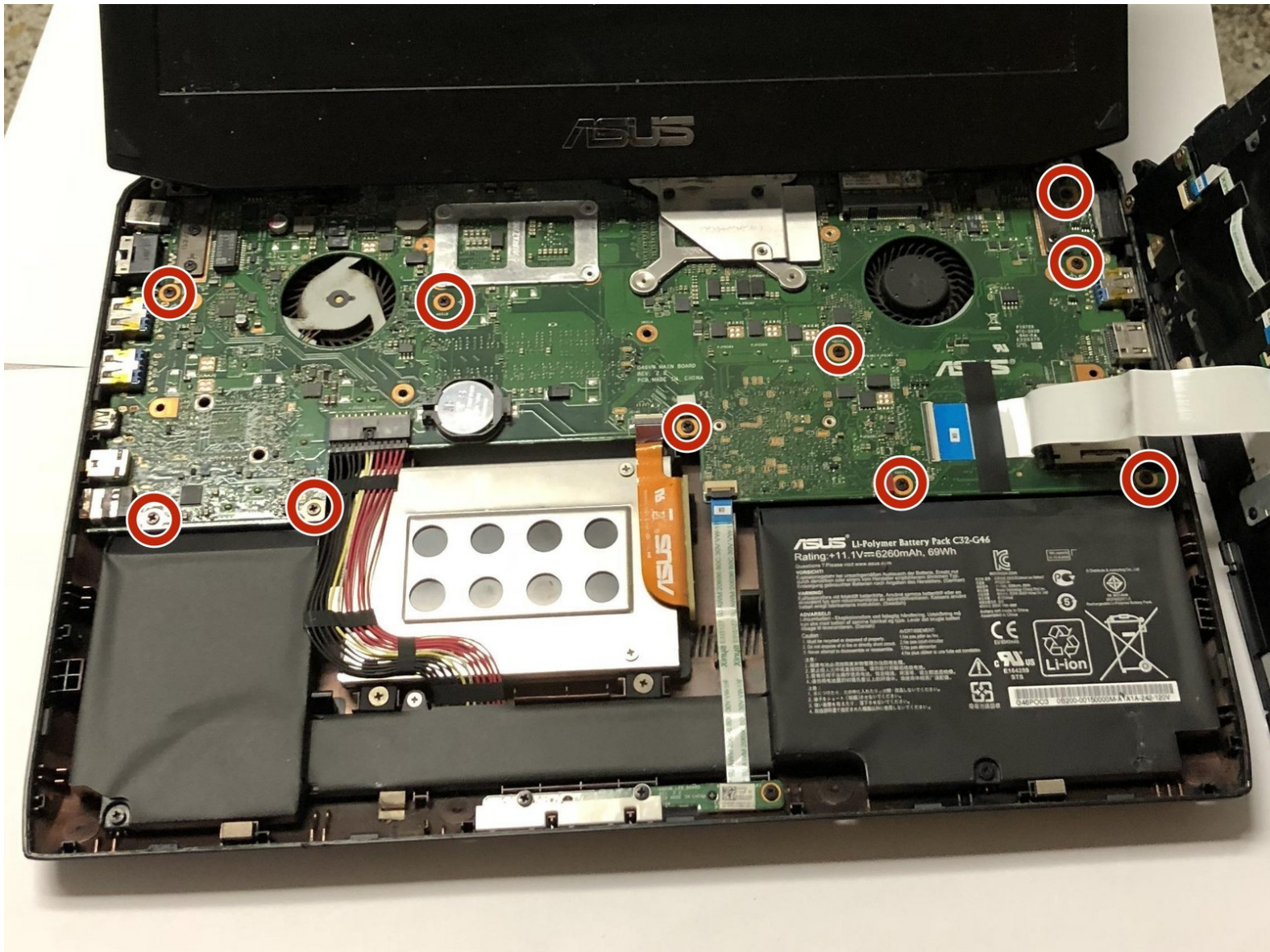# ASUS ROG G46VW Motherboard Replacement

This guide will show you how to replace the motherboard of a ASUS ROG G46VW.

