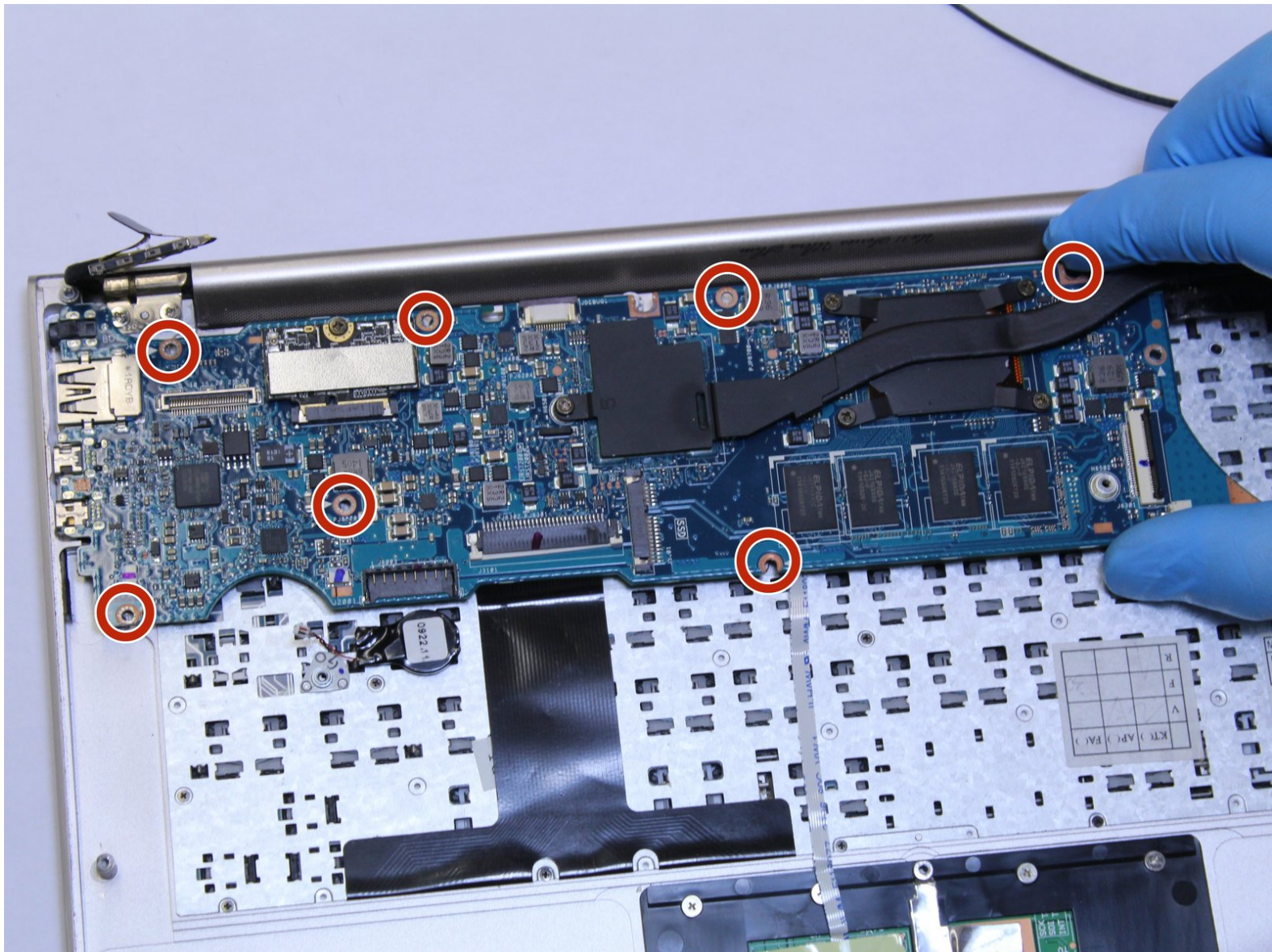




Asus Zenbook UX31E Motherboard Replacement

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

Written By: Ryne Lee Tucker



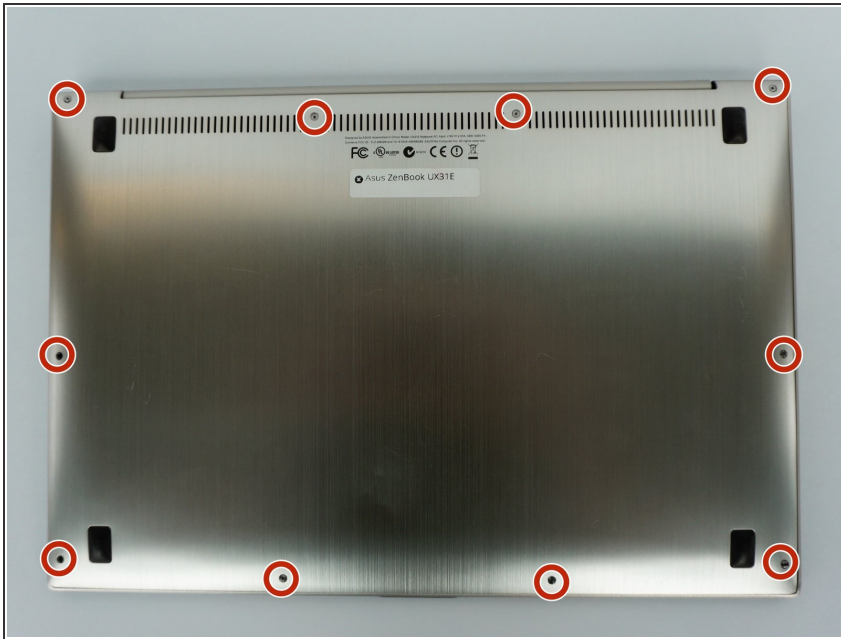
INTRODUCTION

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)
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Step 1 — Back Cover



