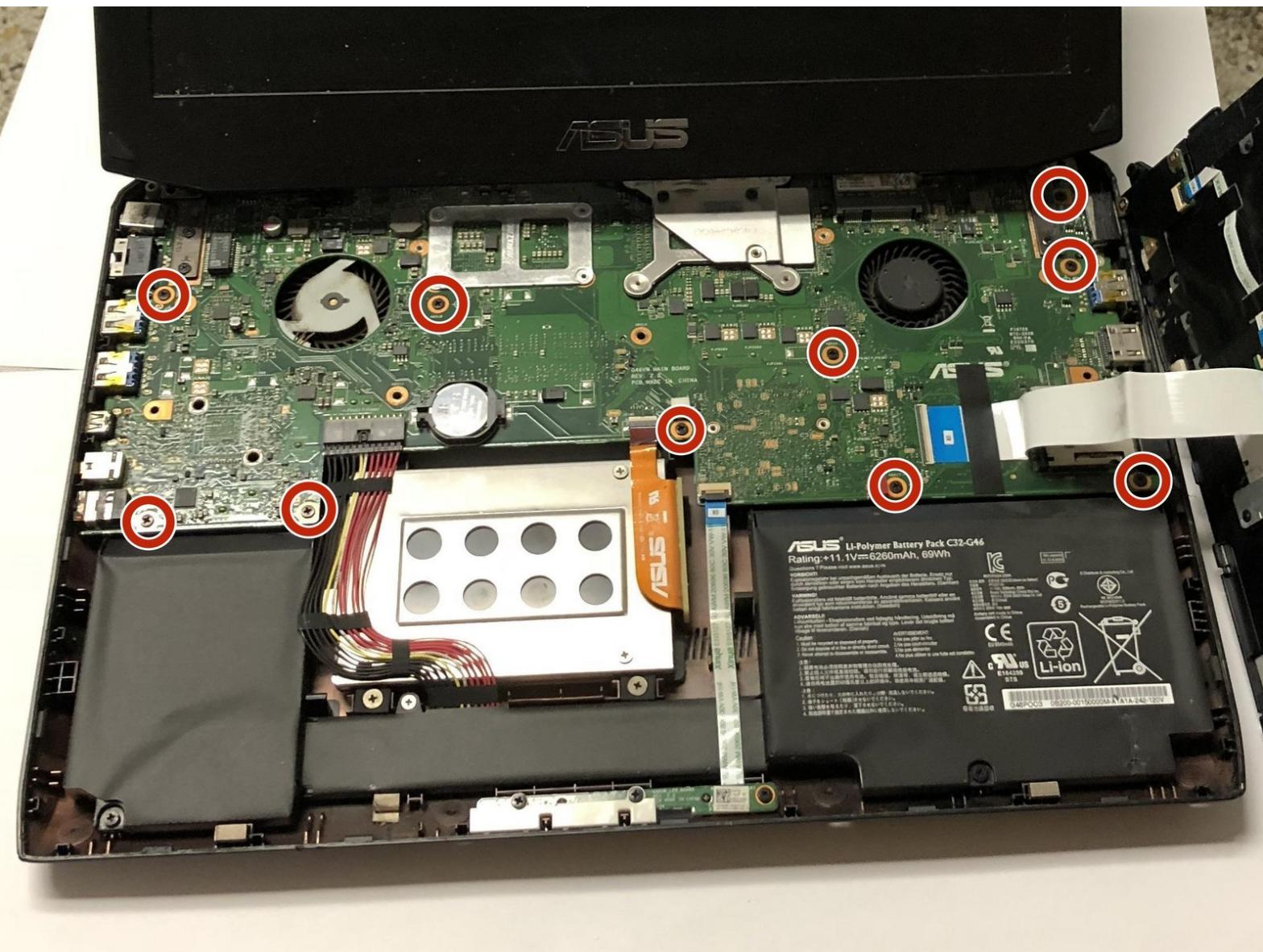




# ASUS ROG G46VW Motherboard Replacement

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

Written By: Ruben Olivares



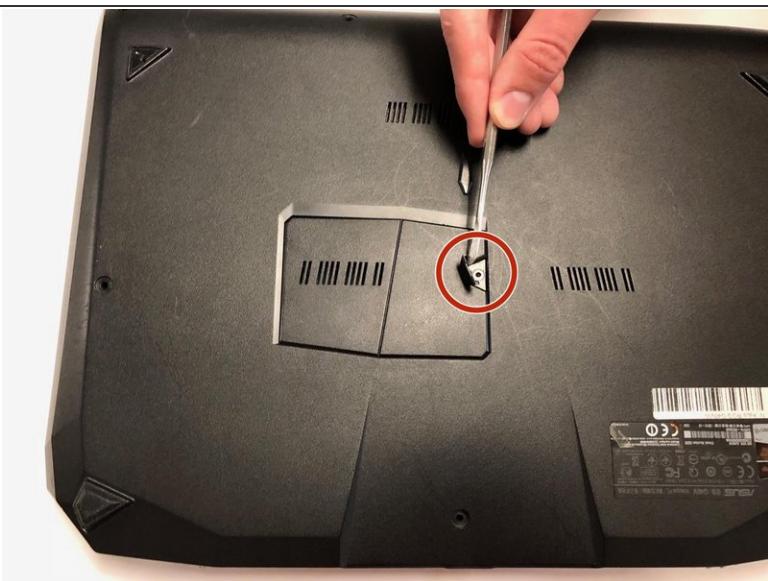
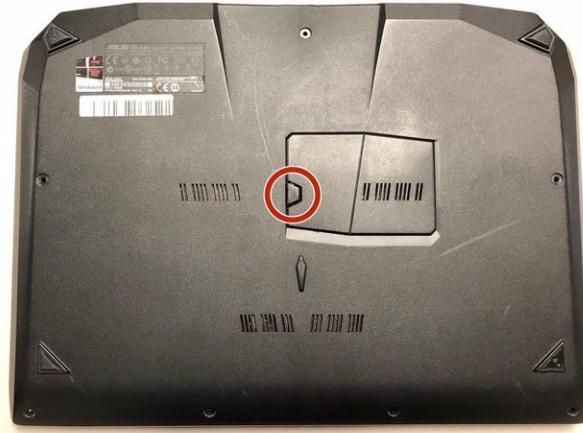
