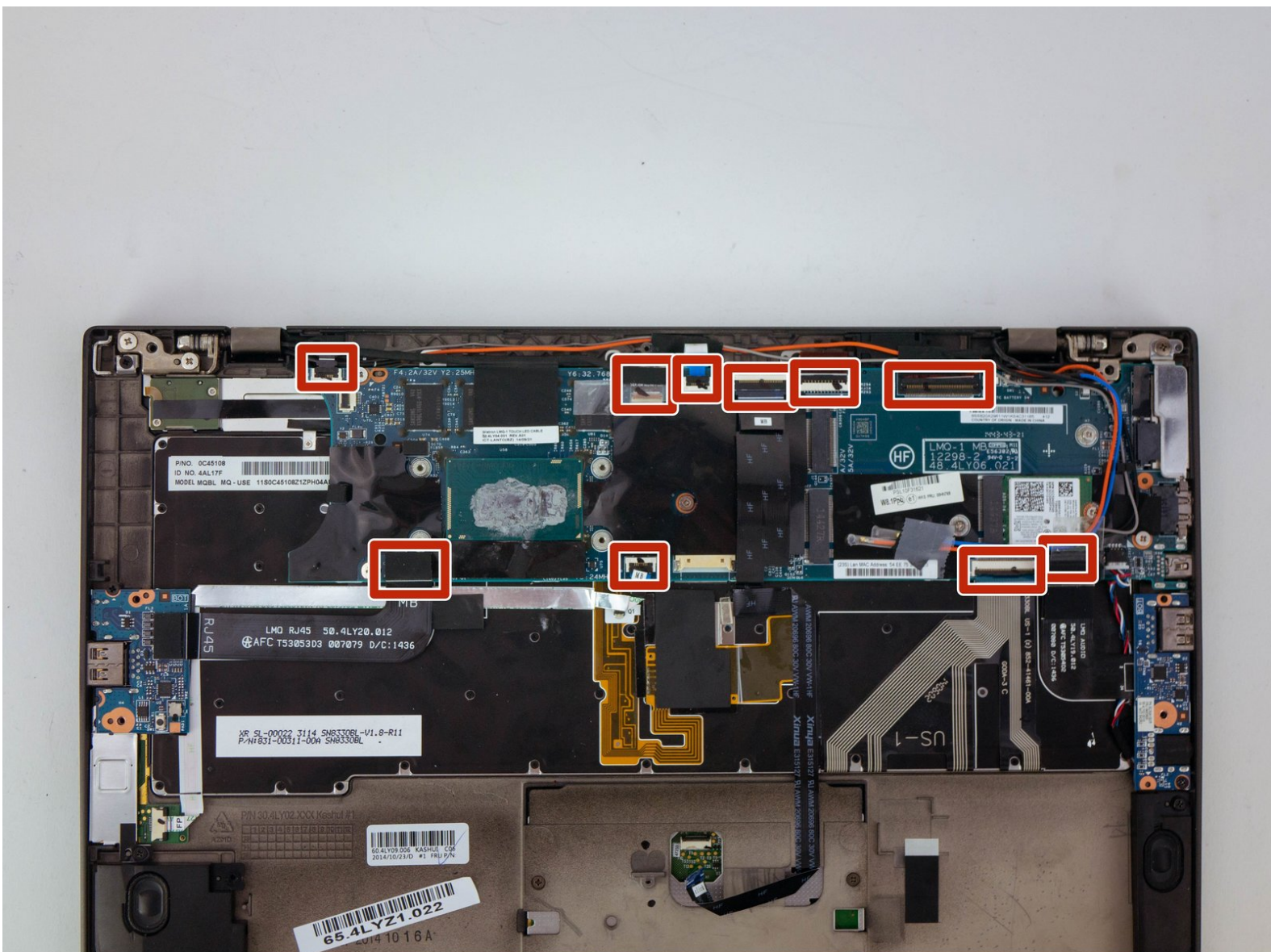




Lenovo ThinkPad X1 Carbon (2nd Gen) Power Jack Replacement

Use this guide to learn how to replace the motherboard on your Lenovo ThinkPad X1 Carbon (2nd Gen)

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INTRODUCTION

If your Lenovo ThinkPad X1 Carbon (2nd Gen) charger will not work, the screen randomly turns blue, or the laptop randomly freezes, use this guide to replace the motherboard.

The motherboard allows all of the components of your computer to communicate with each other.

