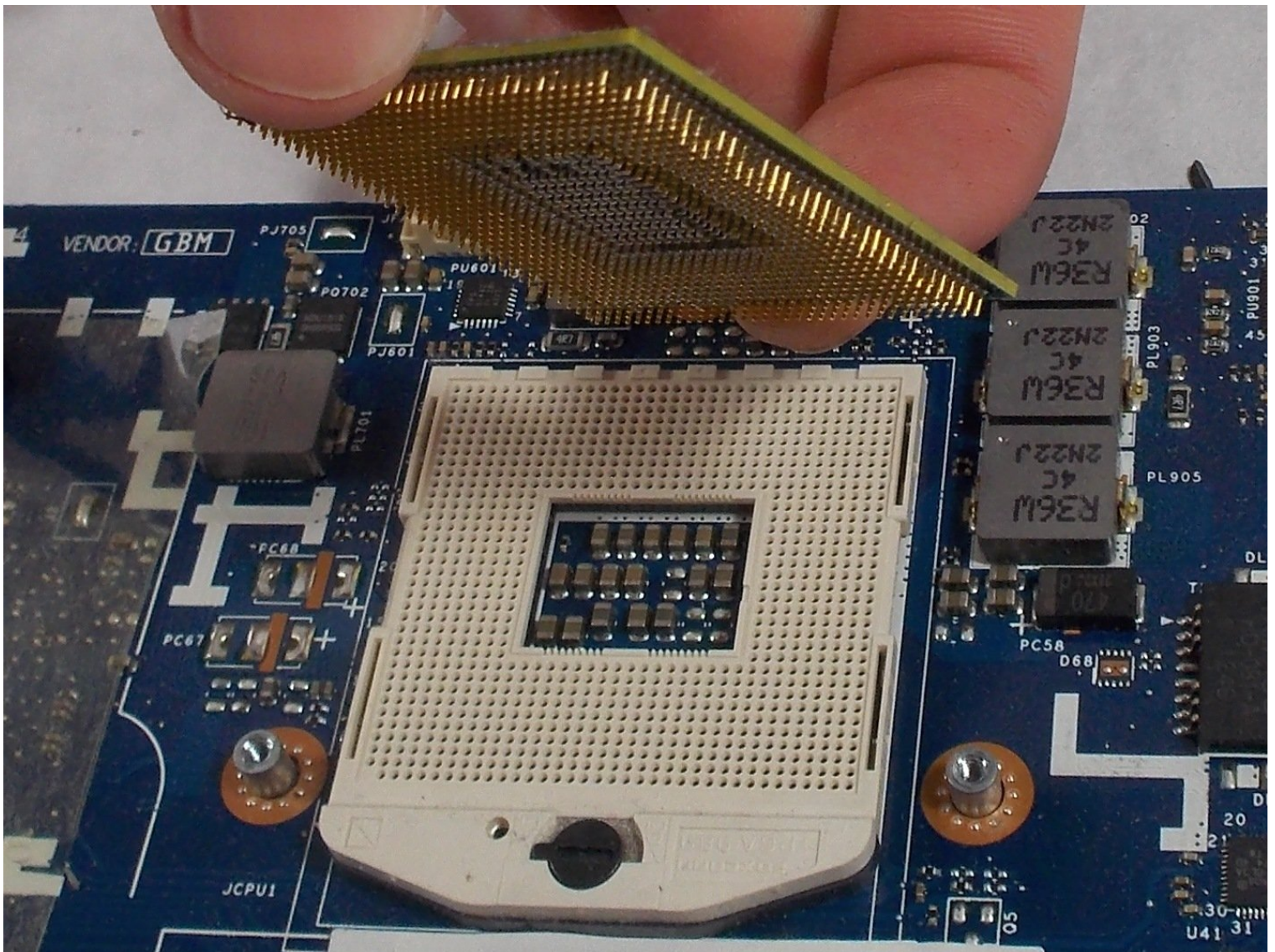# Lenovo IdeaPad N580 CPU Replacement

If your device is completely unresponsive or...

