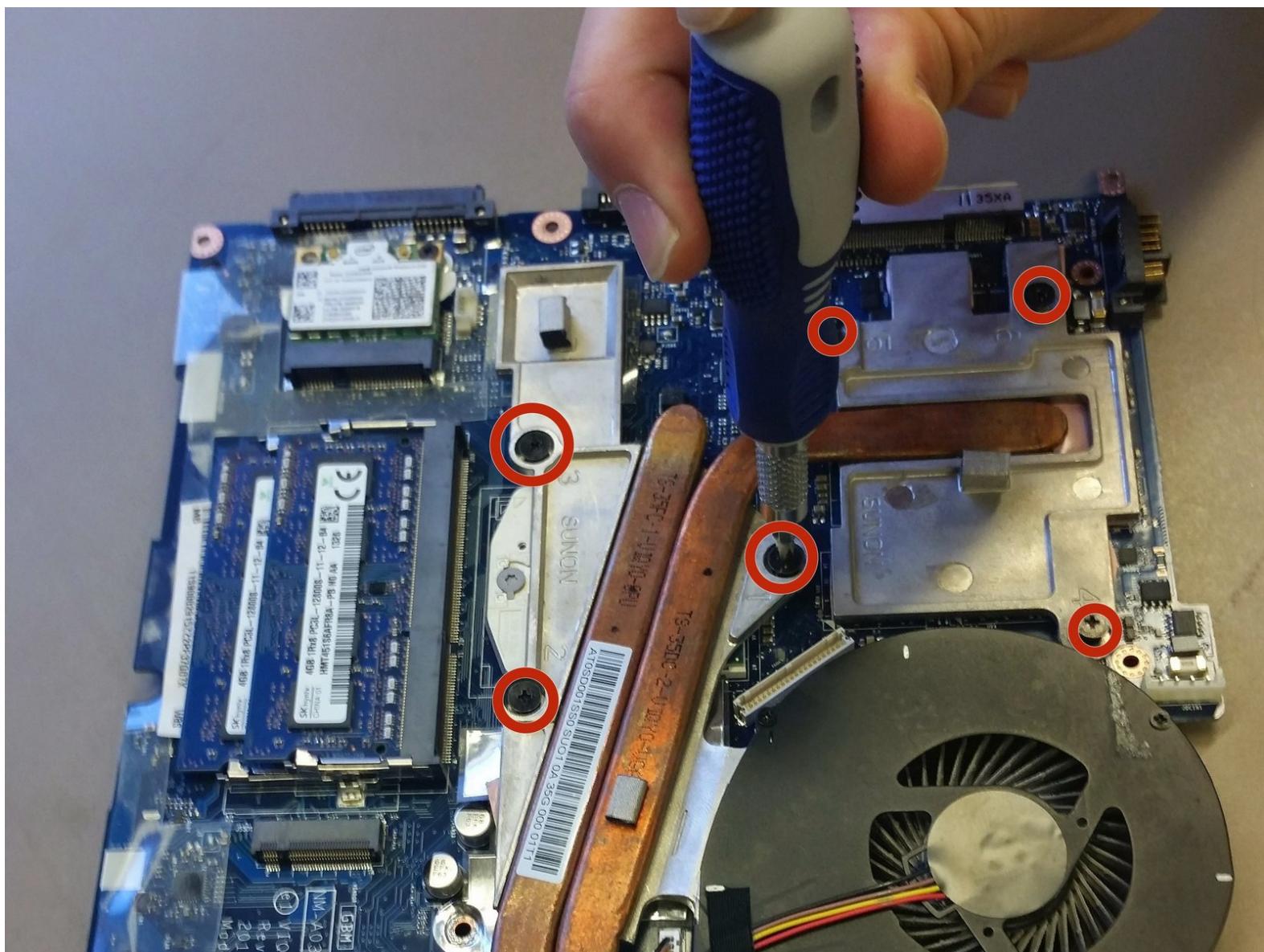




Lenovo Y410P Cooling Fan Replacement

It is important that the laptop has a working cooling fan. It prevents overheating which can damage fragile and expensive hardware. This guide will remove the heatsink and apply new thermal paste