Before using this guide, if the charger will not work, try [using a few different outlets](#) to charge your computer and [check that your battery firmware is updated](#).

Also, try turning it completely off and on again.

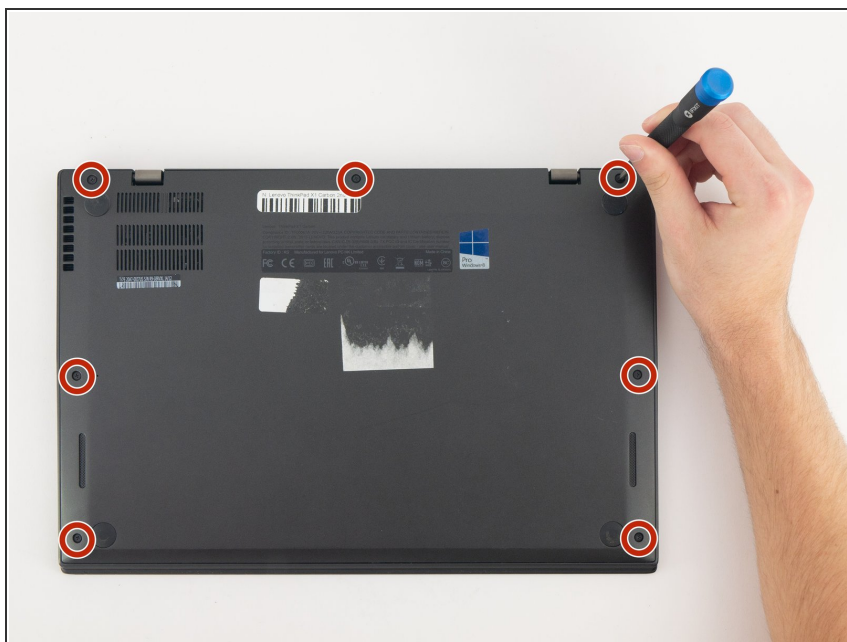
Before you begin, make sure your computer is off.



TOOLS:

- [iFixit Opening Tool](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
 - [Phillips #1 Screwdriver](#) (1)
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Step 1 — Back Cover



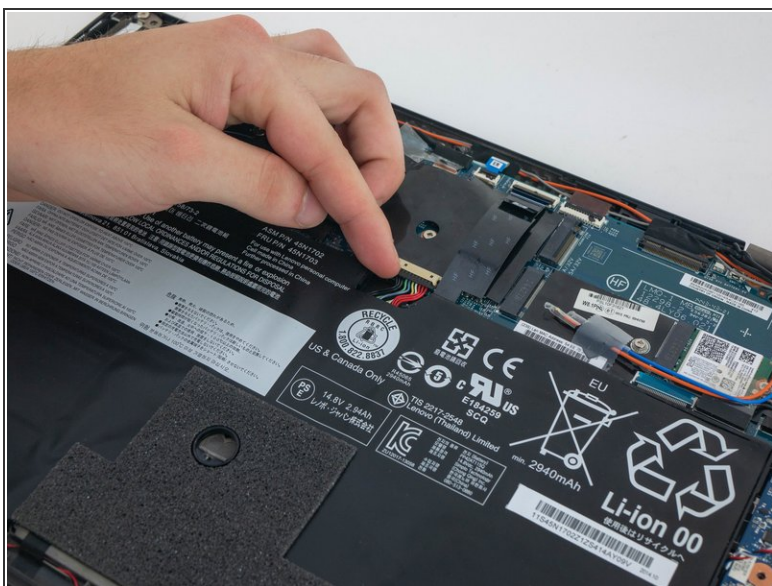
- Using a Phillips #0 screwdriver, remove the seven 7mm screws holding the back cover onto your computer.

