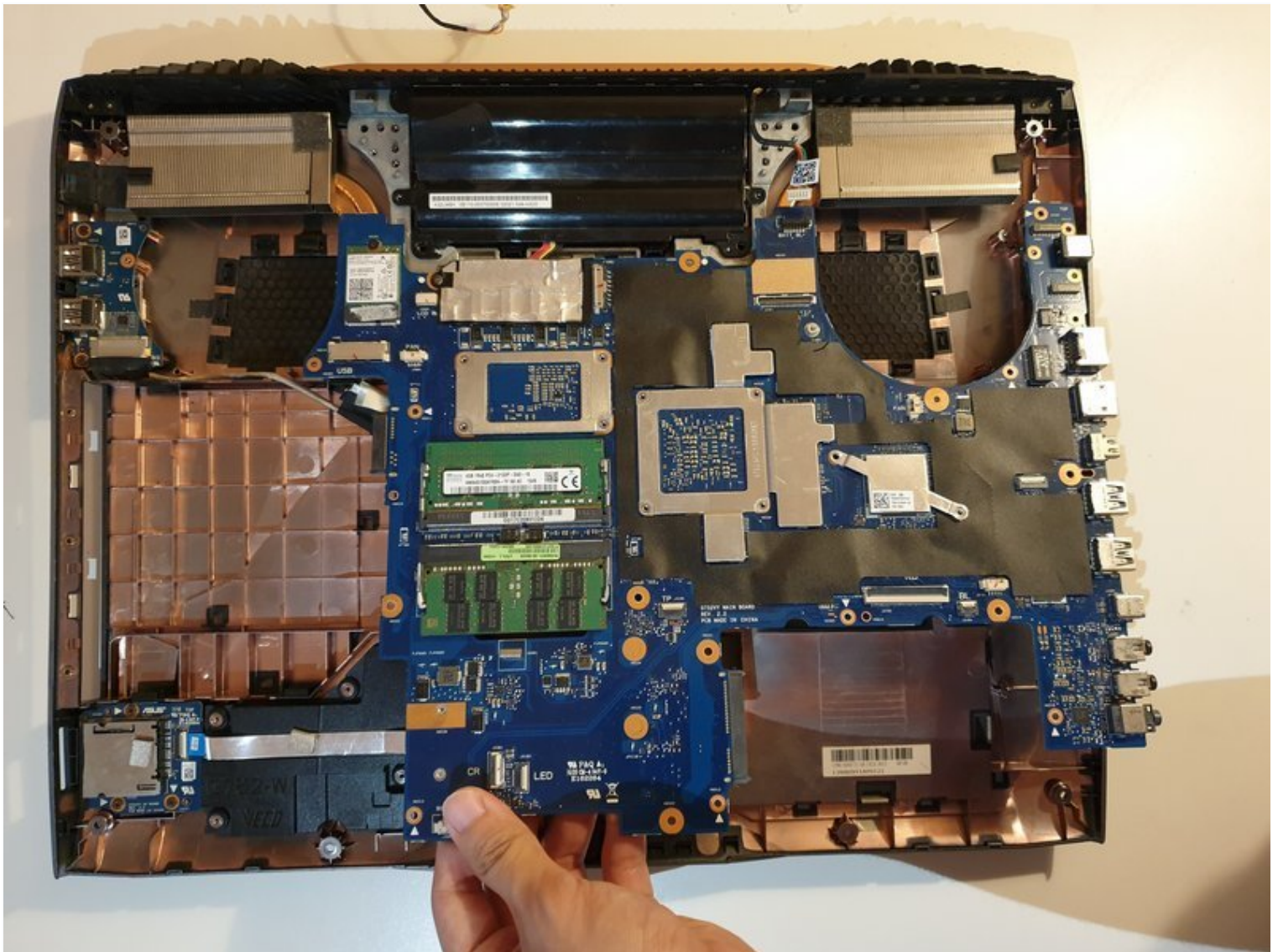




Asus ROG G752V Motherboard Replacement

Use this guide if you need to replace the mothe...

Written By: Jeong



INTRODUCTION

Use this guide if you need to replace the motherboard in your Asus ROG G752V.

The motherboard acts as a single platform to connect all of the parts of a computer together. It serves as the computer's nervous system.

Reasons to replace your motherboard:

- Physical damage to the board
- If peripherals work intermittently, try using different peripherals in different ports to see if it is a bad port, bad peripheral, or bad motherboard
- Computer does not post (No bios on startup)
- Upgrades

Before beginning, make sure to power off your computer. Disconnect it from any external power source. Remove dust build-up with a dust blower.



TOOLS:

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

[iFixit Opening Tool](#) (1)

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

[Tweezers](#) (1)

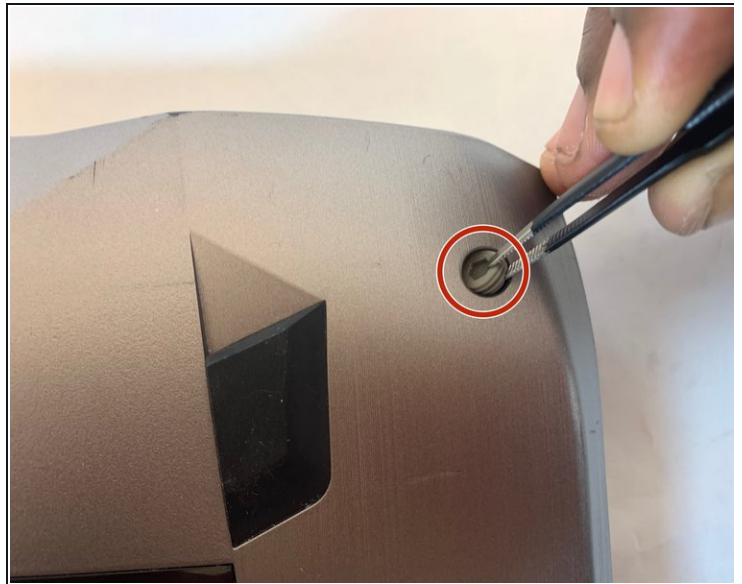
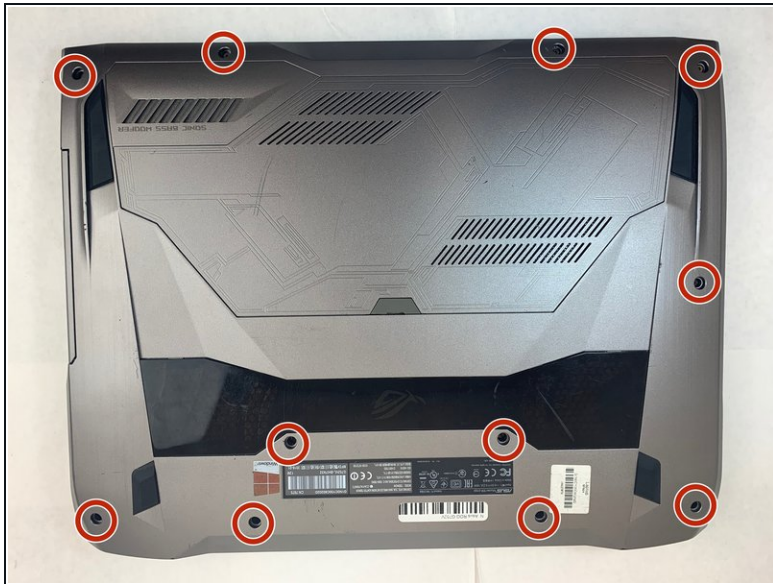
[Tweezers](#) (1)



PARTS:

[ASUS ROG G752V Motherboard](#) (1)

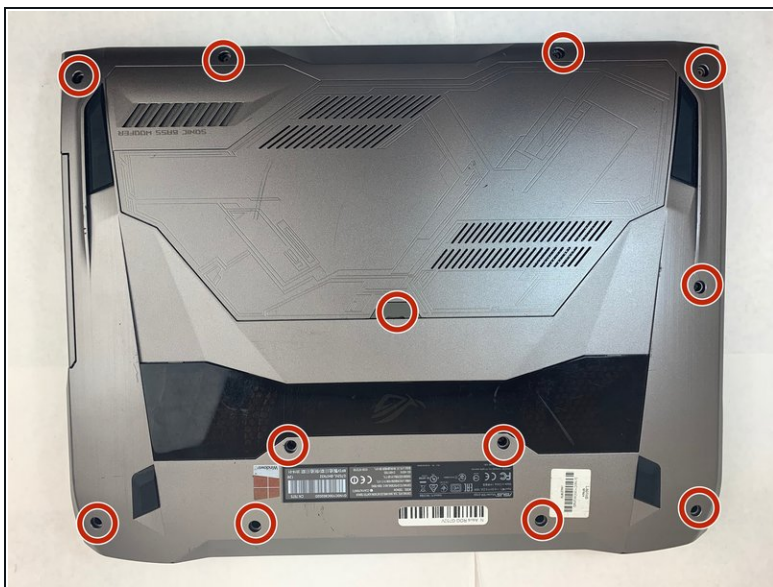
Step 1 — Battery



⚠ Make sure you disconnect the charger before starting this guide.