Written By: Alex Amorim

INTRODUCTION

If your device is completely unresponsive or continuously freezes as you work, the CPU may be the issue. To replace this part, follow this guide.

🔧 TOOLS:

Phillips #0 Screwdriver (1)
6-in-1 Screwdriver (1)
Spudger (1)
Arctic Silver Thermal Paste (1)

Step 1 — Battery

- Turn over the device so that the bottom is facing up. Make sure the hinged side is facing you.

Step 2

● Move the right switch towards the right until it clicks in place. You should then see the color red reveal from where the switch was originally.
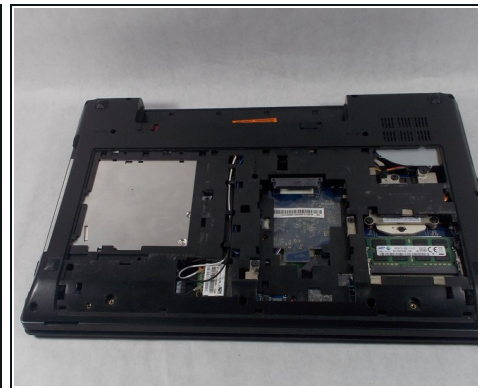
Step 3

● Now take your left hand and slide the left switch to the left.

ⓘ This switch will not click in place like the other switch, so make sure to keep your left hand on the switch.

Step 4

- Take your free hand and place it on the battery. Gently slide it away from its slot.
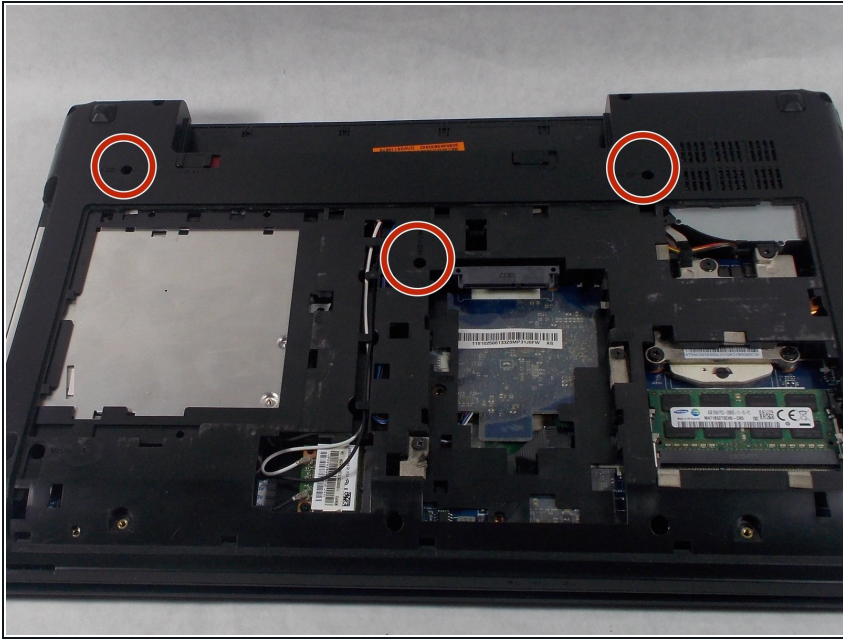
Step 5 — Keyboard and Trackpad

- Rotate the laptop so that now the hinge is facing away from you.

- Remove the two 2.5 x 4.0 mm Phillips #0 screws from the underside of the laptop.

