

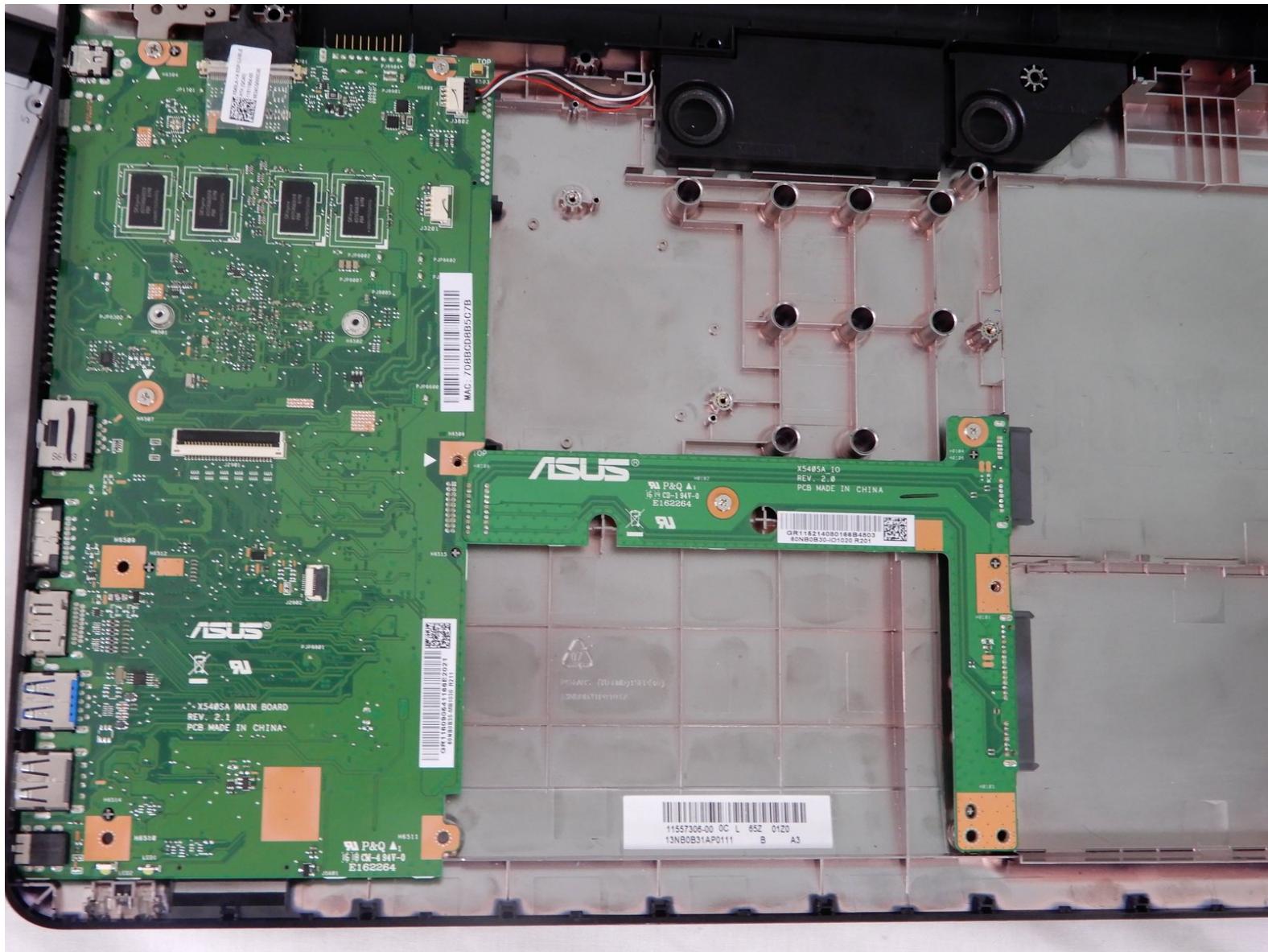


# Asus VivoBook X540SA-BPD0602V

## MotherBoard Disassembly

How to remove the motherboard.

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## INTRODUCTION

In this guide you will learn how to replace your Asus Vivobook X540SA-BPD0602V's motherboard. A damaged motherboard will lead to a lack of a digital display and the inability to use your device.

### TOOLS:

- [JIS #0 Screwdriver](#) (1)
- [JIS #00 Screwdriver](#) (1)
- [Phillips #1 Screwdriver](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)

## Step 1 — Keyboard



- Power down the laptop using the device's power button in top right corner of the keyboard. Ensure that the device's power cord is disconnected.

## Step 2



- Flip the laptop over so the back panel is displayed.

