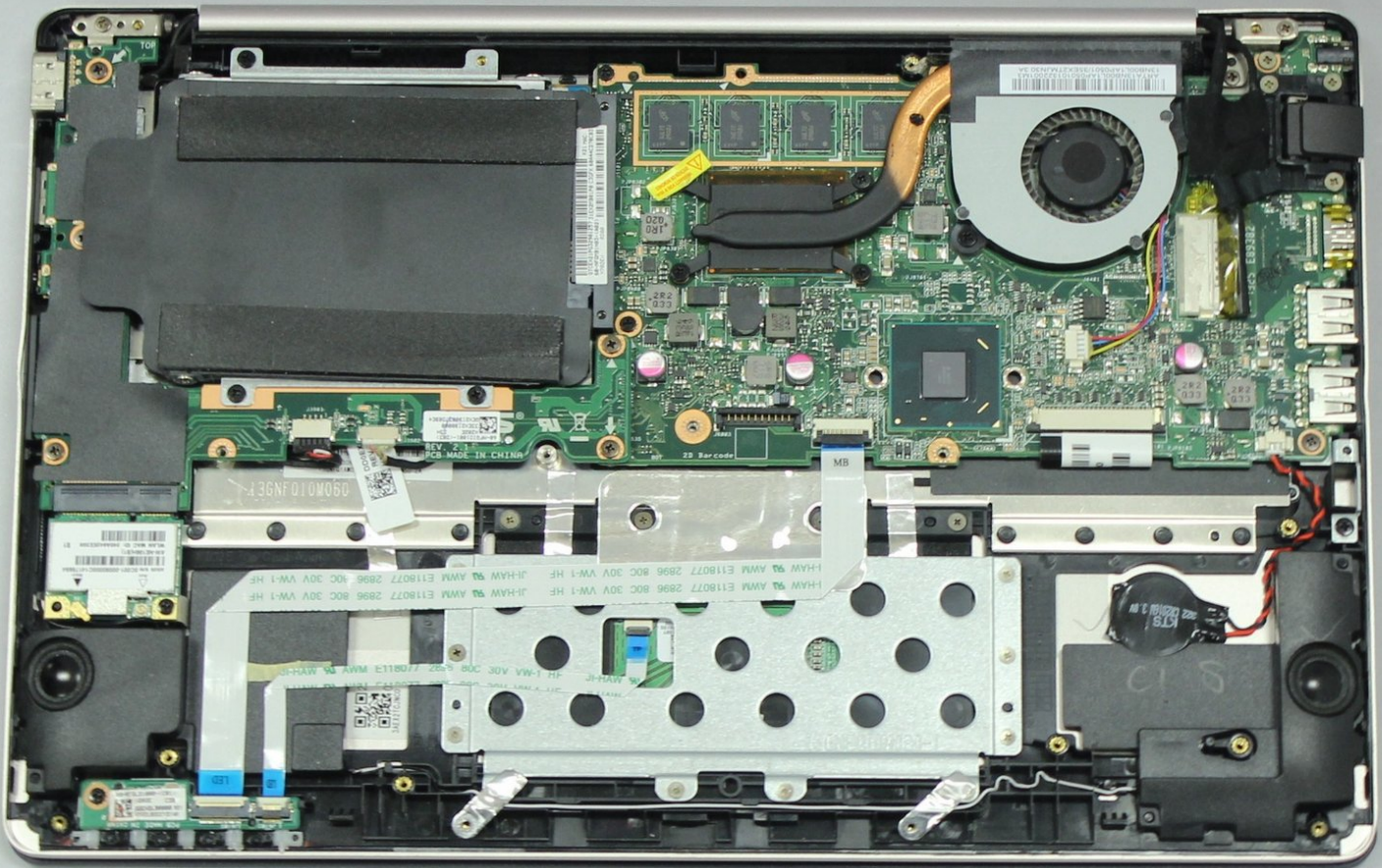




# Asus VivoBook X202E-DB21T Motherboard Replacement

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

Written By: John Thomas



## 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.



### TOOLS:

- [Phillips #1 Screwdriver](#) (1)
  - [Spudger](#) (1)
-

