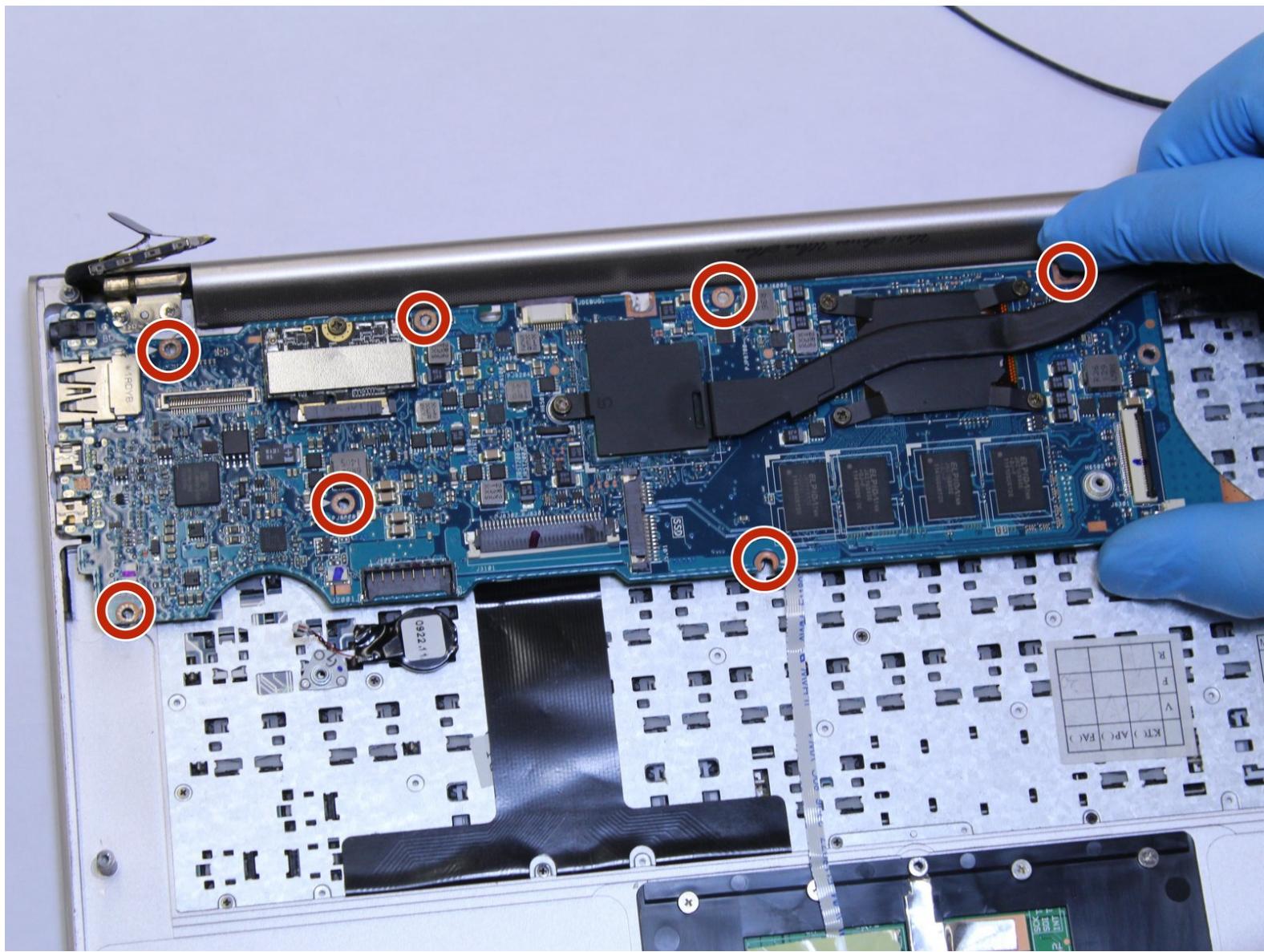




Asus Zenbook UX31E Motherboard Replacement

This guide will display the tools needed and procedure needed to replace the damaged or malfunctioning Asus Zenbook motherboard.

Written By: Ryne Lee Tucker



This document was generated on 2020-01-10 03:04:21 PM (MST).