- Pick out all 11 rubber plugs off of the back cover with a pair of tweezers.

Step 2



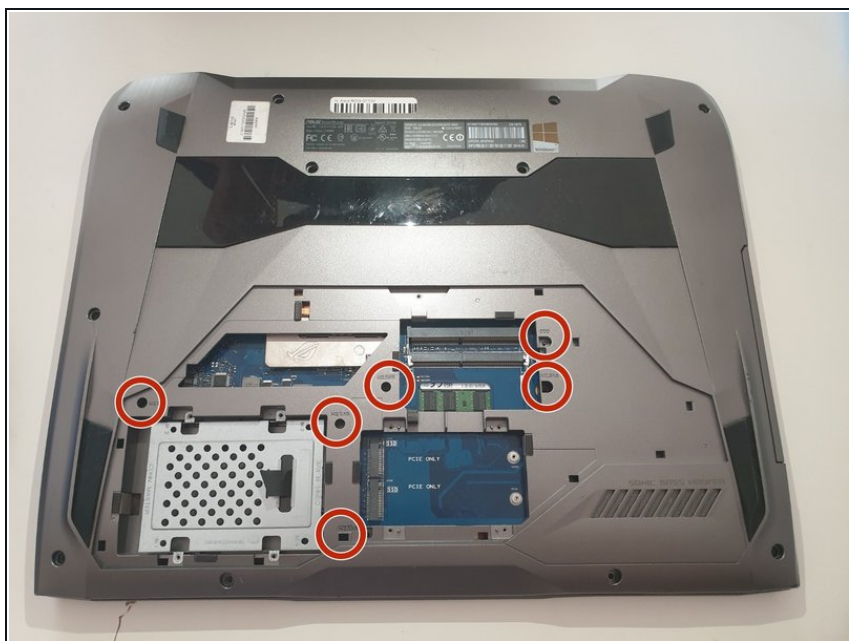
- Using the Phillips #0 screwdriver, unscrew all twelve 5.2 mm screws on the back of the laptop.
- ① There is one 5.2 mm screw under the rubber plug in the middle.

Step 3



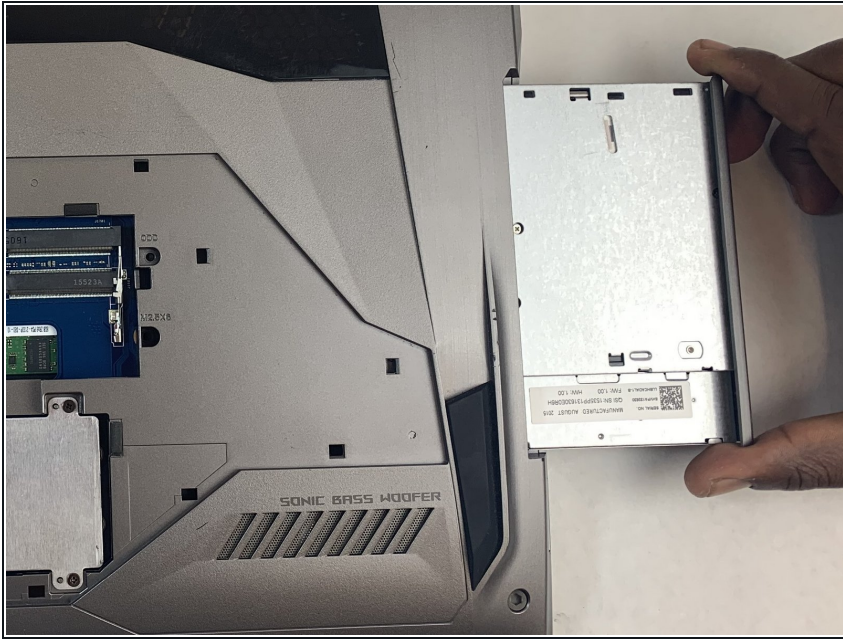
- Pull up the rubber seal and the service cover will come off.

Step 4



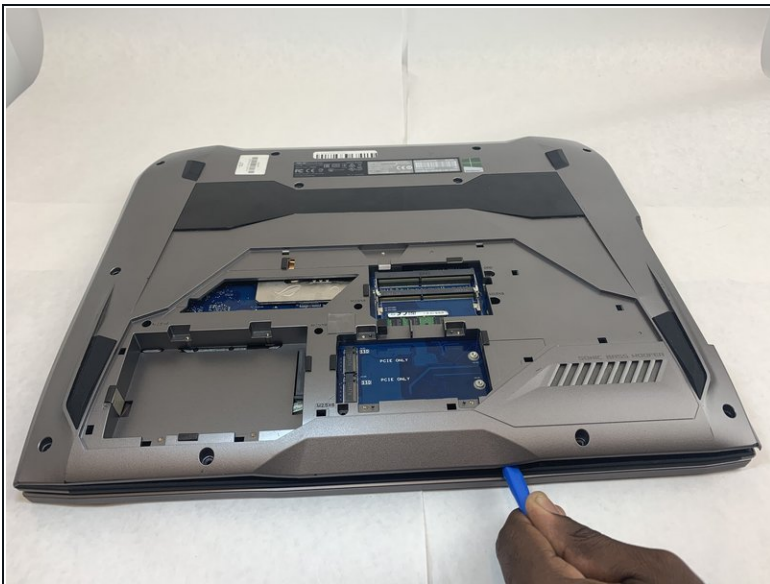
- Using the Phillips #00 screwdriver, remove the six 5.2 mm screws under the service cover.

Step 5



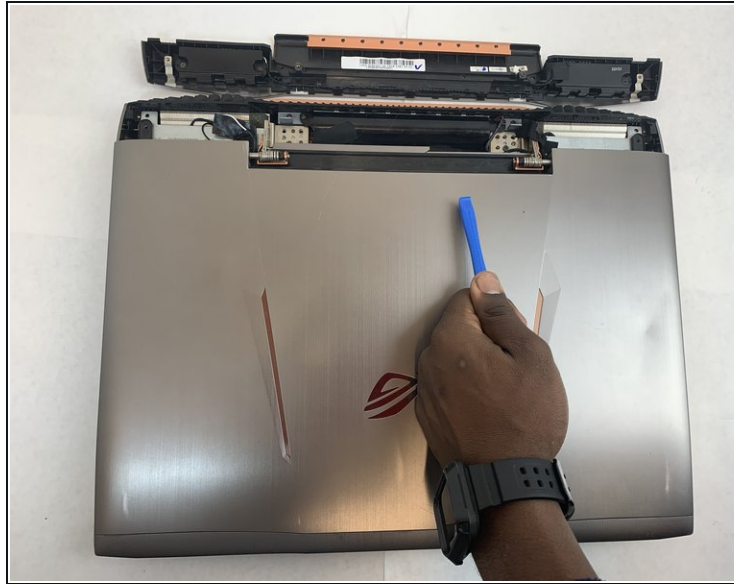
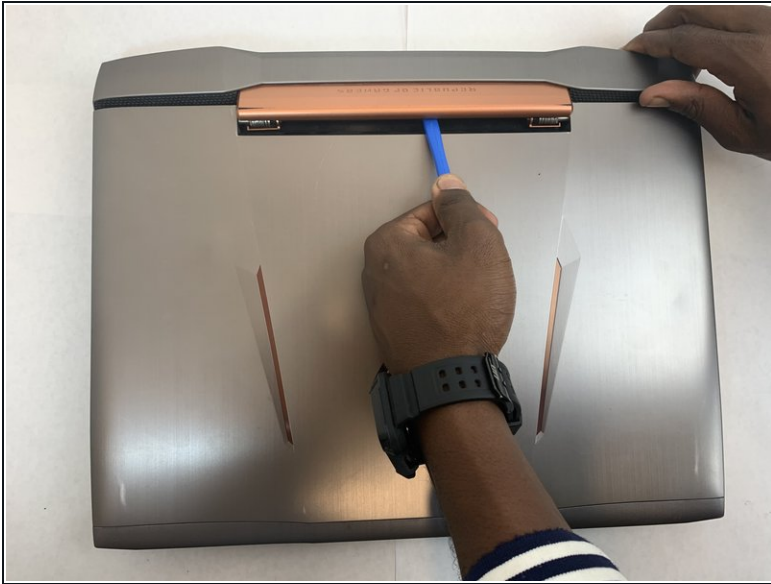
- Using your hands, pull the optical drive out.