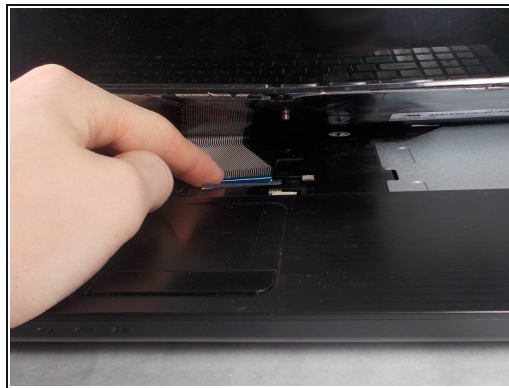- Slide the bottom panel towards you until it stops, and then carefully lift it off.
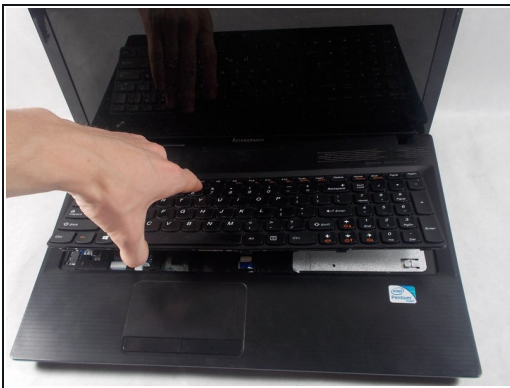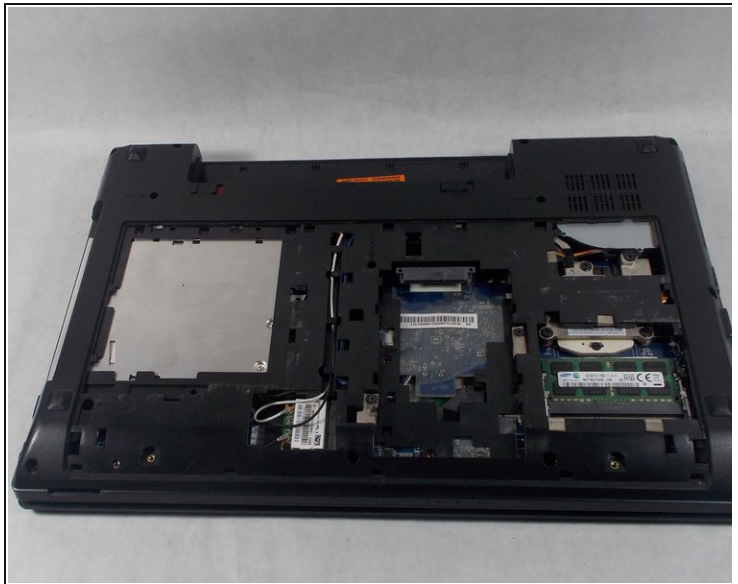
Step 6

- Remove the three 2.0 x 6.0 mm Phillips #0 screws located on the underside of the device.
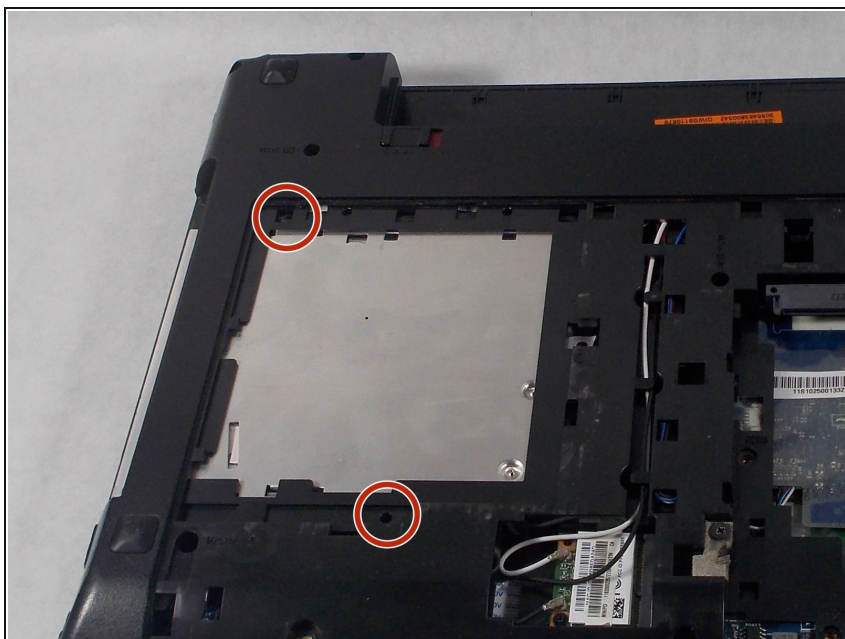
Step 7

- Turn the laptop right side up and open the lid.