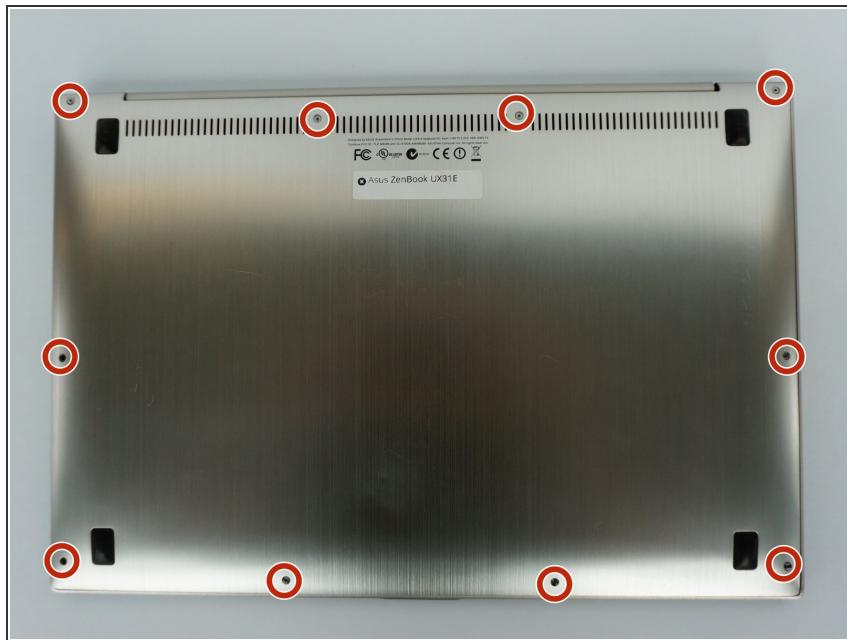
INTRODUCTION

Motherboards most commonly fail because of an electrical surge or because the computer was dropped. The tools needed for this replacement are listed in the prerequisite guides.

TOOLS:

- [T4 Torx Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Anti-Static Wrist Strap](#) (1)

Step 1 — Back Cover



- Using a T4 Torx screwdriver, remove the ten screws at the marked locations.

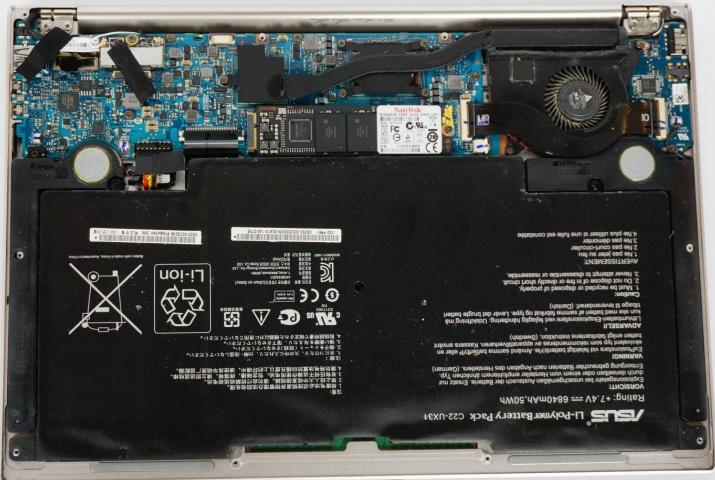
(i) Place the screws into a container as to not lose them.

Step 2



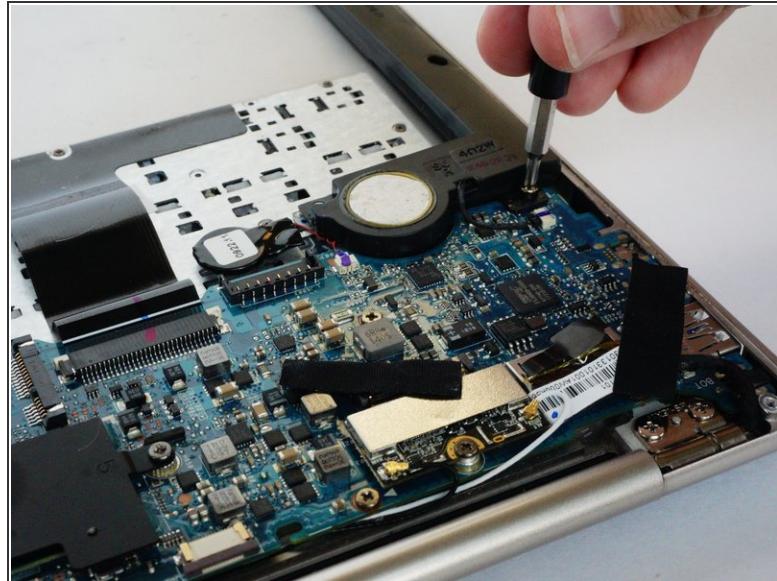
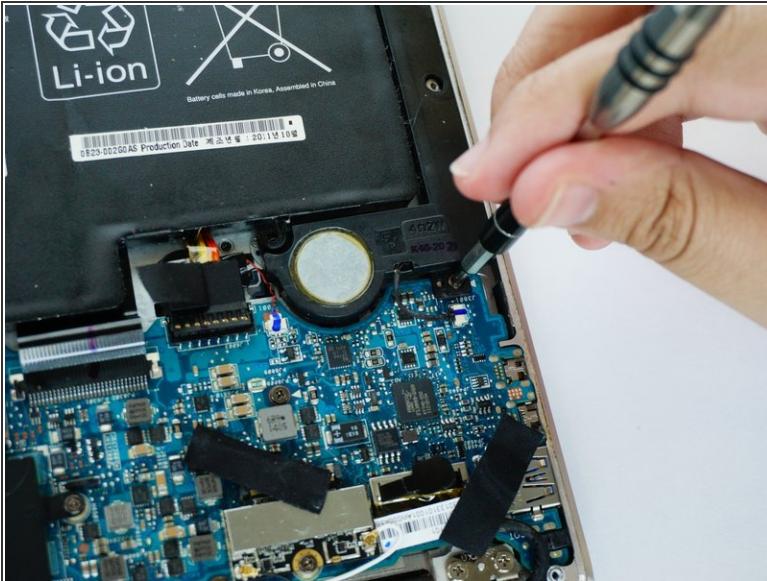
- Using your iFixit Opening Tool, carefully slide it between the back panel.
- Lift the back plate of your ASUS ZenBook UX31E and place it to the side.