Written By: Eric Chen



 **TOOLS:**

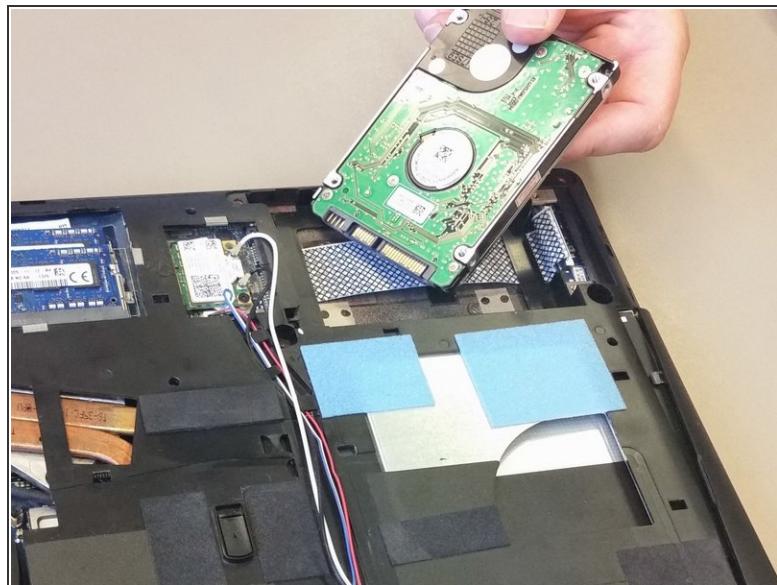
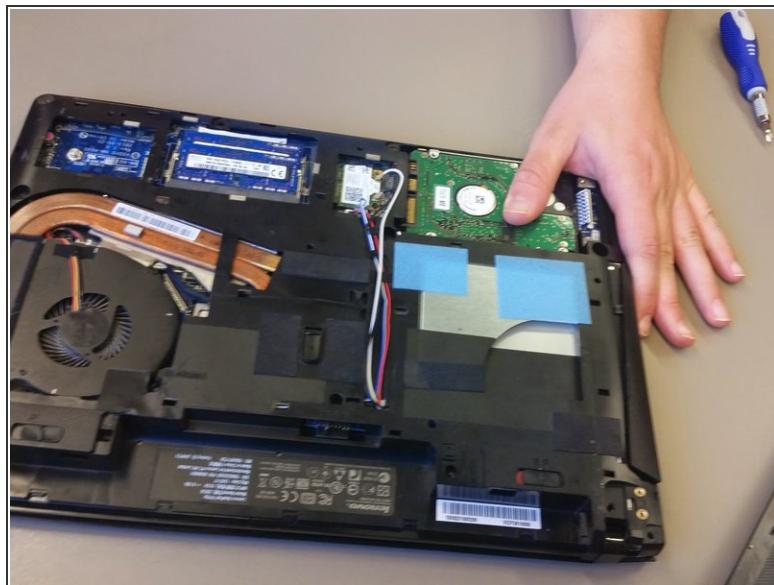
- [Phillips #0 Screwdriver](#) (1)
- [Phillips #00 Screwdriver](#) (1)

Step 1 — Removal of Bottom Panel



- Remove eight M2.5 x 8mm Phillips head screws, using a Phillips #0 screwdriver, at the specified locations.
- Lift the bottom cover off and set it aside.