Step 2



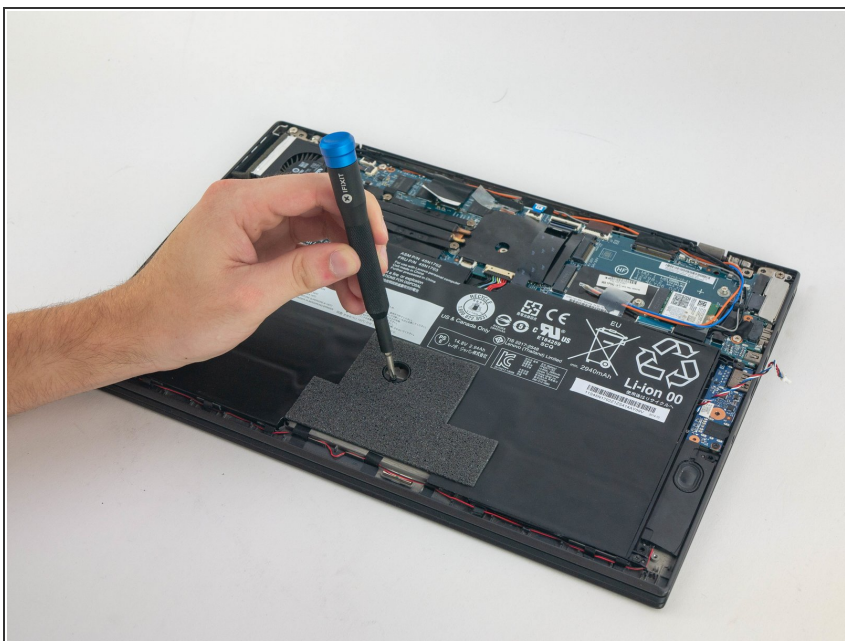
- Use a plastic opening tool or your fingers to pry off the cover.

Step 3 — Battery



- Using your fingers, disconnect the battery from the motherboard.

Step 4



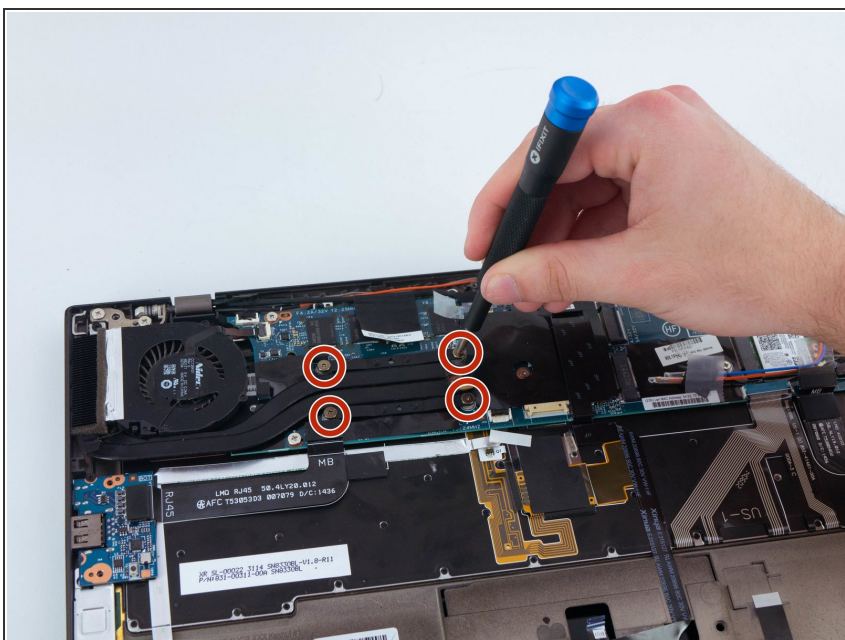
- Using a Phillips #0 screwdriver, unscrew the five 4.3mm screws attaching the battery to the computer.

Step 5



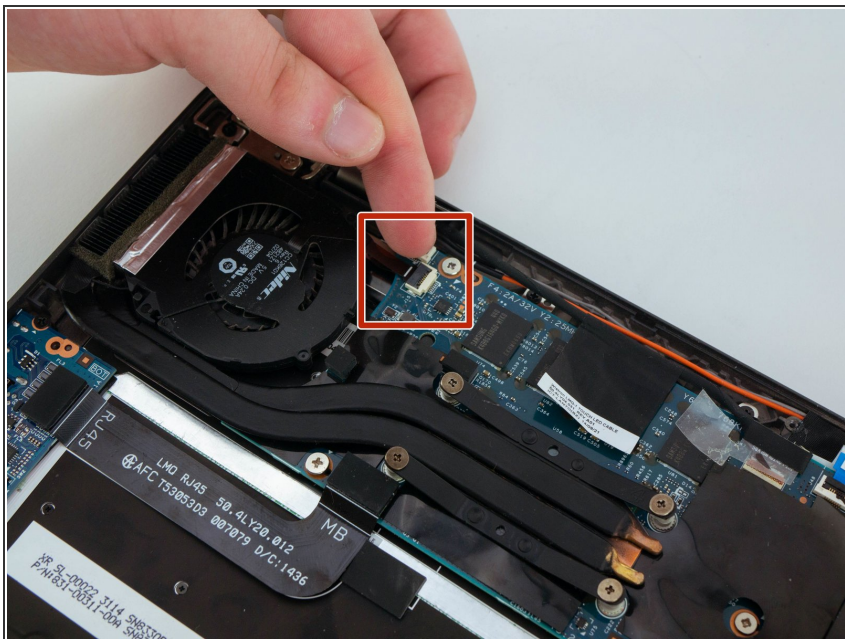
- Remove the battery by pulling it directly towards you.