Written By: Ruben Olivares

INTRODUCTION

Keep close track of your screws and where they came from while disassembling due to the number of screws that are going to be removed in this guide.

🔧 TOOLS:

- T9 Torx Screwdriver (1)
- T5 Torx Screwdriver (1)
- Phillips #0 Screwdriver (1)
- Spudger (1)
- iFixit Opening Tools (1)
- Tweezers (1)

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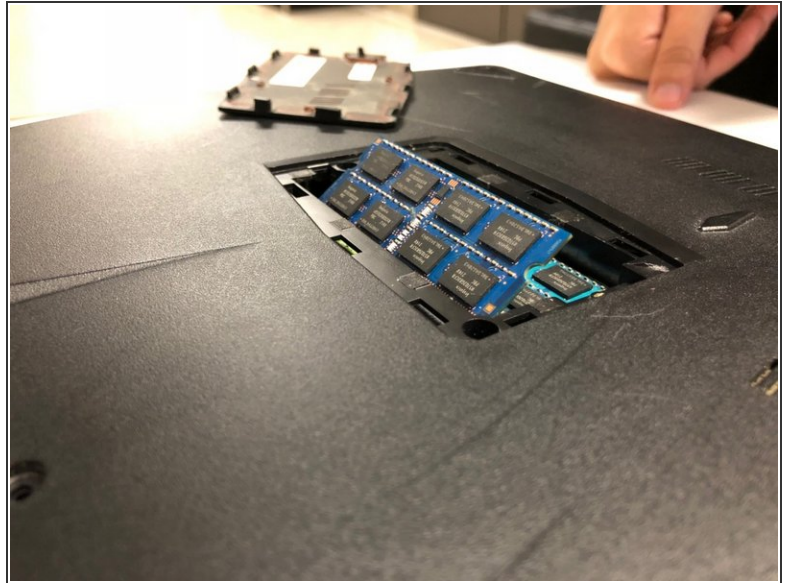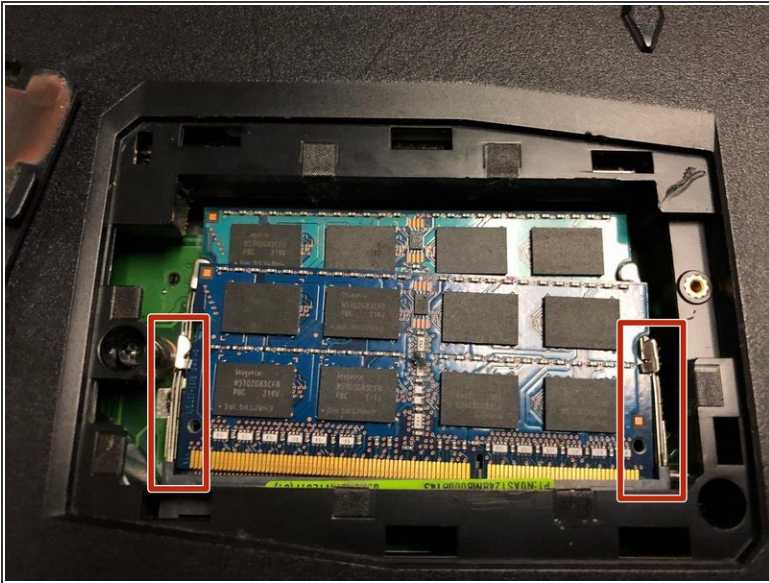
Step 1 — RAM
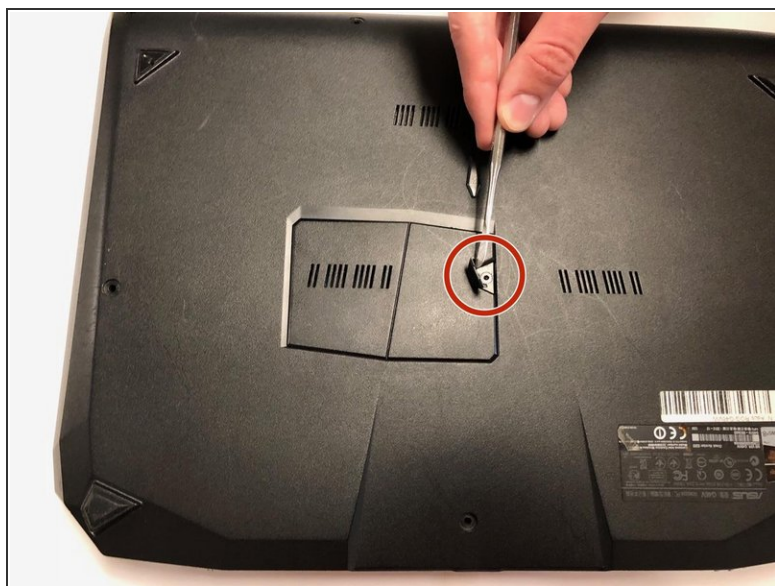
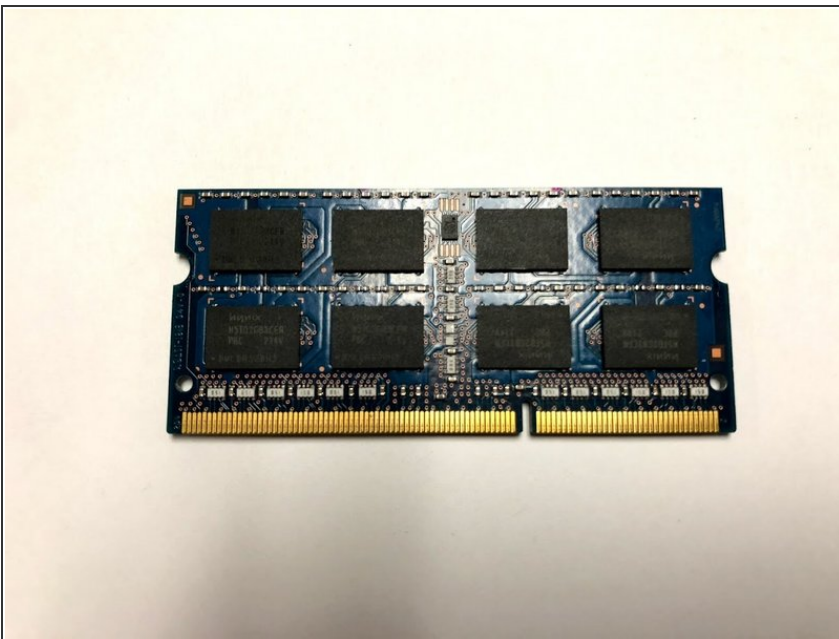- Lift the screw cover and remove the screw using a Phillips #0 screwdriver.