## Step 3



- Using a Phillips #0 screwdriver, remove the ten screws from the back panel.
- Remove the two battery screws (15.6 mm)
- Two top corner screws (12.5 mm)
- Six case screws (9.7mm)

## Step 4



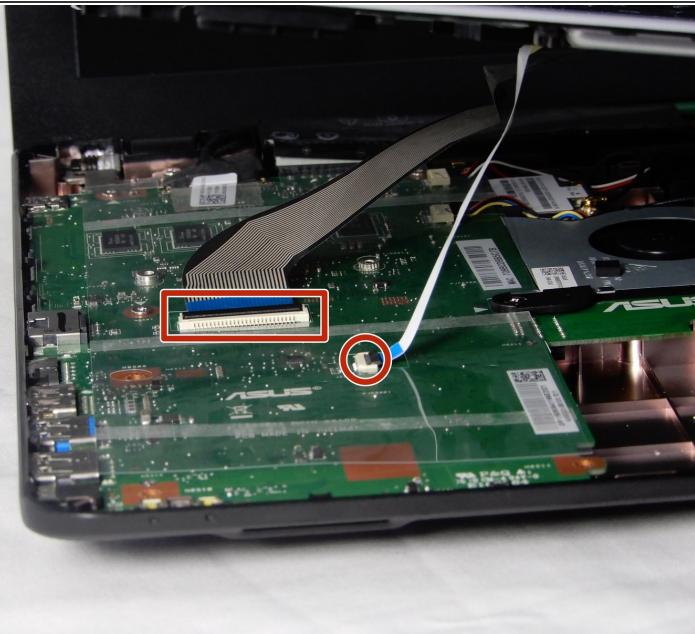
- Flip the laptop back over and open it, revealing the screen and keyboard.

## Step 5



- Use the plastic opening tool to wedge and loosen the seal all the way around the edges. Carefully lift up the keyboard panel.
- ⚠ When lifting the keyboard panel, do not lift it all the way as the two connection ribbons to the motherboard must be disconnected.
- ⓘ It is recommended to break the seal of the case starting at the upper corners closest to the hinge.

## Step 6



- Observe where the ribbons connect to the motherboard; there are two connections. Each connection has a black clamp. To remove the ribbon, lift up the black clamp and disconnect.

## Step 7 — Battery



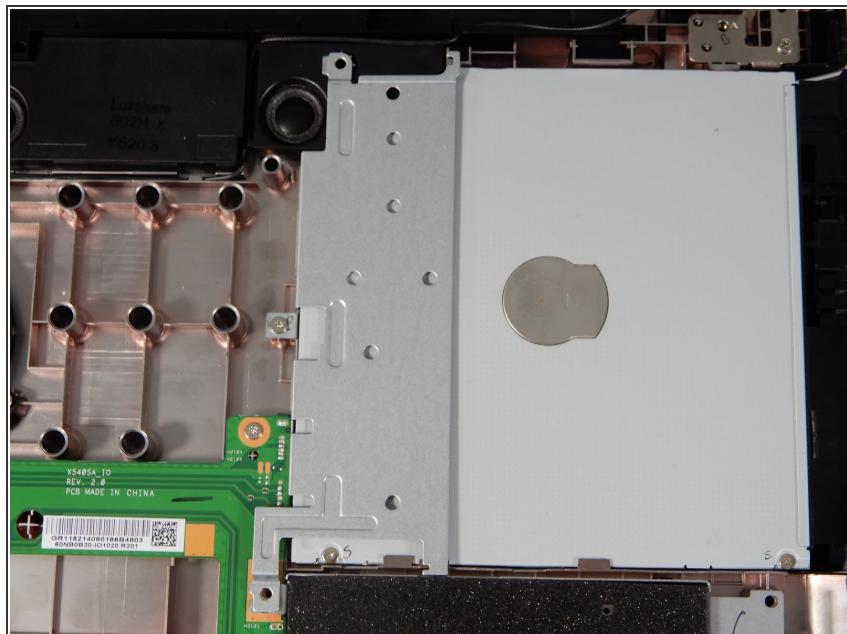
- Very carefully, remove the batteries with the same blue plastic iFixit opening tool used in the first tutorial.

Focus your efforts on the combed hinge to the left of the batteries.

 The batteries should all be connected to one another and come out of the device as a single unit.