Step 6 — Fan



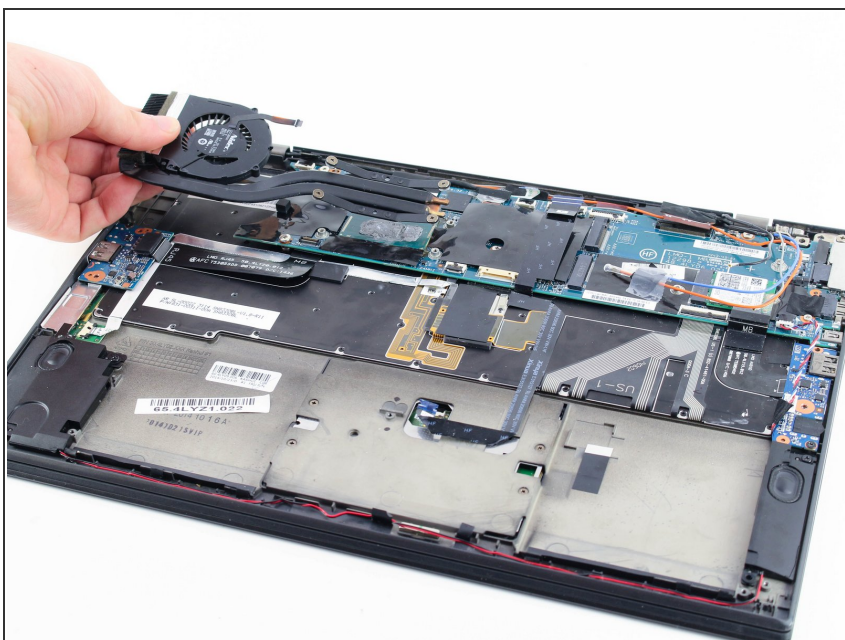
- Use a Phillips #1 screwdriver to undo the four 5 mm screws attached to the heat sink.

Step 7



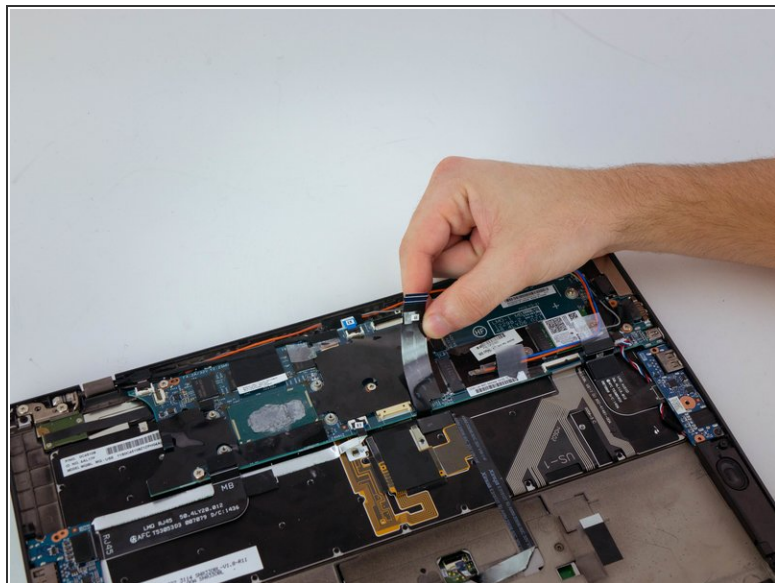
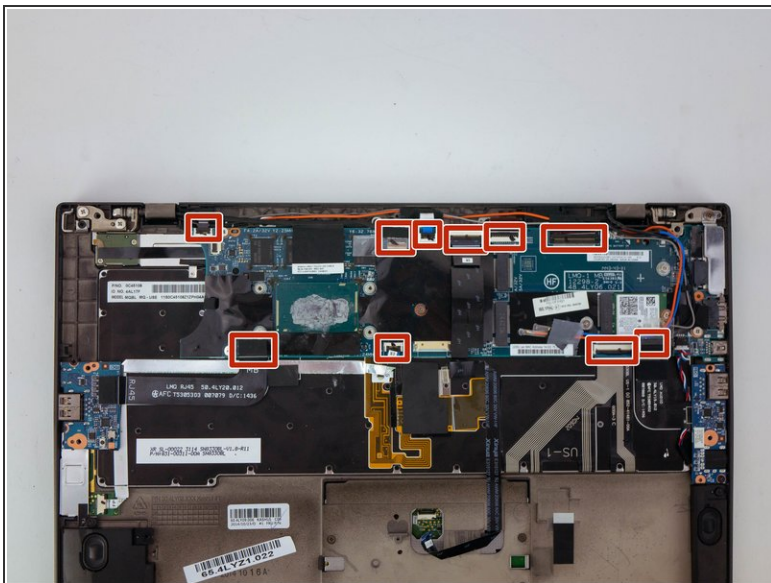
- Undo the black clasp that holds the ribbon cable, attached to the fan, in place and disconnect the ribbon cable.