## INTRODUCTION

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:

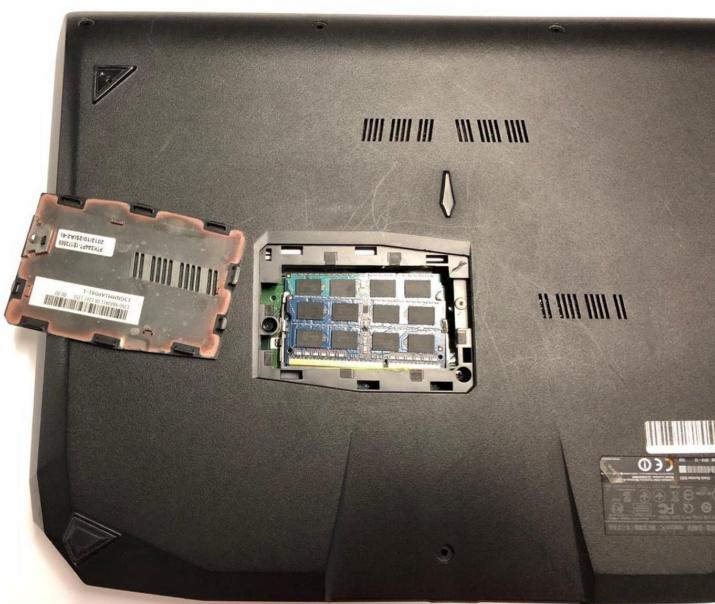
- [T9 Torx Screwdriver](#) (1)
- [T5 Torx Screwdriver](#) (1)
- [Phillips #0 Screwdriver](#) (1)
- [Spudger](#) (1)
- [iFixit Opening Tools](#) (1)
- [Tweezers](#) (1)