Step 3 — Speaker



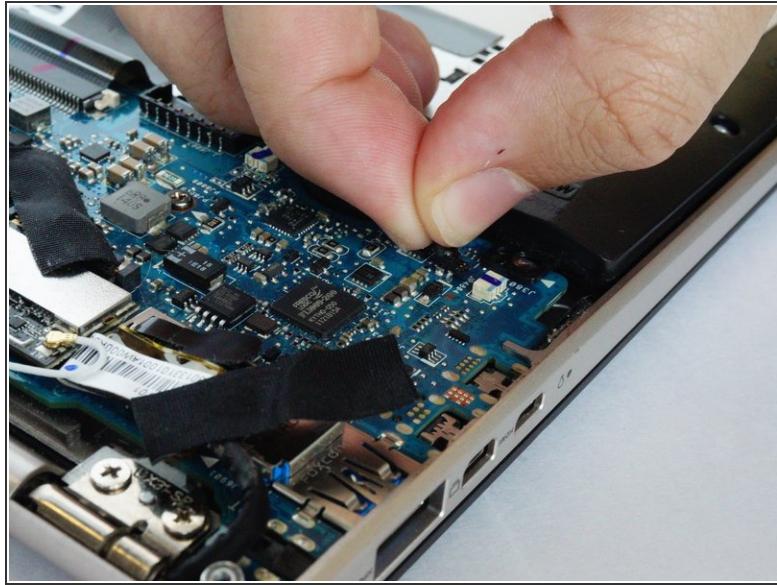
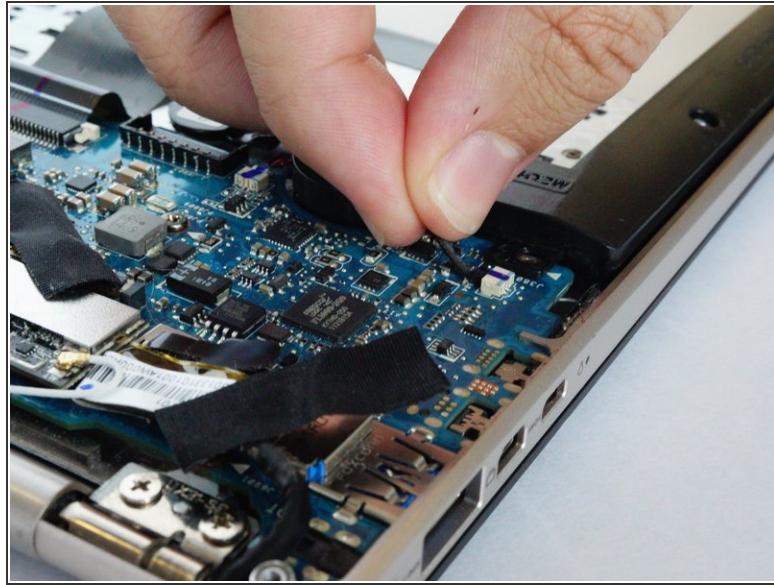
- Use the plastic opening tool to pry the backing of the laptop
- Remove bottom panel of laptop

Step 4



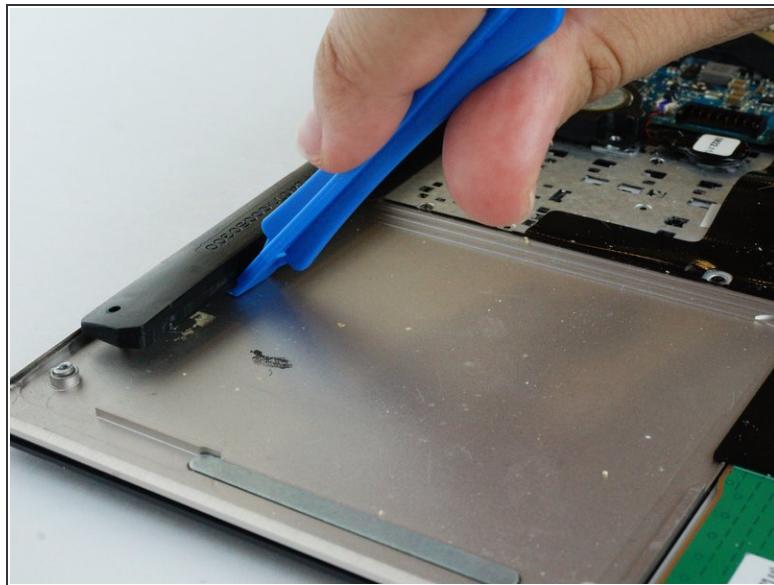
- Remove the screw connecting the speaker component to the motherboard using the screwdriver.