- Using a T4 Torx screwdriver, remove the ten screws at the marked locations.
- ❗ Place the screws into a container as to not lose them.

Step 2



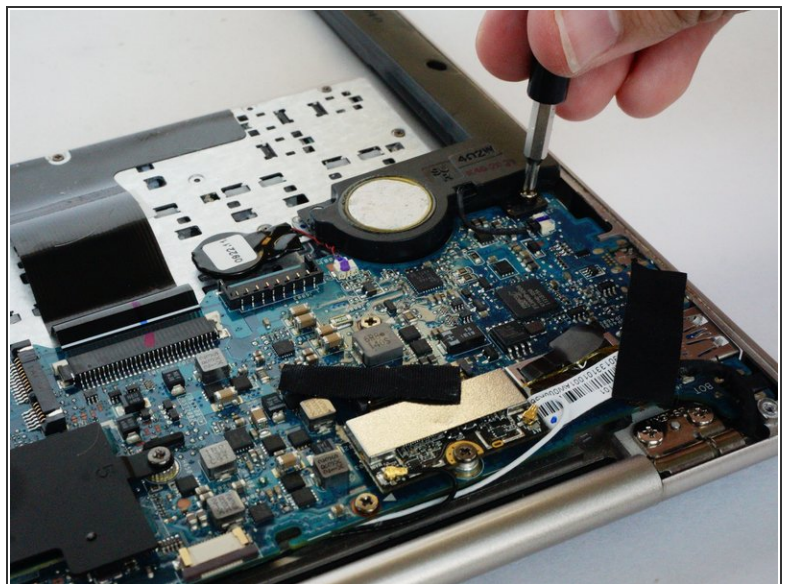
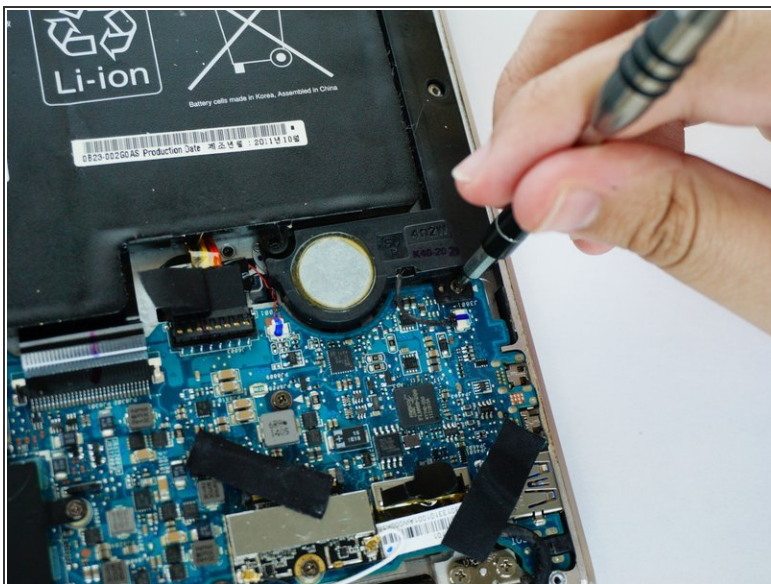
- Using your iFixit Opening Tool, carefully slide it between the back panel.
- Lift the back plate of your ASUS ZenBook UX31E and place it to the side.

