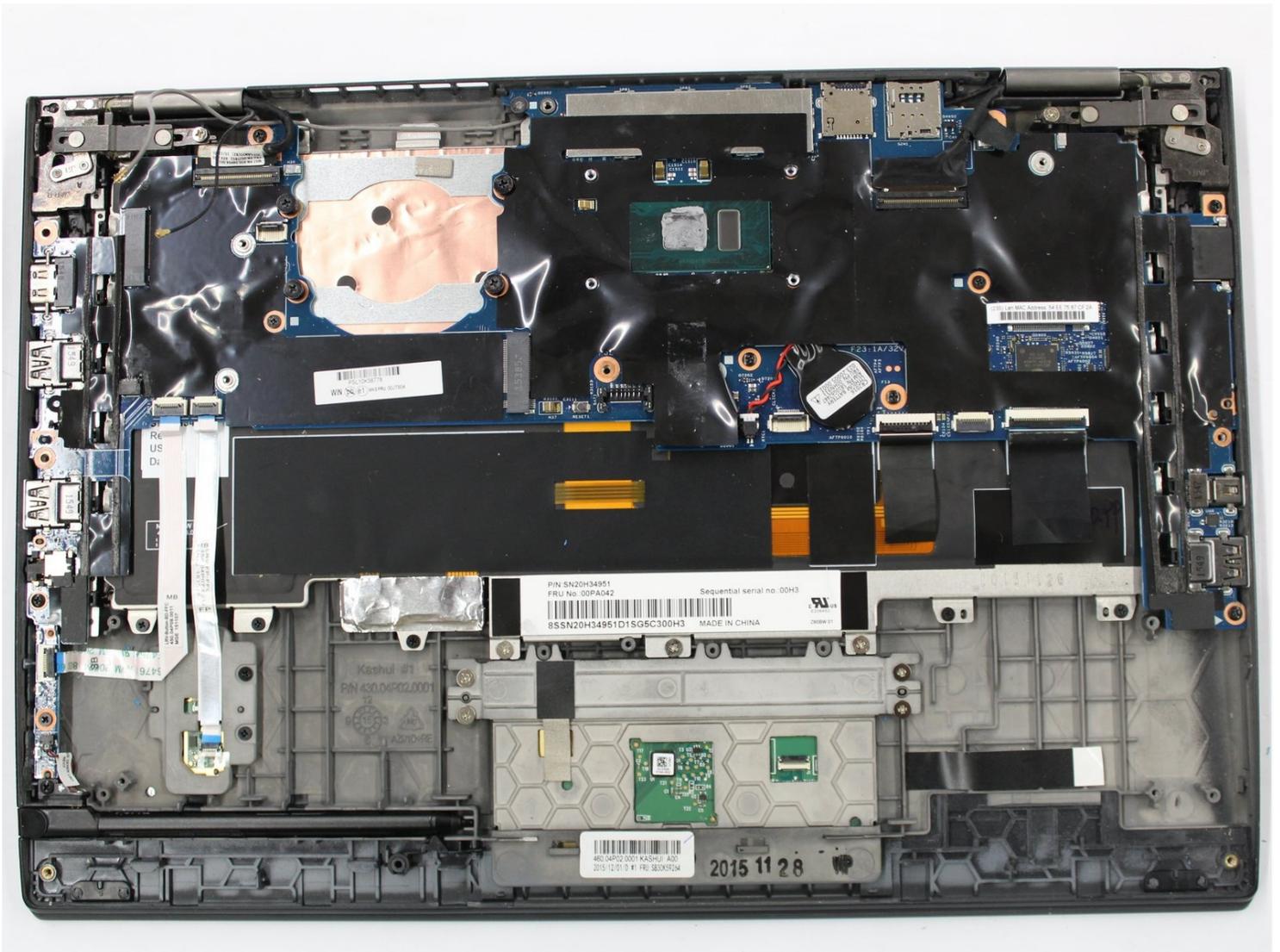




Lenovo ThinkPad X1 Yoga Motherboard Replacement

The motherboard is the central hub of...

Written By: Emily Perkins



INTRODUCTION

The motherboard is the central hub of communication between all of the components in your device. If one or more components are failing in your device, it may be time to replace the motherboard. Use this guide to replace the motherboard in your laptop.

TOOLS:

[Microfiber Cleaning Cloths](#) (1)

[Phillips #000 Screwdriver](#) (1)

[Phillips #1 Screwdriver](#) (1)

[iFixit Opening Tool](#) (1)

[Tweezers](#) (1)

Step 1 — Back Cover



 Be sure to power off and unplug your device before you begin your repair.