Step 5



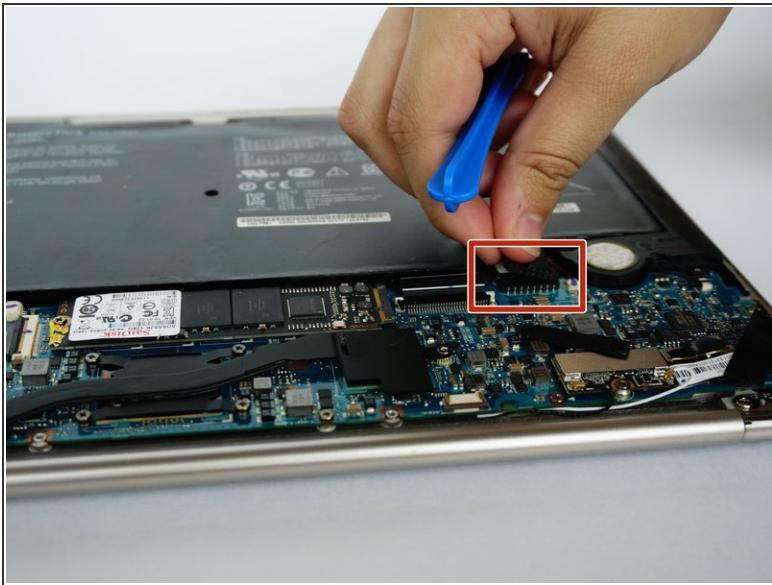
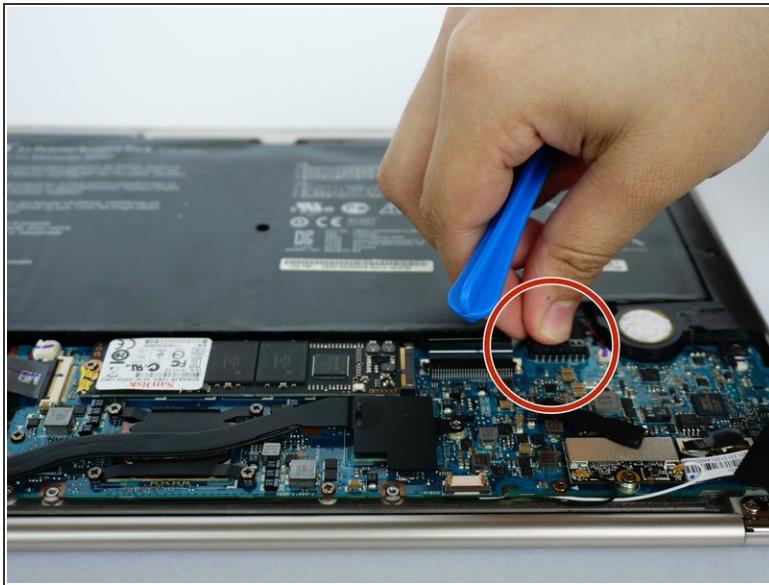
- Disconnect the sound cable from the motherboard.

Step 6



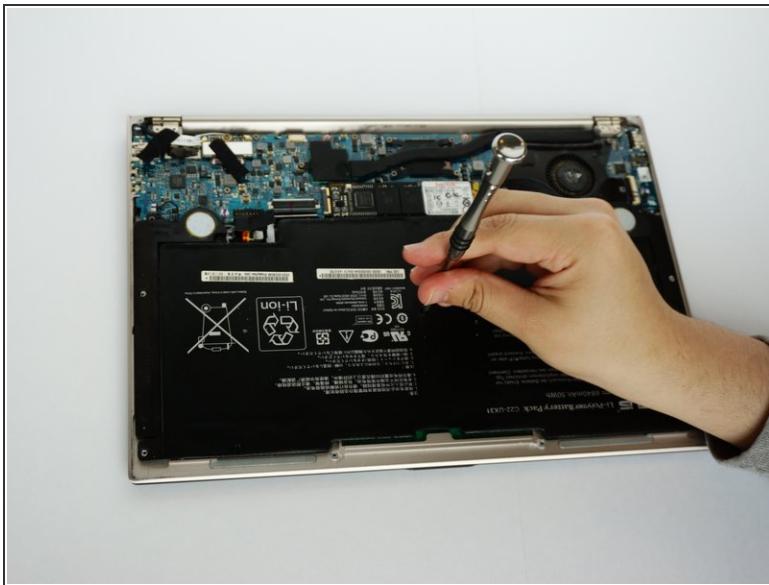
- Using the plastic opening tool, pry the speaker component from the computer.

Step 7 — Battery



- Disconnect the battery from the motherboard by gently pulling up and down on the connector.

Step 8



- Using the Phillips #00 screwdriver, remove the screws from the middle and the two corners of the battery.