Step 6



- Use the iFixit Opening Tool to pry apart the back panel from the main body of the laptop.
 - ① Start from the front side of the laptop and then continue to the side for easier access.

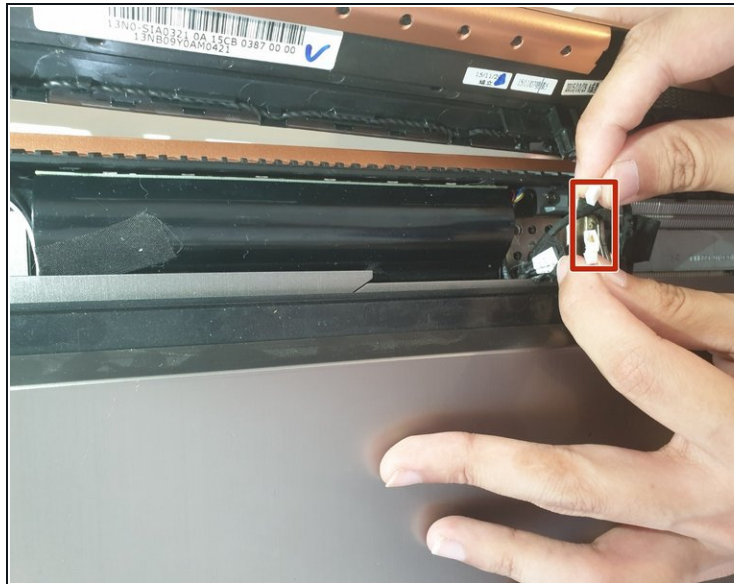
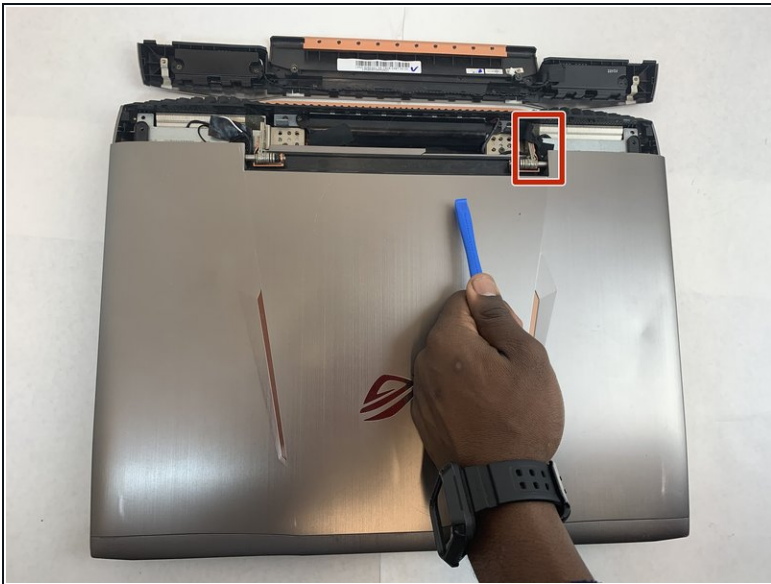
Step 7



- Remove the hinge on the back of the laptop cover using the iFixit Opening Tool. The piece should pop off.

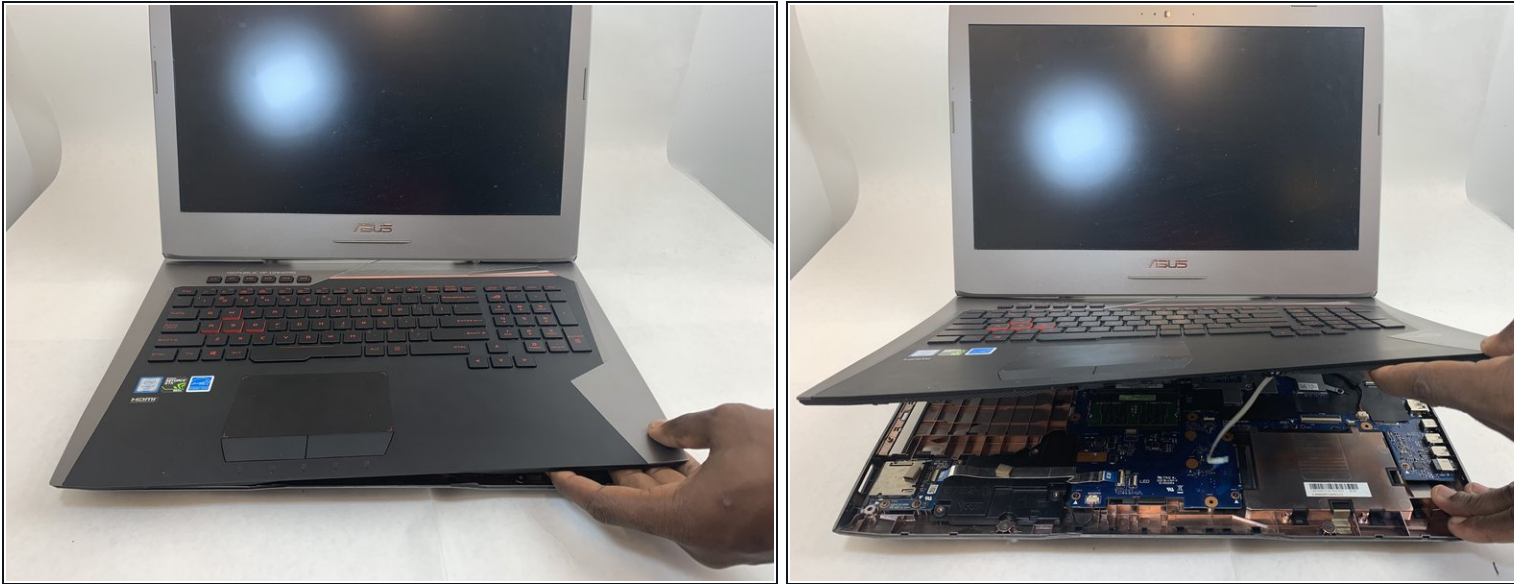
⚠ Be gentle with the cover because there is a speaker wire attached to it.

Step 8



- Disconnect the speaker wire.

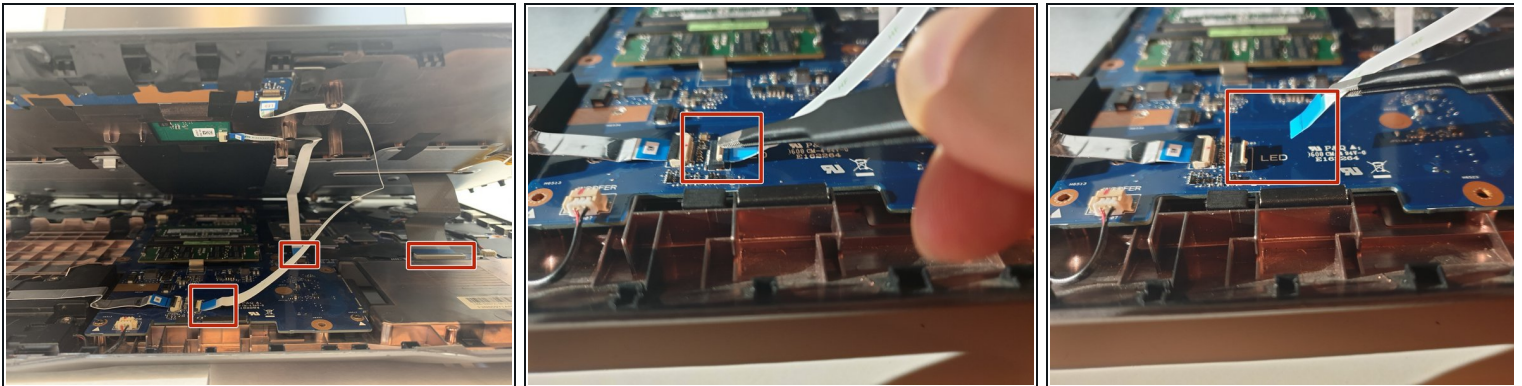
Step 9



- Slowly pull out the keyboard while lifting it about an inch.

⚠ There are cables attached to the keyboard and motherboard. DO NOT lift it more than 2 inches above the laptop.

Step 10



- Using an ESD safe tool, detach all 3 ribbon cables securing the keyboard to the laptop.
- ① To unlock a [ZIF connector](#), use the tip of a spudger or your fingernail to flip up the small, hinged locking flap.