Step 3 — Speaker



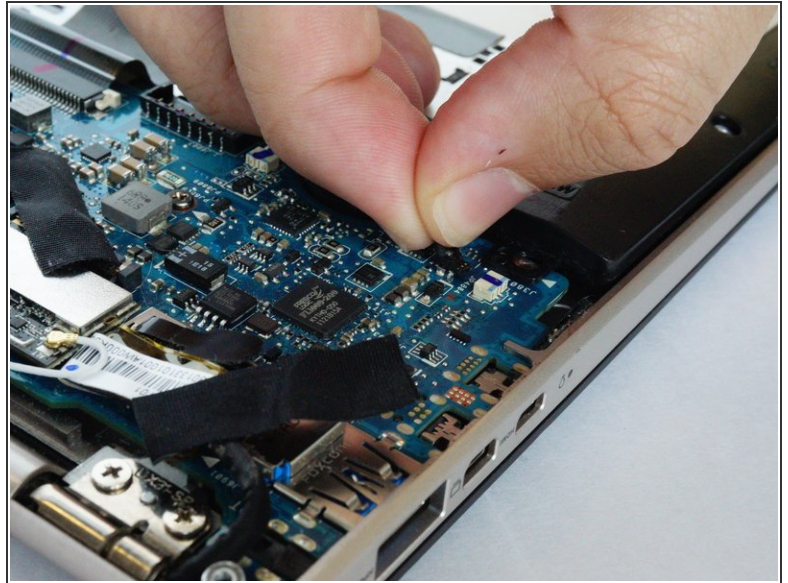
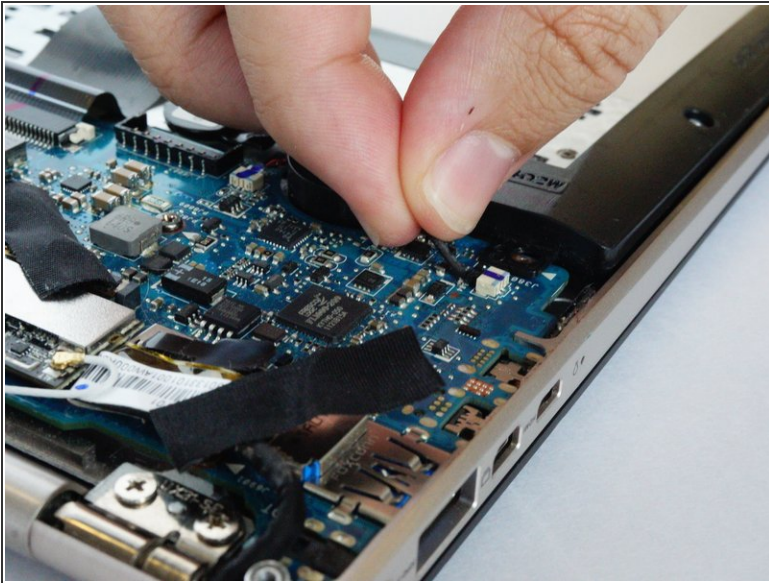
- Use the plastic opening tool to pry the backing of the laptop
- Remove bottom panel of laptop

Step 4



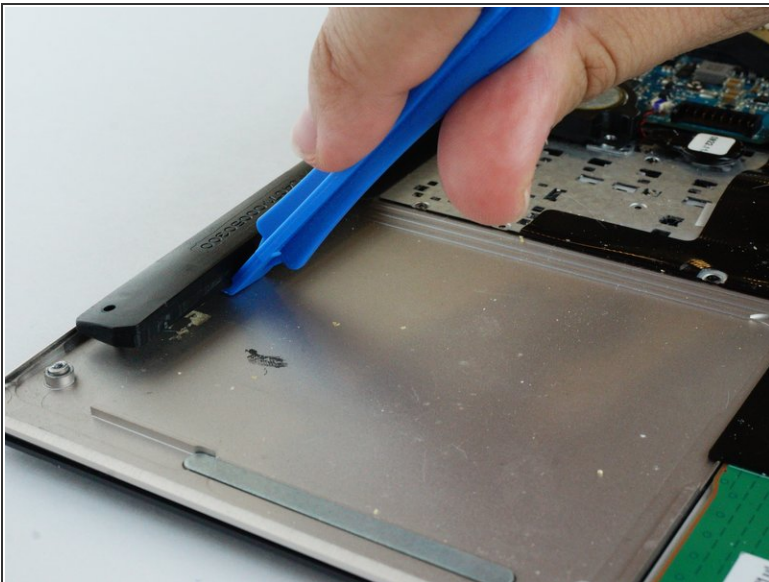
- Remove the screw connecting the speaker component to the motherboard using the screwdriver.

Step 5



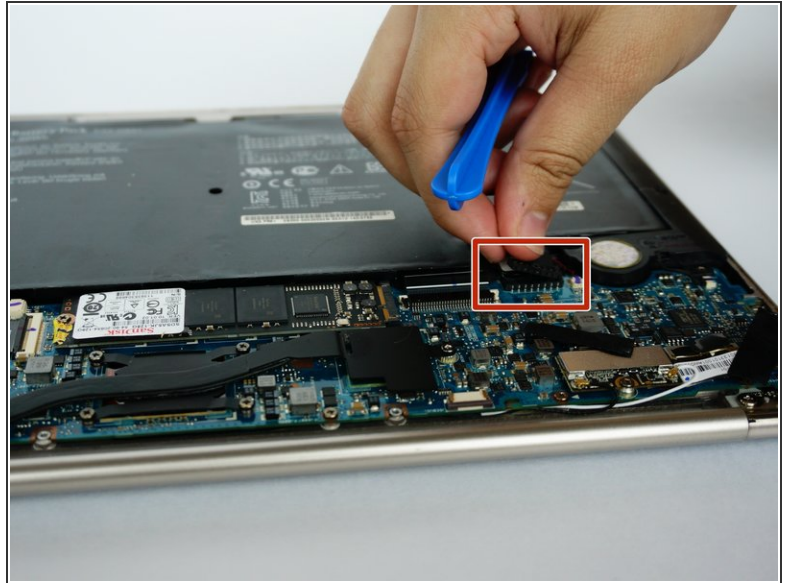
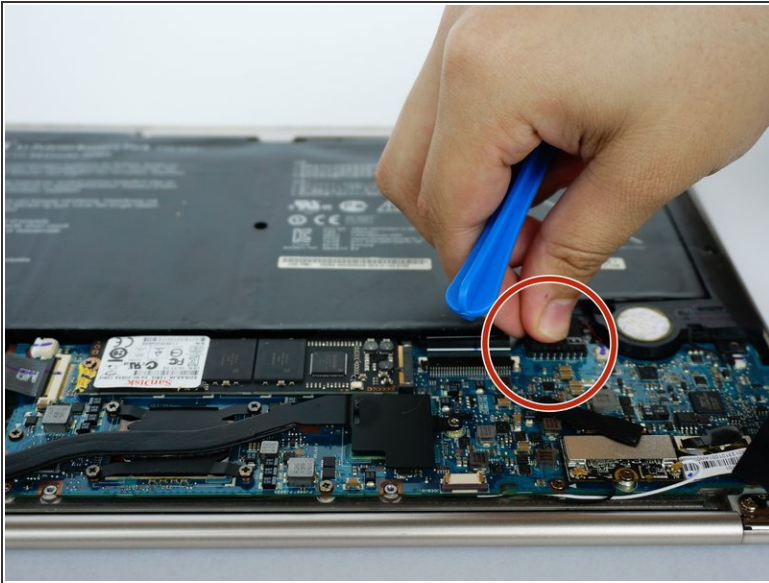
- Disconnect the sound cable from the motherboard.