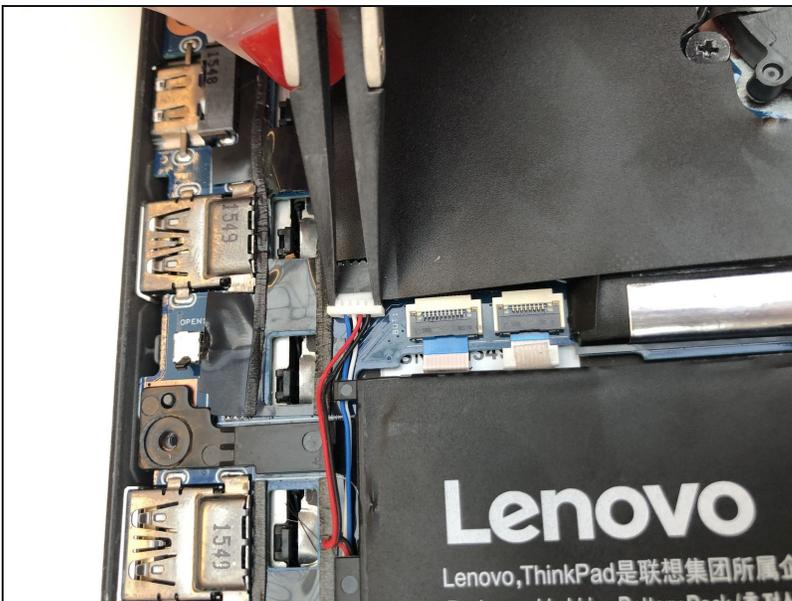
- Flip the computer over so the bottom is facing up.
- Remove nine 4mm Phillips #1 screws from the bottom of the computer.
- Use an iFixit opening tool to pry the back cover off of the laptop.

Step 2 — Speakers



- Remove the five 4.5mm Phillips #1 screws that secure the battery.

Step 3



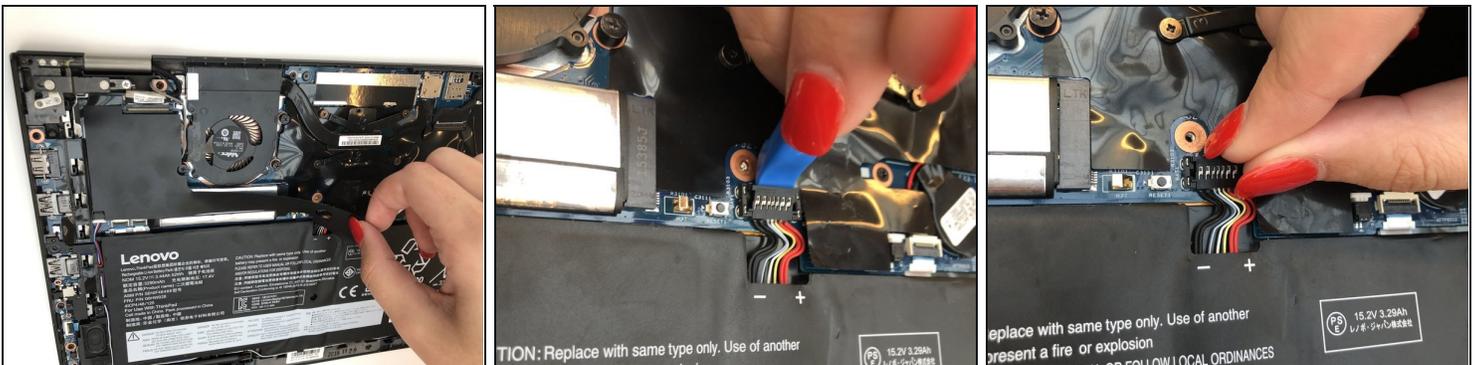
- Using a pair of tweezers, push the sides of the white speaker wire toward the battery (where it says Lenovo) to unplug it.

