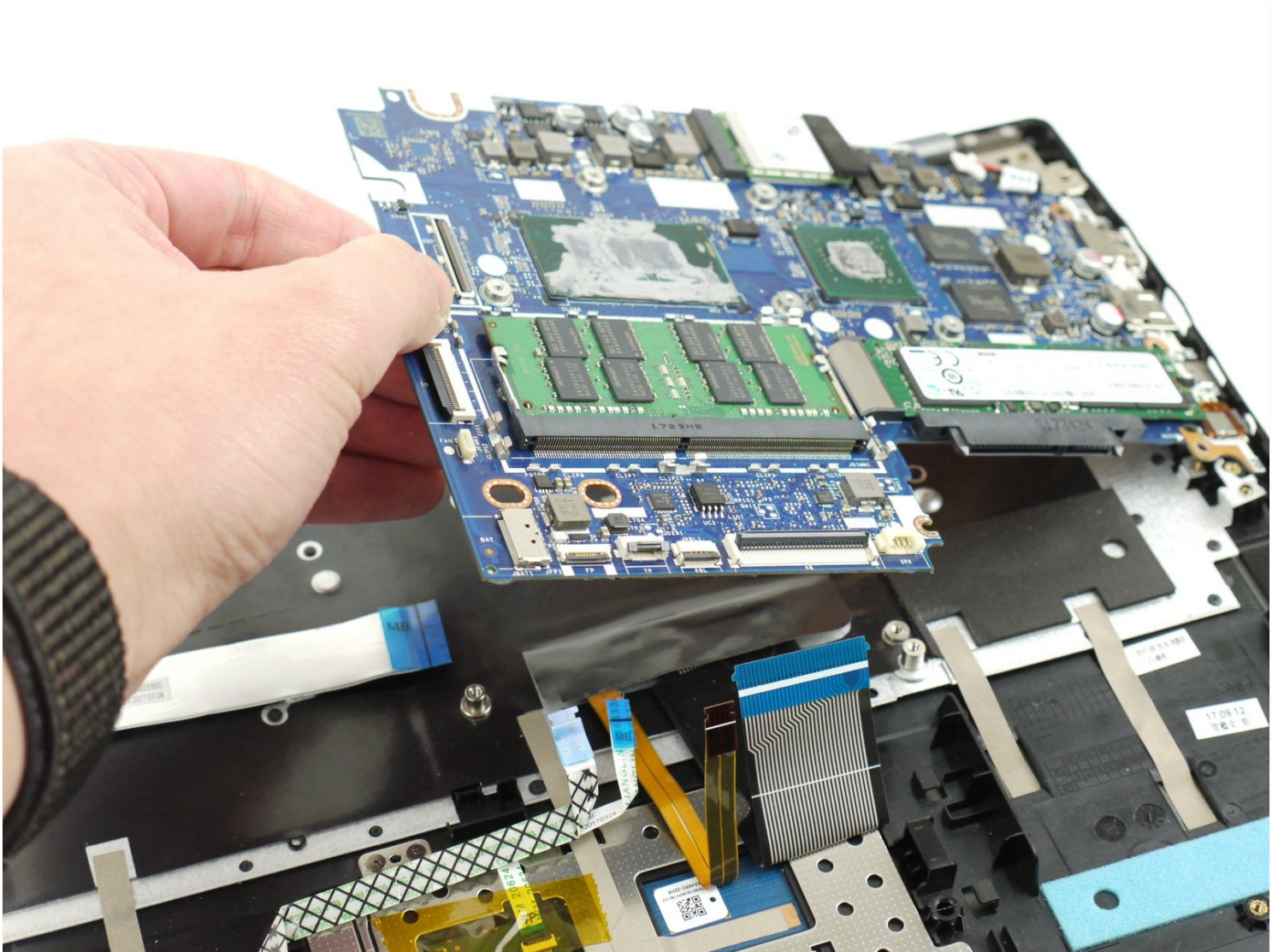




Lenovo IdeaPad Flex 5-1570 Motherboard Replacement

A laptop's most vital component is its...

Written By: Nate Blake



INTRODUCTION

A laptop's most vital component is its motherboard. If your Lenovo IdeaPad Flex 5-1570 starts to experience major issues such as not being able to turn on or starts to smoke/spark this is most likely due to a malfunctioning motherboard. Replacing the motherboard is a task that requires extreme care as it is attached to many other components that you need to remove in advance and if you're not careful you may also damage the computer further. It is critical that when you attempt to replace the motherboard the computer is turned off. Prior to assuming the problem is the motherboard, look at the troubleshooting page for this device to identify that the motherboard is the damaged component. This guide will teach you how to replace a motherboard in the event that it is malfunctioning.



TOOLS:

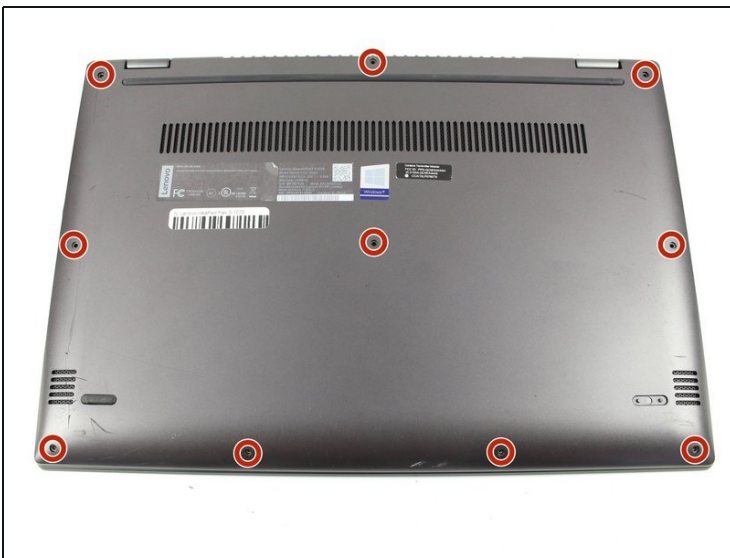
[Spudger](#) (1)
[Nylon Tipped Tweezers](#) (1)
[Soldering Iron](#) (1)
[Lead-Free Solder](#) (1)
[Phillips #00 Screwdriver](#) (1)
[iFixit Opening Tool](#) (1)