- Using the spudger and your fingers, get in between the keyboard's edge and lift it up.

- Carefully lift the keyboard ribbon cable out of the socket it is in.

Step 8

- Remove the 2.5 x 6.0 mm Phillips #0 from the center of the device.

- Close the laptop and place it face down once again.
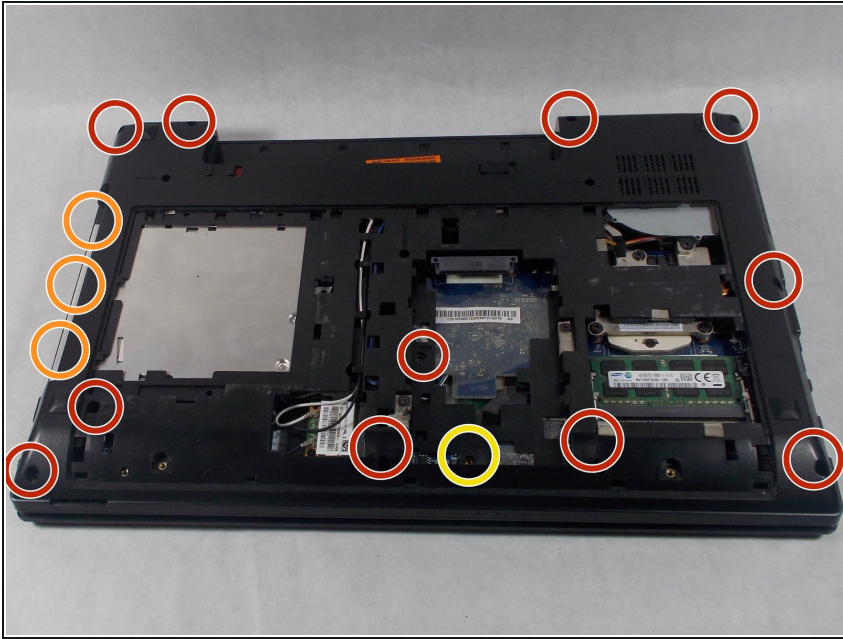
Step 9

- If a hard disk drive is installed, remove the two 2.5 x 4.0 mm Phillips #0 screws.

- Slide the hard disk drive out of its socket.
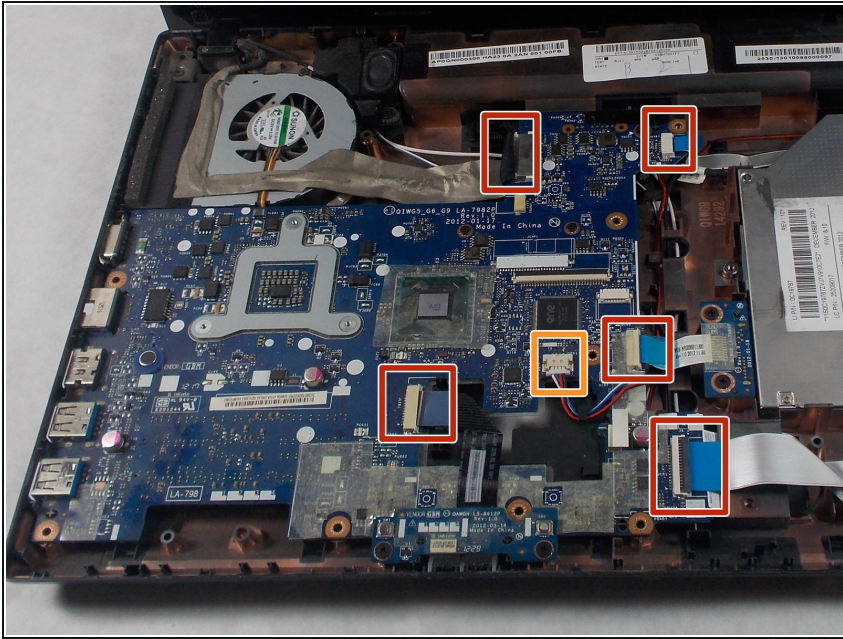
Step 10

- Remove the eleven 2.5 x 6.0 mm Phillips #0 screws.