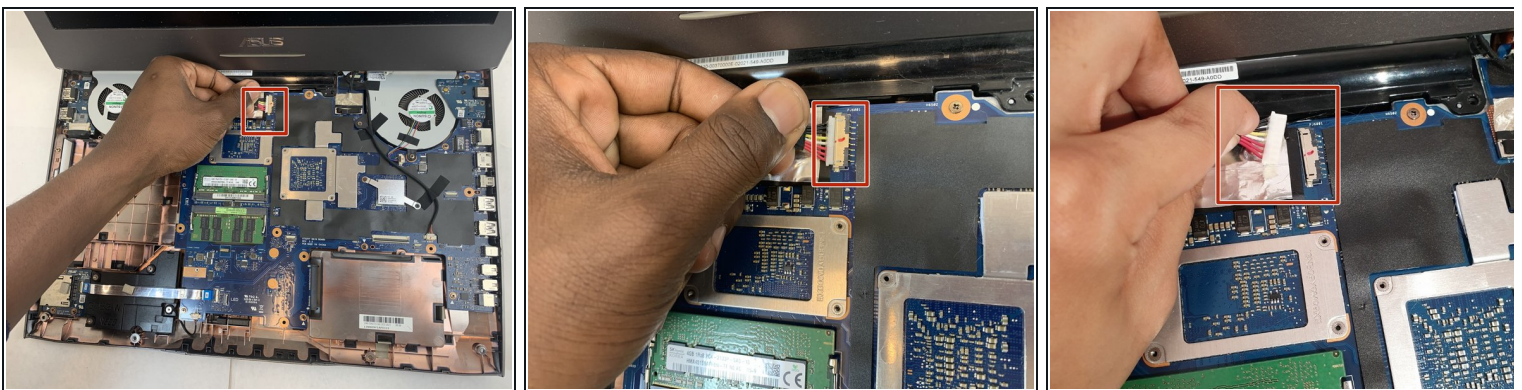
Step 11



- Once the cables are detached, lift the keyboard about 2 inches up and remove it from the rest of the body.

⚠ Make sure that the screen is open like the photo. This will ensure that none of your laptop components will be bent.

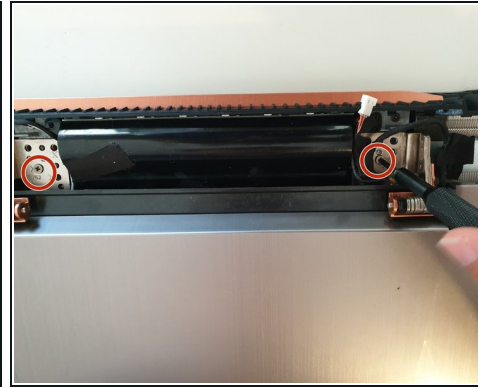
Step 12



- Disconnect the battery cable from its motherboard socket by gently pulling it towards the left of the socket.

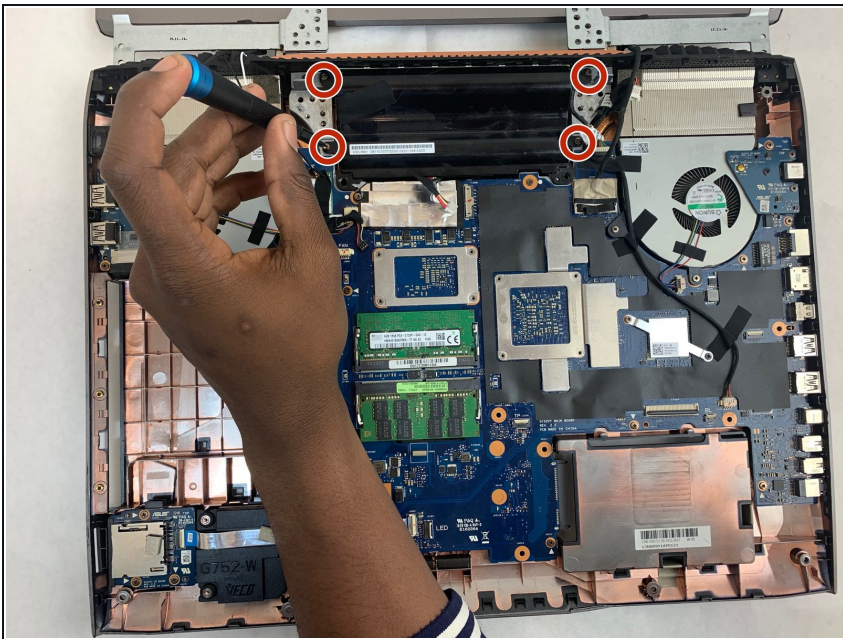
⚠ Pull parallel to the motherboard, not straight up.

Step 13



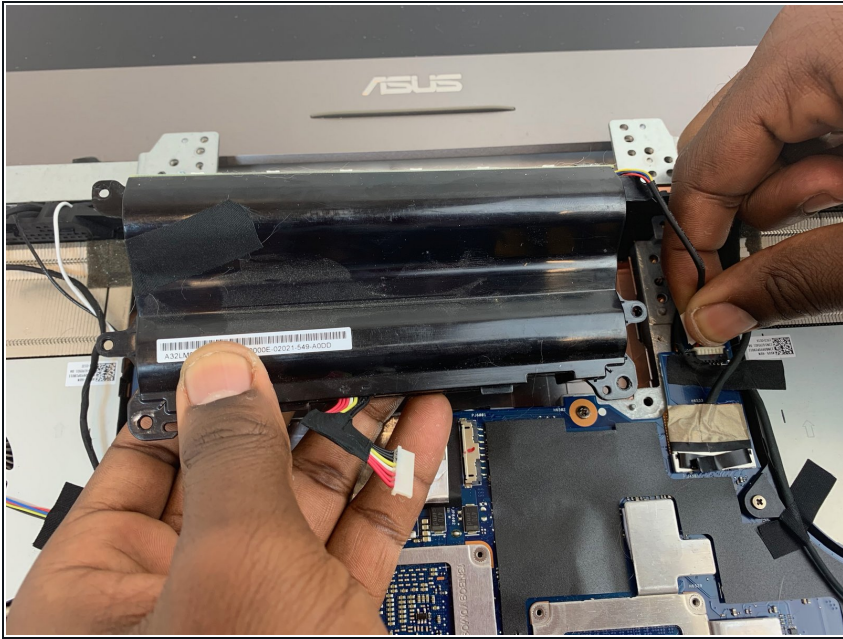
- Remove two 5.8 mm screws holding the screen and the laptop located at the hinge.
 - ❗ This will unlatch the screen from the laptop entirely.
- Remove the screen.

Step 14



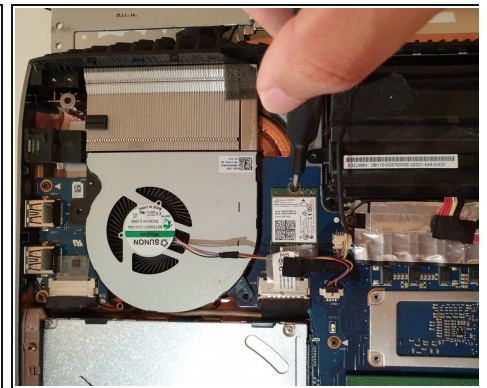
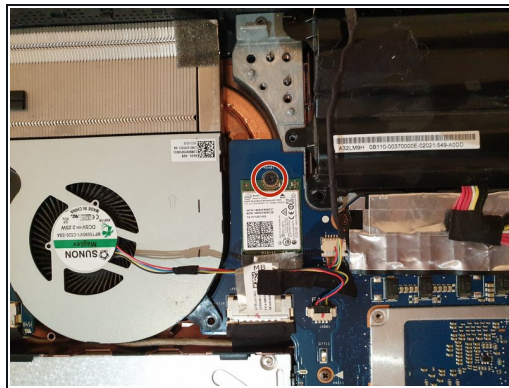
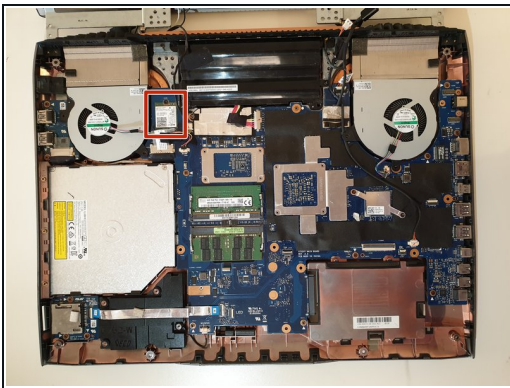
- Remove the four 5.8 mm screws securing the battery to the laptop.