Step 2

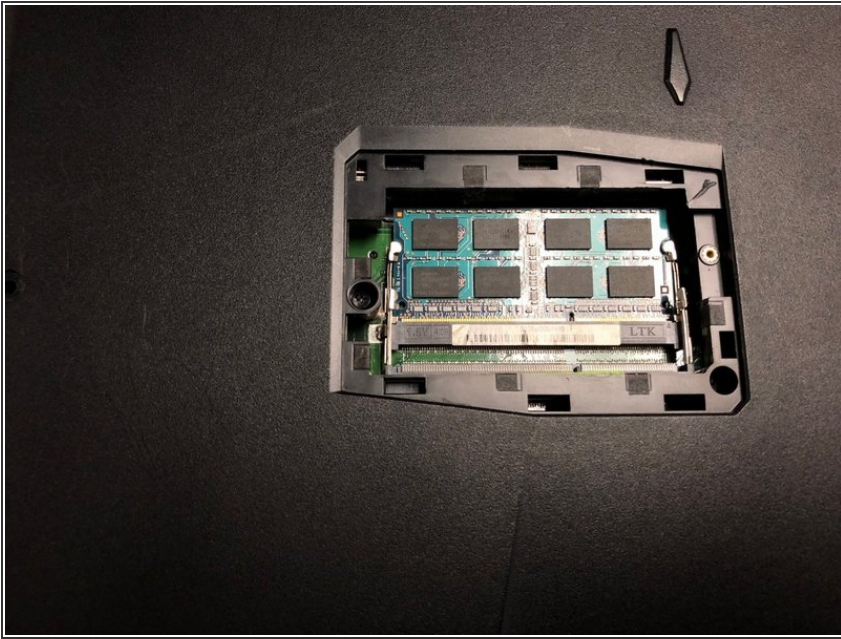- Remove the RAM cover by lifting the screw cover and pulling away firmly.