- Remove the three 2.0 x 3.0 mm flat head screws.

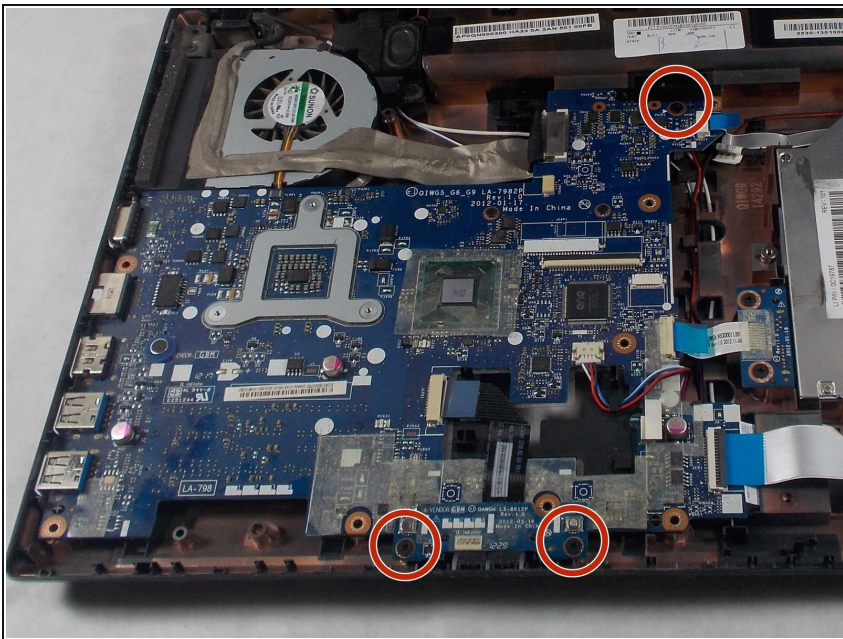- Remove the 2.5 x 4.0 mm Phillips #0 screw.

Step 11

- Turn the laptop right side up and open the lid.

- Disconnect the two ribbon cables from the center.

- Lift the keyboard bezel (with trackpad) straight up and out.

Step 12 — Motherboard

- ● Remove the five ribbon cables on the top of the computer.