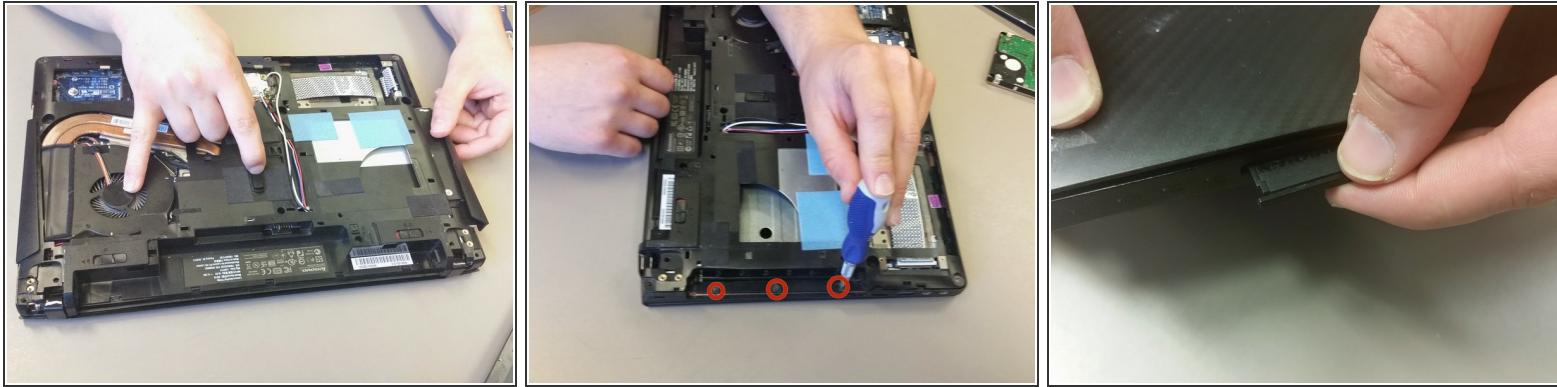
Step 2 — Removal of Hard Drive



- Remove the two M2.5x4mm screws using a Phillips #0 screwdriver.
- Slide the hard drive out of the casing.

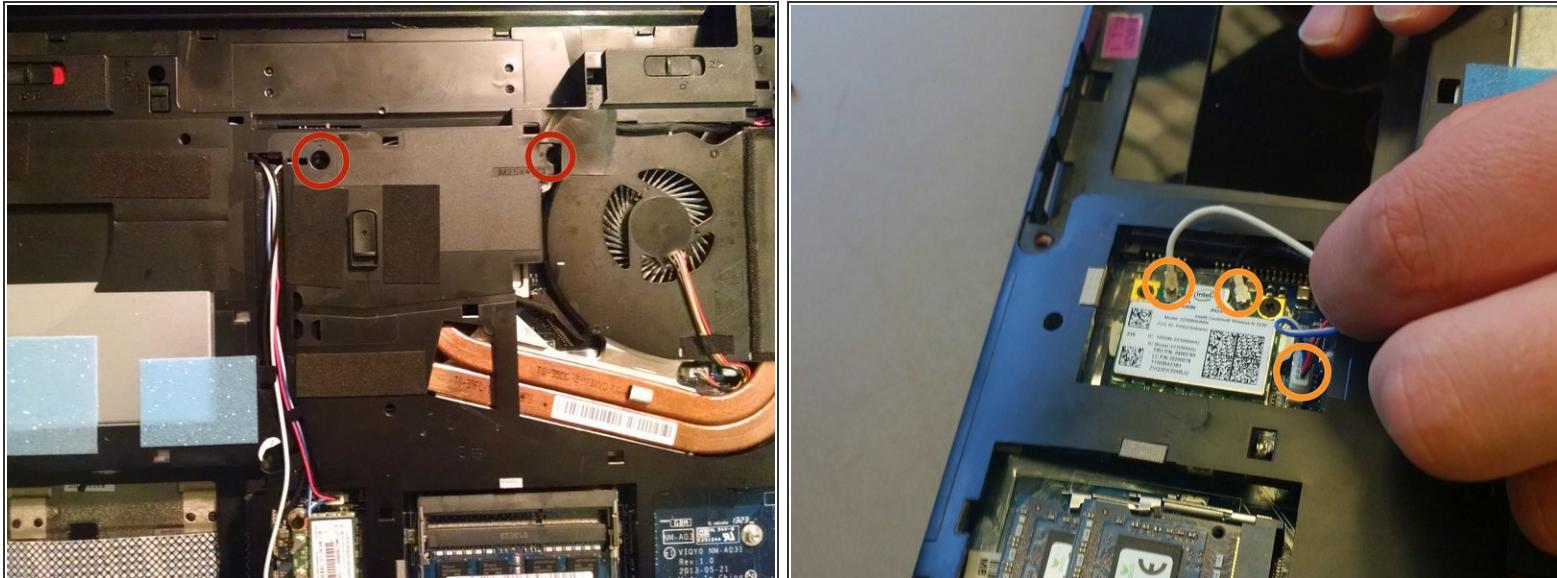
! Be careful when handling the hard drive; rough impacts may cause data loss.