Step 3

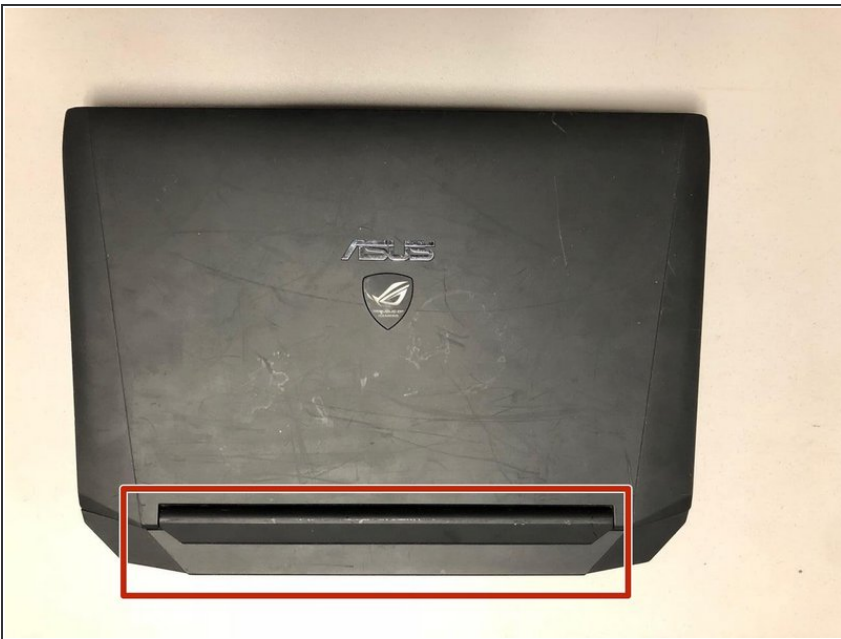- Push outwards on the clips to release the RAM stick. The stick should pop up at an angle.

Step 4

- Pull out the RAM stick carefully.

⚠ Do not use a prying motion as this will damage the hardware. Be careful not to damage the gold section of the RAM stick.
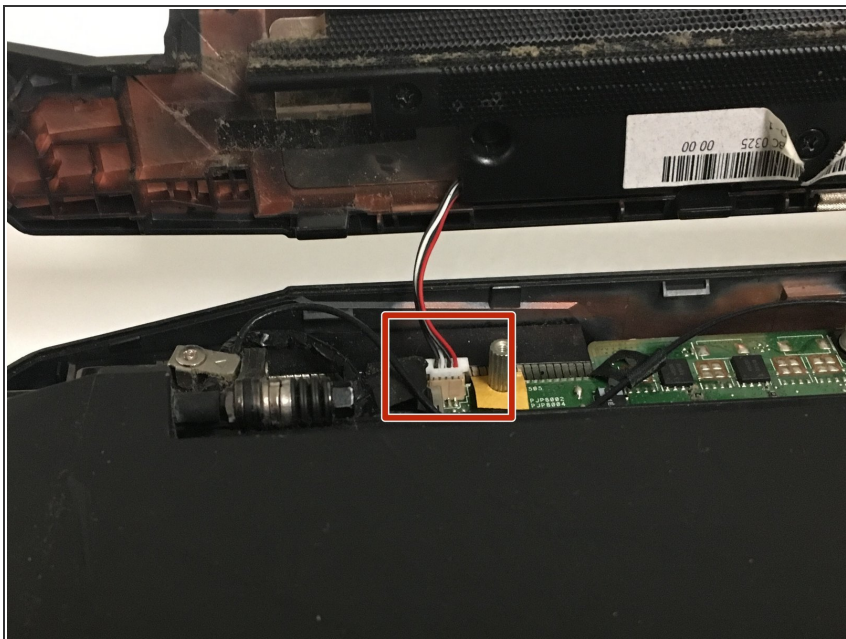
Step 5