PARTS:

[Lenovo Flex 5-1470 and Flex 5-1570 Motherboard](#) (1)
[Lenovo Flex 5-1470 and Flex 5-1570 Heat Sink](#) (1)

Step 1 — Back Panel



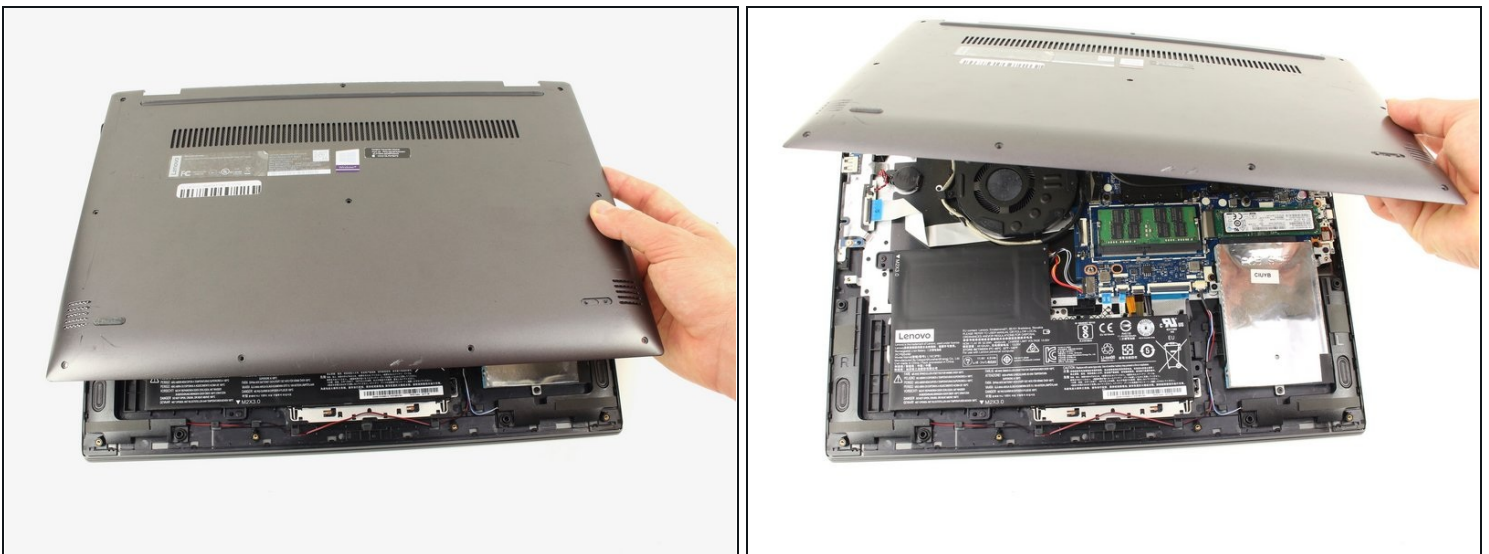
- Remove the ten 5 mm Phillips #00 screws that are holding the back panel on.

Step 2



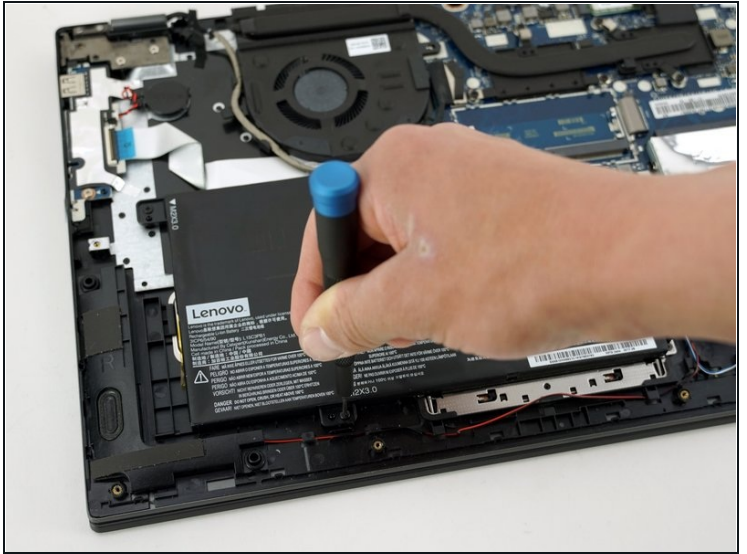
- Use a spudger to pry open the back case at the two hinge cutouts.
- Gently use the plastic opening tool around the edges of the laptop to pry up the clips holding the rest of the back panel.