## 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.

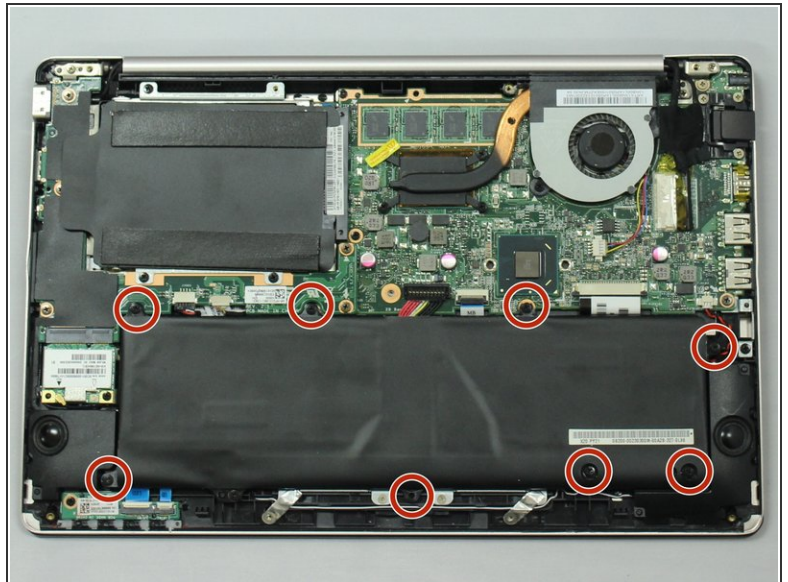
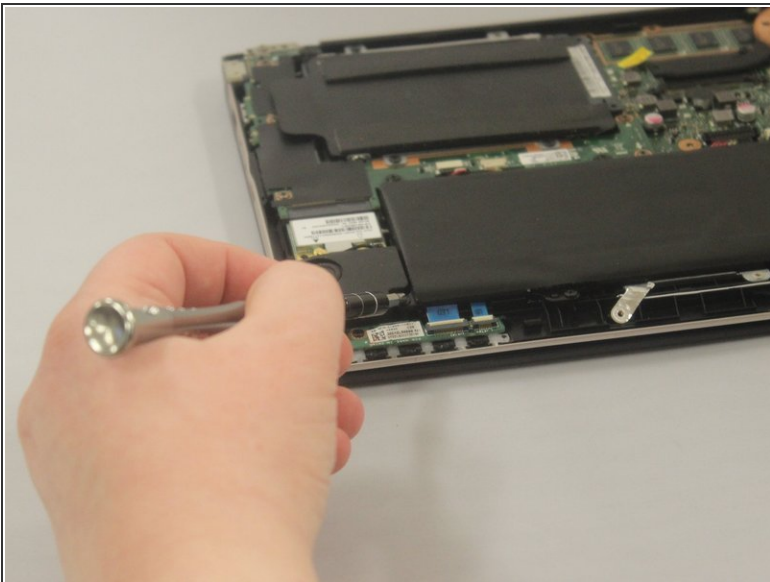


## Step 2



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

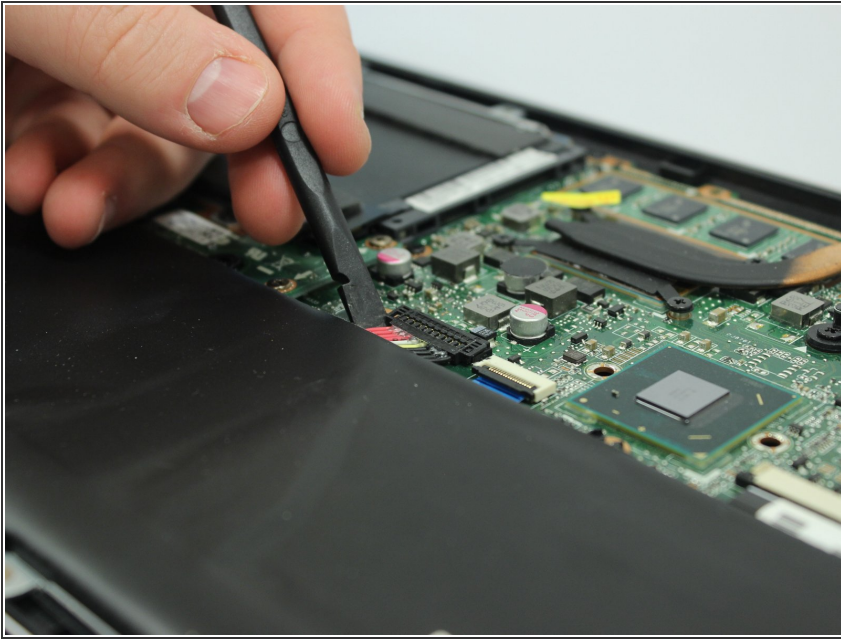
## Step 3



- 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.