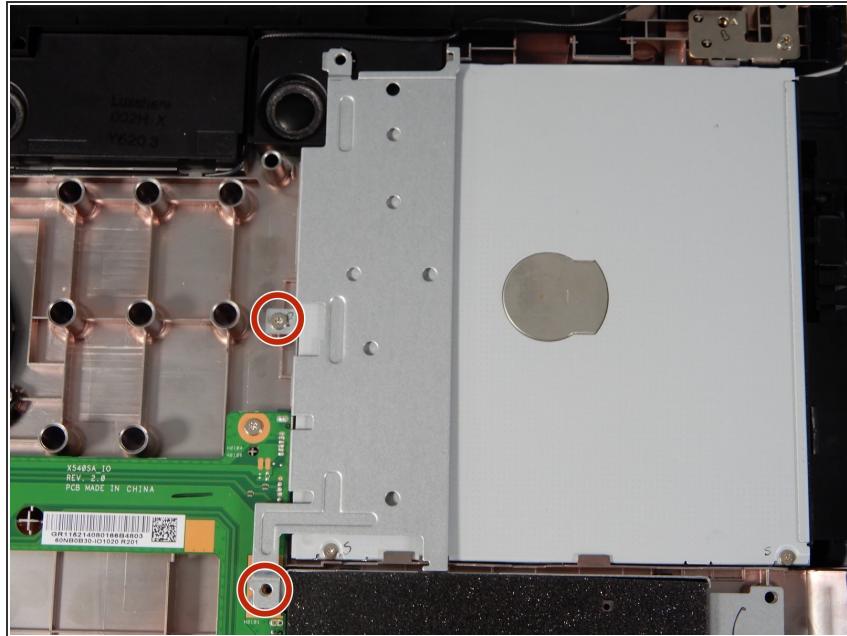
 Be careful not to rip any of the black plastic covering the batteries. Exposed battery parts can lead to explosions. If the case is ripped, re-wrap them, or properly dispose of them. Do not use them.

## Step 8 — Disk Drive



- The Disk Drive is located within the upper right hand corner of the laptop.

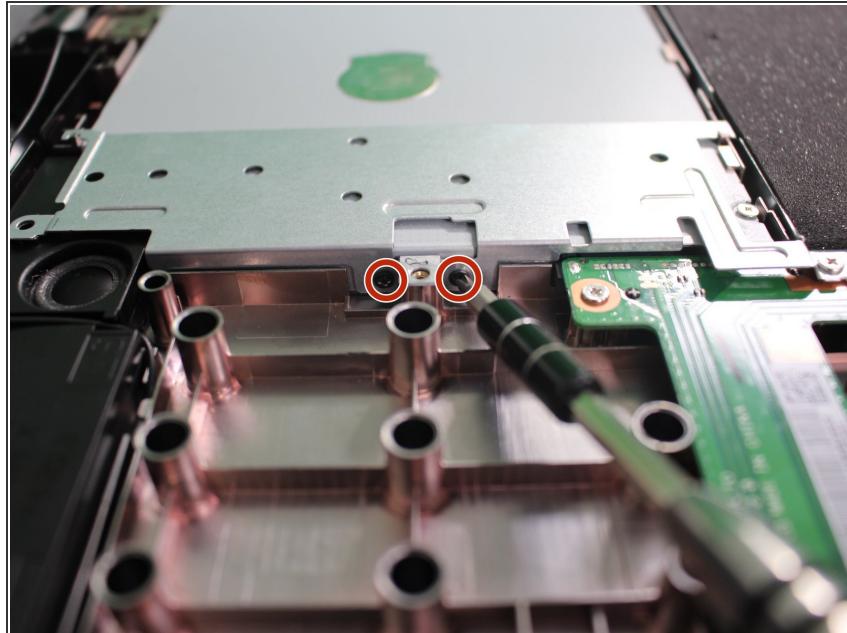
## Step 9



- Using a Phillips #0 screwdriver, remove the two screws (5.6 mm) around the disc drive.

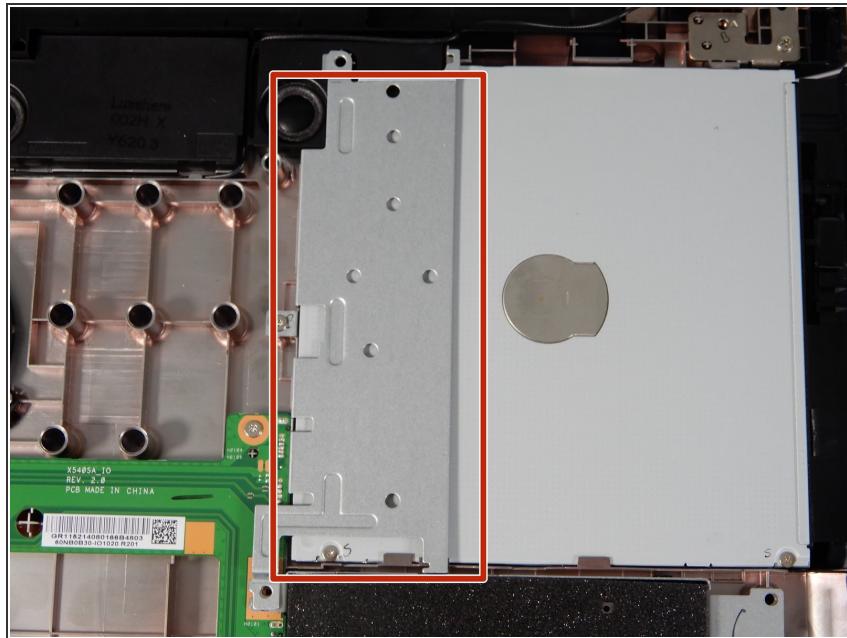
 Note which screws go where. The two smaller screws fasten onto the disc drive, while the three larger screws secure the drive on the outside.