Step 3



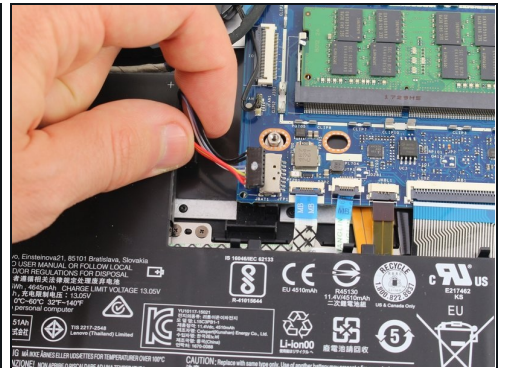
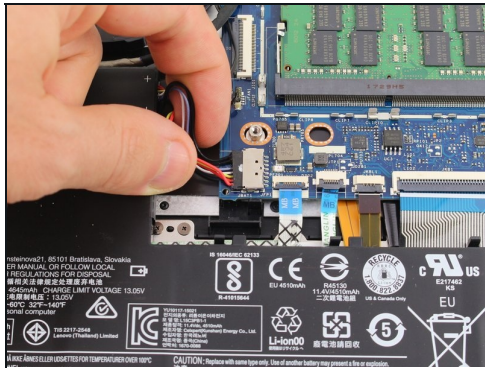
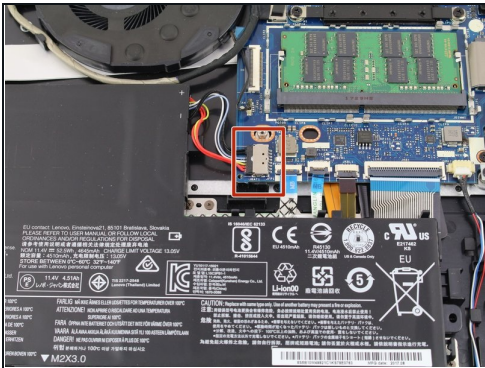
- Once all the clips have been disengaged, lift off the back cover.

Step 4 — Battery



- Remove the two 5 mm Phillips #00 screws that secure the battery in place.

Step 5

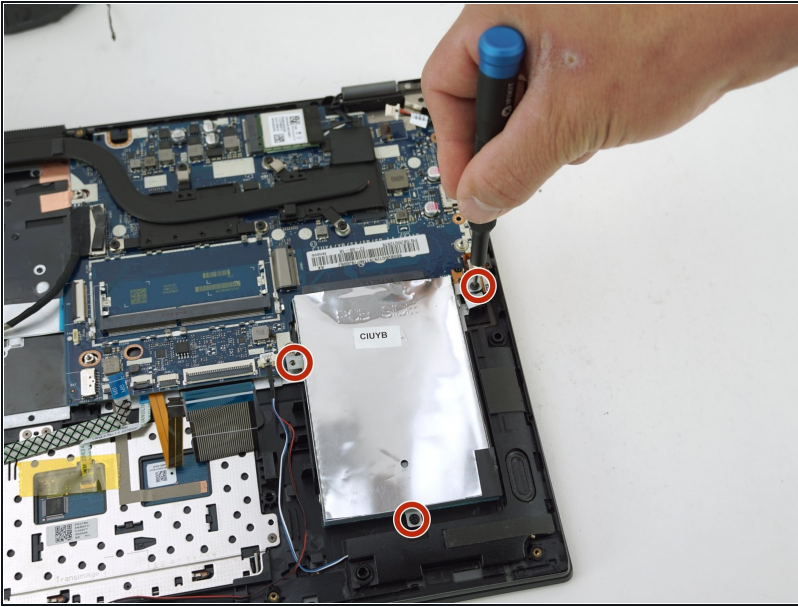


- Using your fingers, grasp the entire bundle of wires to pull the battery cable from its connector. This will cut off power to the motherboard.

⚠ Be sure to apply even pressure across the wires and connector to not damage the battery cable.

- Remove the battery from the device.

Step 6 — Hard Drive



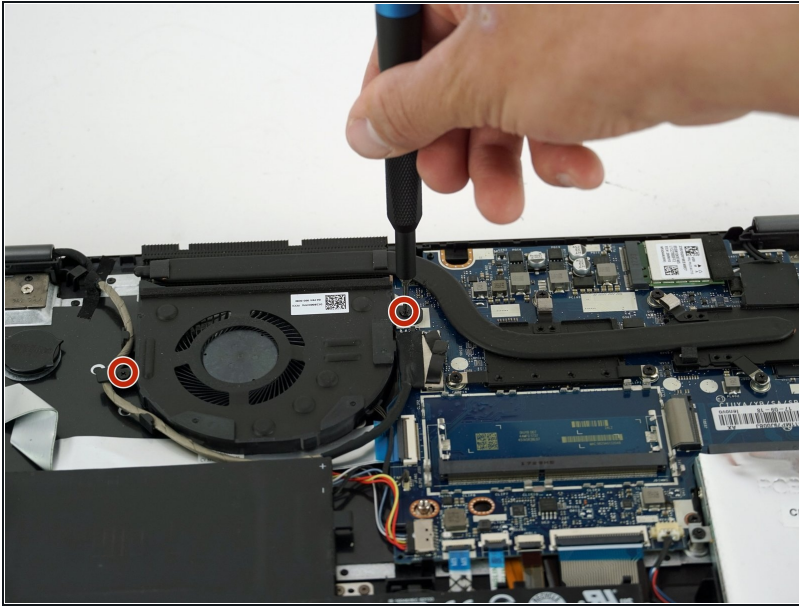
- Remove the three 5 mm Phillips #00 screws that secure the hard drive.

Step 7



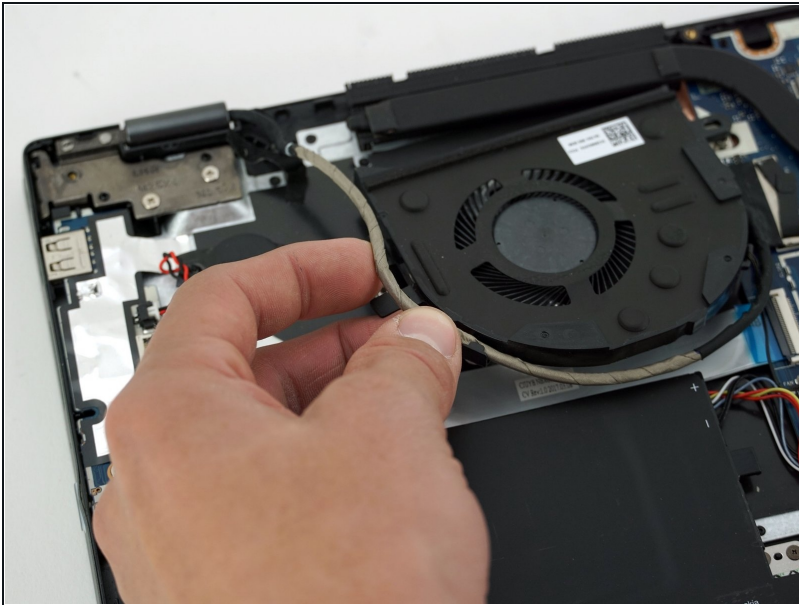
- Using your hands, gently pull the hard drive back, sliding it out from the port.