Step 8



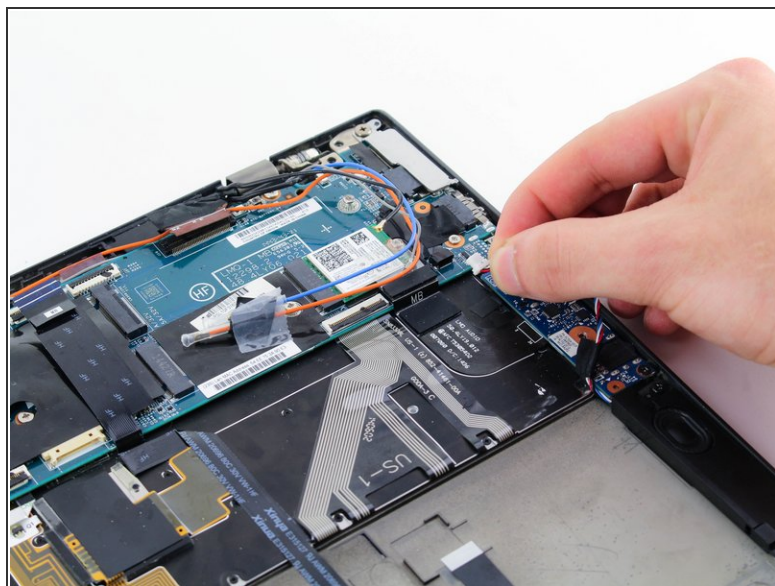
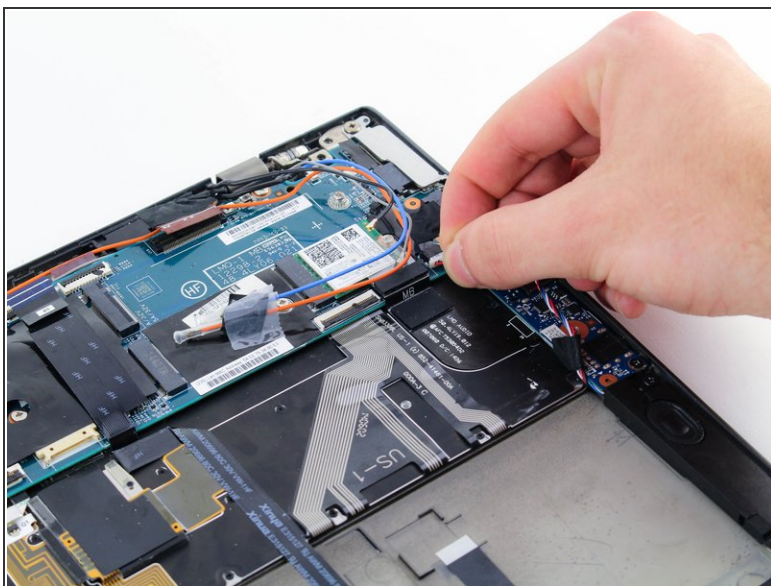
- Remove the fan by lifting it directly up.

