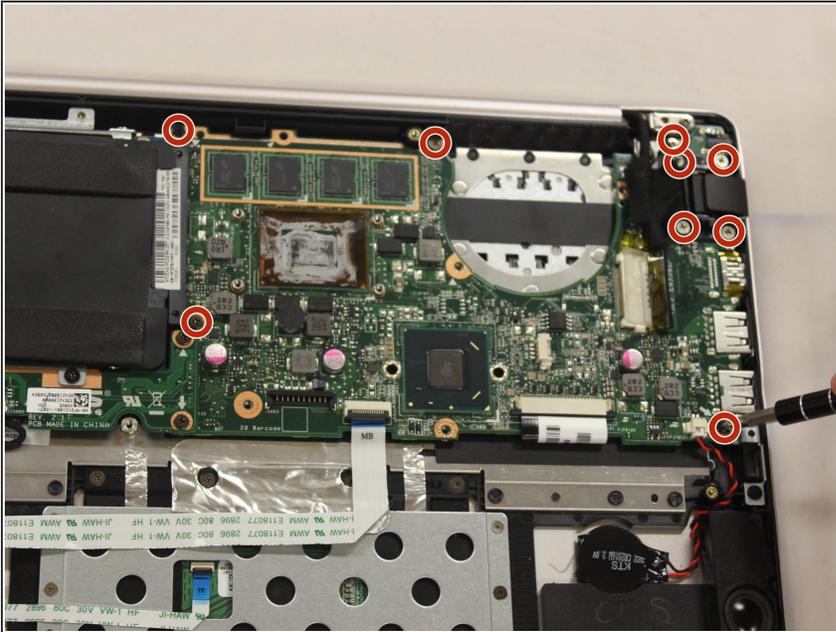
- Remove the six 4mm screws holding the fan and CPU cover.

## Step 13



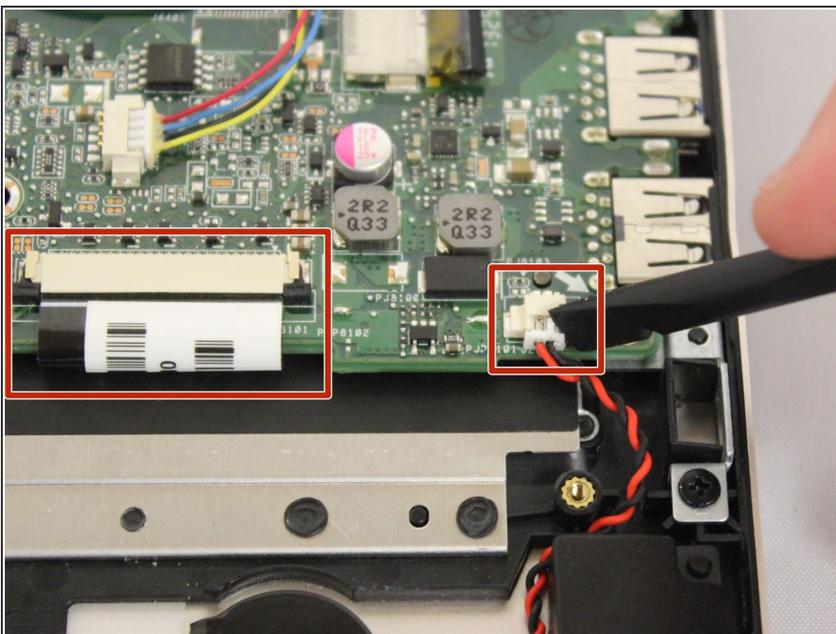
- Unplug the fan.
- Remove the fan and CPU cover.

## Step 14



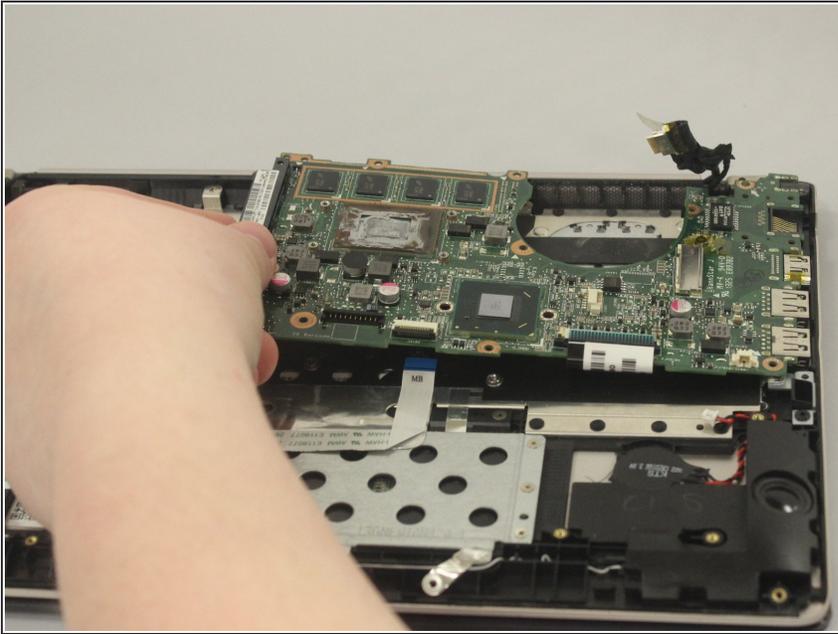
- Unscrew the nine 4mm screws holding the right board together.

## Step 15



- Remove the two remaining connectors on the board.

## Step 16



- Remove the right board.

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