Step 8 — Fan



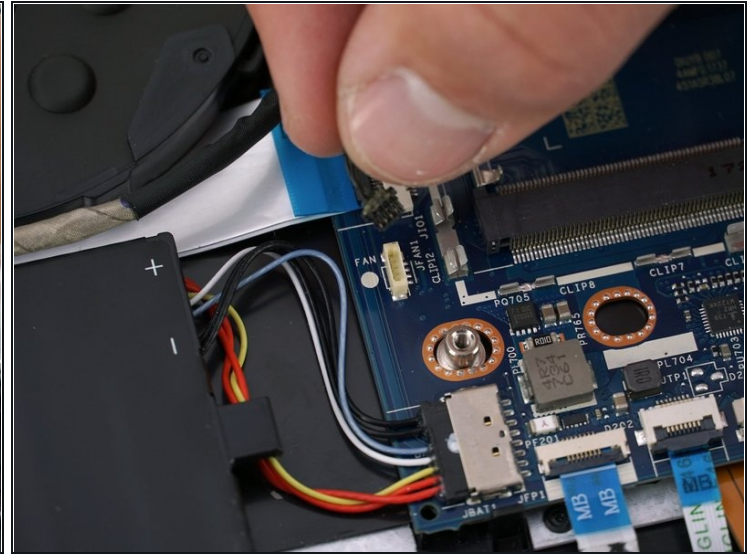
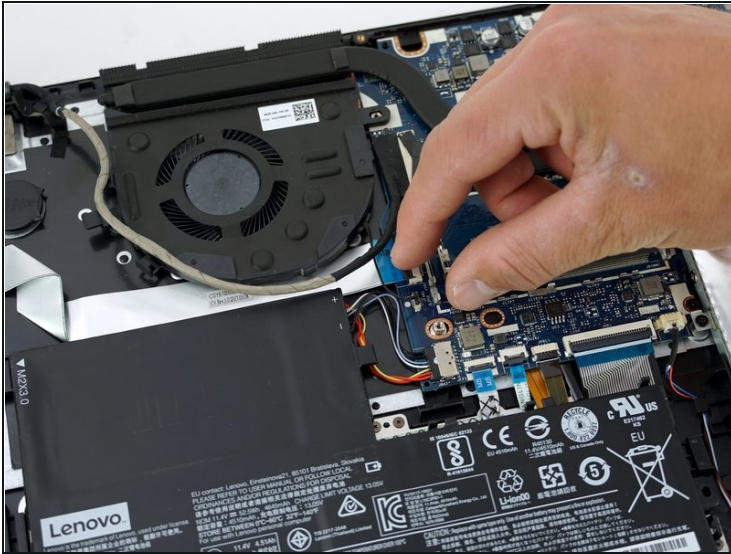
- Remove the two 5 mm Phillips #00 screws that secure the fan in place.

Step 9



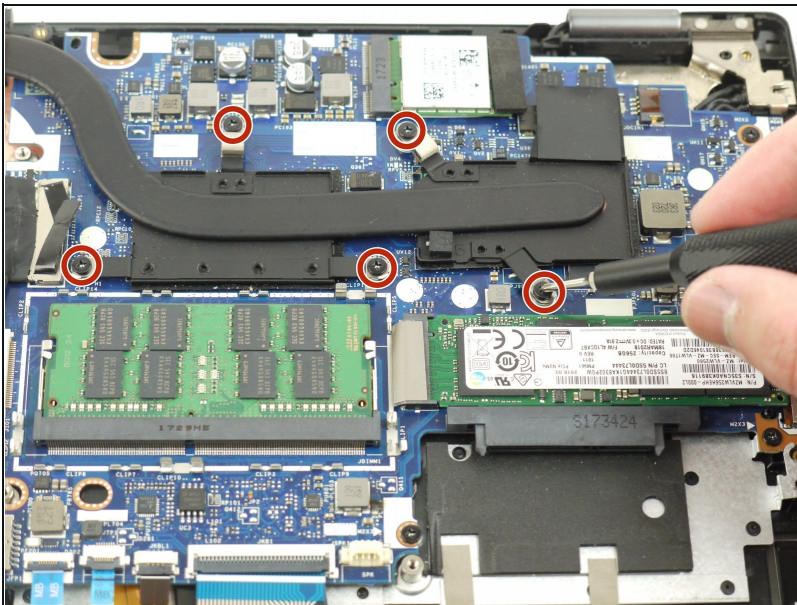
- Using your hands, remove the wire that is wrapped around the base of the fan.