Step 9 — Motherboard



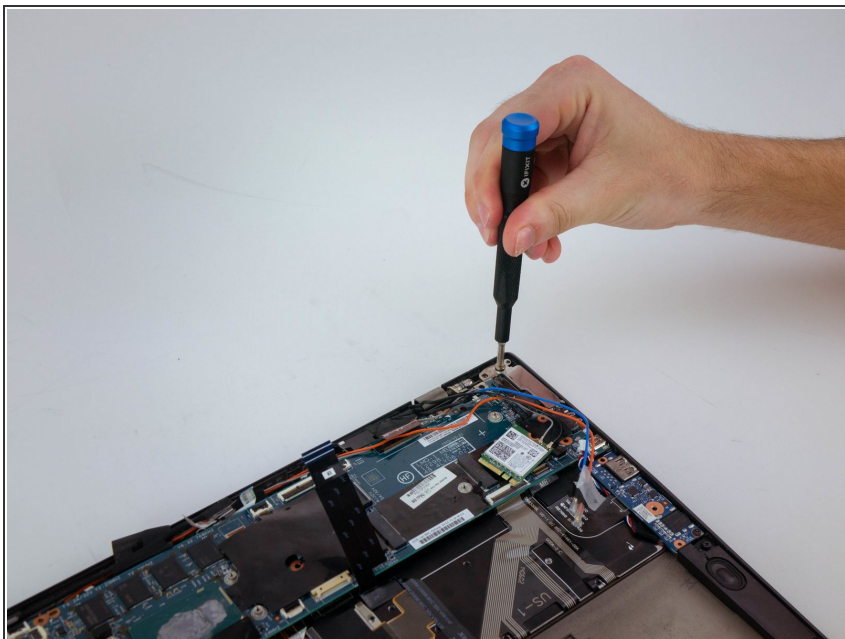
- Disconnect all 10 of the ribbon cables attached to the motherboard.

Step 10



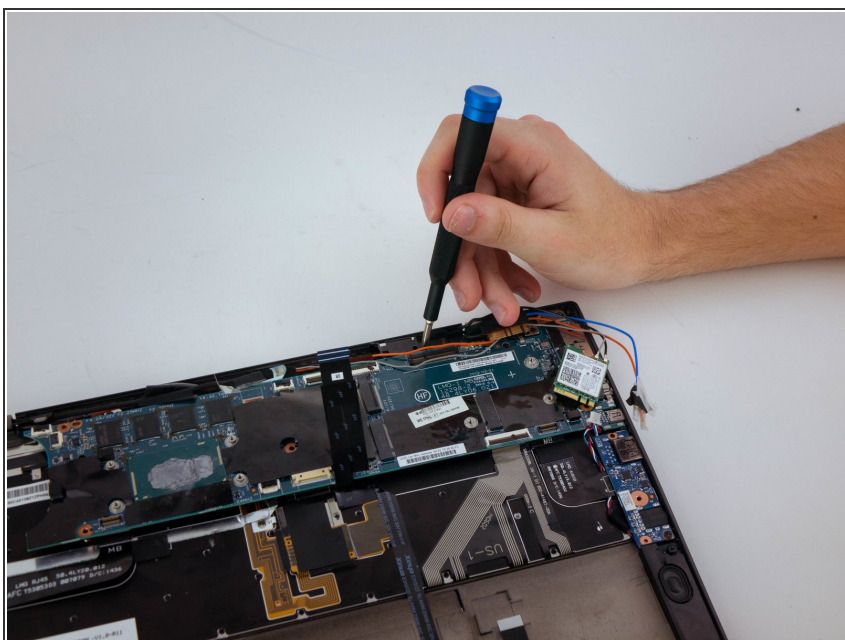
- Disconnect the wire connecting the motherboard to the speaker.