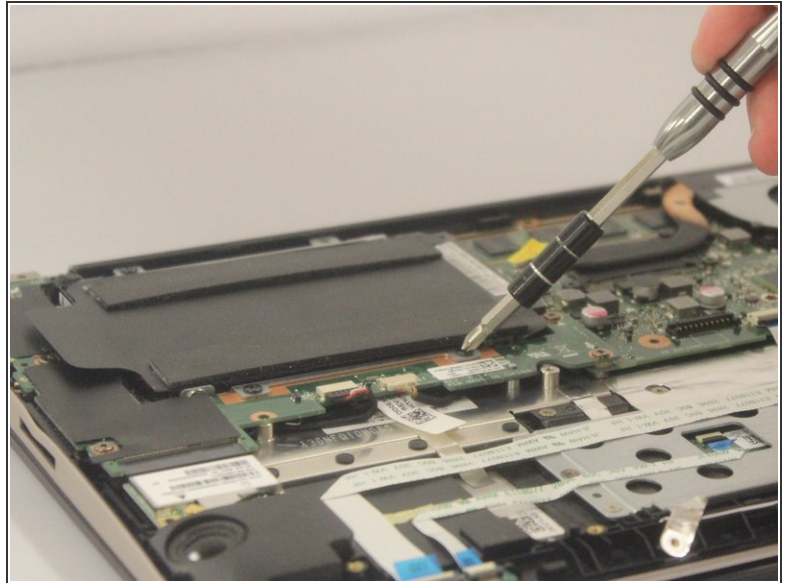
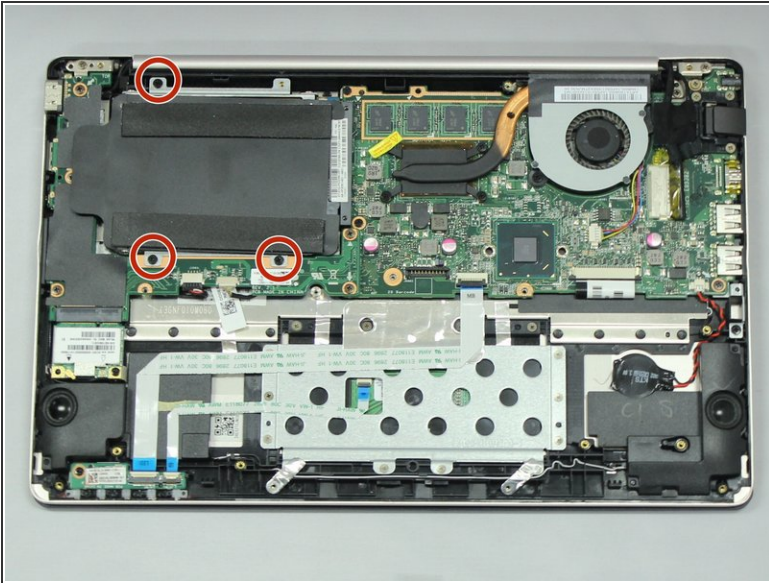
## Step 5



- Remove the battery from the laptop.