Step 15



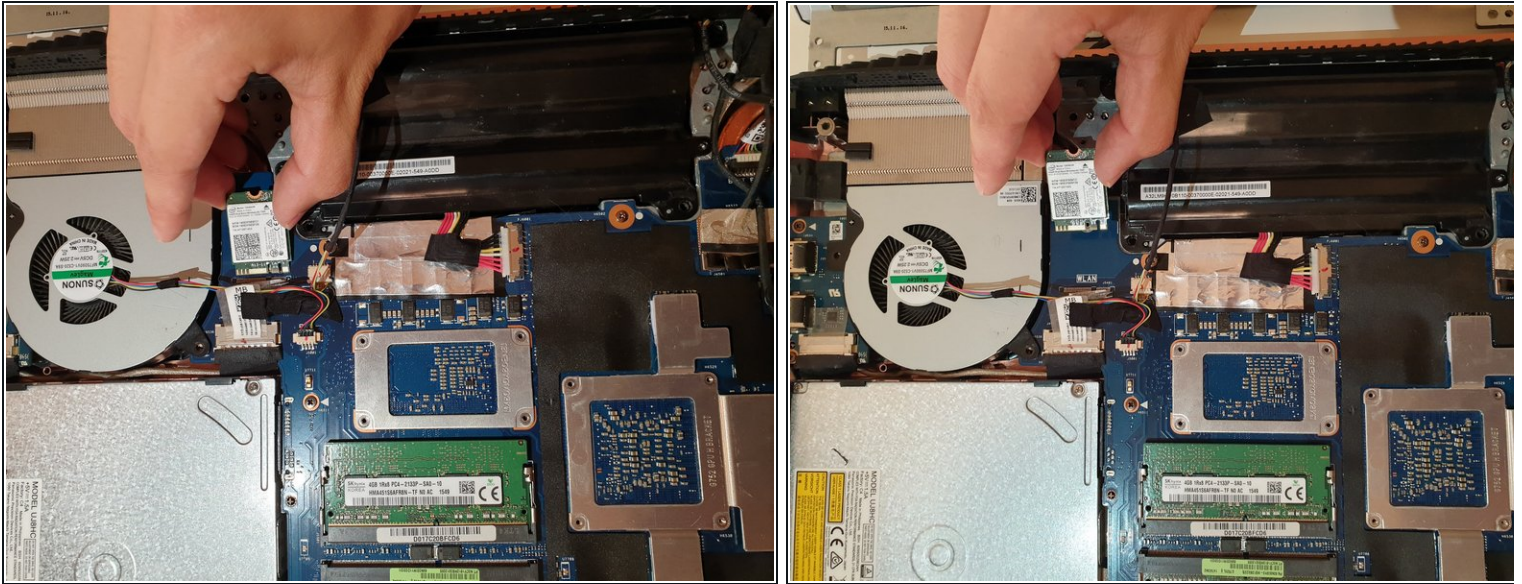
- Use your hands to remove the battery.
- ❗ If you're having trouble, push down on the black plastic on the screen side of the battery. This should release the battery.

Step 16 — Wireless Card



- Unscrew one 3mm Philips #00 screw on the wireless card.

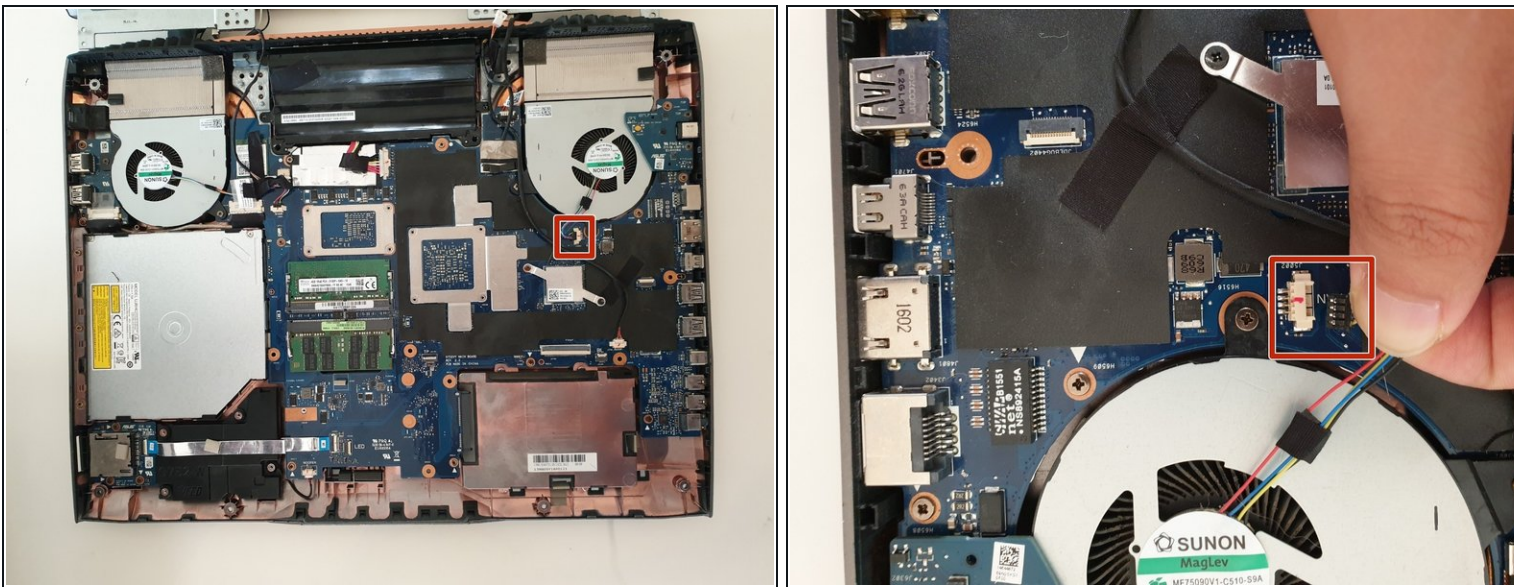
Step 17



- Using your hands, unlatch the wireless card by pulling it out toward the screen.

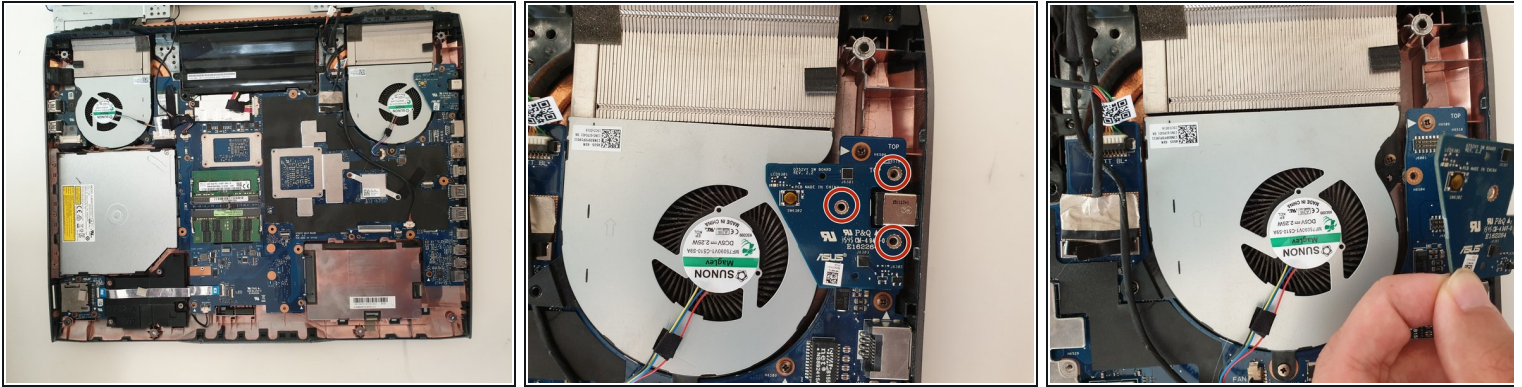
⚠ Gently wiggle the card and pull it out of the motherboard.