Step 10



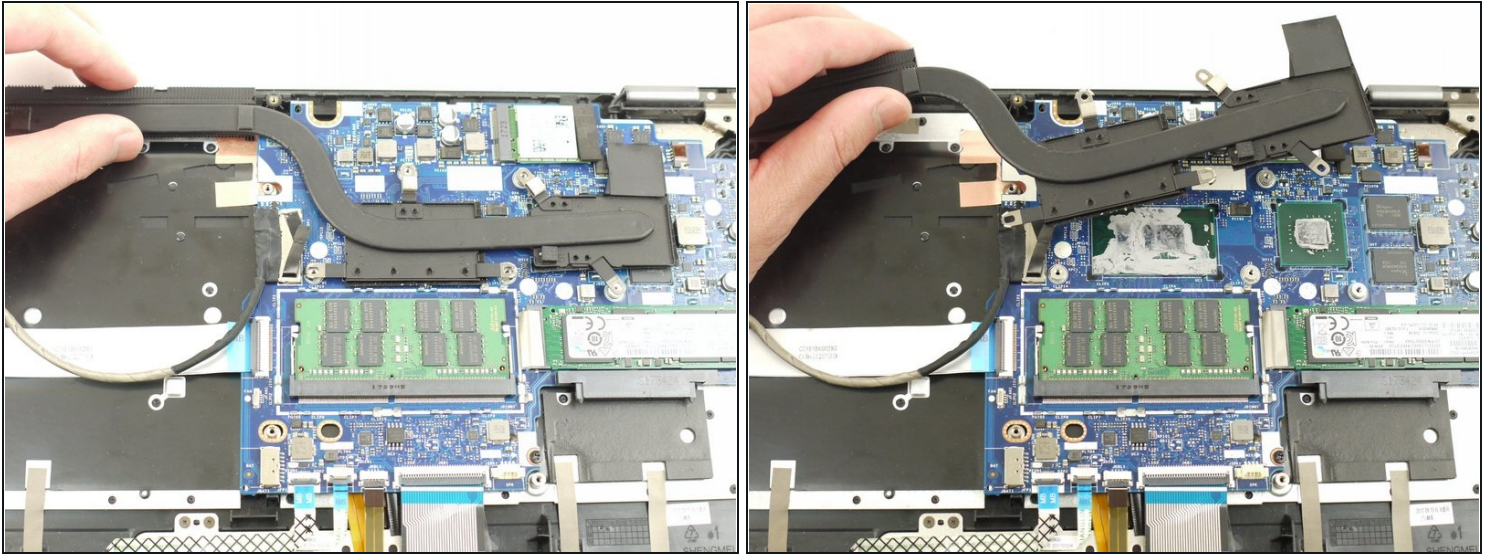
- Disconnect the wire holding the fan and the motherboard together.
- Remove the fan from the device.

Step 11 — Heatsink



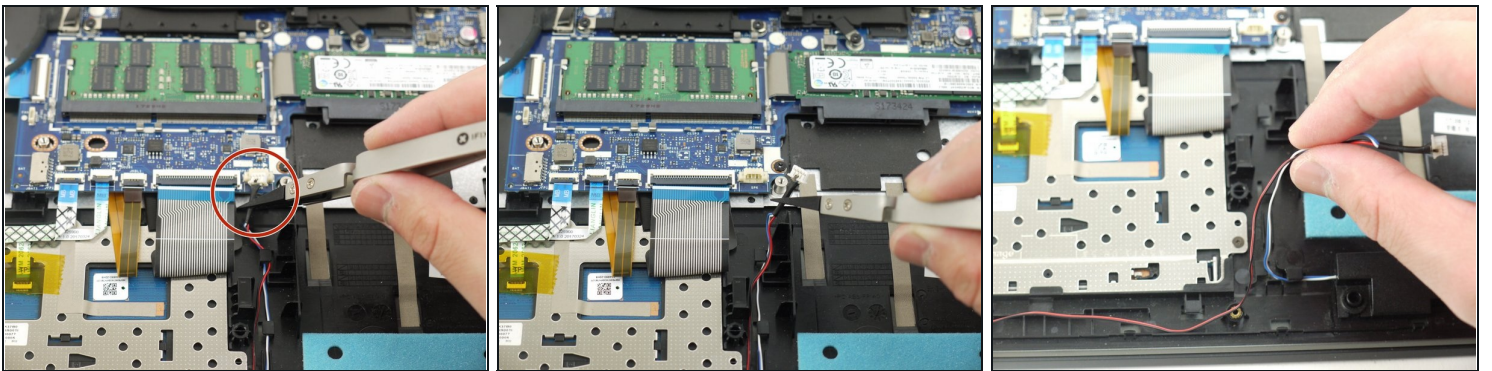
- Using the Phillips #00 screwdriver, remove five 5 mm screws.
- ① For proper screwdriver technique, please visit the [Screwdriver Best Practices guide](#).

Step 12



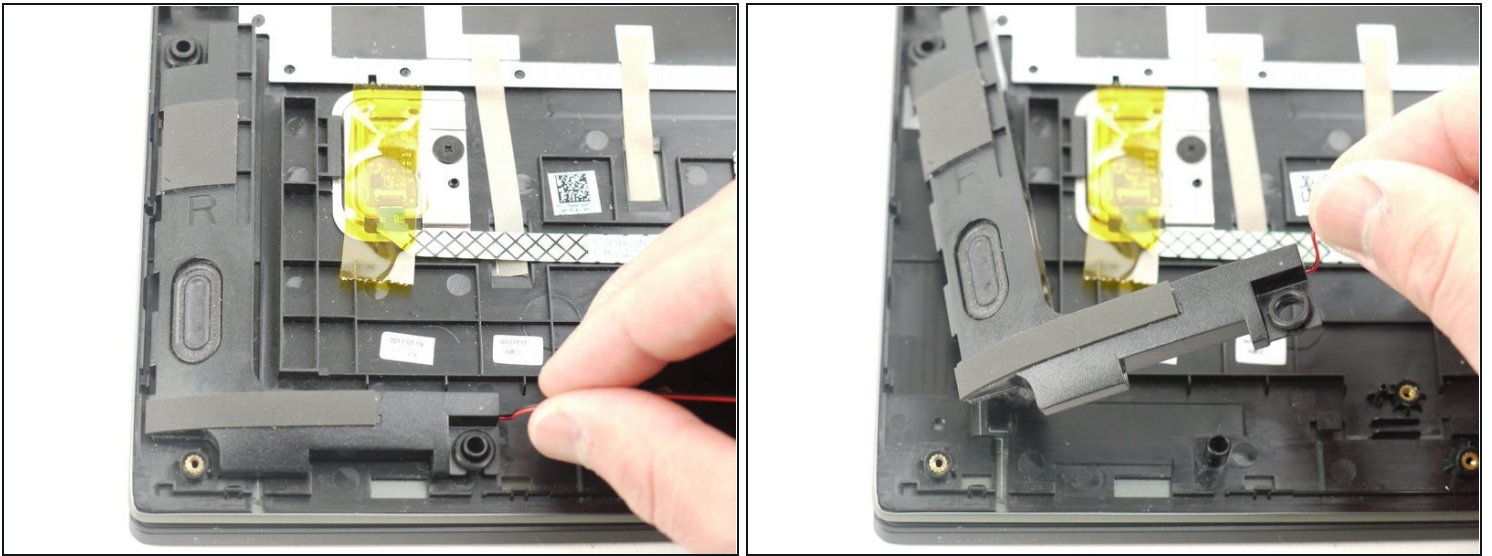
- Carefully remove the heatsink from the device.
- ☑ During reassembly, don't forget to apply thermal paste onto the heatsink. For proper technique on thermal paste application, please visit the [How to Apply Thermal Paste guide](#).