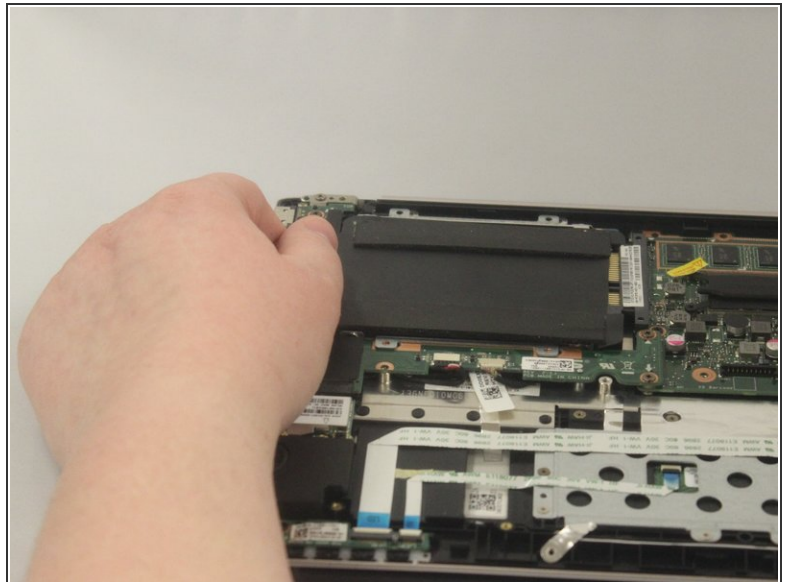
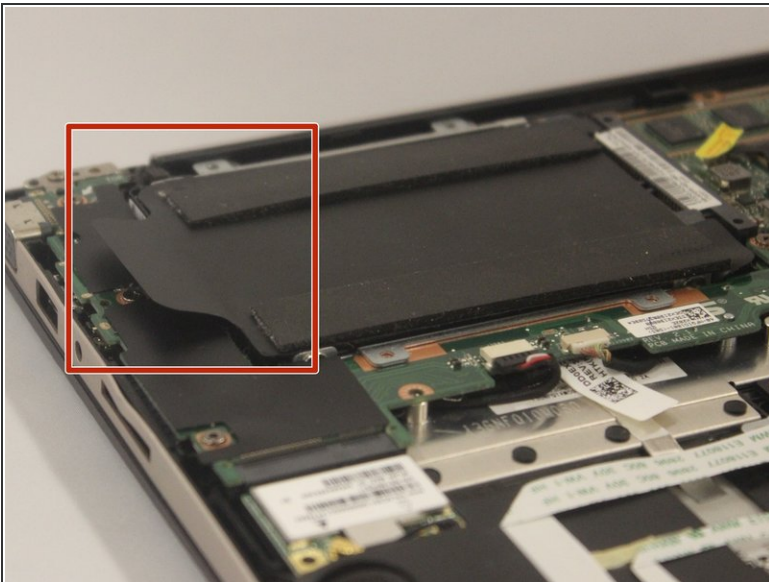


## Step 6 — Hard Drive



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

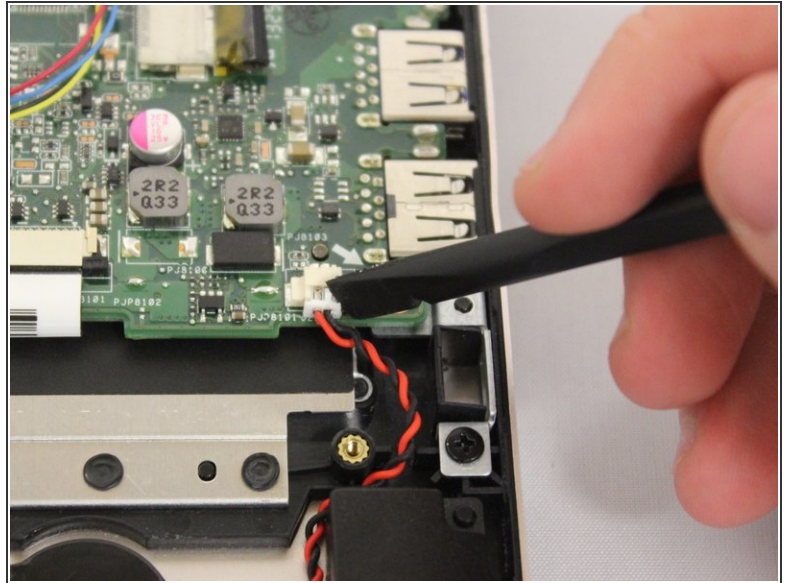
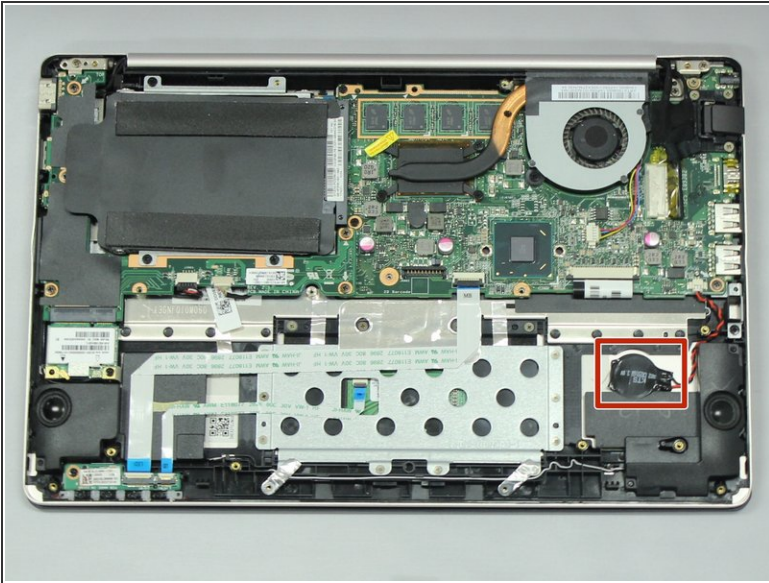
## Step 7