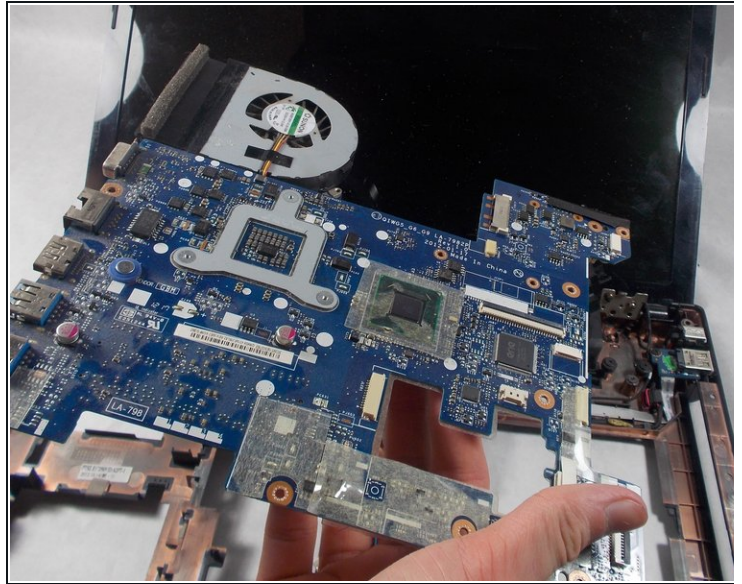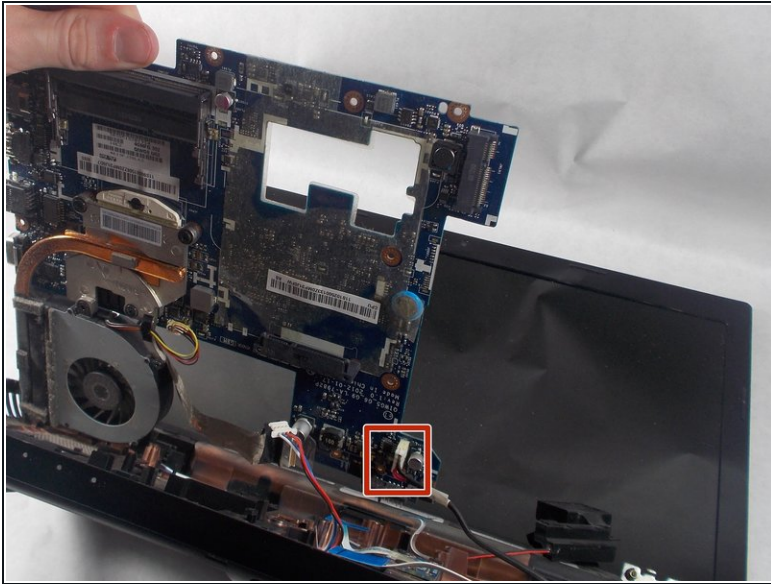- ● Gently remove the single cable from its socket.

Step 13

- ● Remove the three 2.5 x 3.0 mm Phillips #0 screws on the motherboard.
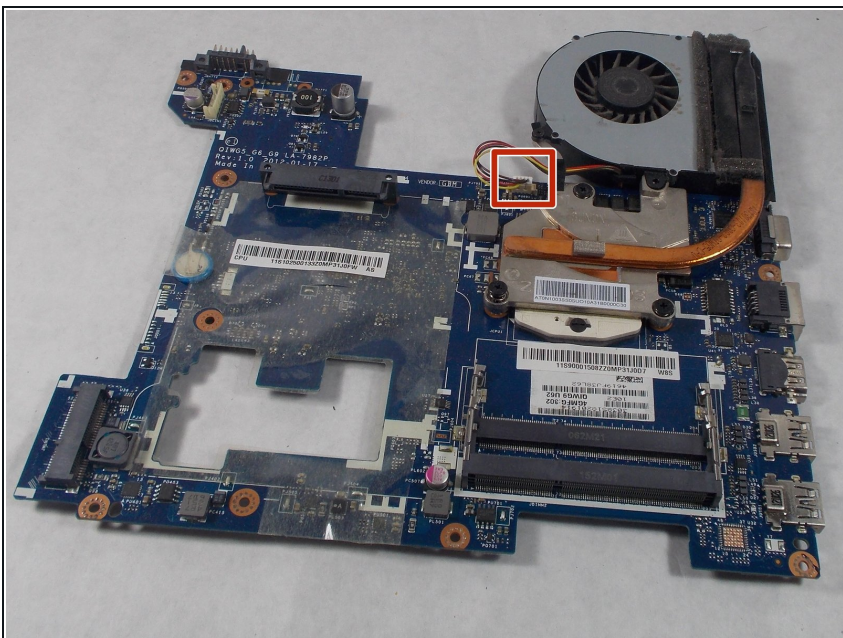
Step 14

- Using your fingers or a spudger, lift the motherboard slightly.

- Detach the single cable from underneath.