Step 6



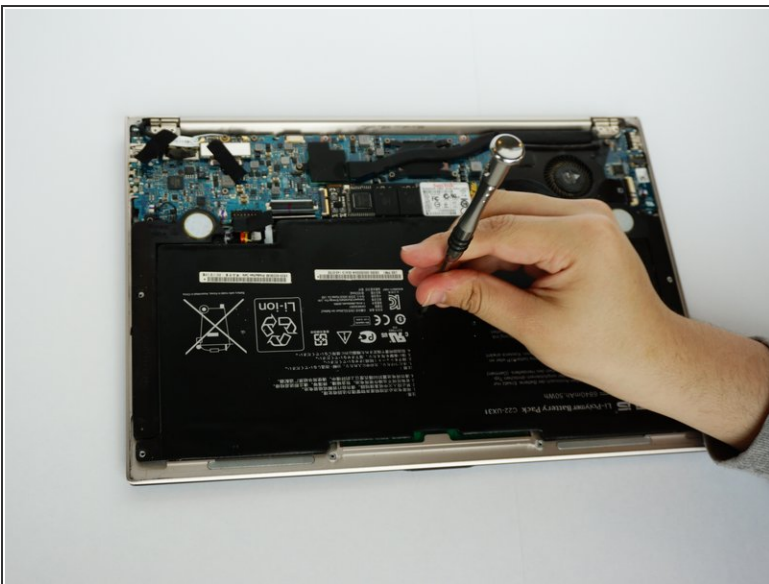
- Using the plastic opening tool, pry the speaker component from the computer.