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

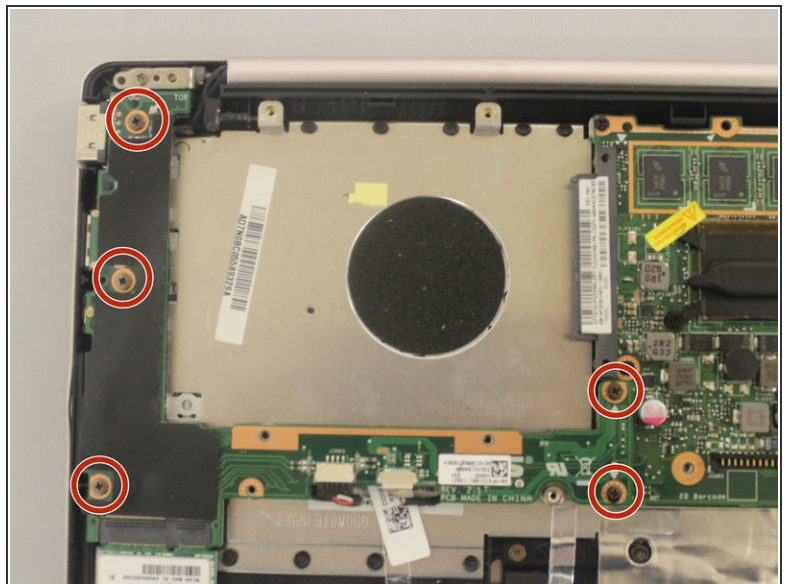
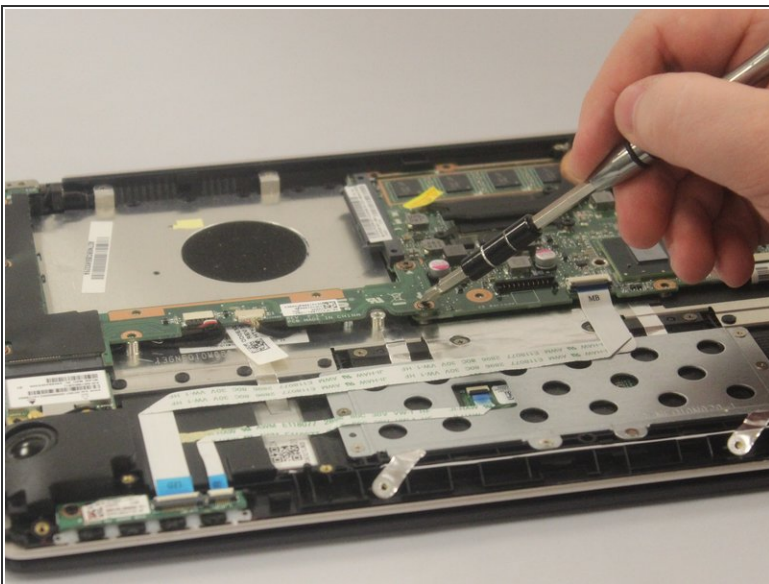