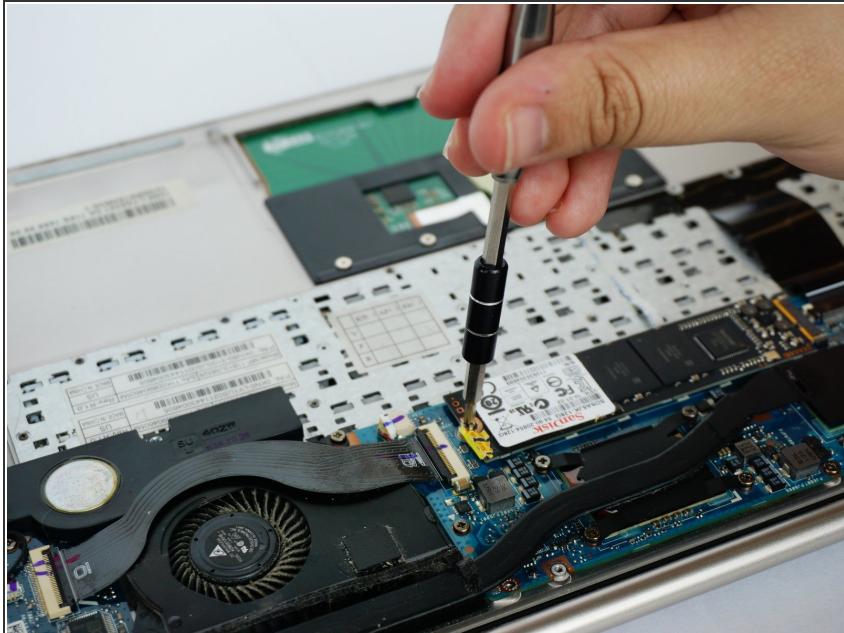
(i) Place the screws into a container as to not lose them.

Step 9



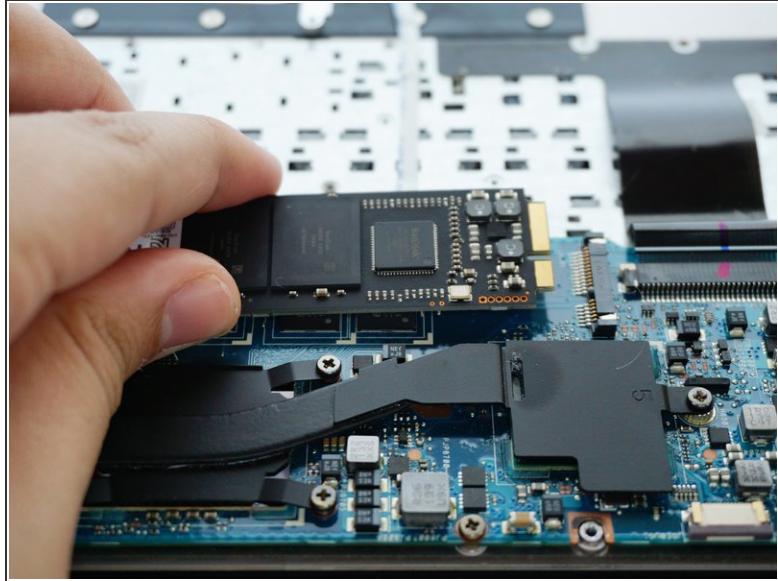
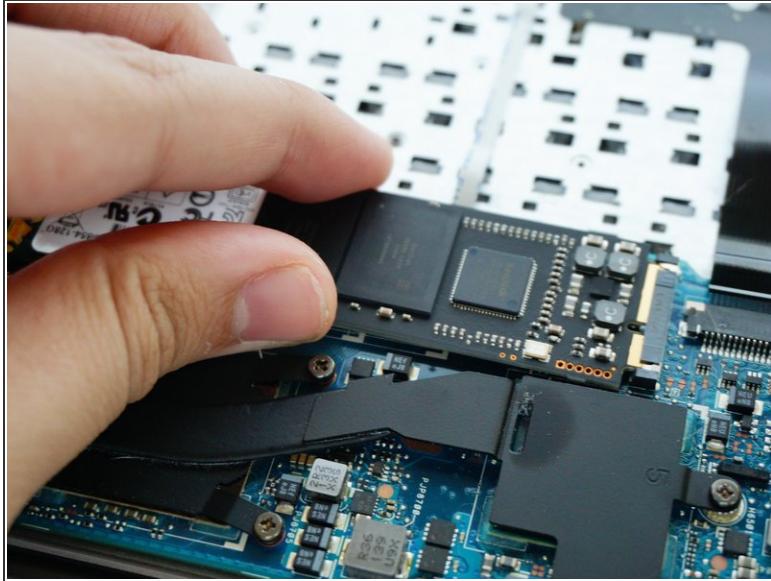
- Remove the battery.