Step 13 — Speakers



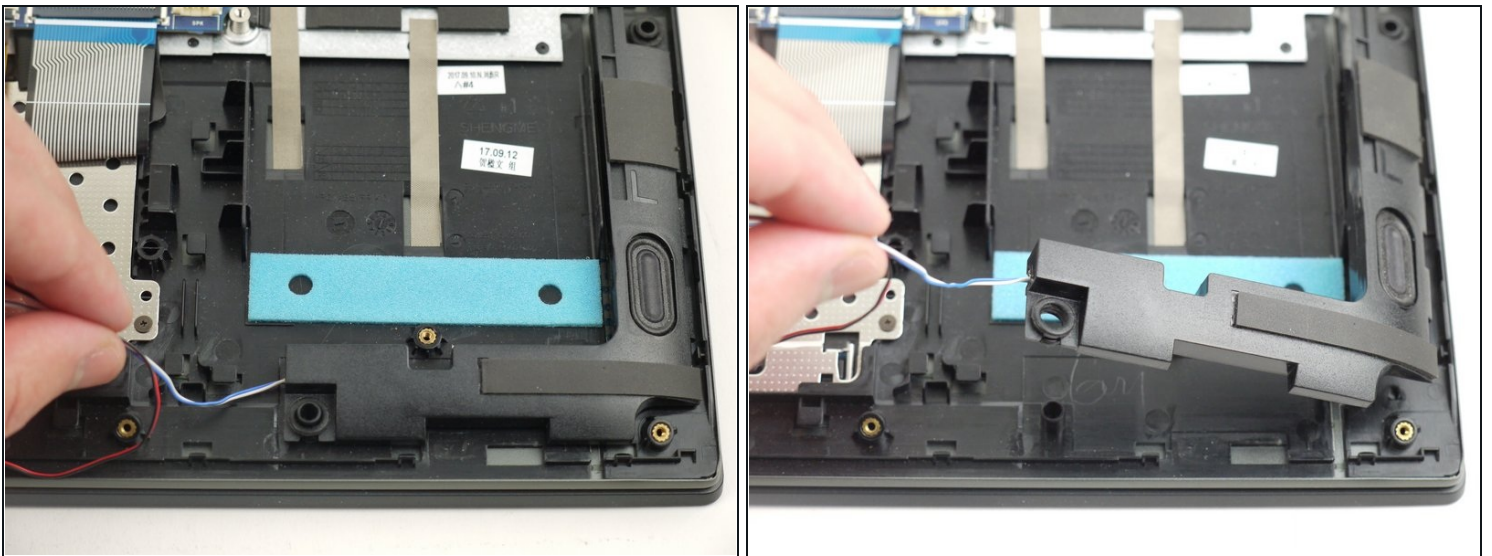
- Using the iFixit nylon tipped tweezers, disconnect the wire that connects the speakers to the motherboard.

Step 14



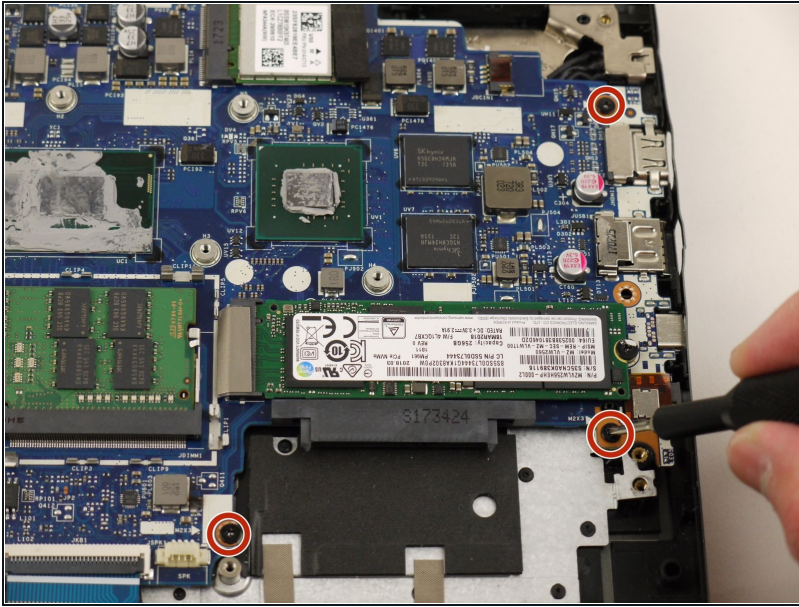
- Using your hands, gently pull the left speaker up and out of the device.