Step 3 — Remove Optical Drive



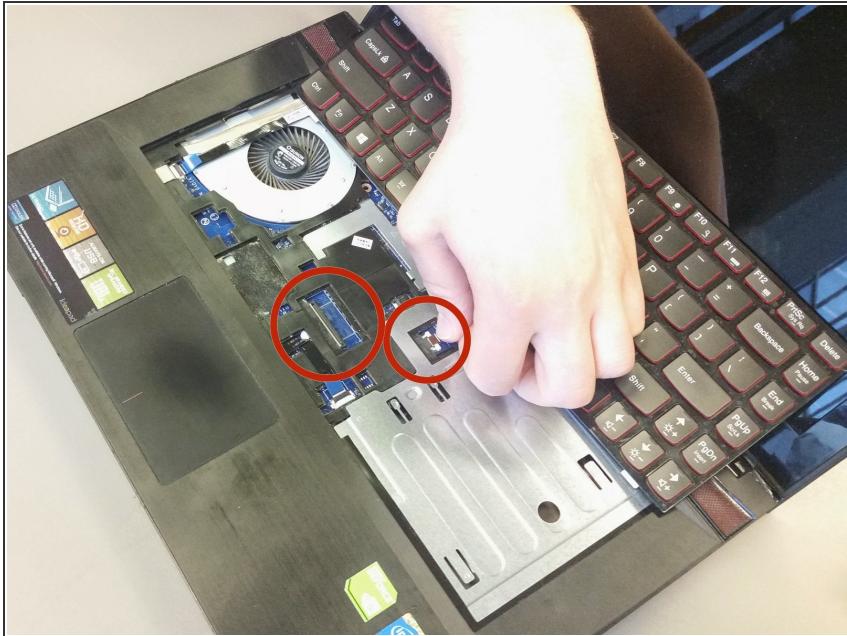
- With the laptop's bottom facing up, pull the optical drive release lever back and pull the optical drive out.
- Unscrew the three M2x3mm Phillips head screws shown.
- At the front edge of the laptop, empty the SD card holder by pressing on the card. This will allow for further disassembly in later steps.

Step 4 — Remove Keyboard and Cables



- Remove the two M2.5 x 6mm screws using a Phillips #00 screwdriver.
- Remove the WiFi cables and the sound connector. (3 wires)

Step 5

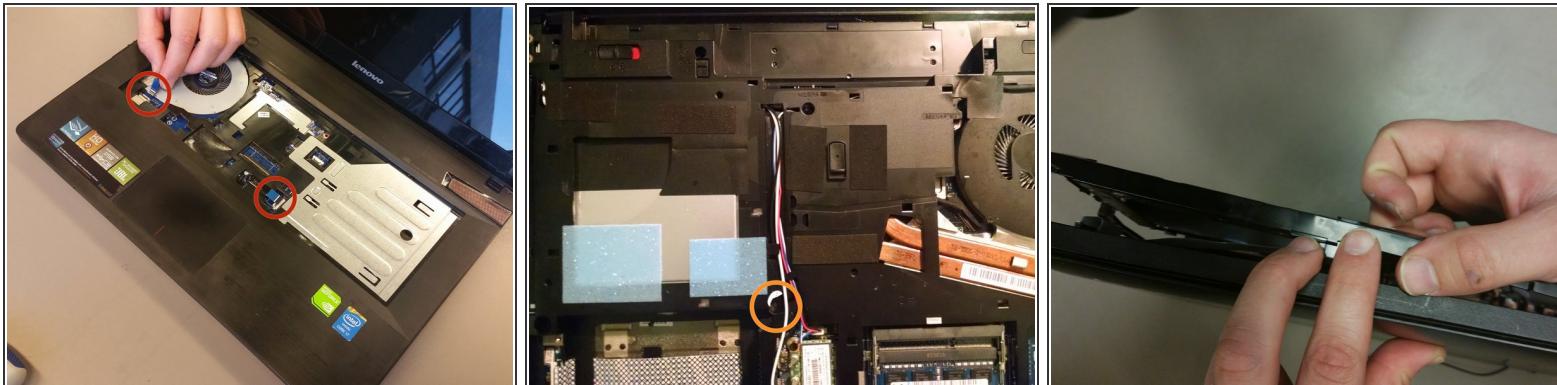


- Open the laptop hinge, tip the laptop onto its side, and use the back end of the screwdriver to push the keyboard out from the optical drive area.
- Turn the laptop right side up and pry the keyboard up slowly until it is clear of the case.

⚠ Be careful of the ribbon cable when removing the keyboard. The ribbon is still attached.

- Detach the ribbon cables by opening the specified latches.