Step 7 — Battery



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

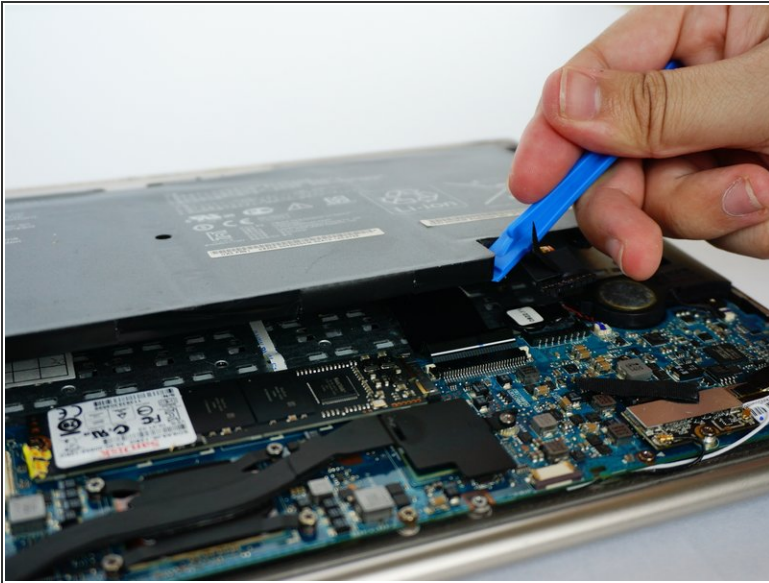
Step 8



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

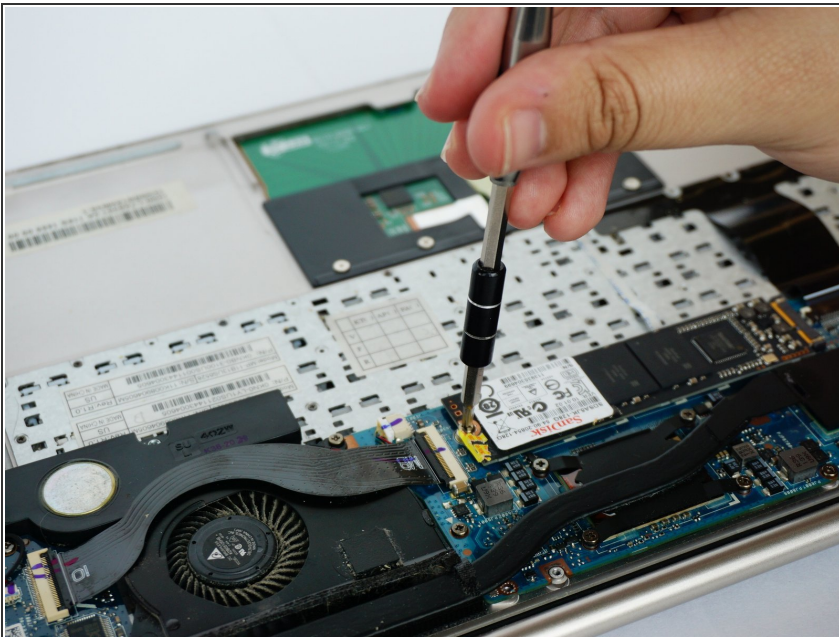
- ① Place the screws into a container as to not lose them.

Step 9



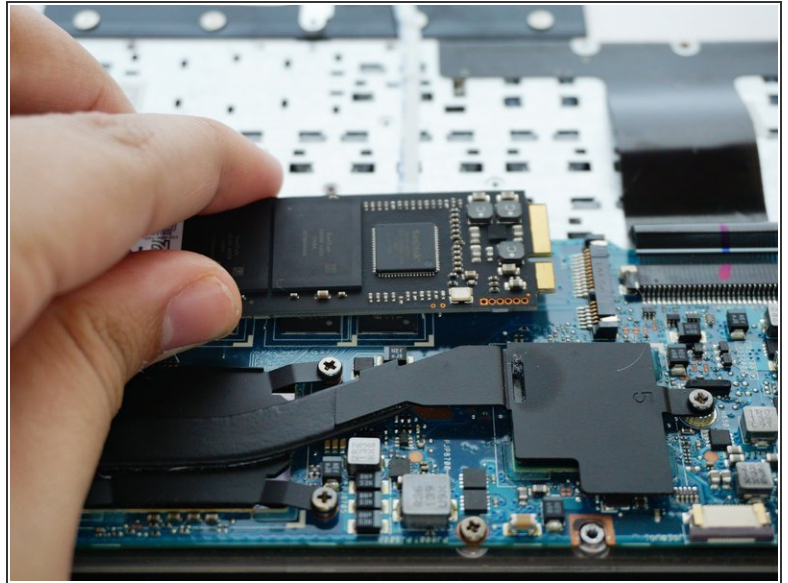
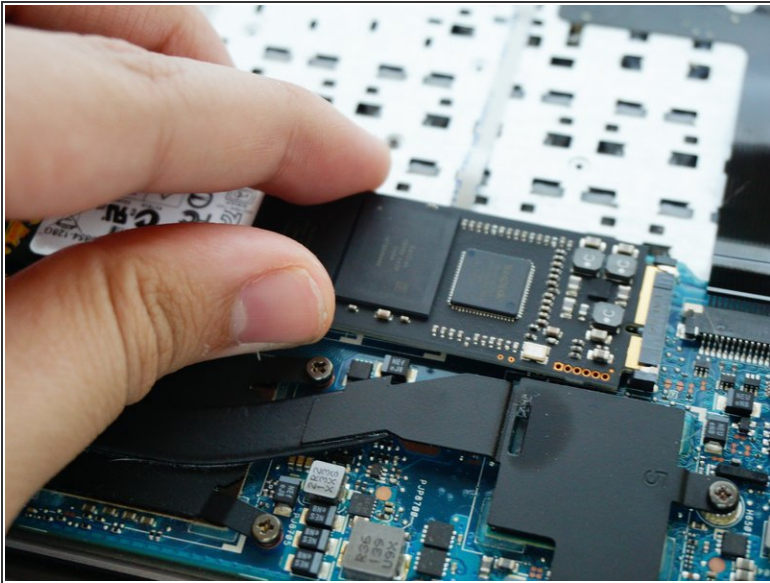
- Remove the battery.