Step 4



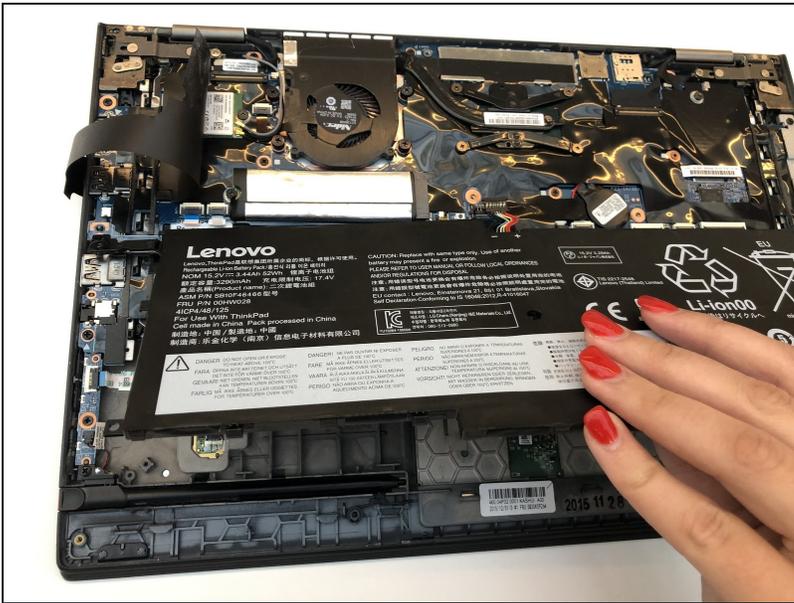
- Remove the speakers from either side of the battery. The connecting wire will unthread from the sides of the battery.

Step 5 — Battery



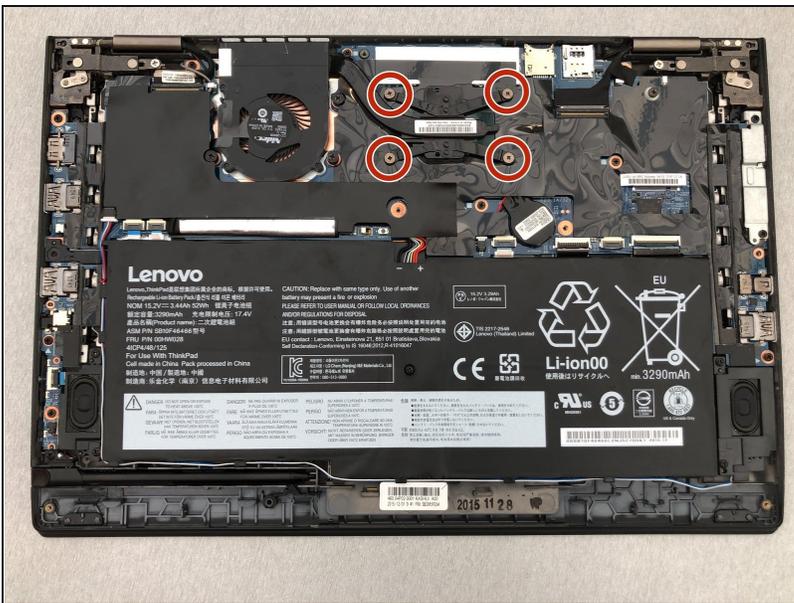
- Lift the plastic black strip cover that's laying over the battery connector.
- Use the iFixit opening tool to flip up and disconnect the black battery connector from its motherboard socket.
- Gently pull the connector away from the battery to pull it out of the slot.

Step 6



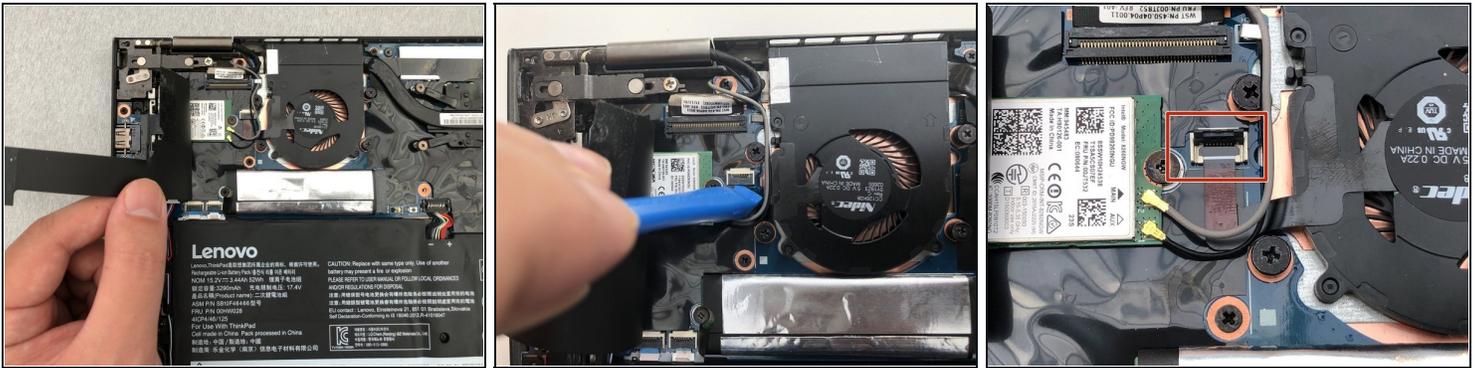
- Lift and remove the battery away from the computer.