Step 6 — Removal of Palm Rest

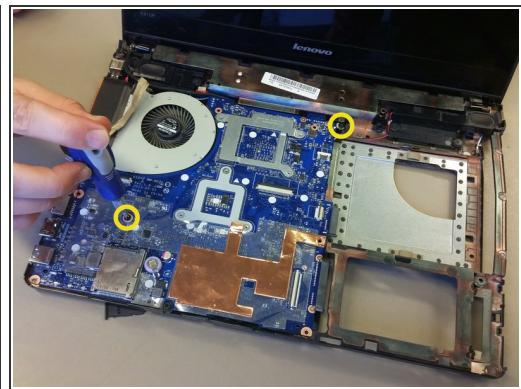
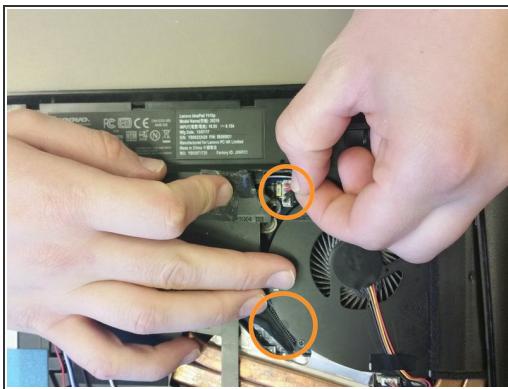
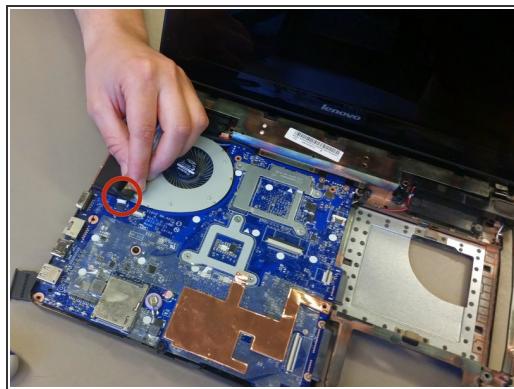


- Detach the ribbon cables by opening the specified latches.
- Turn the laptop upside down and remove the M2.5x8mm screw with Phillips #0 screwdriver.
- Turn the laptop on its side and pry the bottom from the top.

⚠ Only partially remove the palm rest; there is still a ribbon cable attached underneath it.

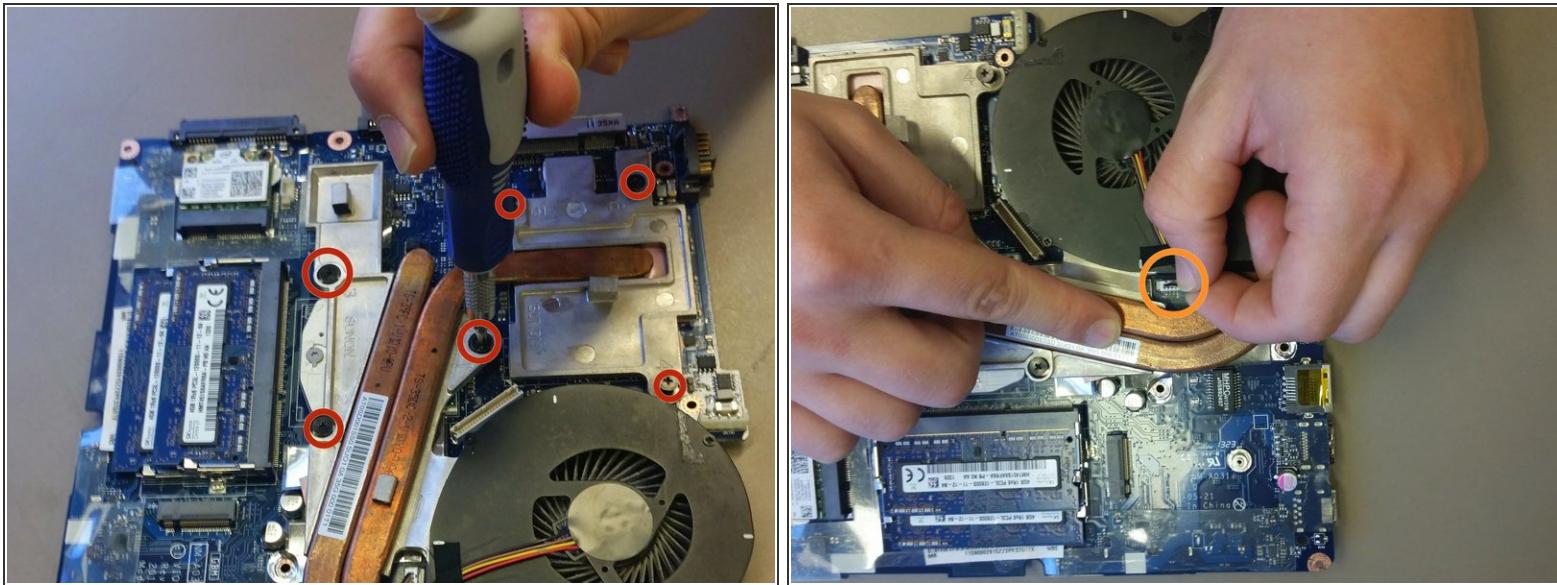
- Remove the ribbon cable by opening its respective latch.