Step 10 — SSD



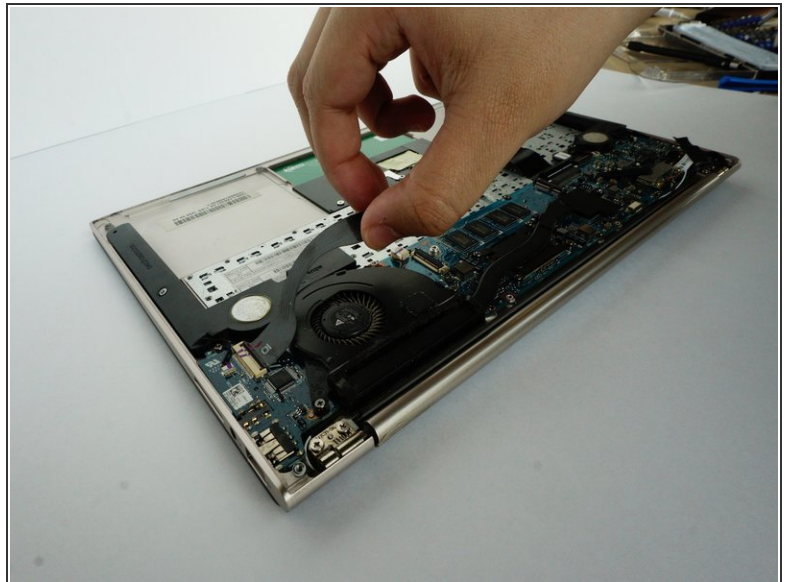
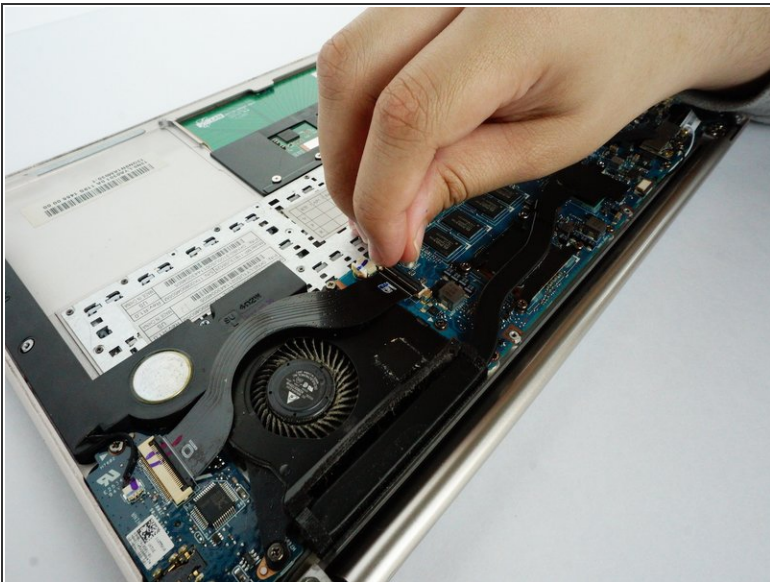
- ☑ Attach your Anti-Static Wrist Wrap to something metal as to not shock your system.
- Peel back the warranty sticker to reveal the screw under it.
- Using your Phillips #00 Precision Screwdriver, unscrew the screw that you just revealed.

Step 11



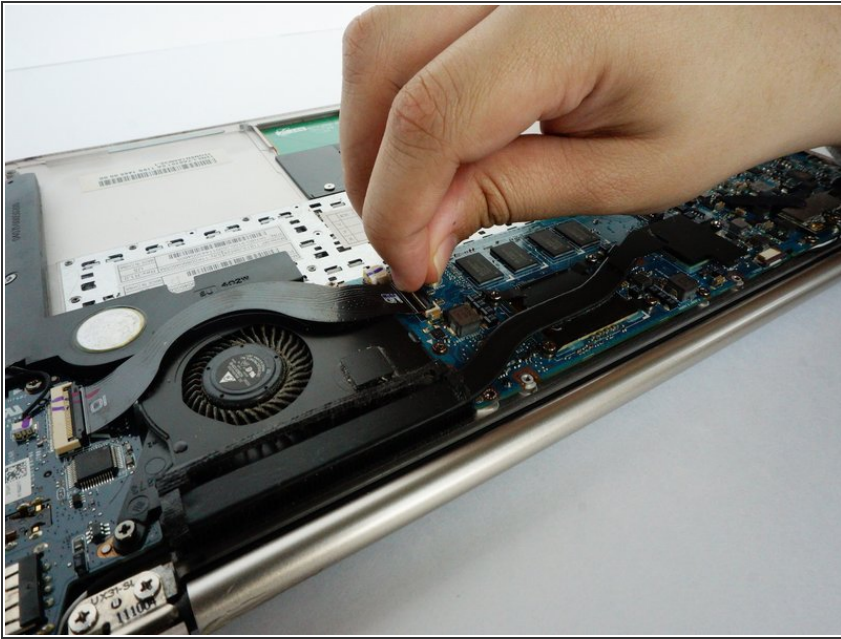
- Using your hand, pull the SSD from its slot.