Step 18 — Fan



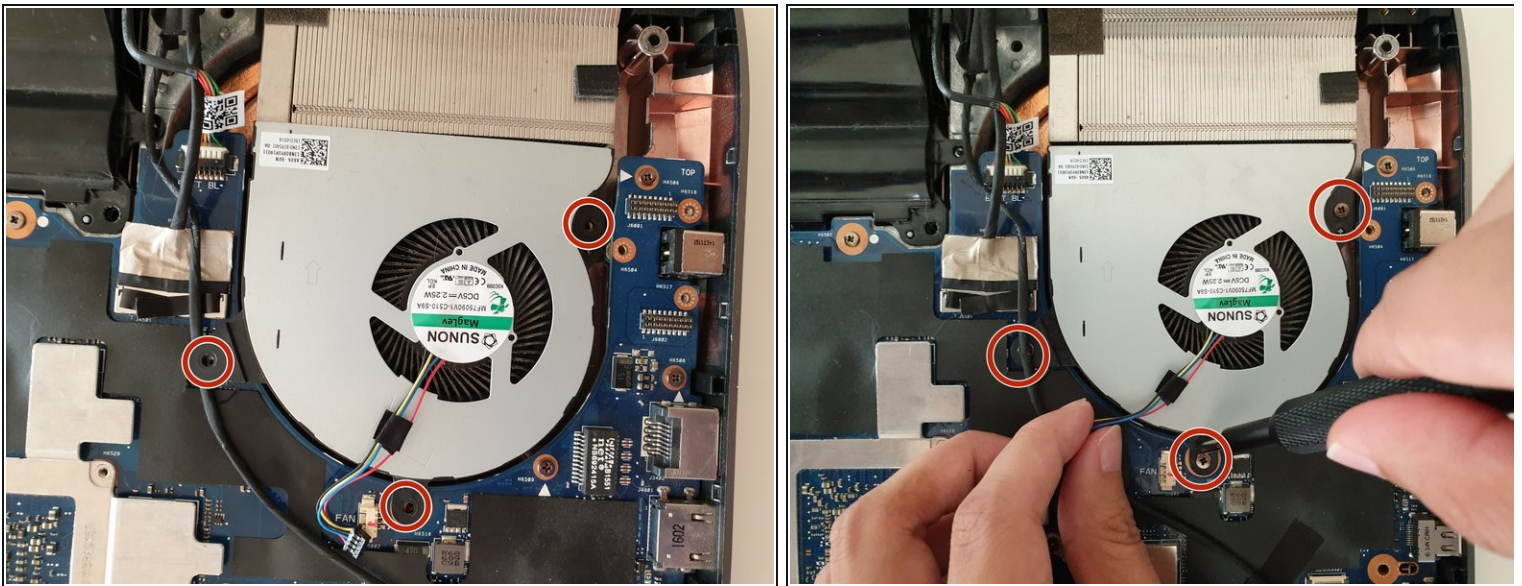
- Unplug the fan-motherboard connection cable.

Step 19



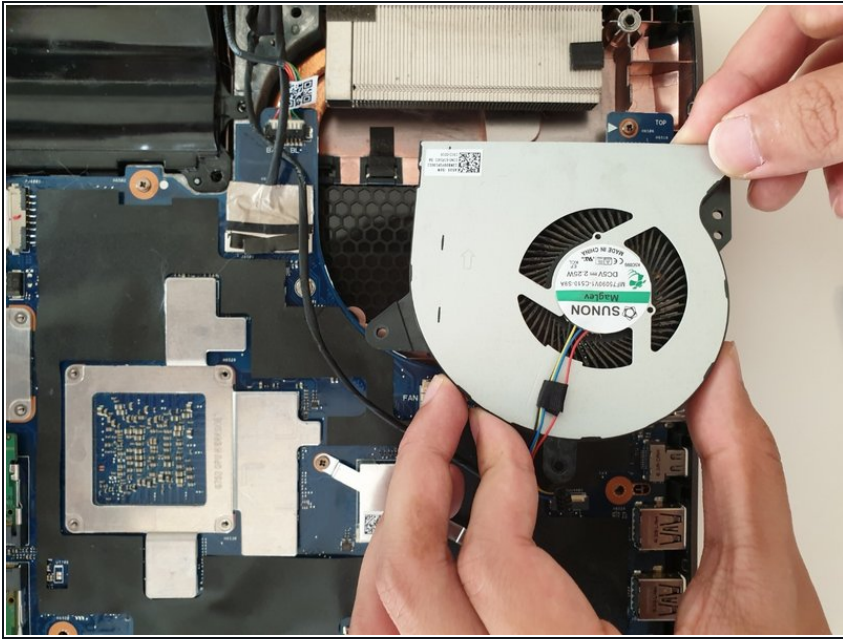
- Unscrew and remove the three 5.8mm screws on the small circuit board to the right of the right side fan with a Phillips #00 screwdriver.
- Lift up the small circuit board covering the fan and put it aside.

Step 20



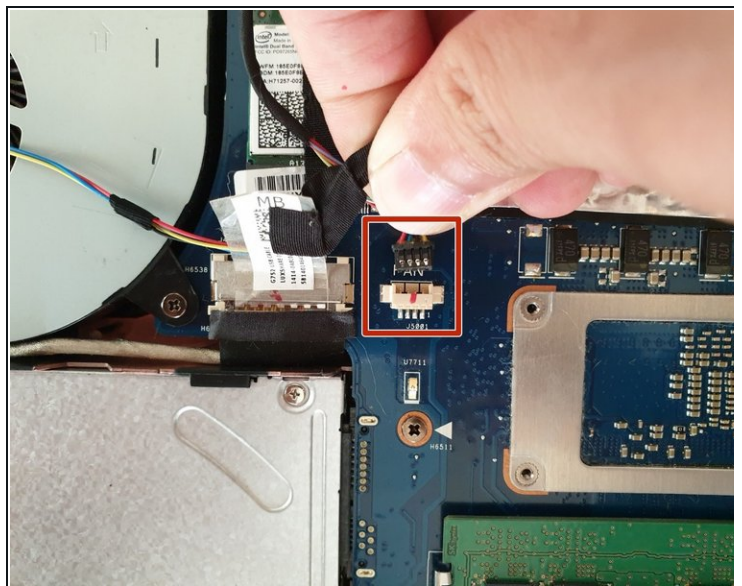
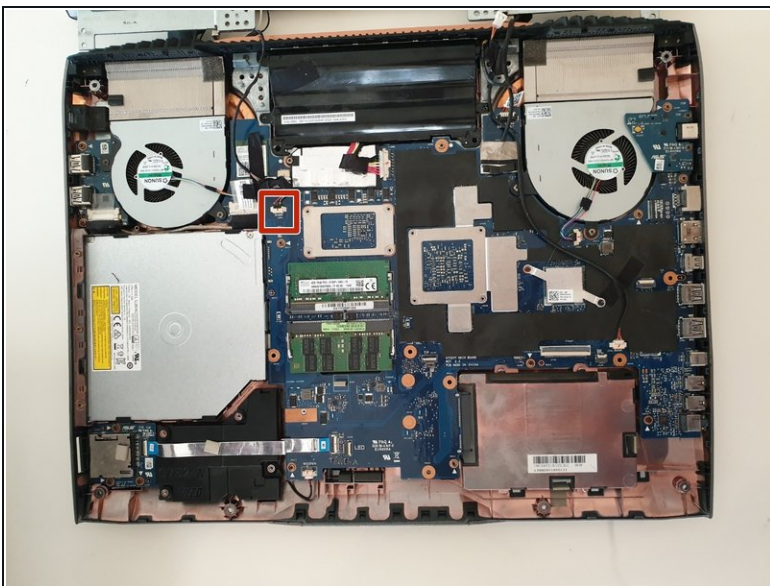
- Using a Phillips #00 screwdriver, remove the three 5.2 mm screws that connect the fan to the motherboard.

Step 21



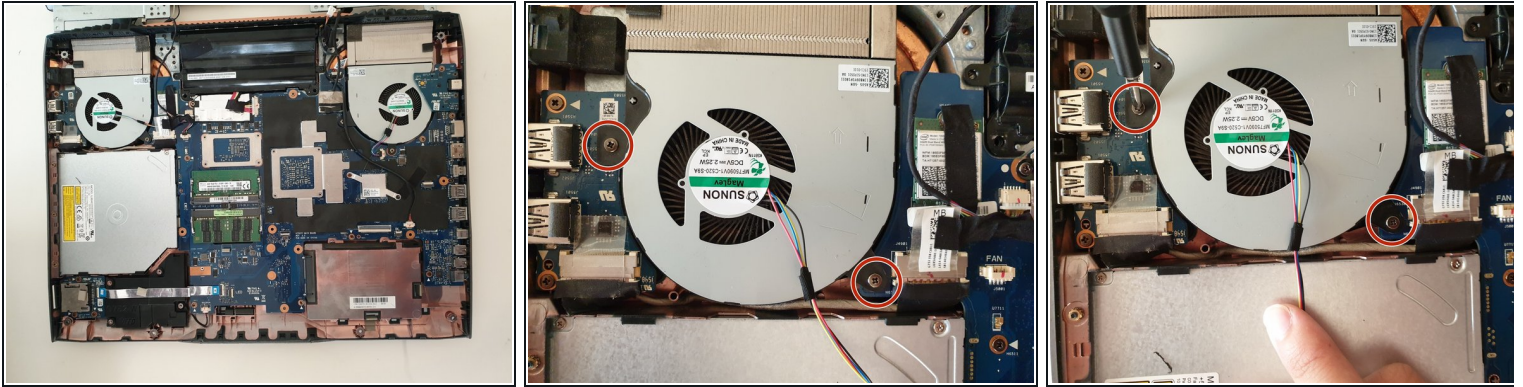
- With your hands, slowly and carefully lift up the right side fan.