## Step 10



- Use the Phillips #00 screwdriver to remove the two screws (2.7 mm) on the side of the disc drive fastener.

## Step 11



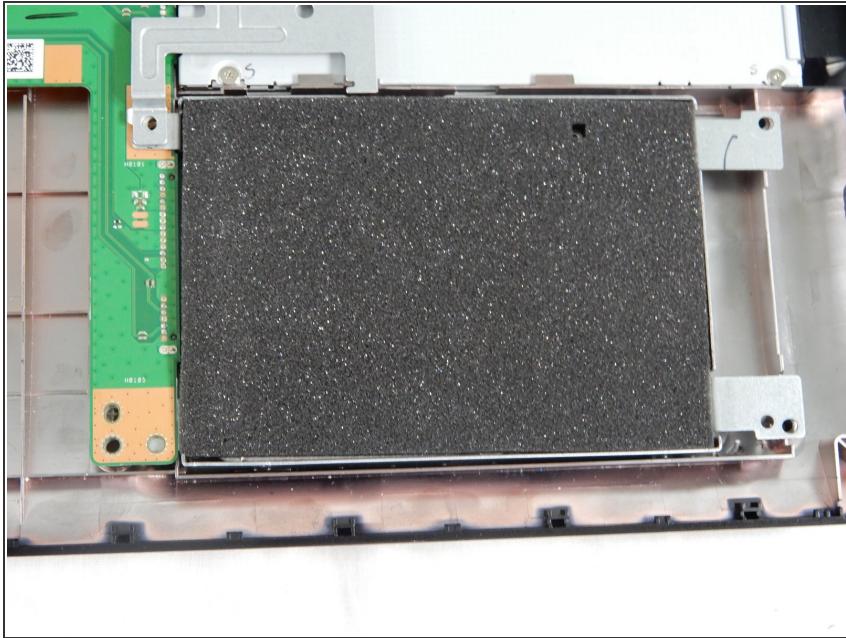
- After removing the seven screws, lift the metal fastener from the disc drive with the plastic opening tool.

## Step 12



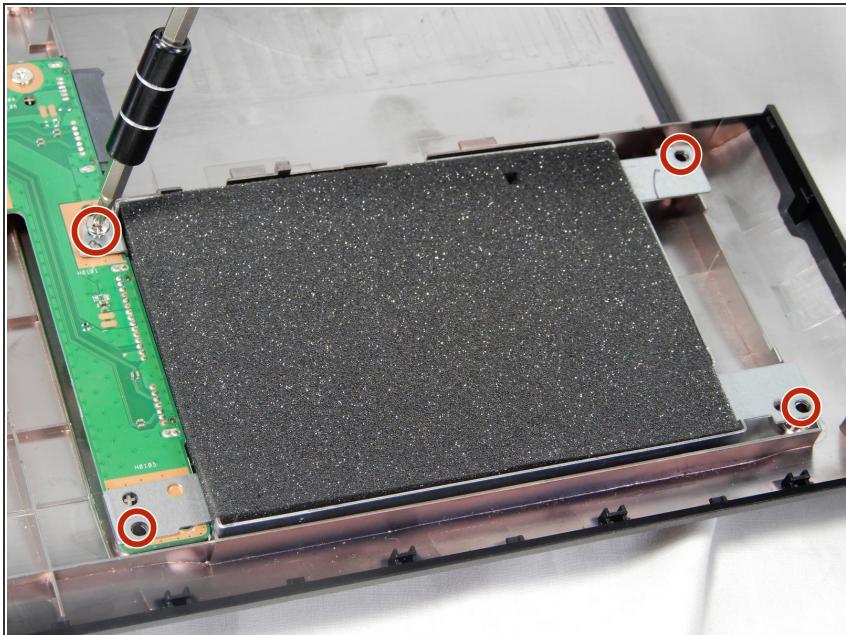
- Slide the disc drive to the right, removing it from the laptop case.

## Step 13 — Hard Drive



- The Hard Drive is located in the bottom right hand corner. It should be the device covered in black foam.
- *i* Do not remove the foam. It's anti-static foam and protects the hard drive from static and any bumps as you move around your device.