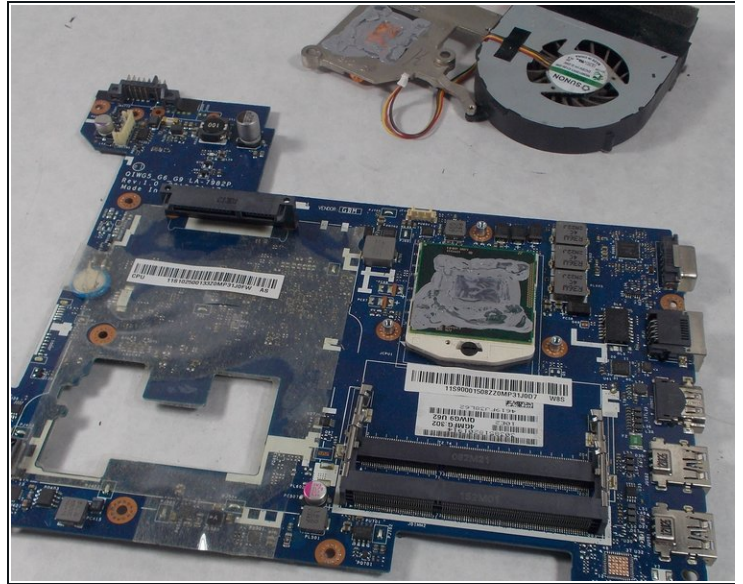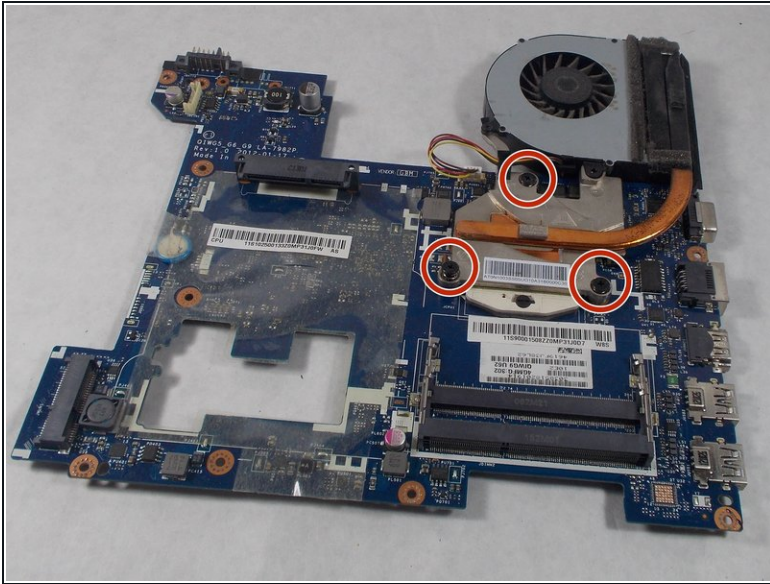- Lift the motherboard the rest of the way out.