## Step 1 — RAM



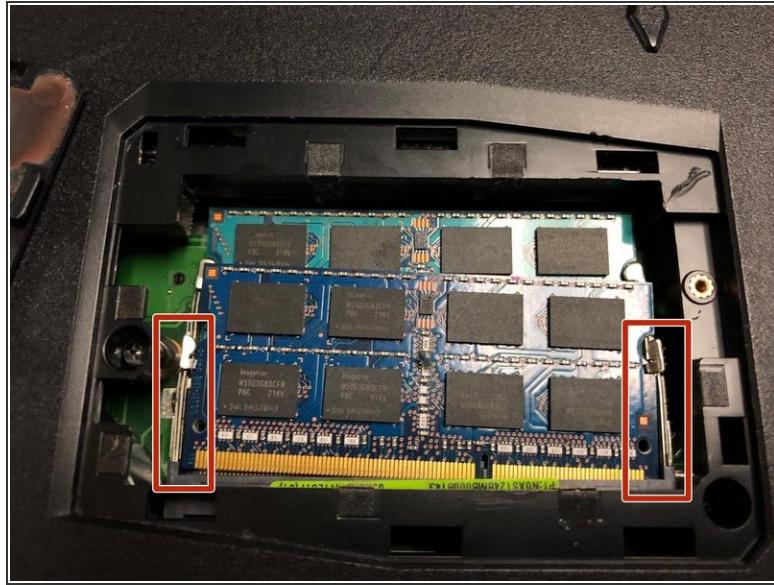
- Lift the screw cover and remove the screw using a Phillips #0 screwdriver.

## Step 2



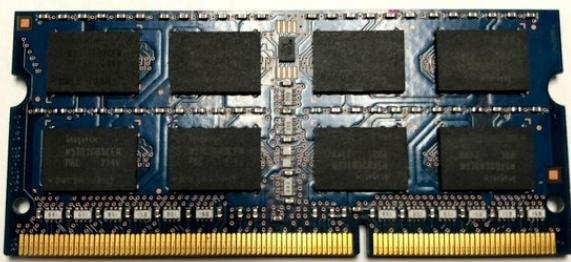
- Remove the RAM cover by lifting the screw cover and pulling away firmly.

## 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.

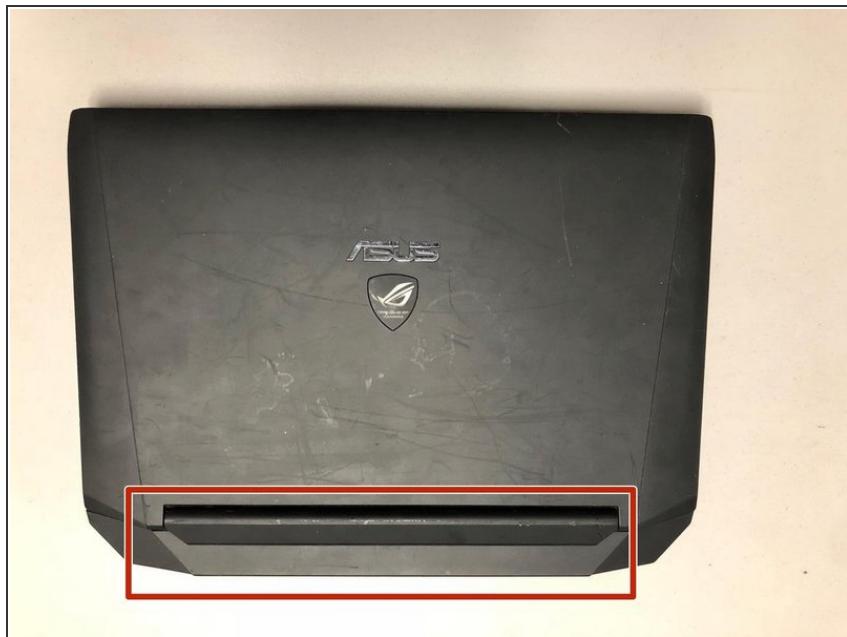
Do not use a prying motion as this will damage the hardware. Be careful not to damage the gold section of the RAM stick.