Step 7 — Cooling Fan



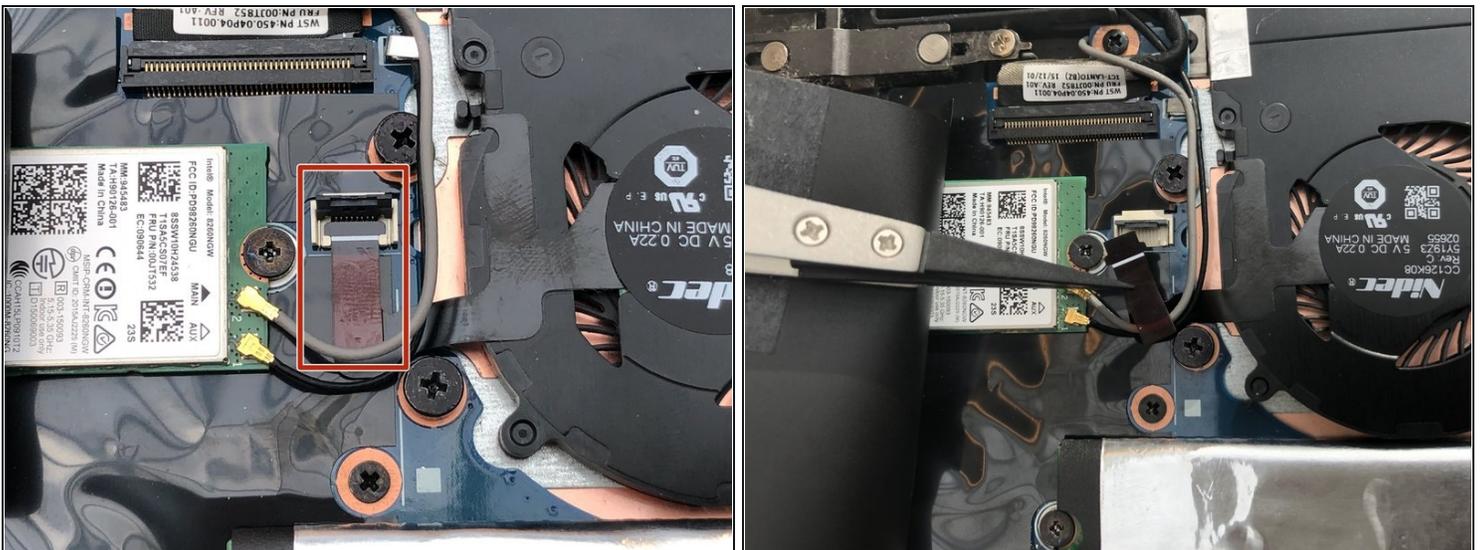
- Remove four 4.5mm Phillips #1 screws from the corners of the heat sink.