Step 7 — Removal of Motherboard



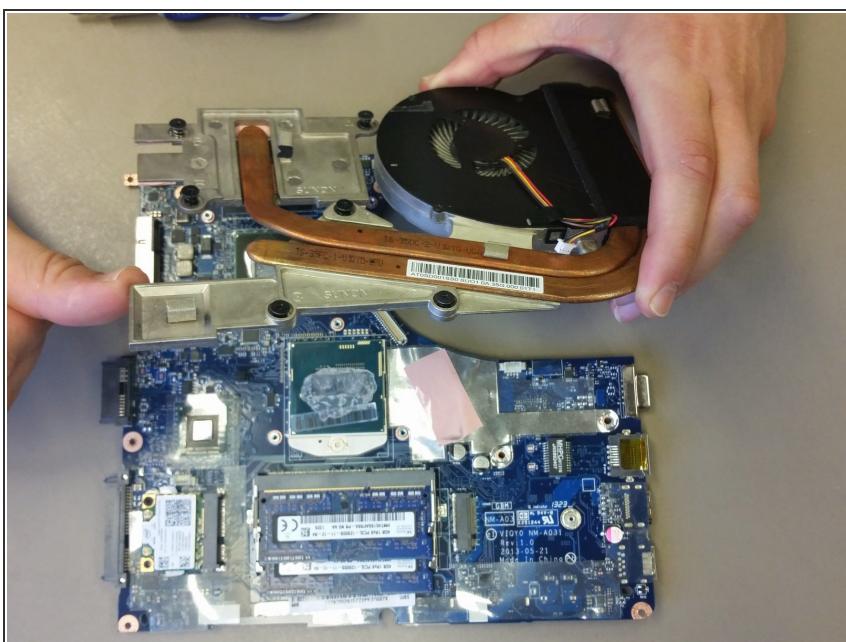
- Remove the specified cable on top of the motherboard.
- Flip the laptop over, and remove the specified cables.
- Remove the two M2.5x4mm screws with a Phillips #0 screwdriver
- Remove the motherboard with hands.