Step 12 — Fan



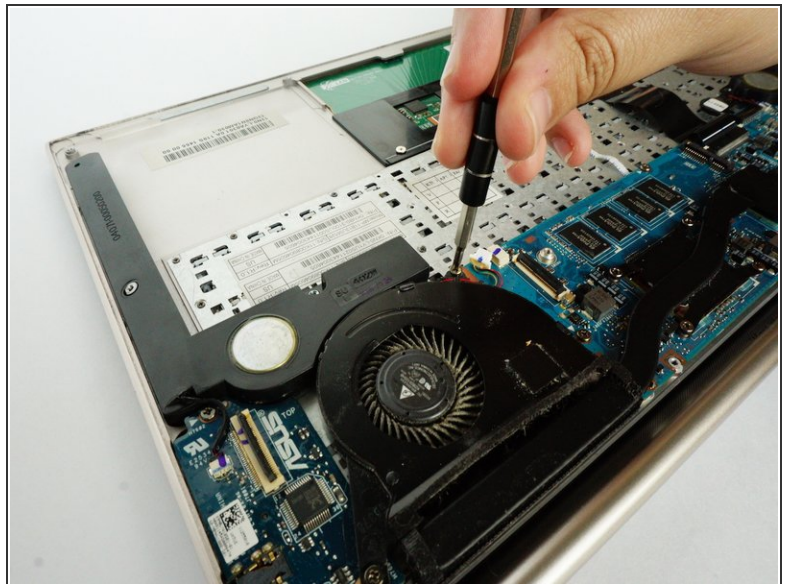
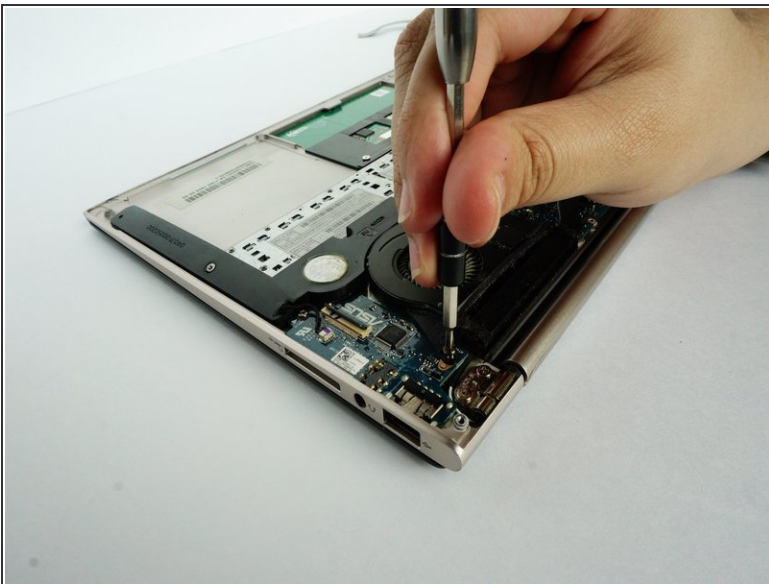
- Disconnect the ribbon between the IO and the motherboard on both sides.

Step 13



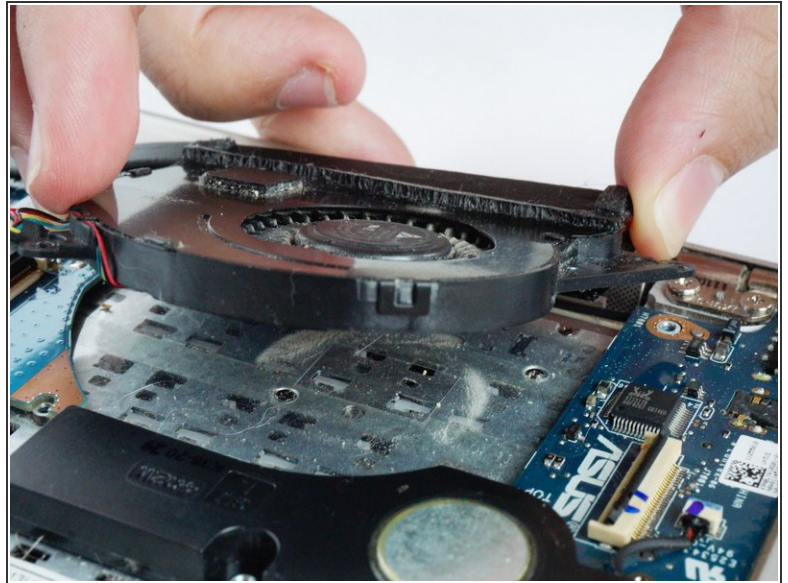
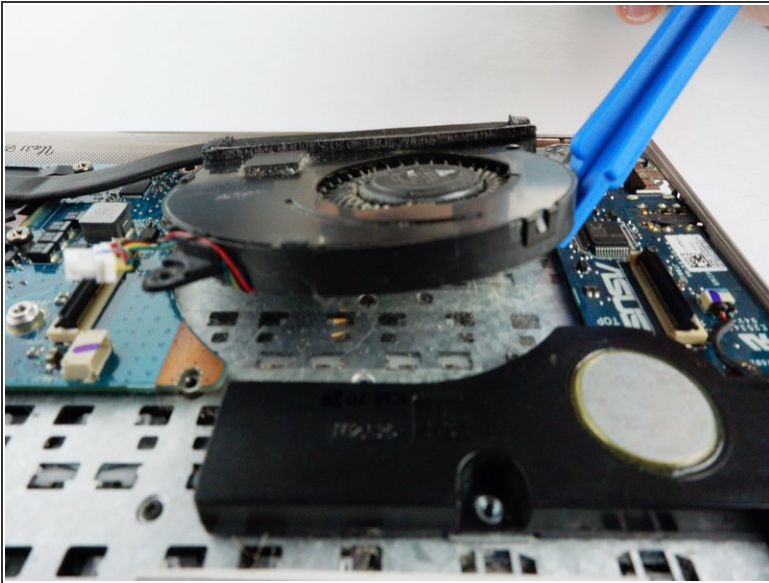
- Disconnect the fan connector from the motherboard.
- Pull up the clips on the ribbon connectors.