Step 15



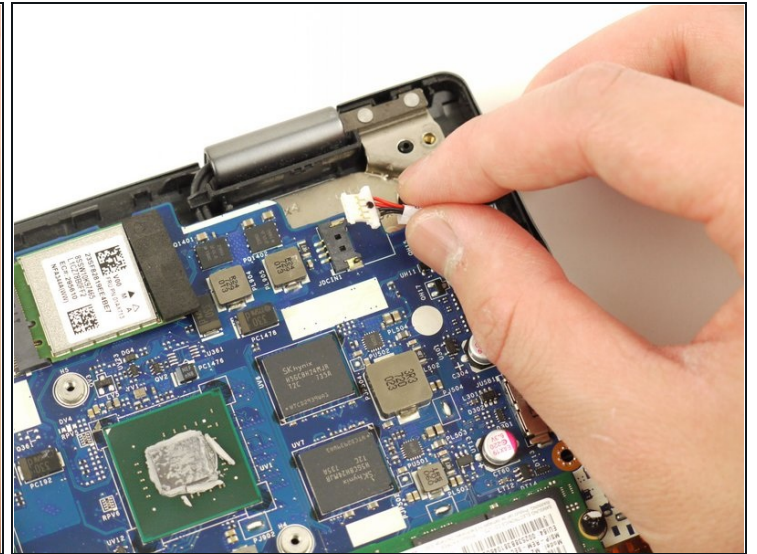
- Repeat the previous step for the other speaker and remove the speakers from the device.

Step 16 — Motherboard



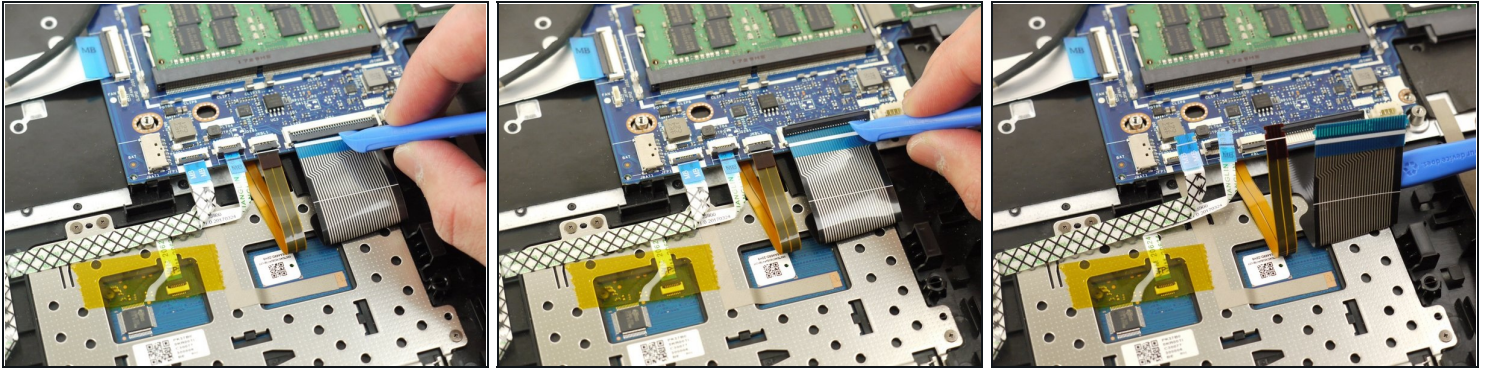
- Using the Phillips #00 screwdriver, remove the three 5 mm Phillips #00 screws securing the motherboard.

Step 17



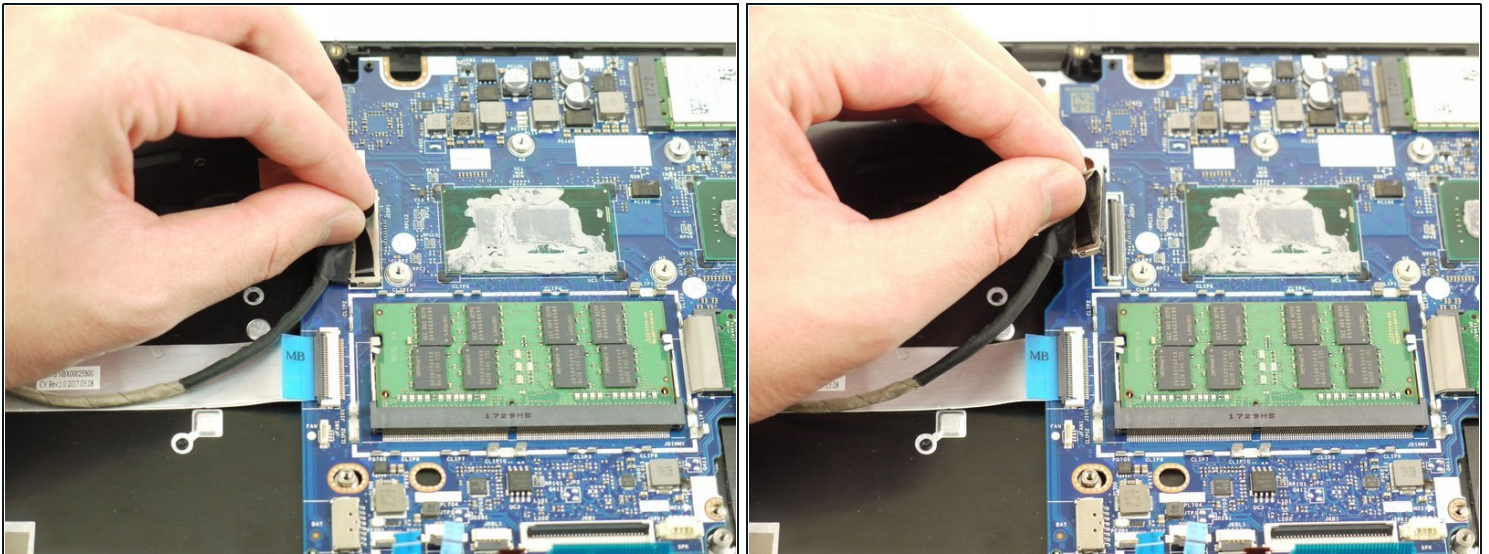
- Disconnect the auxiliary port cable from the motherboard.