Step 8 — Unscrew Heatsink



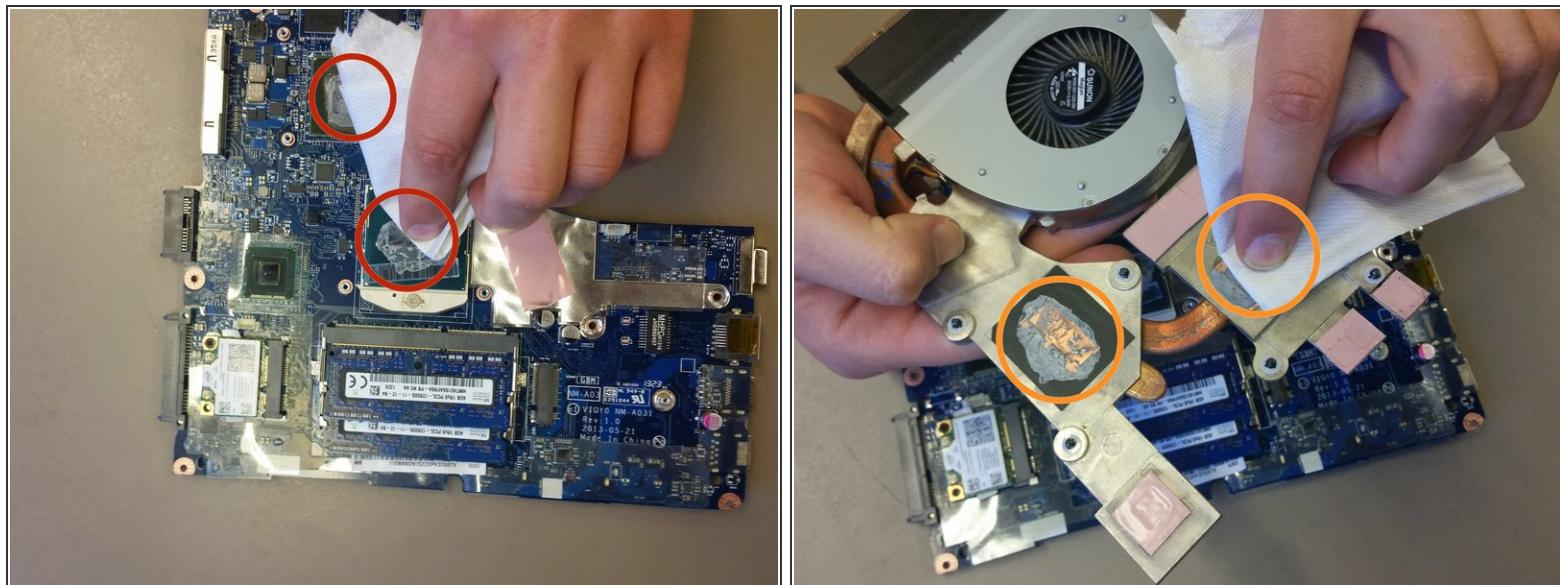
- Unscrew (adequately loosen) the six heatsink screws in the order written on the heatsink. Use a Phillips #0 screwdriver.
 - These six screws are built into the heatsink and will not detach from it.
- Unplug the fan cable from the motherboard.

Step 9 — Remove the Heatsink



- Gently remove the heatsink with your hand
- *(i)* There may be some resistance due to dried up thermal paste, simply pry the heatsink from the board.

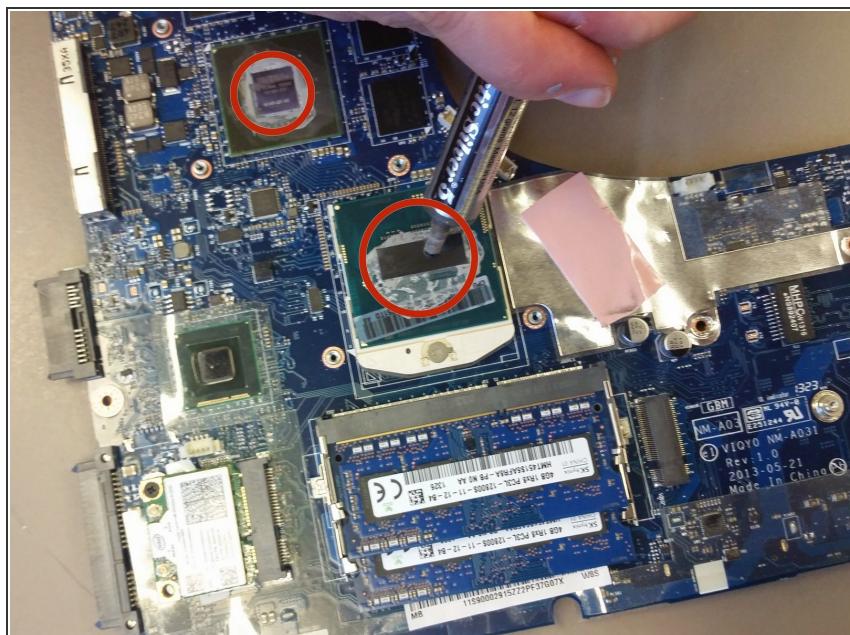
Step 10 — Remove Old Thermal Paste



- Find a paper towel or tissue and gently wipe the old thermal paste from the CPU and GPU
- Now wipe the old thermal paste from the underside of the heatsink

 Be careful not to mess up any of the pink thermal pads, these are important for other chips

Step 11 — Apply New Thermal Paste



- Apply new thermal paste to the CPU and GPU
-  Only apply a small bead approximately the size of a pea

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