## Step 8 — CMOS Battery



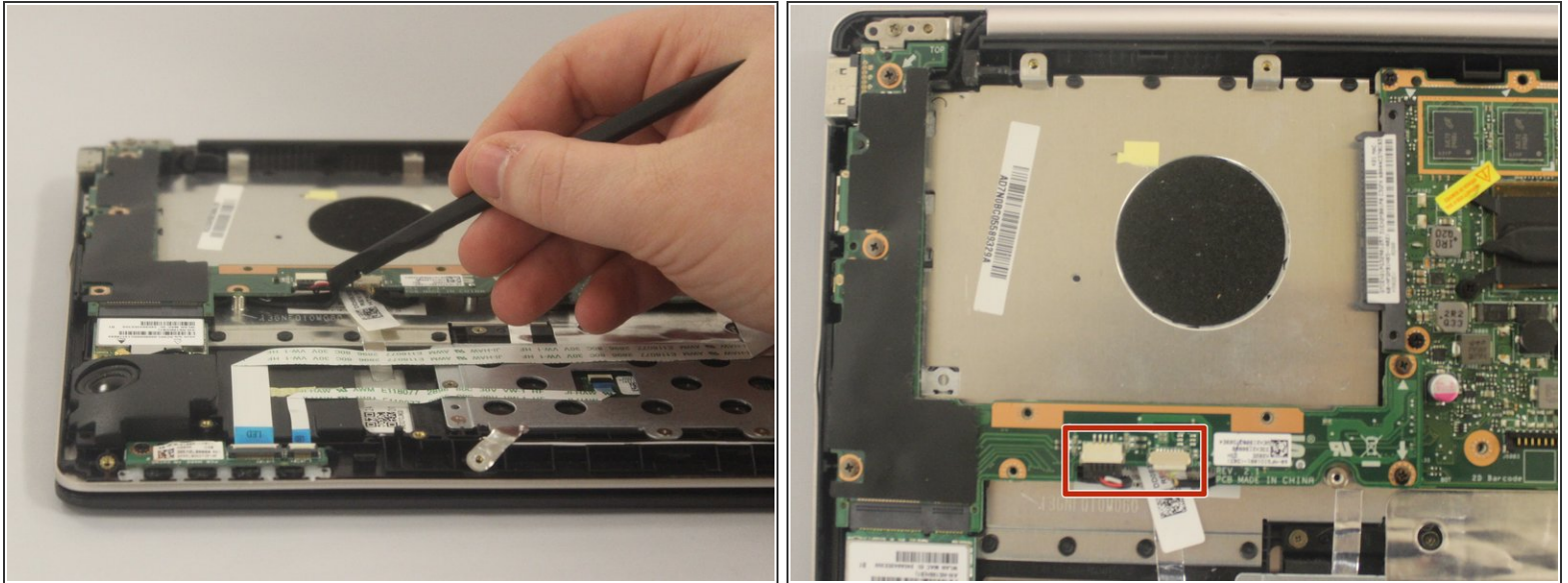
- Unplug and remove the CMOS battery.

## Step 9 — Motherboard



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

## Step 10



- Unplug the two connectors on the left board.