Step 11



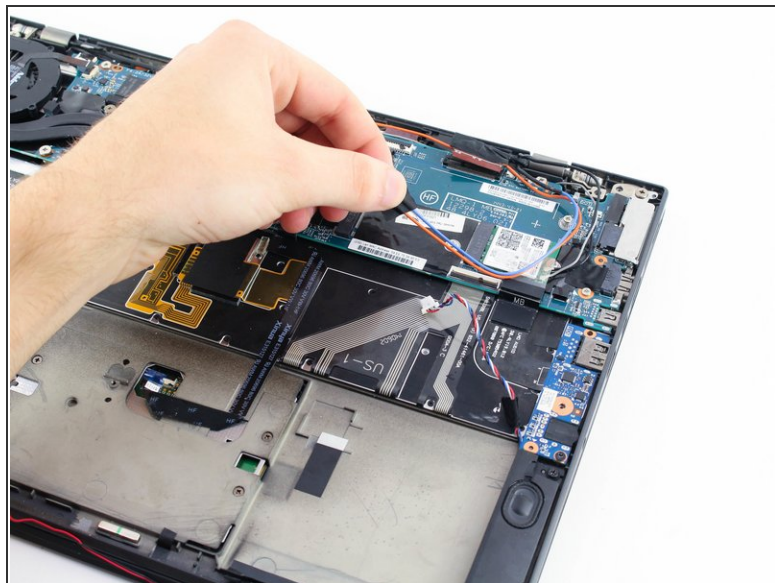
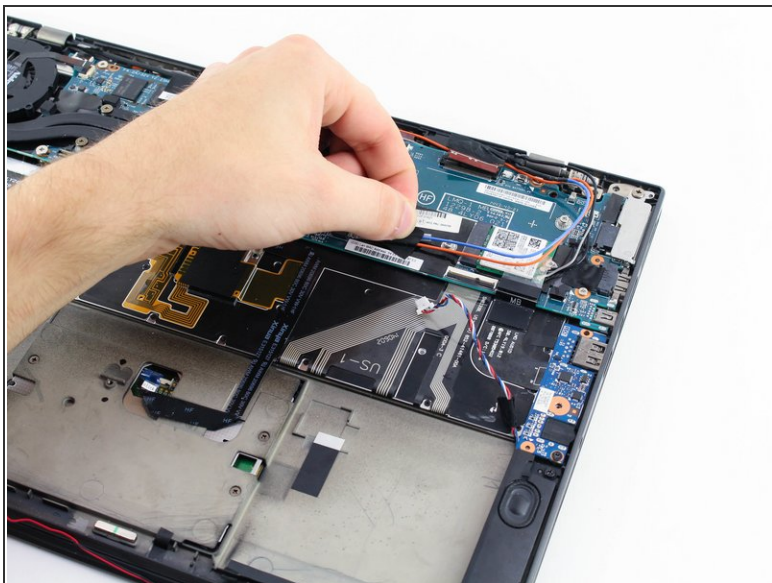
- Use a Phillips #1 screwdriver to unscrew the 4mm screw holding the metal covering over the power jack prongs.

Step 12



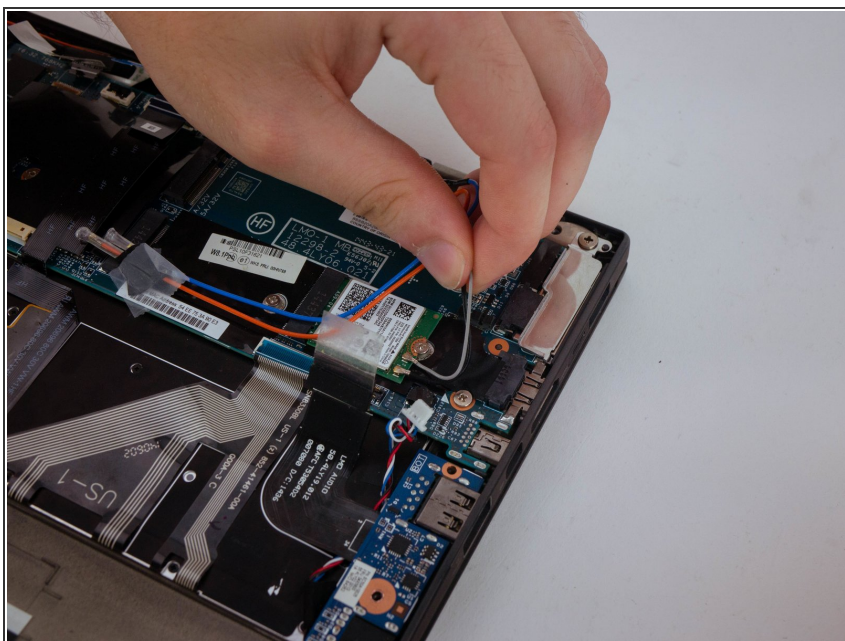
- Use a Phillips #1 screwdriver to unscrew the 4mm screw holding down the Micro-SD card tray.