Step 10 — SSD



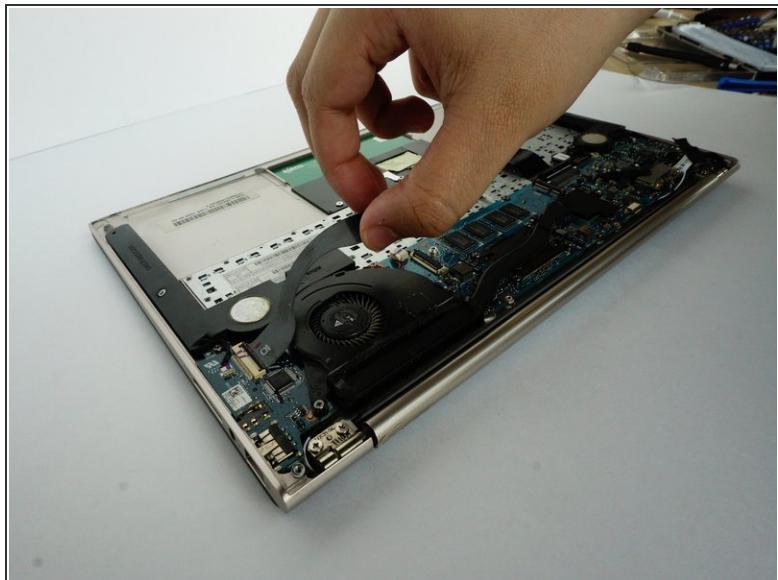
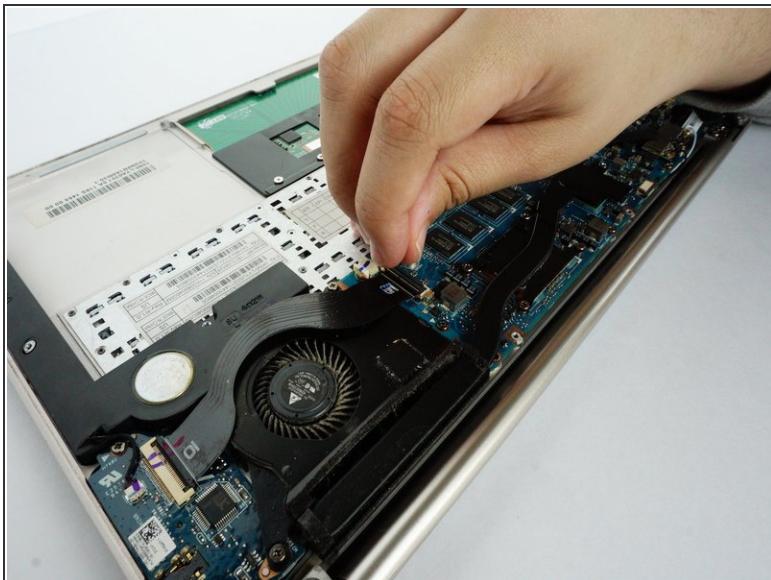
-  Attach your Anti-Static Wrist Wrap to something metal as to not shock your system.
- Peel back the warranty sticker to reveal the screw under it.
- Using your Phillips #00 Precision Screwdriver, unscrew the screw that you just revealed.

Step 11



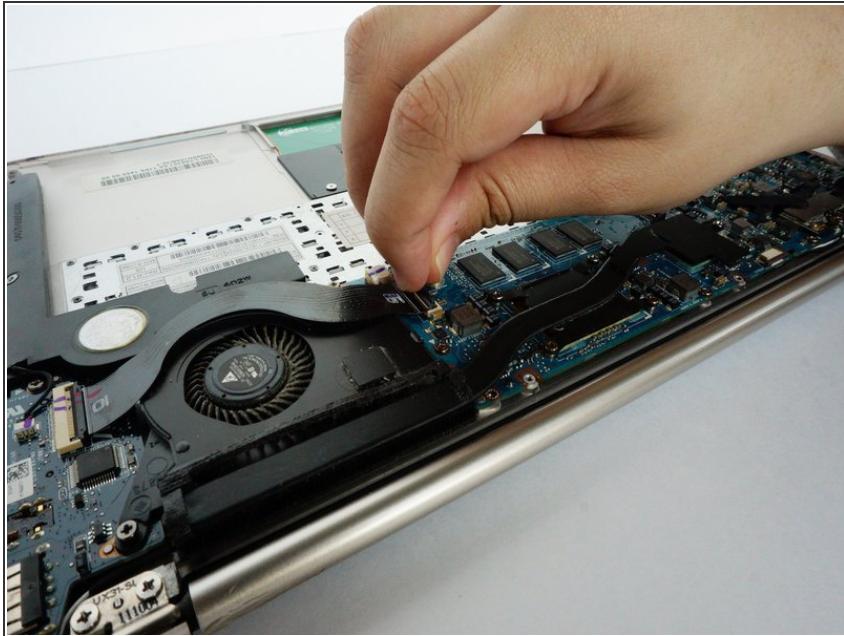
- Using your hand, pull the SSD from its slot.