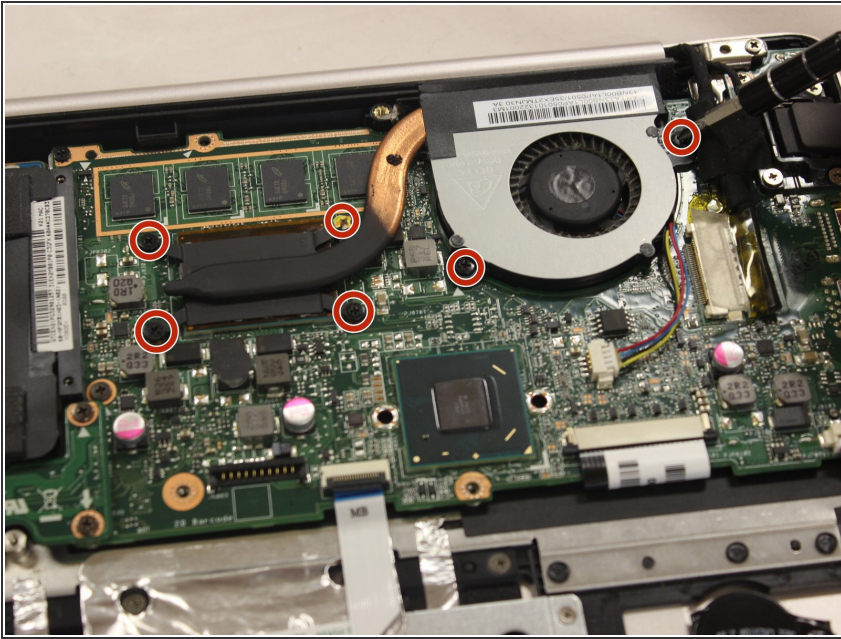
## Step 11



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

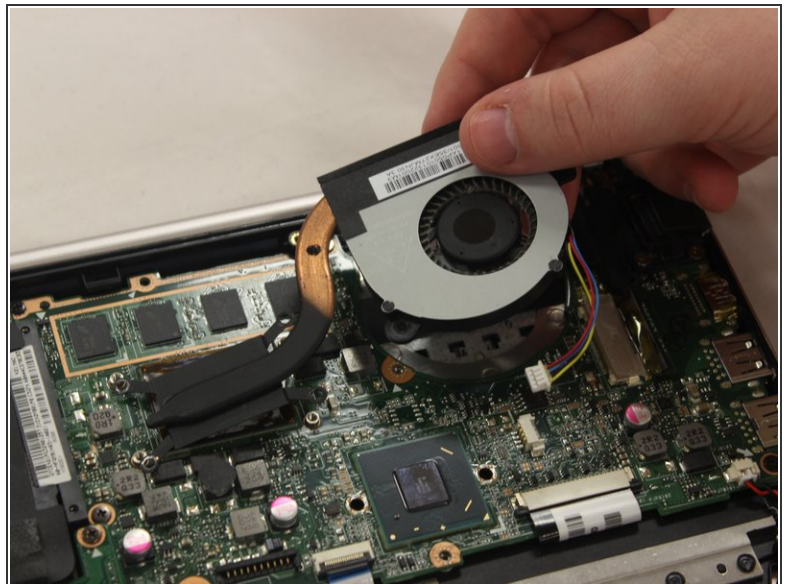
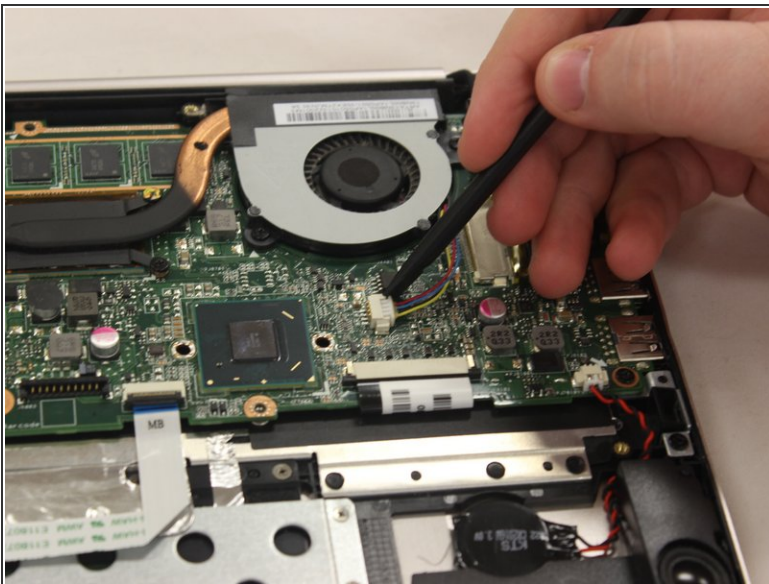


## Step 12



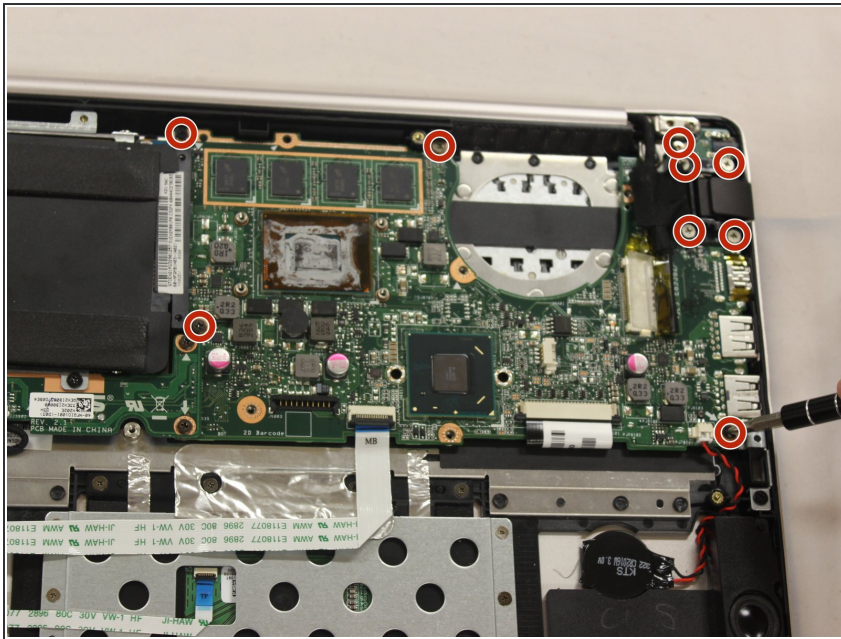
- Remove the six 4mm screws holding the fan and CPU cover.