## Step 14



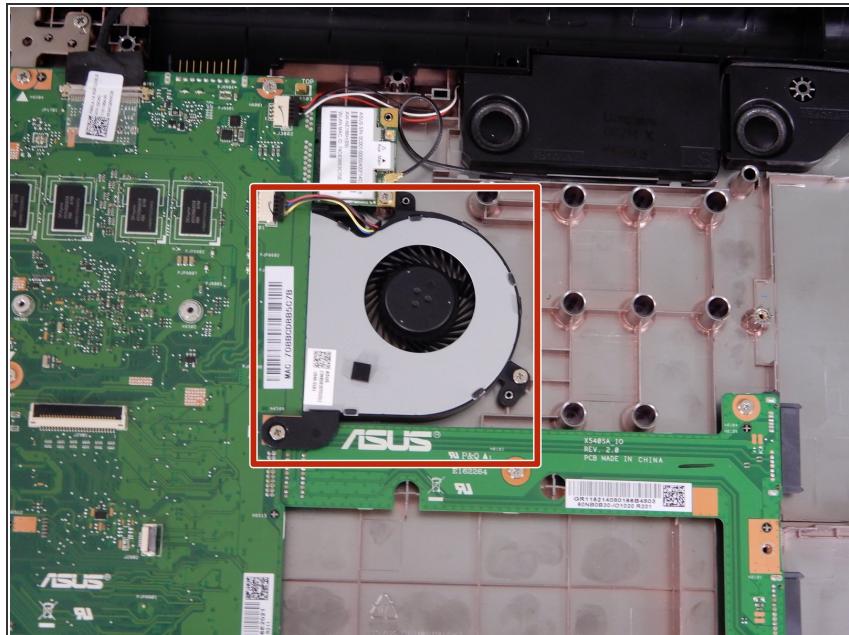
- Using the Phillips #0 screwdriver, unscrew the four (5.7cm) screws around the hard drive.

## Step 15



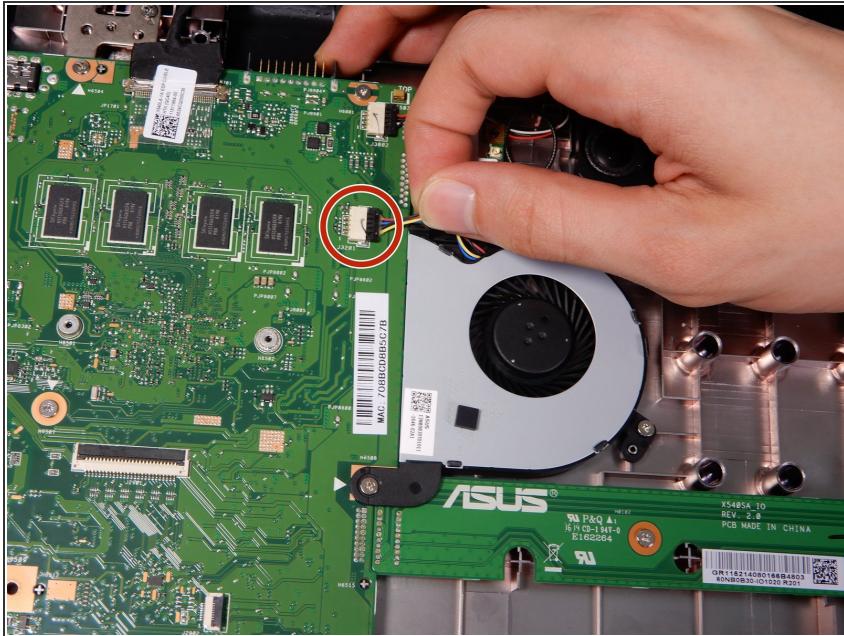
- Using the blue plastic opening tool in the iFixit tool kit, slide the hard drive to the right to remove it from the case.

## Step 16 — Fan



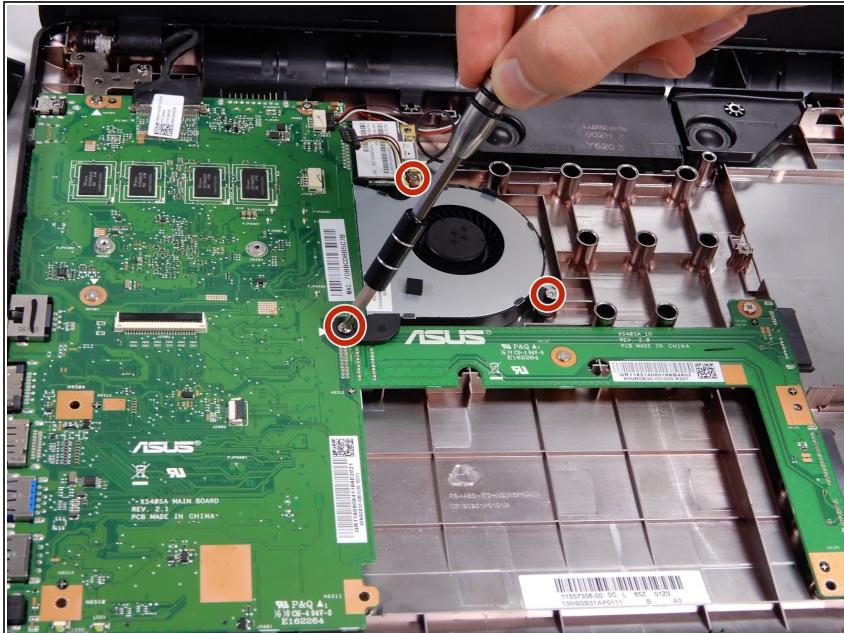
- The fan is located near the upper left hand corner of the device, connected to the motherboard and right beneath the wireless card.