- Repeat steps 3-4 to remove the second RAM stick.

Step 6 — Speaker Cover

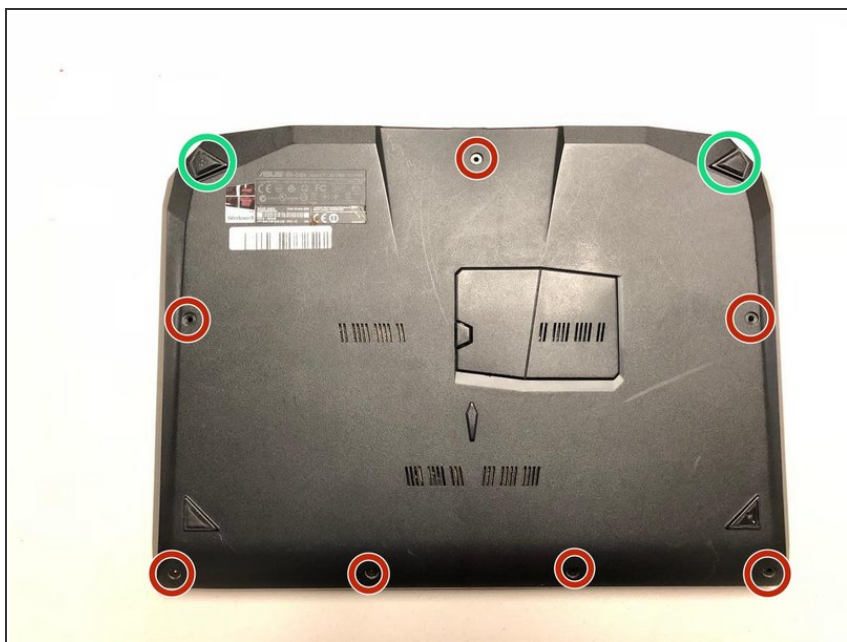- Gently pry the back hinge cover piece away from the device.

Step 7

- Disconnect the speaker cable from the motherboard.

Step 8 — Keyboard

- Remove the two screws from underneath the RAM cover.

Step 9

- Remove all of the screws from the bottom of the case.

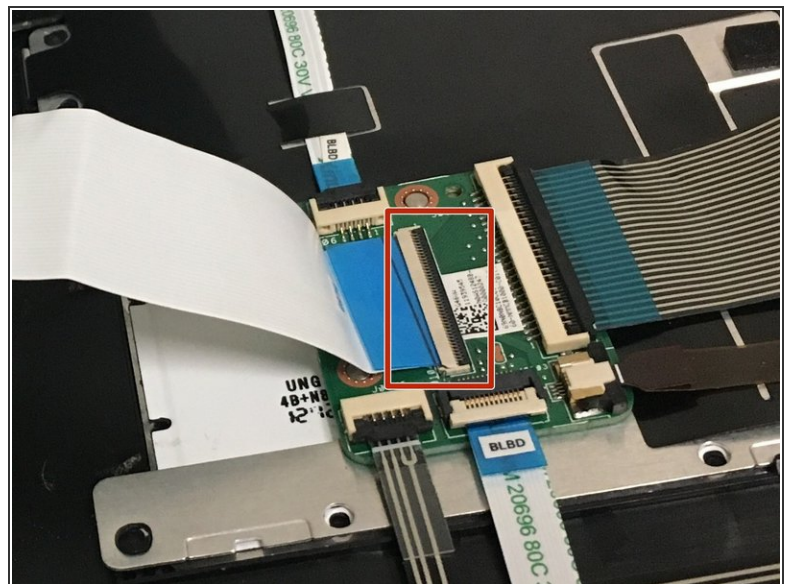- If replacing the screen, remove the rubber feet to reveal two more screws.