## Step 13



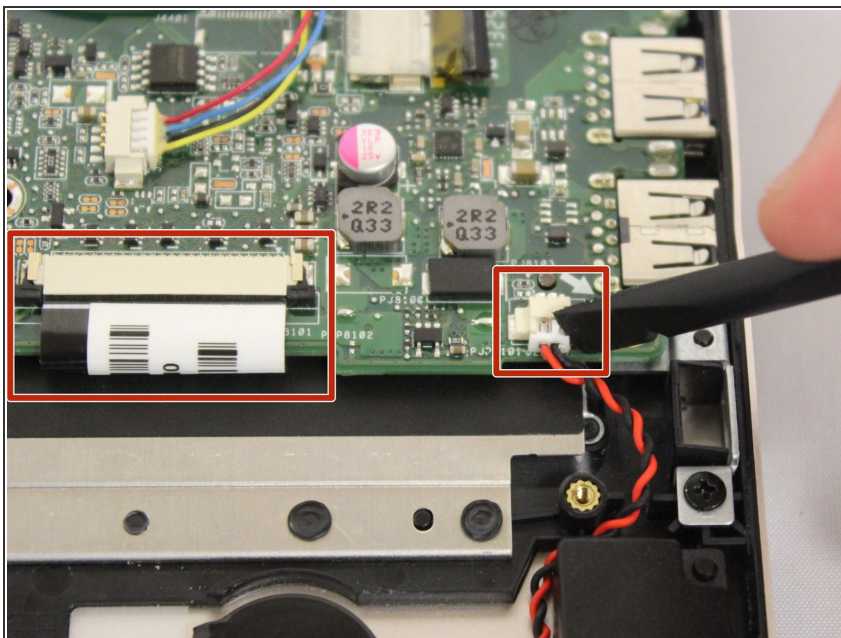
- Unplug the fan.
- Remove the fan and CPU cover.

## Step 14



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

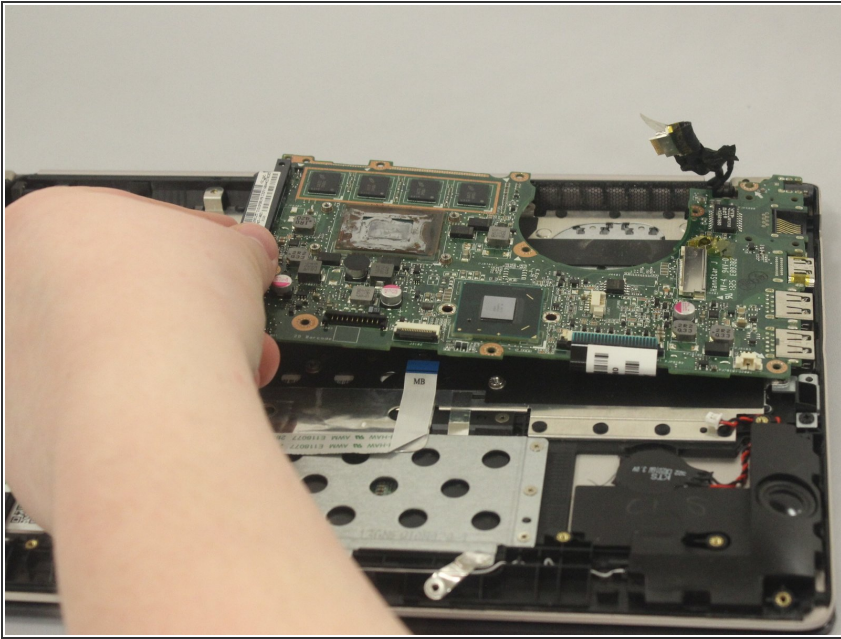
## Step 15



- Remove the two remaining connectors on the board.



## Step 16



- Remove the right board.

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