Step 14



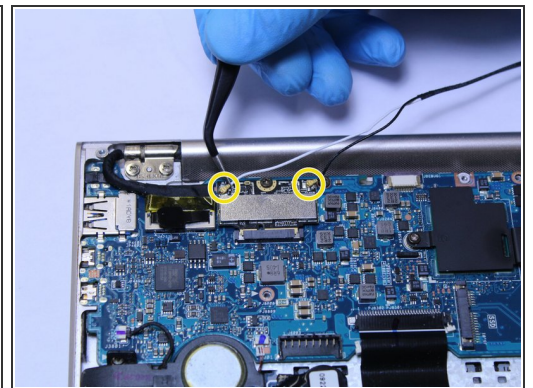
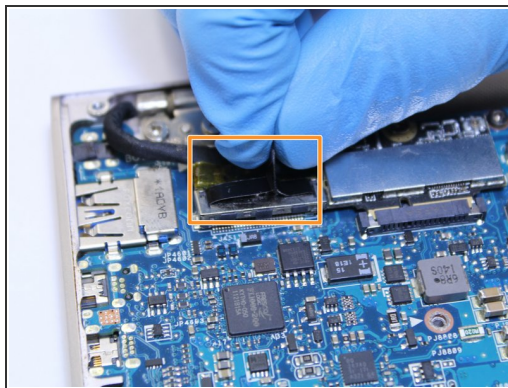
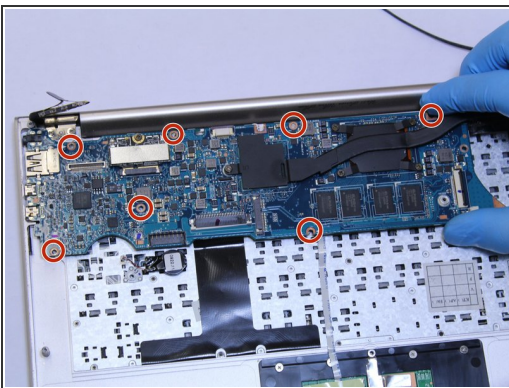
- Unscrew the two screws that are across from each other.

Step 15



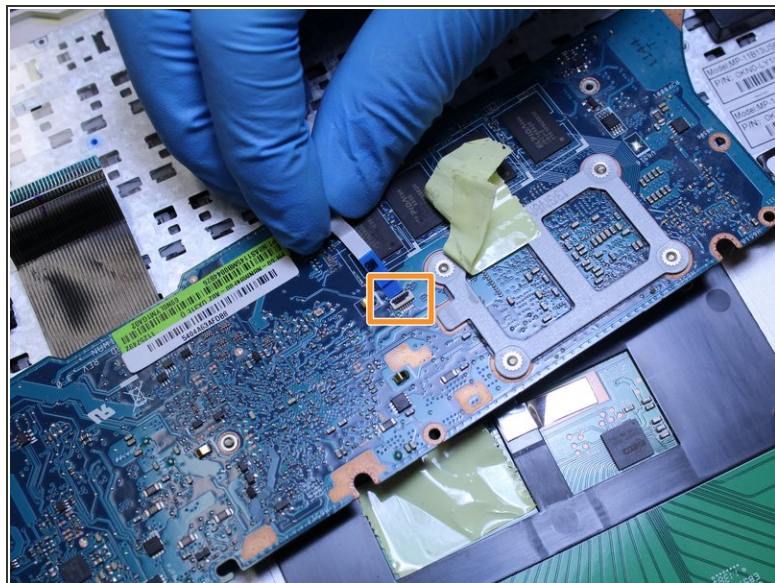
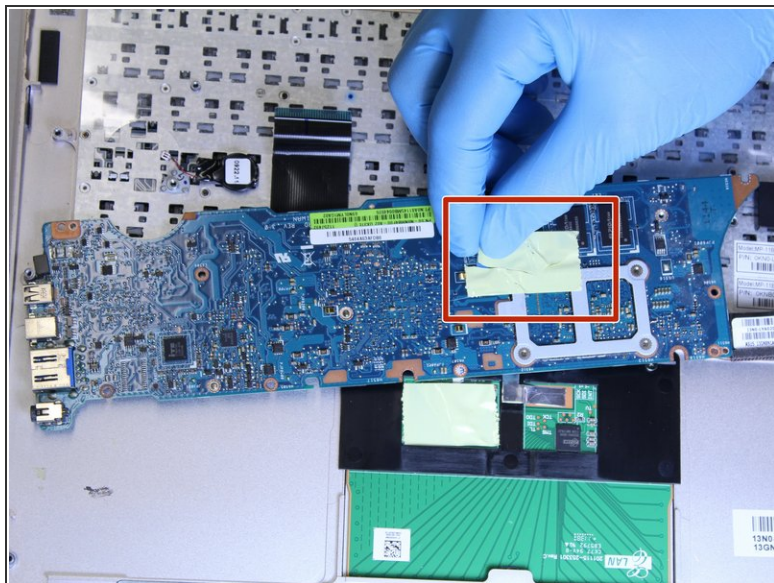
- Using a plastic opening tool, lift the fan off of the laptop.
- You can now use your hands and carefully pull the fan off the laptop.

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.