Step 22



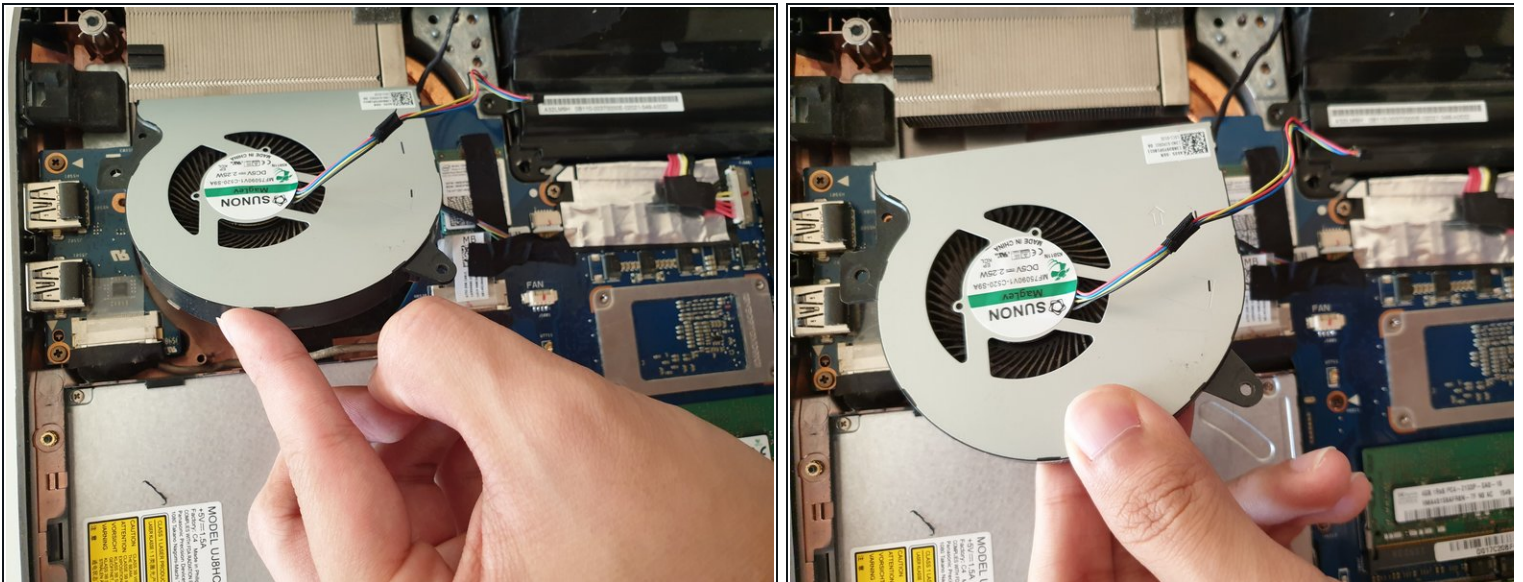
- Carefully unlatch the left side fan cable from the motherboard.

Step 23



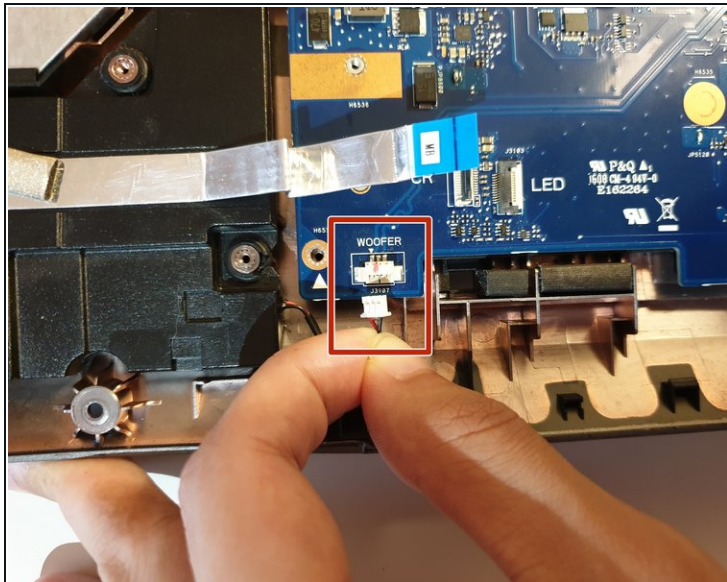
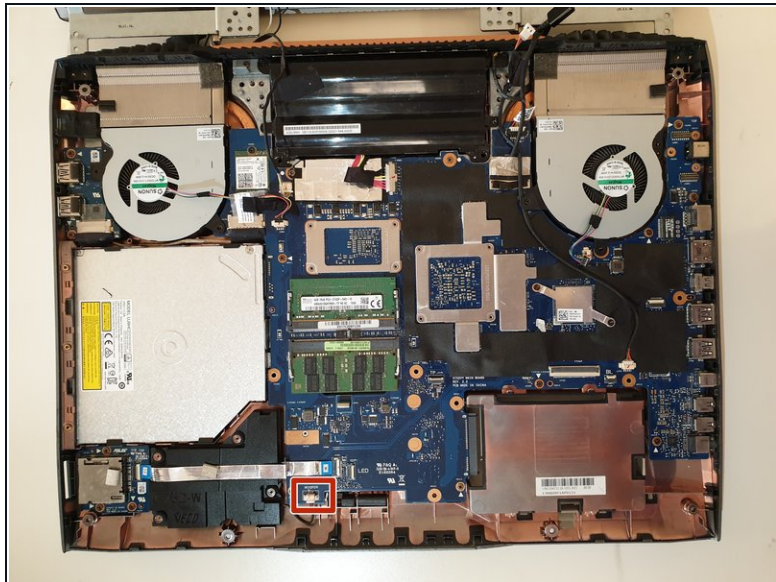
- Using a Phillips #00 screwdriver, remove the two 5.8mm screws that connect the left fan to the motherboard.

Step 24



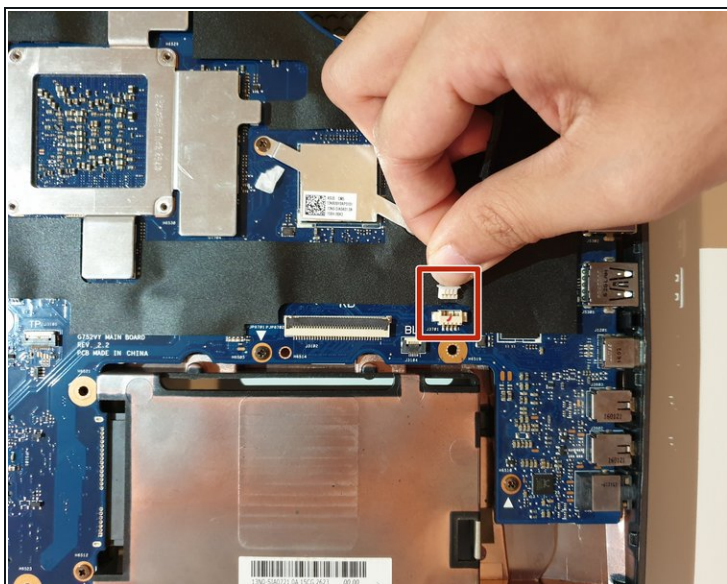
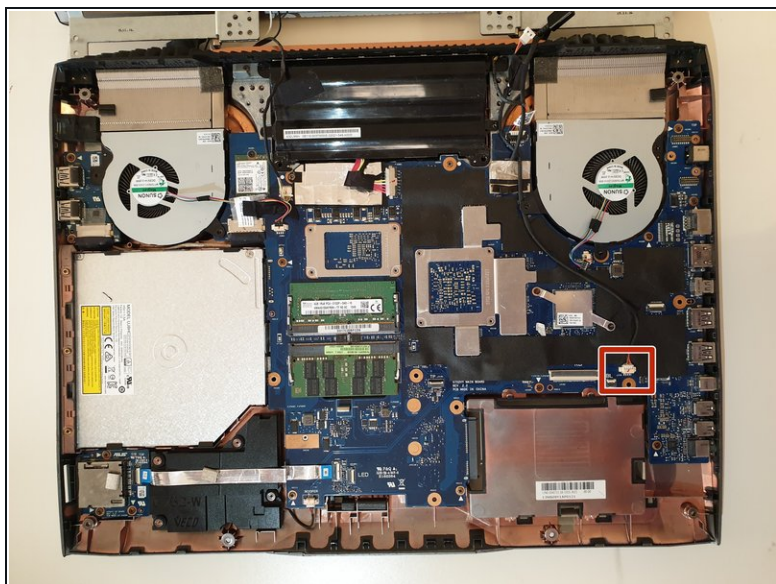
- With your hands, carefully lift the left fan and unlatch the fan from the motherboard.