Step 12 — Fan



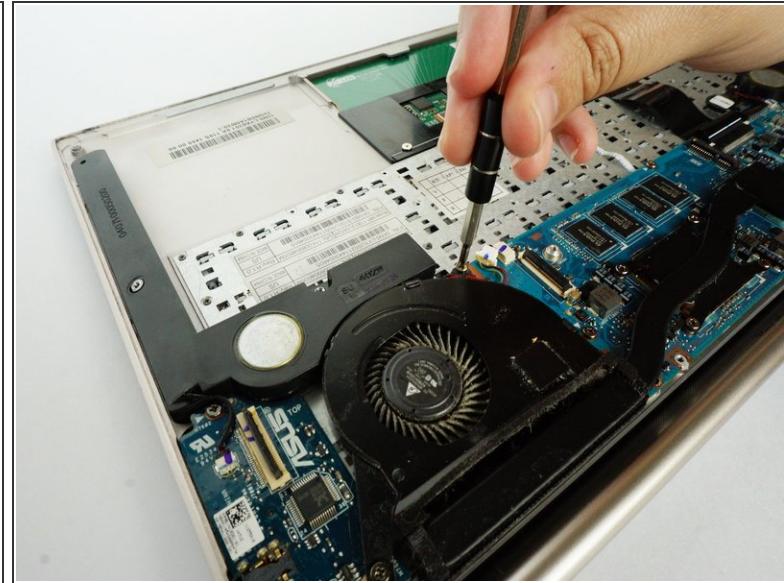
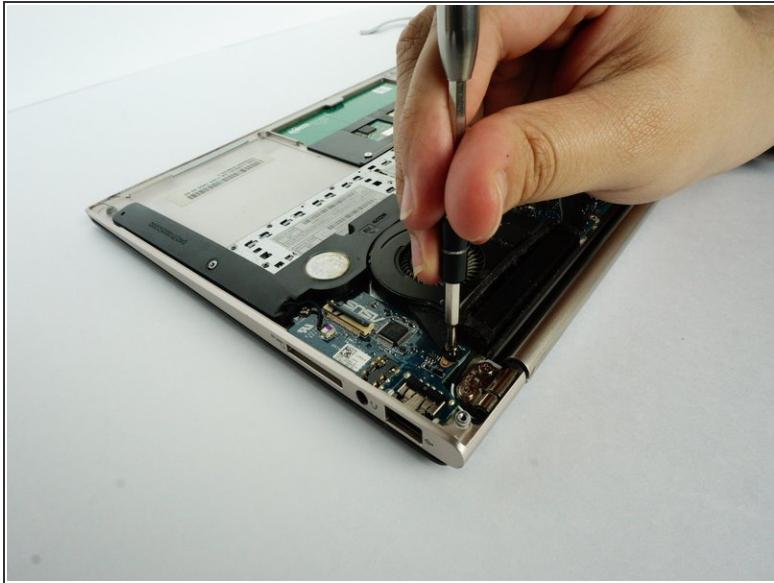
- Disconnect the ribbon between the IO and the motherboard on both sides.

Step 13



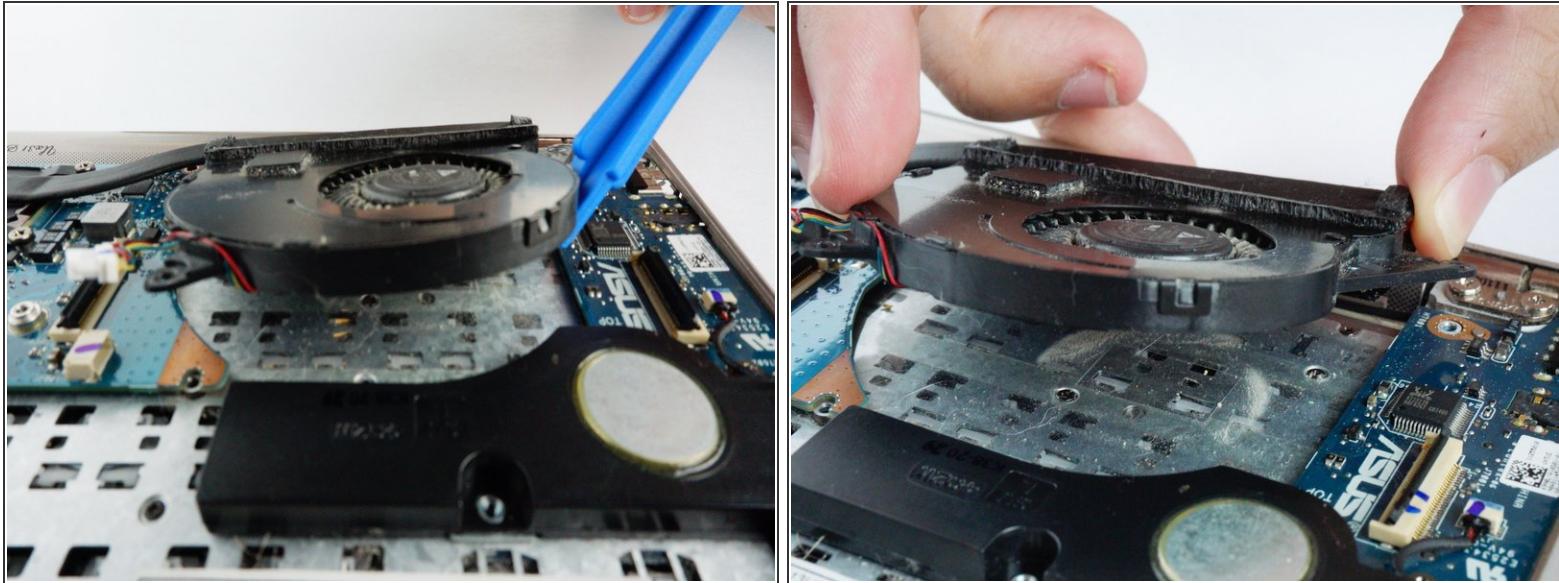
- Disconnect the fan connector from the motherboard.
- Pull up the clips on the ribbon connectors.