Step 8



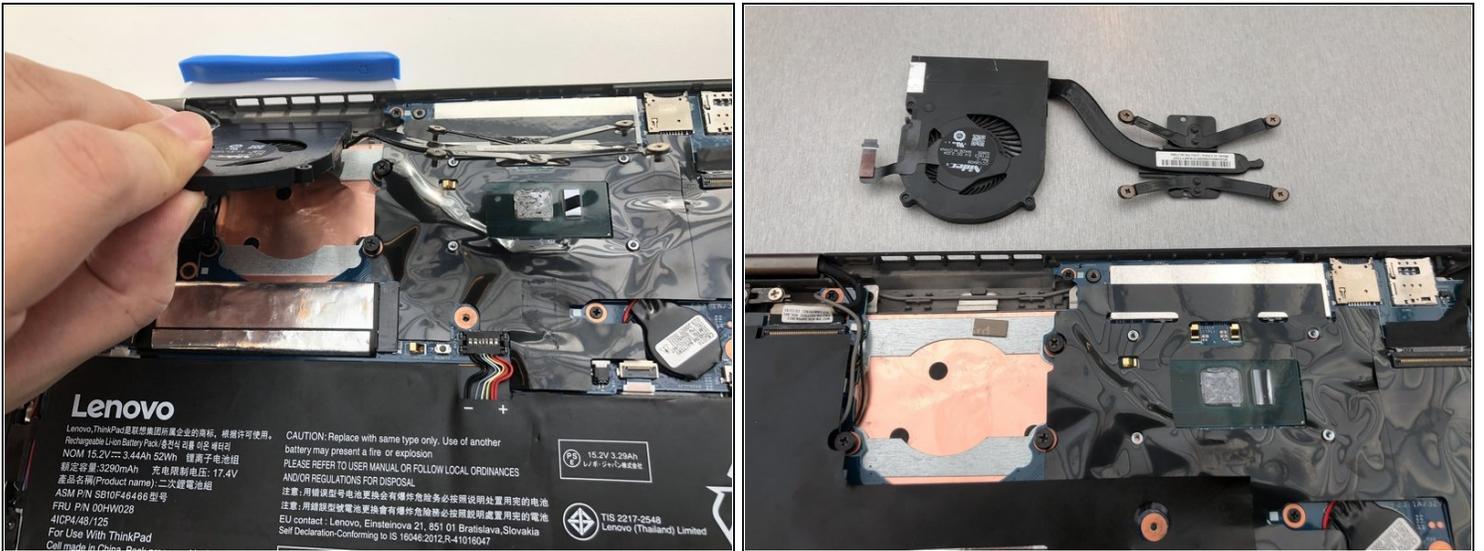
- Gently peel back the black plastic covering around the fan.
- ⓘ You may hear or feel the adhesive pulling away here.
- Using an iFixit opening tool, flip up the small black cover of the fan plug.

Step 9



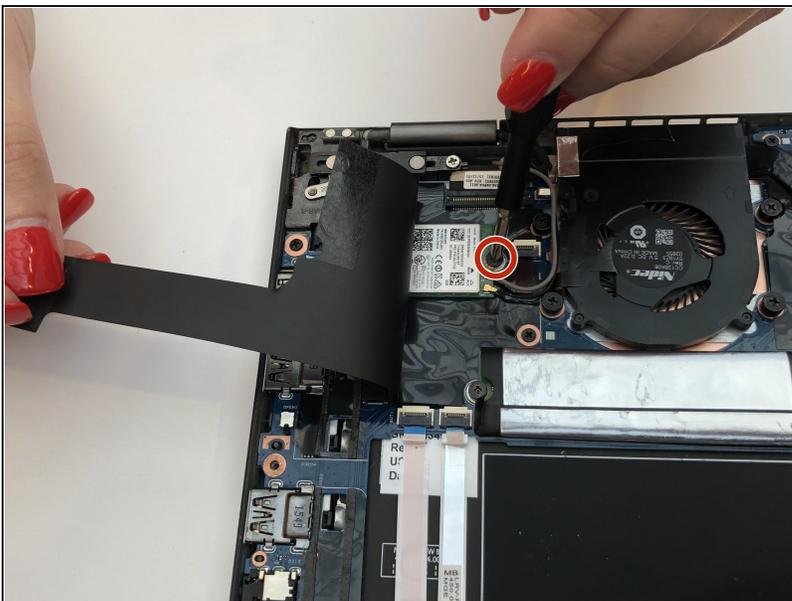
- Using tweezers, pull the plastic strip out.

Step 10



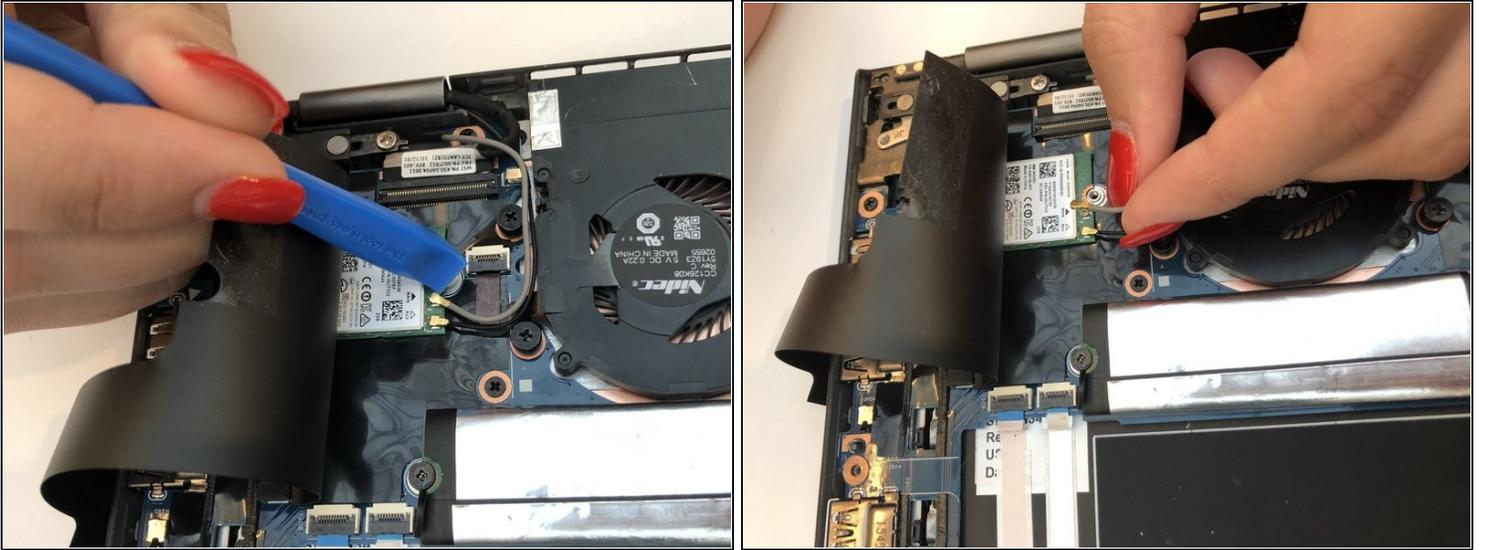
- Remove the fan from the computer.