Step 13



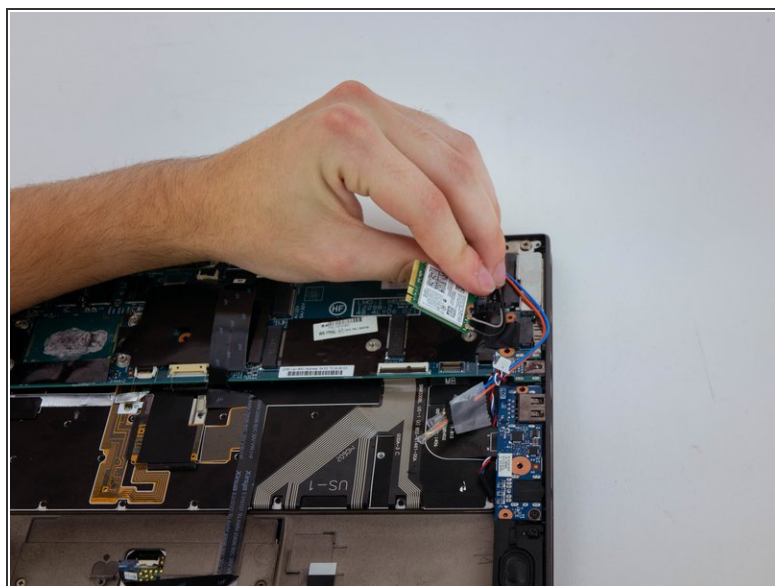
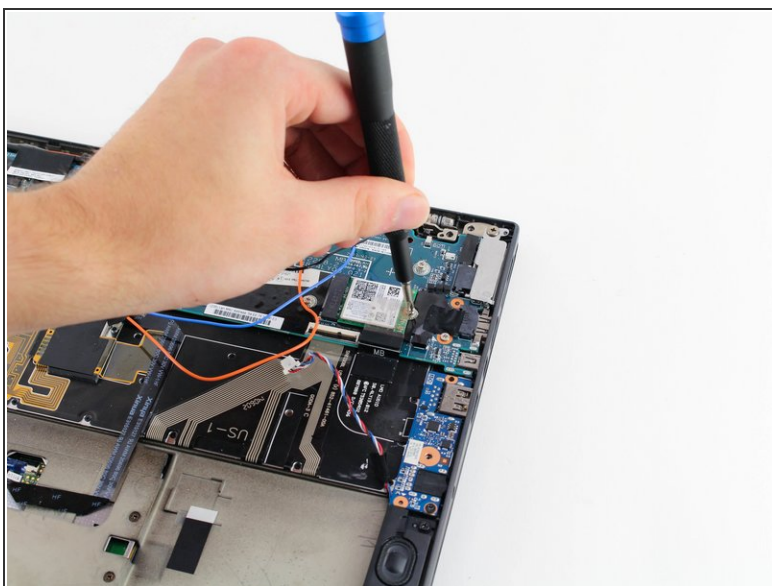
- Un-tape the orange and blue wires from the motherboard.

Step 14



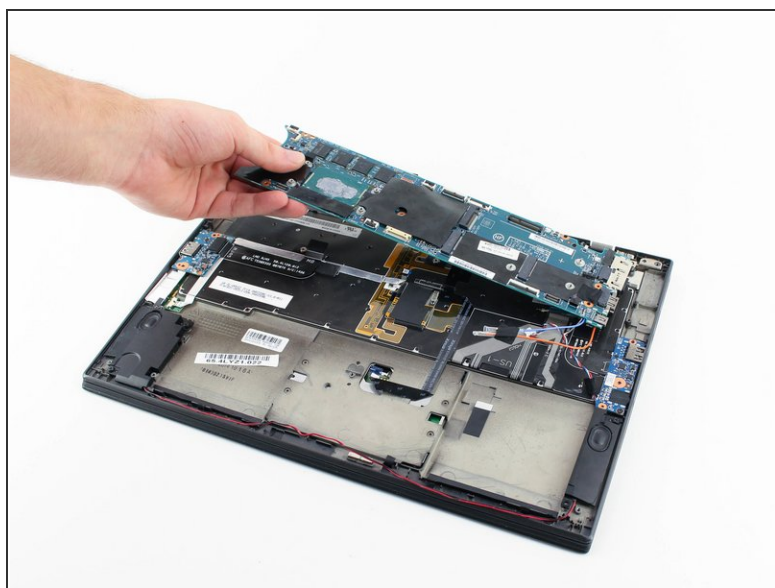
- Remove the black and grey wires from the cable comb on the motherboard.

Step 15



- Use a Phillips #1 screwdriver to unscrew the 3.7mm screw holding down the wifi card.
- Remove the wifi card.

Step 16



- Carefully remove the motherboard by lifting it and pulling towards the left.

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