Step 14



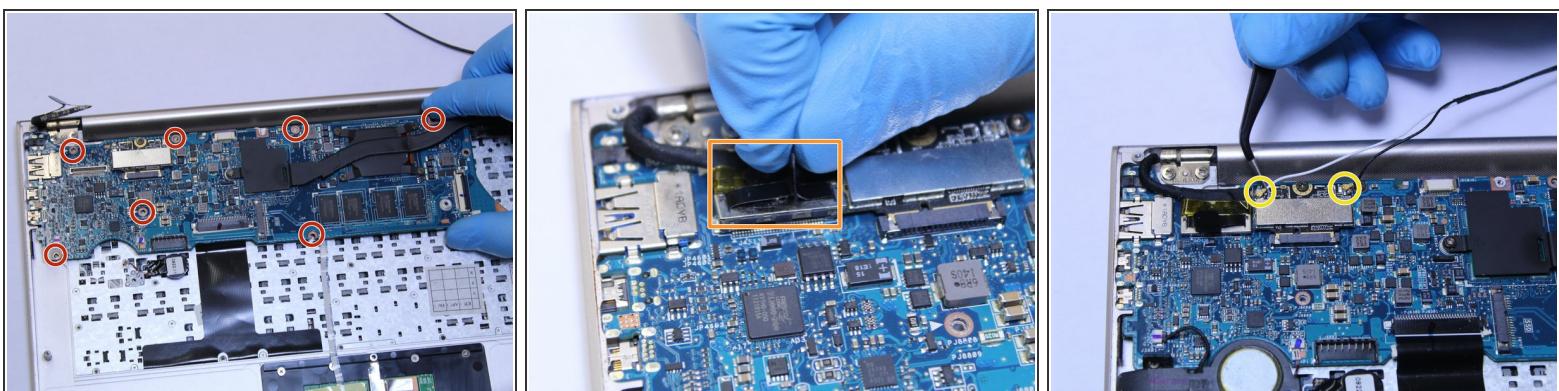
- Unscrew the two screws that are across from each other.

Step 15



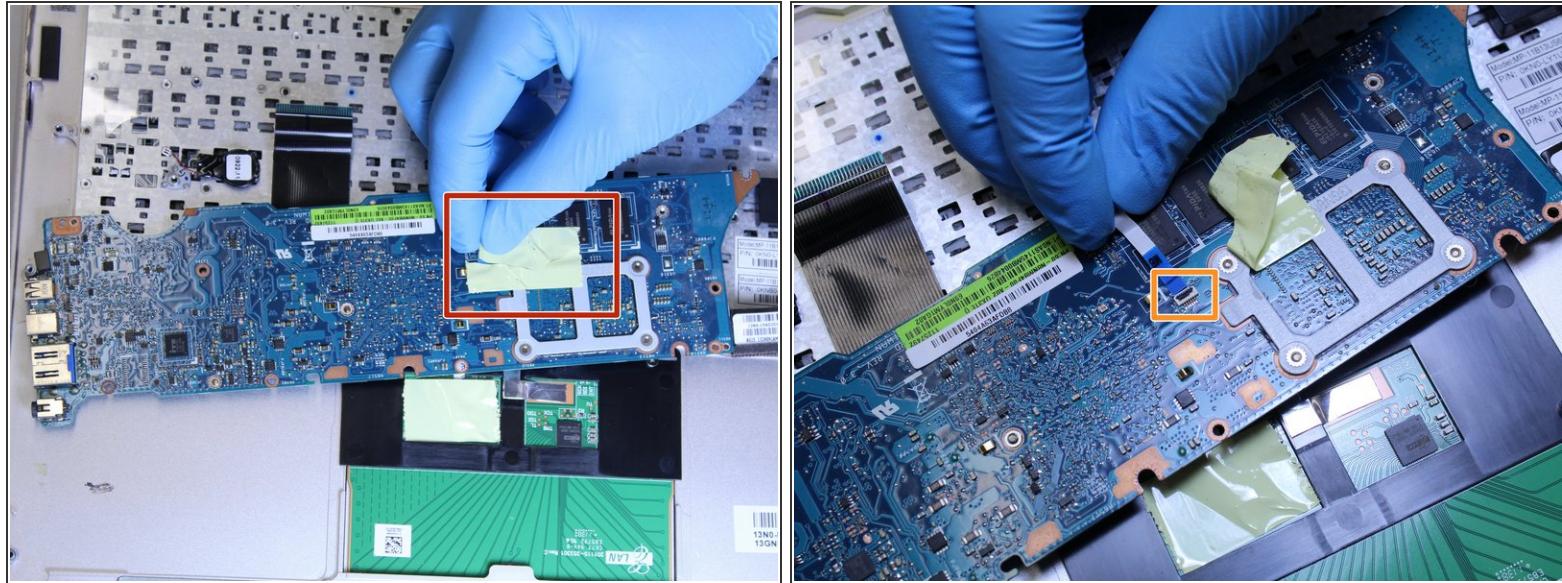
- Using a plastic opening tool, lift the fan off of the laptop.
- You can now use your hands and carefully pull the fan off the laptop.

Step 16 — Motherboard



- Remove the 7 screws holding the motherboard in the case with a Phillips #00 screwdriver.
- Remove the press fit connector attaching the motherboard to the screen.
- Remove the two cables that are still attached to the motherboard. You will need to use needle nose tweezers to remove these.

Step 17



- Lift gently and flip the motherboard over in the direction of the track pad.
- Peel off the the yellow tape.
- Detach the ZIF connector on the underside of the motherboard connecting it to the keyboard.
- Remove the motherboard.

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