## Step 5



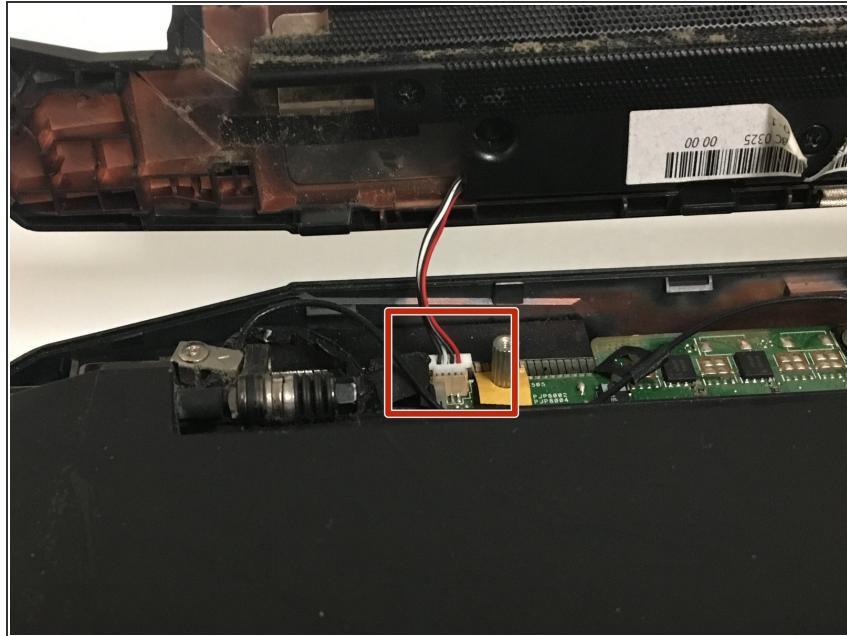
- Repeat steps 3-4 to remove the second RAM stick.

## 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

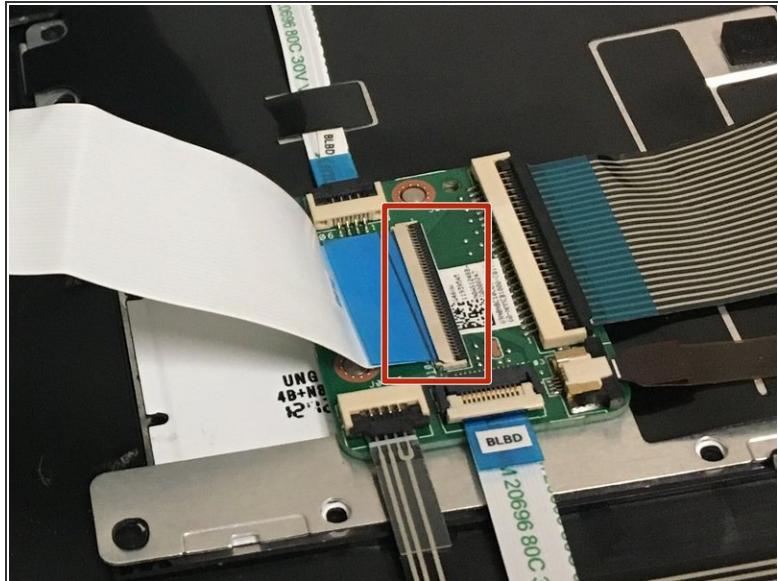
## Step 11



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

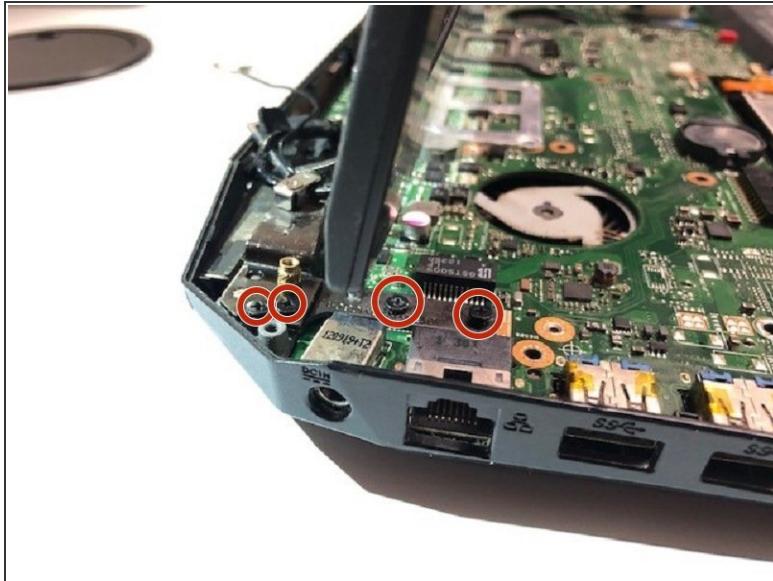
 Be sure not to damage the clips holding the keyboard to the bottom case.