Step 10

- Turn the laptop over and remove the screws as shown

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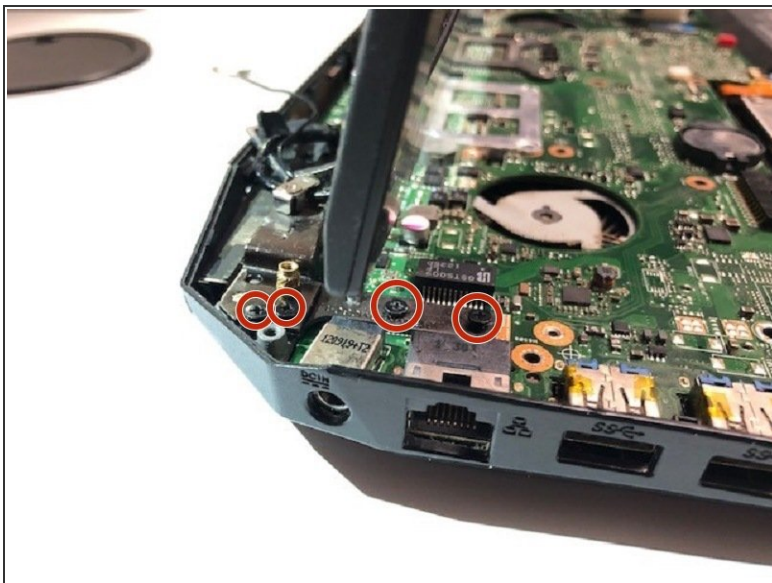© iFixit — CC BY-NC-SA   www.iFixit.com   Page 7 of 13

Step 11

- Carefully pry the keyboard away using your spudger and the opening tools.

⚠️ Be sure not to damage the clips holding the keyboard to the bottom case.
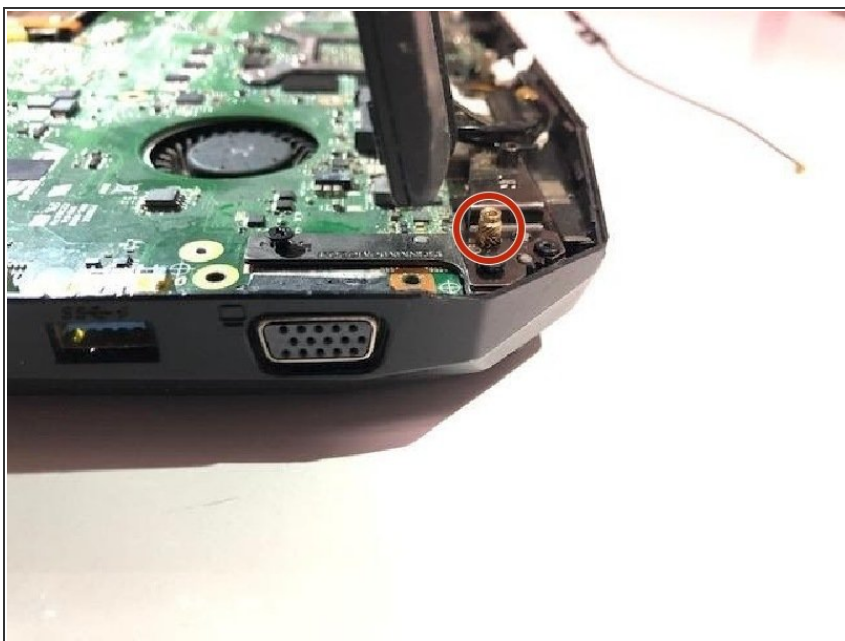
Step 12

- Detach the ribbon cable by releasing the clip

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Step 13 — Screen

- Remove screws from silver braces.