Step 11 — Wireless chip



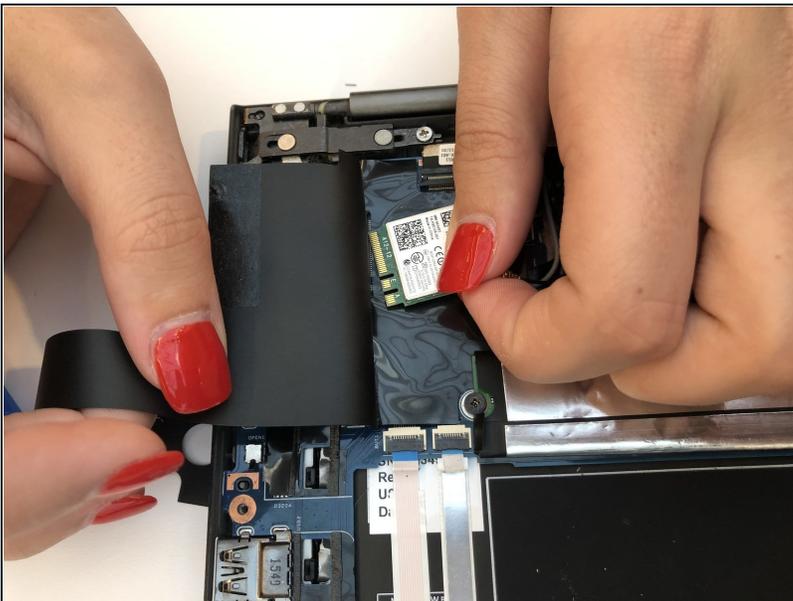
- Gently peel back the black plastic covering.
- Remove the single Phillips #1 screw securing the wireless chip in place.

Step 12



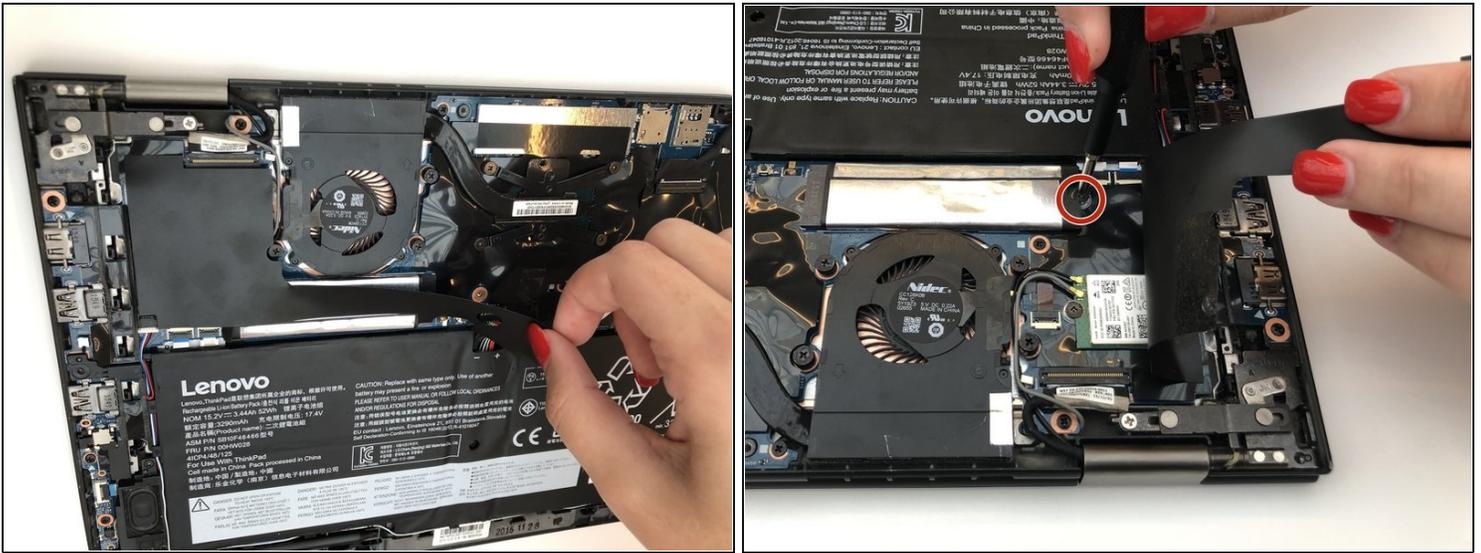
- Use an iFixit opening tool to gently pop the gold caps off their connections.
- Move these wires out of the way.