## Step 17



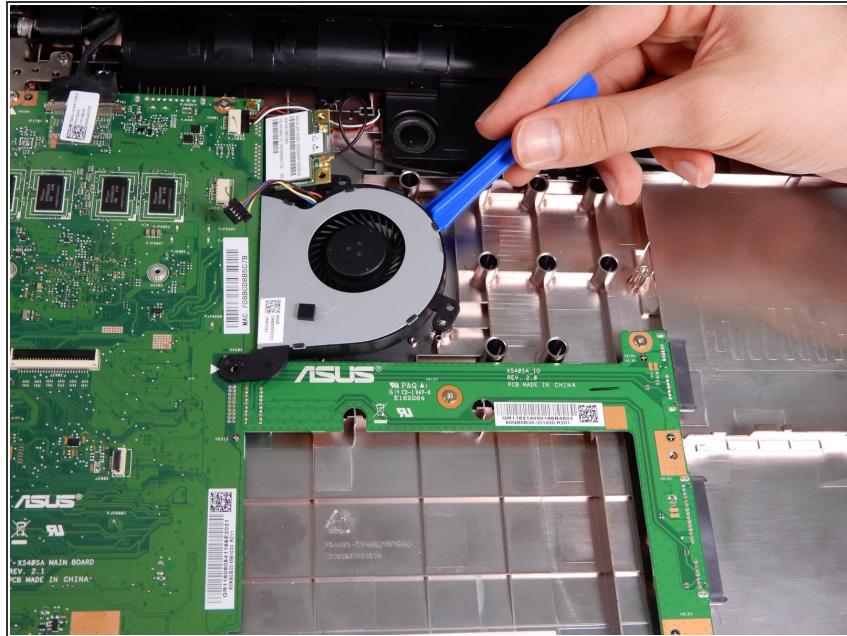
- There is a bundle of wires connecting the fan to the motherboard. Disconnect them.

## Step 18



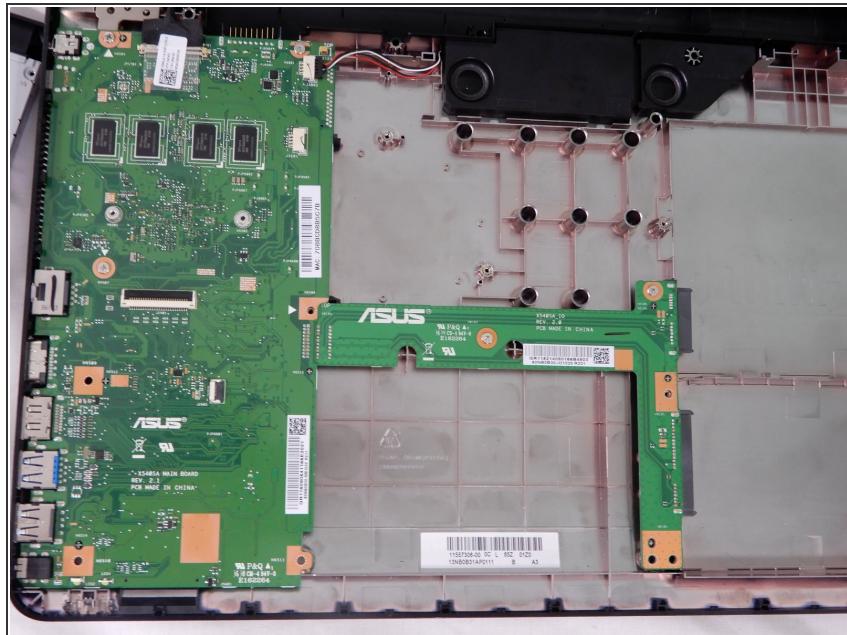
- Using the J00 screw bit in the iFixit tool kit, remove the three screws securing the fan to the case. One screw connected to the bottom case (4cm), one connected to the motherboard (4cm), and one screw connected to the Wireless Card (5cm).