Step 14

- Use tweezers to remove golden screw caps.

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Step 15

- Remove tape and gently pull up on golden cap connectors to disconnect them.
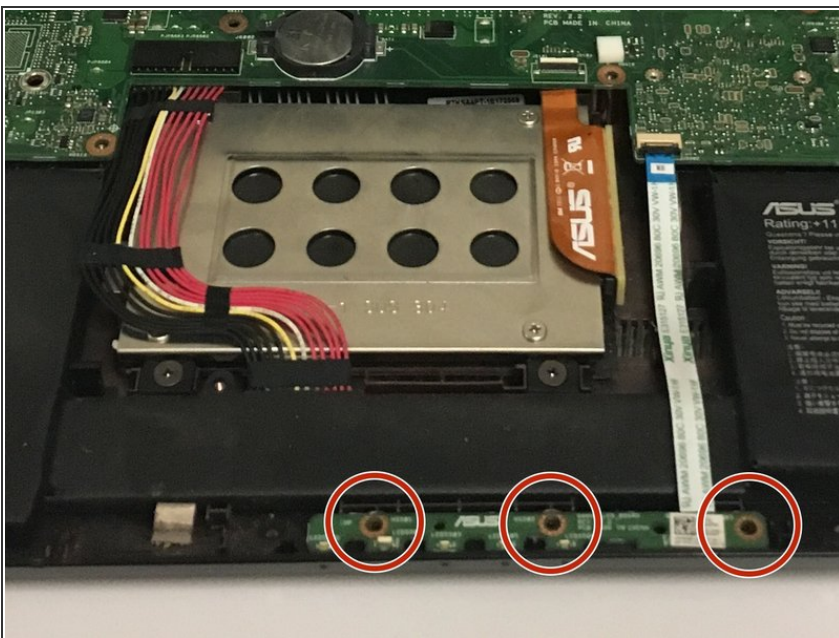
Step 16
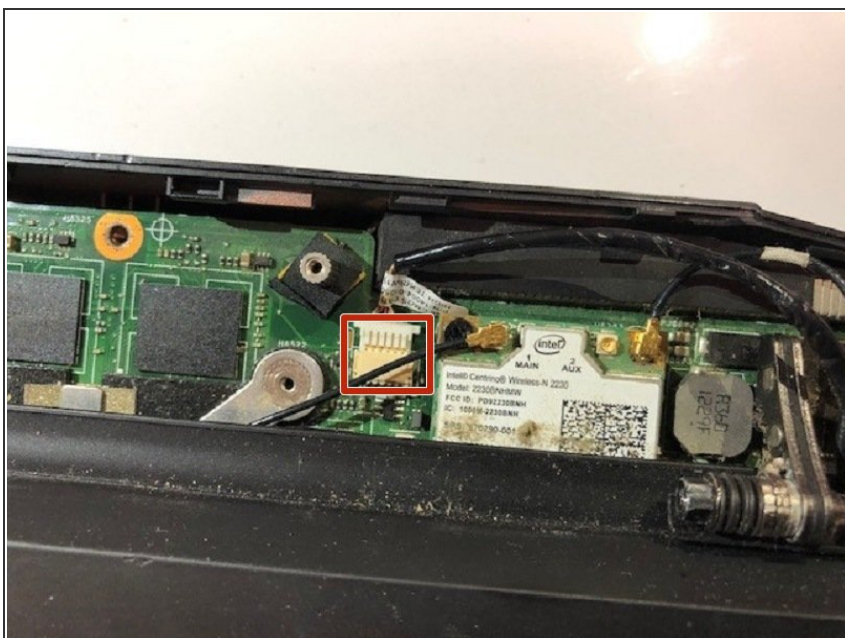
- Gently pull the white connector until it comes loose.
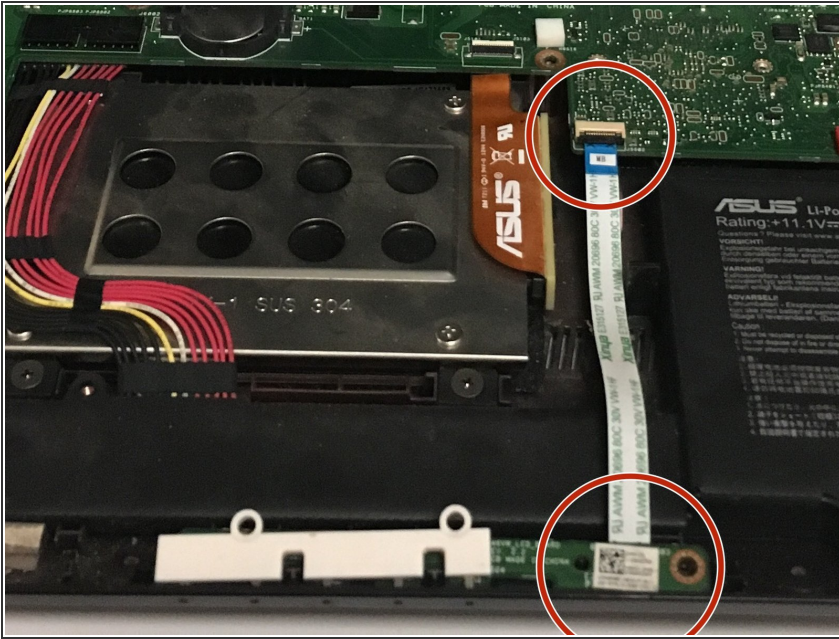
Step 17 — Indicator Lights