Step 18



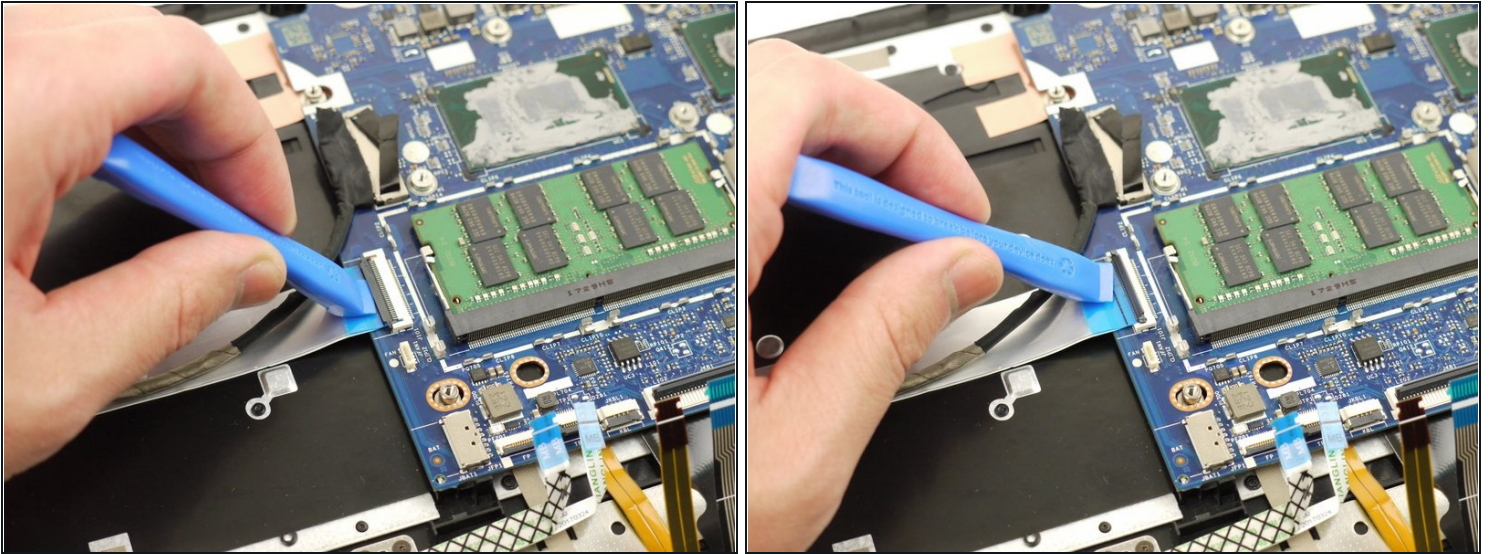
- Using a plastic opening tool, unlock the four ZIF connectors of the flat cables.
- Lift up the connector locking tab and disconnect the cables from the motherboard.

Step 19



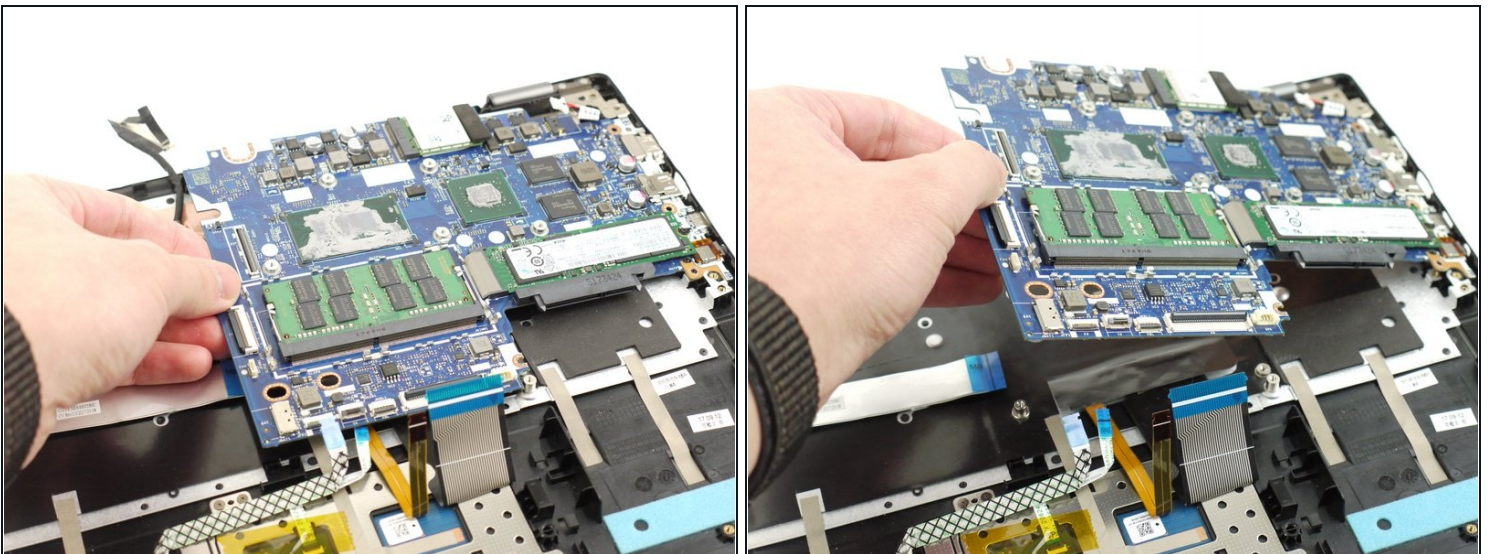
- Disconnect the display cable from the motherboard.

Step 20



- Using the plastic opening tool, unlock the connector for the side ports panel and disconnect the cable from the motherboard.

Step 21



- Carefully lift and remove the motherboard from the device.

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