## Step 19



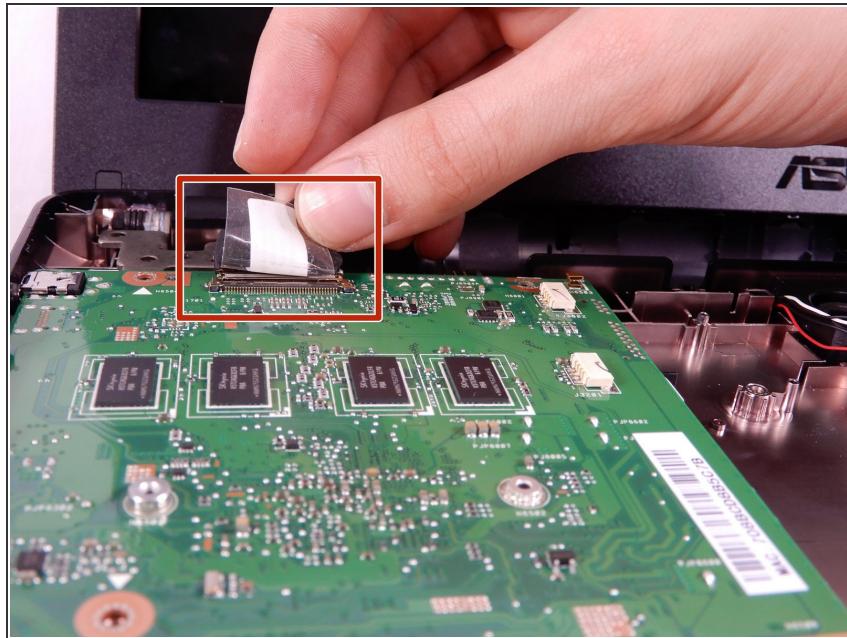
- Carefully remove the fan from the case using the blue iFixit opening tool.

## Step 20 — Motherboard



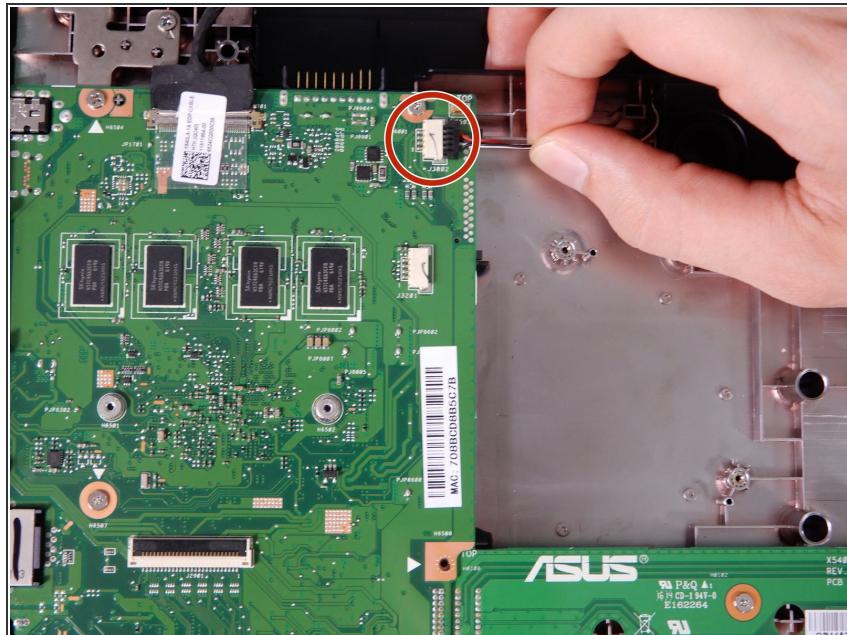
- The motherboard is located in the left half of the device case.