Step 13



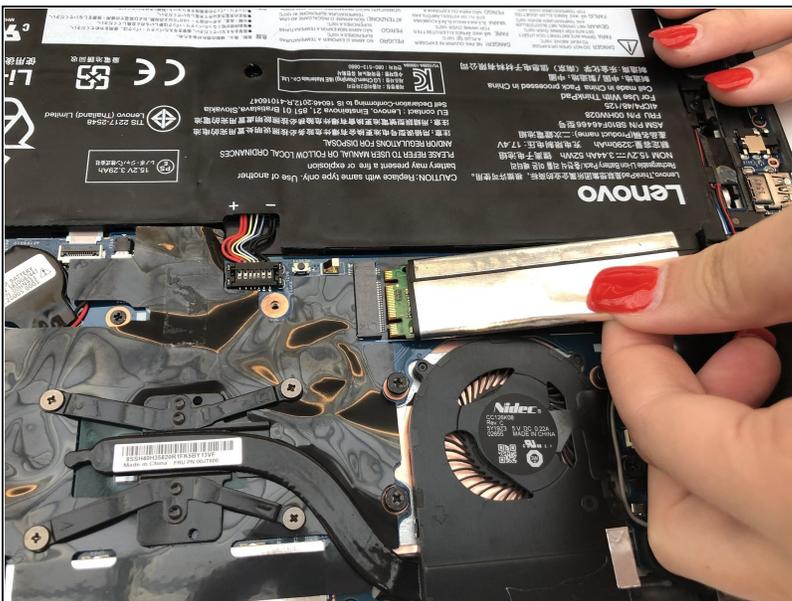
- Slide the chip out.

Step 14 — Hard Drive



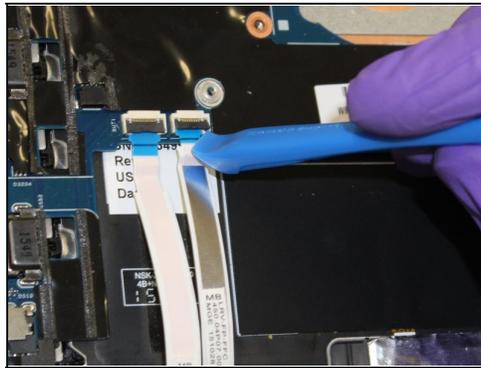
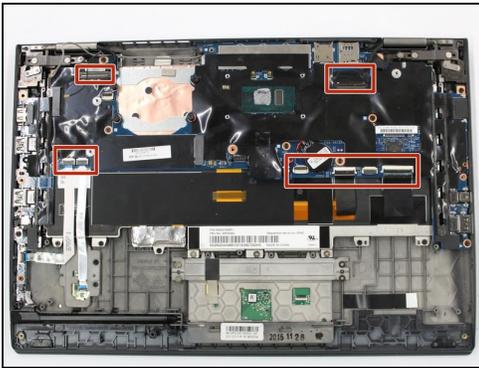
- Gently peel back the black plastic covering.
- Remove the single 2mm Phillips #1 screw from the hard drive's silver casing.