Step 25 — Motherboard



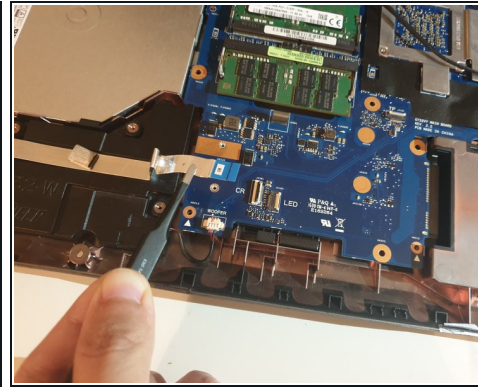
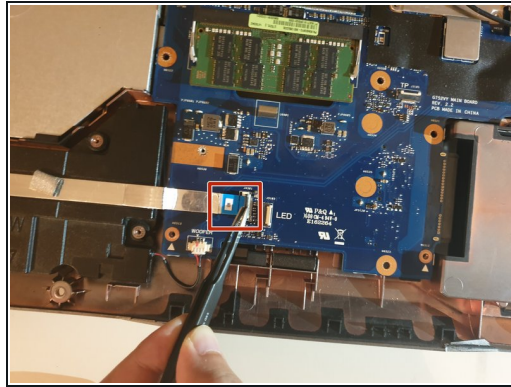
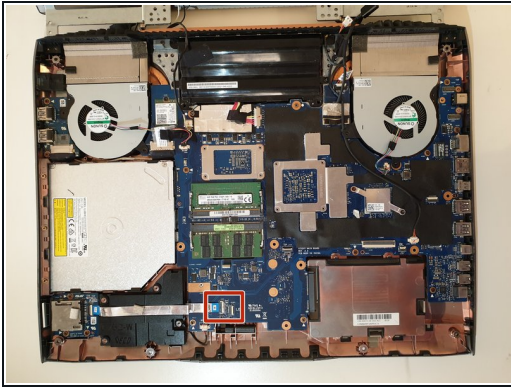
- Using your hand, detach the Woofer Cable.

Step 26



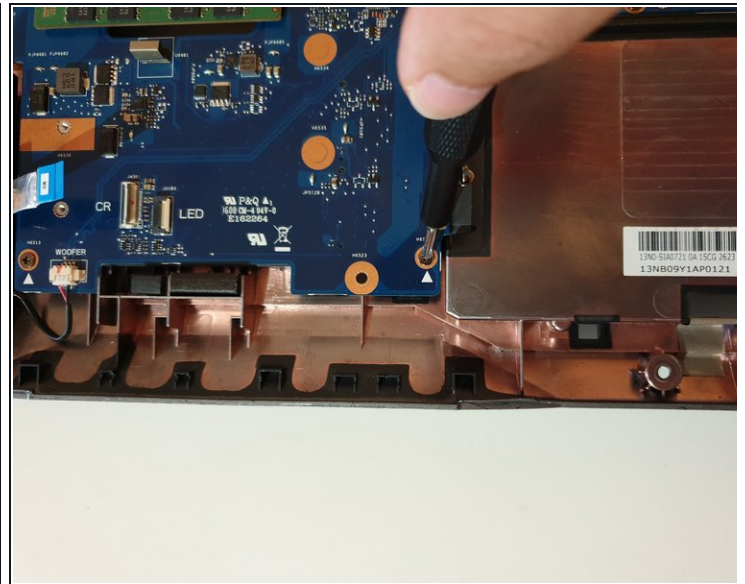
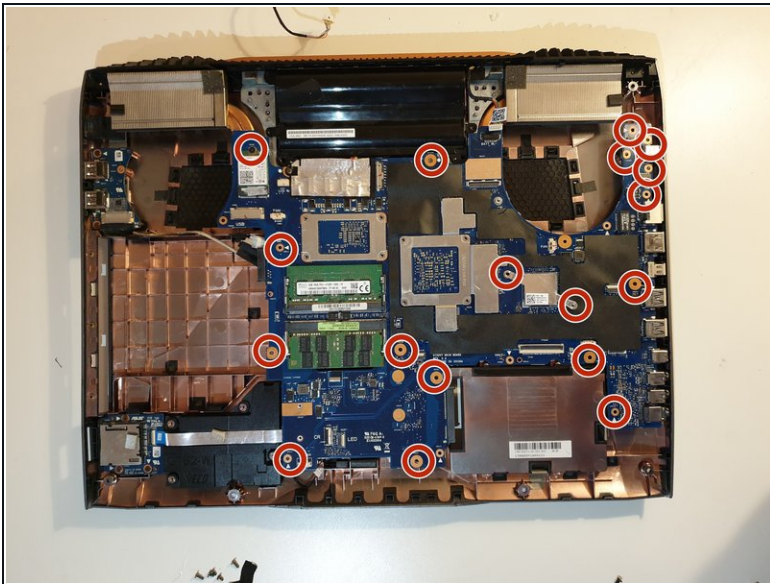
- Using your hand, detach the Speaker cable.

Step 27



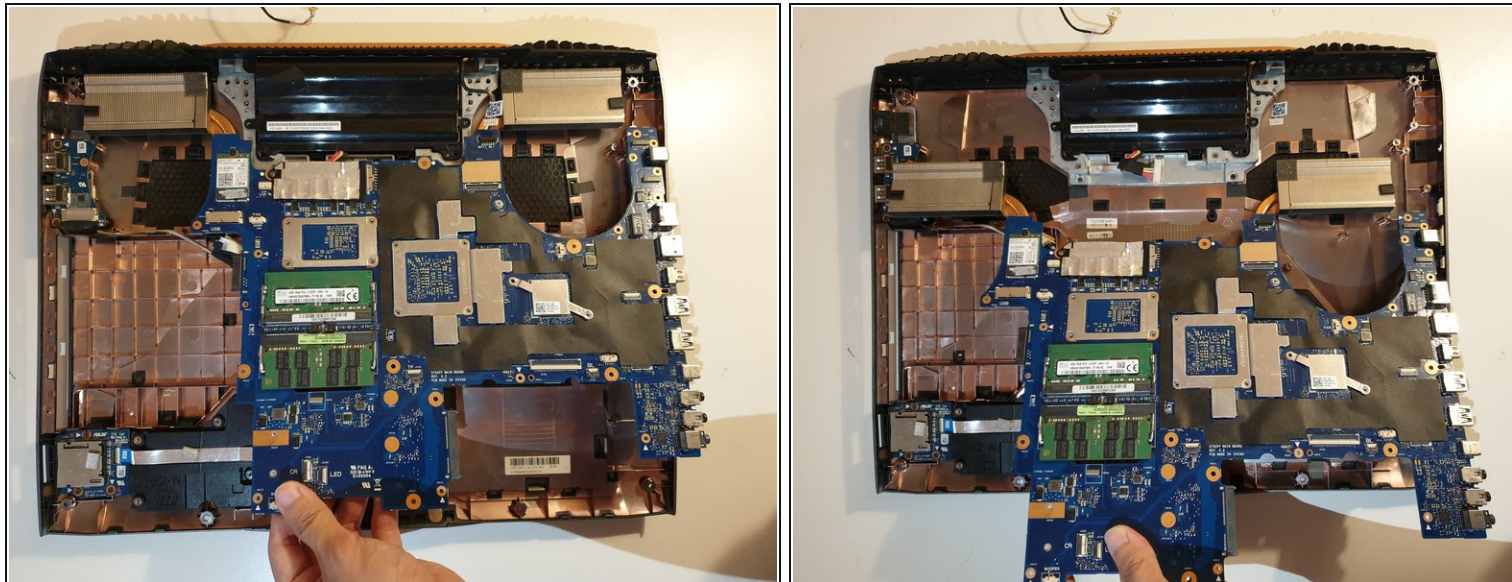
- Using an ESD safe tool, first unlatch the ZIF connector clasp and then pull the cord disconnecting the SD card reader.

Step 28



- Unscrew eighteen 5.8 mm screws from the motherboard with a Phillips #00 screwdriver.

Step 29



- Using your hands, unlatch the motherboard by lifting it up directly above the laptop.

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