## Step 21



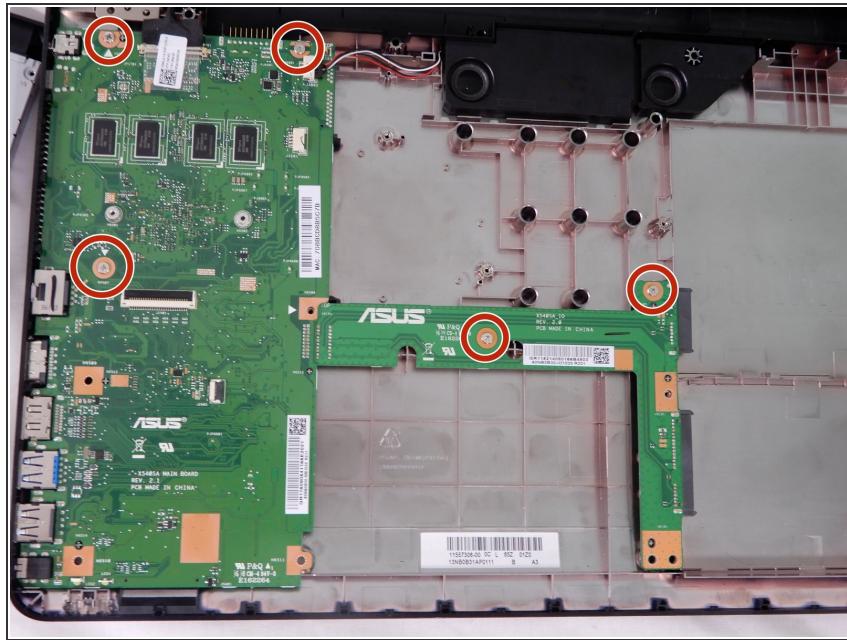
- There are wires attached to the motherboard, connecting the motherboard to the display.
- Peel the sticker back, and carefully remove the cable from the motherboard.

## Step 22



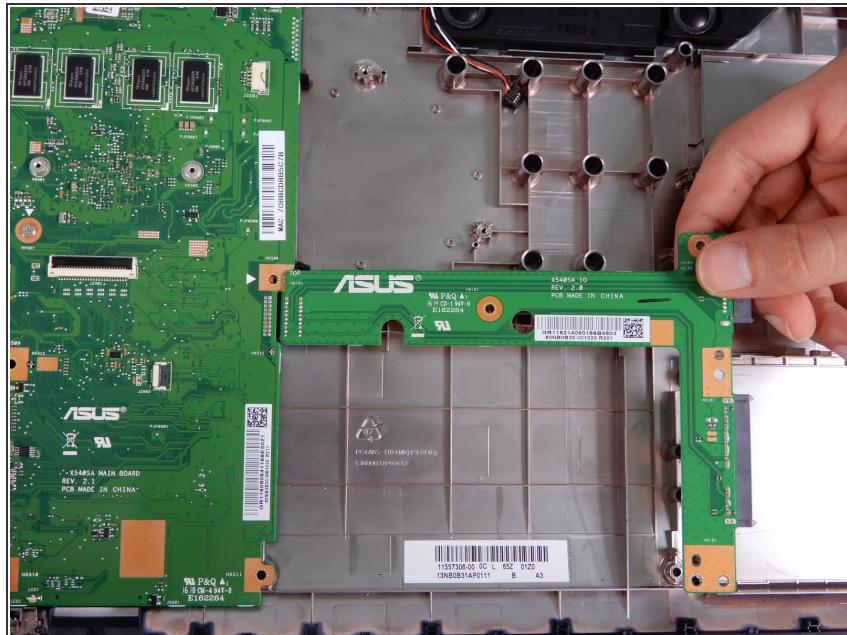
- There are wires connecting the wireless card to the motherboard on the upper right half of the motherboard. Disconnect them.

## Step 23



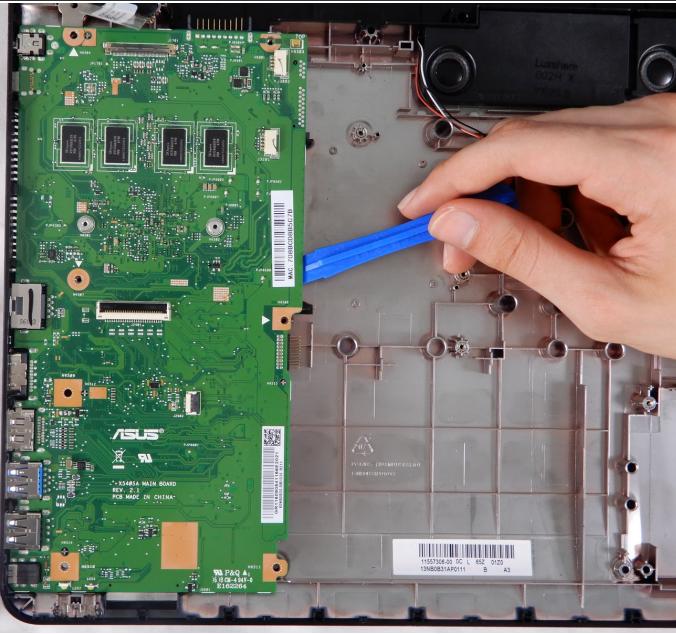
- There are five screws (5mm) used to secure the motherboard to the display. Using the J0 bit located in the iFixit tool kit, remove the screws.

## Step 24



- Slide the first half of the motherboard to the right to remove it from the case.

## Step 25



- Using the blue opening tool in the iFixit tool kit, lift the motherboard and slide to the right to finish removing it.

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