Step 15



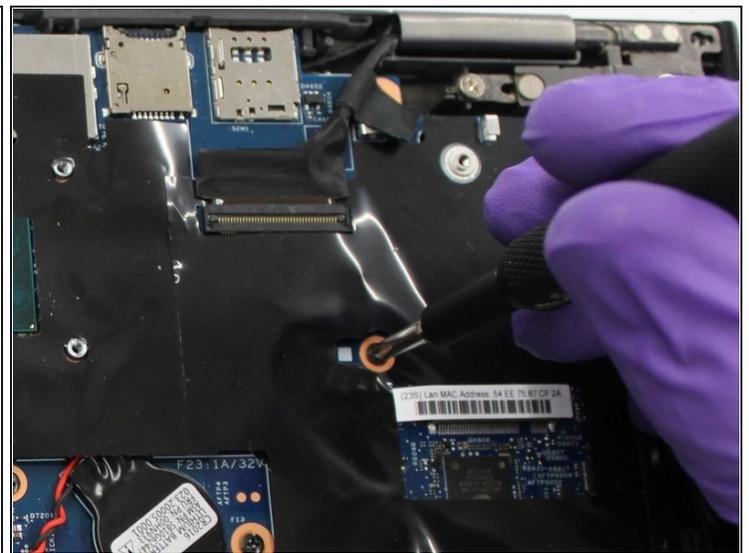
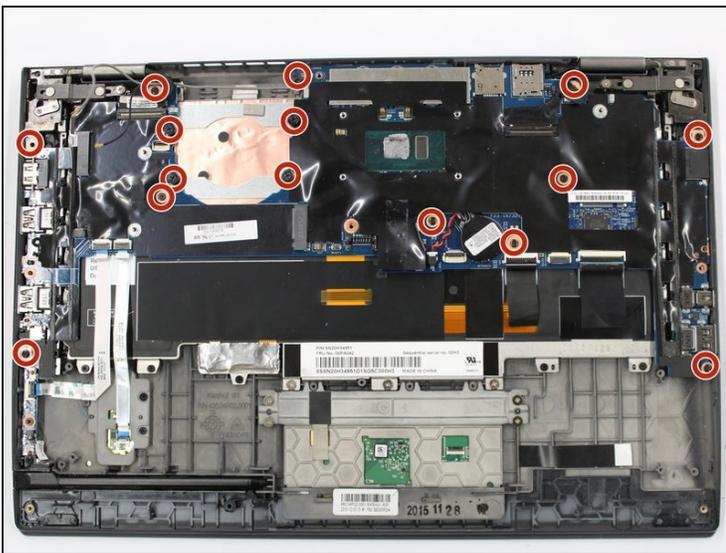
- Unplug the hard drive from the computer by pulling away from the computer.

Step 16 — Motherboard



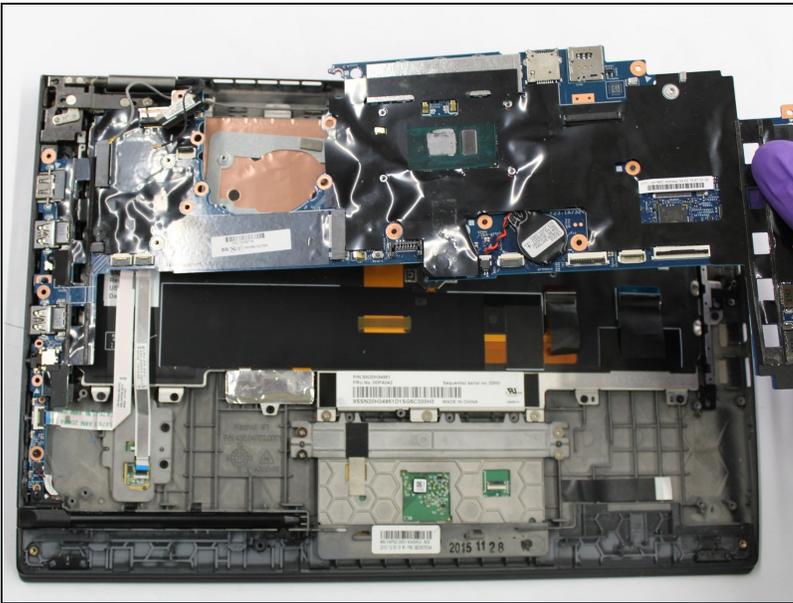
- Using the iFixit opening tool, flip up the eight small covers from the cable connectors.
- Gently pull the cables out of the slots.

Step 17



- Using the Phillips #1 screwdriver, remove sixteen 4.5mm screws.

Step 18



- Lift and remove the motherboard away from the computer.

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