Step 15 — CPU

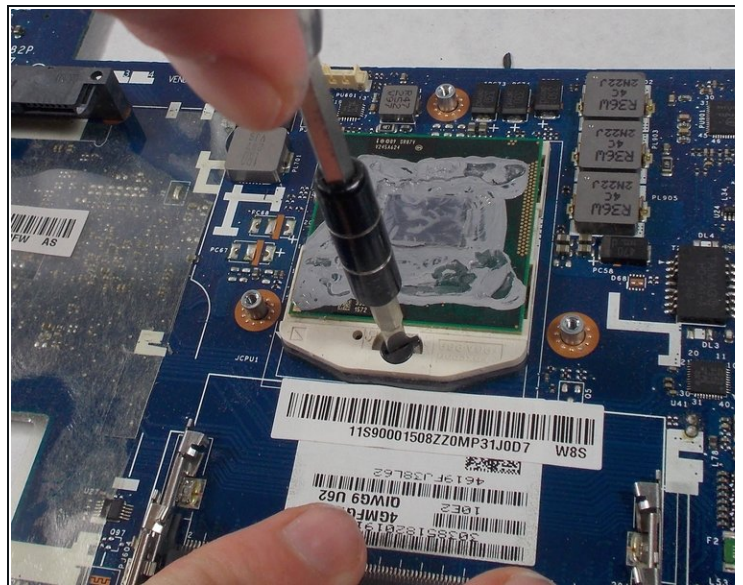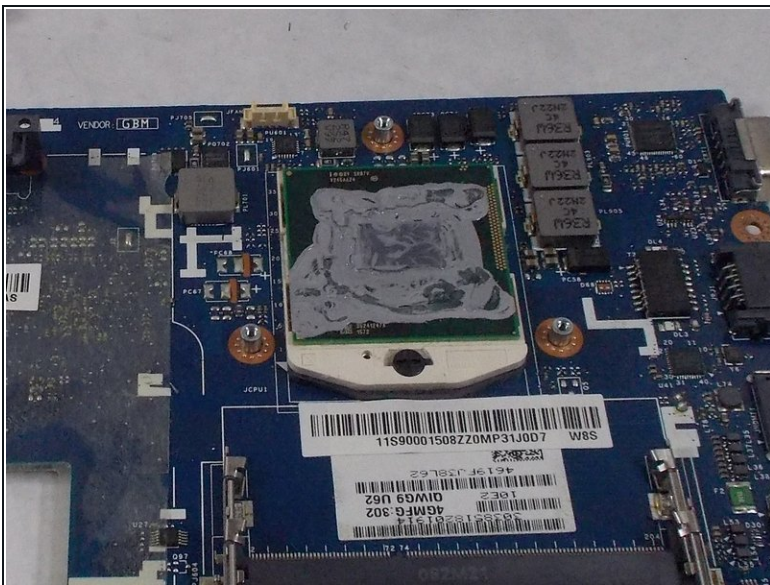- Detach the cable next to the fan assembly.

Step 16

- Remove the three 2.0 x 3.2 mm Phillips #0 screws from the fan.

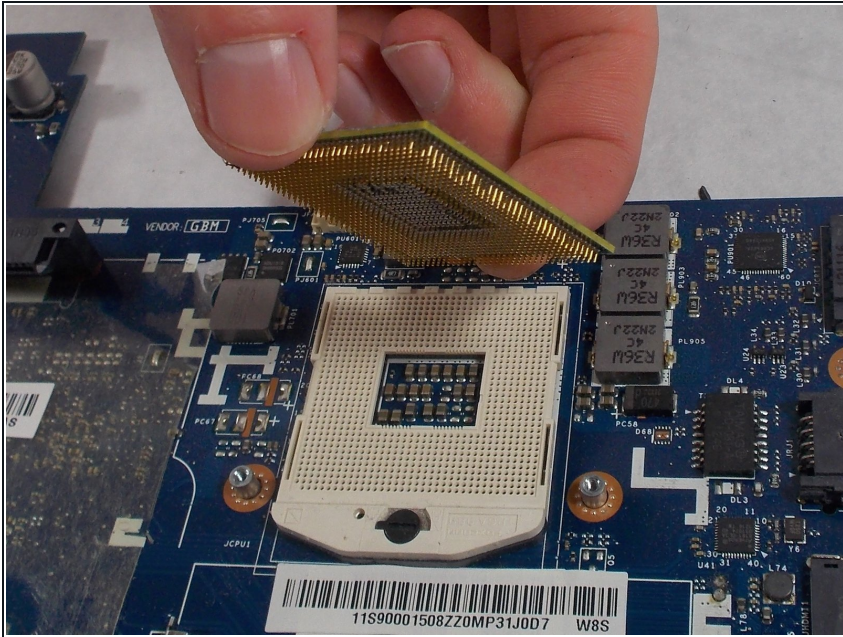- Lift the fan straight off the motherboard.

Step 17

- Using a flathead screwdriver, turn the beige lock to counterclockwise to unlocked.

Step 18

- Lift the CPU out of the socket.

- (i) Upon replacing the CPU and re-locking back in place, remember to apply thermal paste in order to prevent overheating.

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