- With the motherboard exposed, locate the Indicator Lights and their white plastic housing piece.
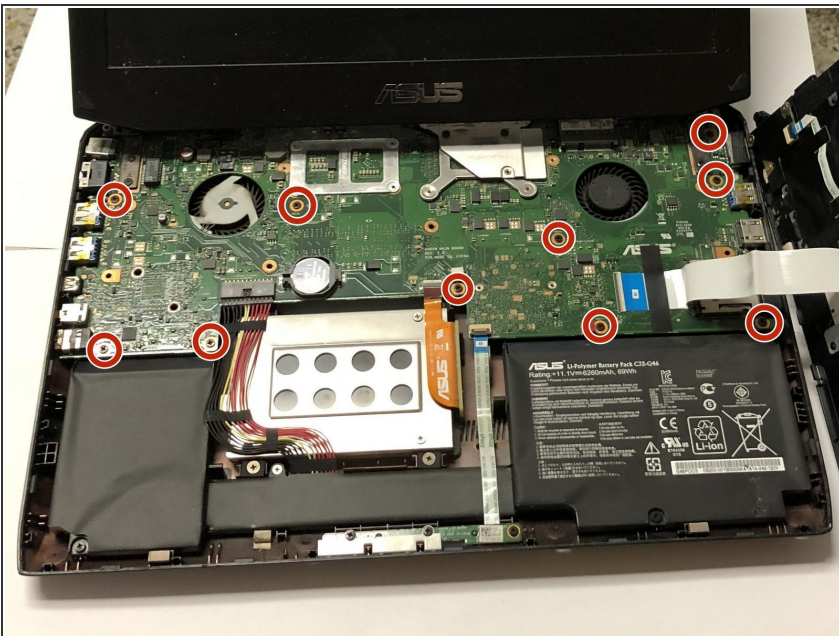
Step 18

- Remove all 3 screws from the motherboard connection using the Phillips #0 screwdriver.

- Pull the plastic white housing piece away from the case.

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Step 19

- Locate the flat LED cable that connects the lights to the motherboard.

- Flip the black cover upwards before pulling on the cable.

- Repeat for the other connector piece.

Step 20 — Motherboard

- Locate and remove the screws.

- Removing the screws allows you to lift up the motherboard

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Step 21

- After lifting the motherboard up you can replace any component on it, such as the fans.

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