## Step 12



- Detach the ribbon cable by releasing the clip

## Step 13 — Screen



- Remove screws from silver braces.

## Step 14



- Use tweezers to remove golden screw caps.

## Step 15



- Remove tape and gently pull up on golden cap connectors to disconnect them.

## Step 16



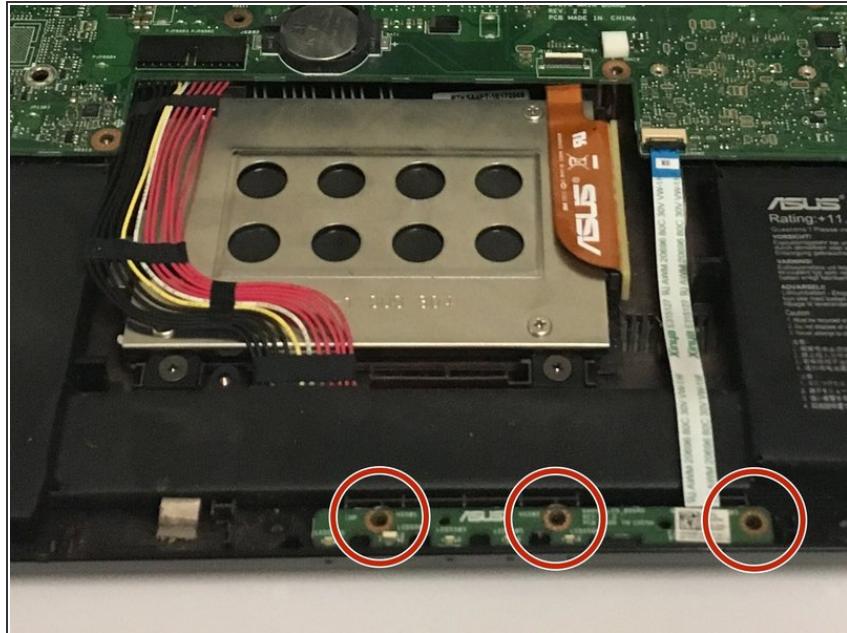
- Gently pull the white connector until it comes loose.

## Step 17 — Indicator Lights



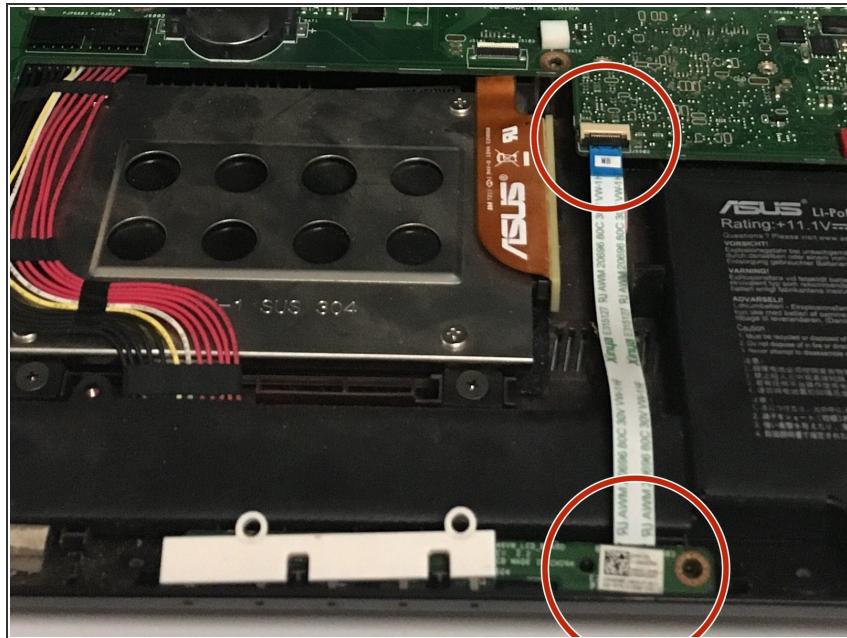
- With the motherboard exposed, locate the Indicator Lights and their white plastic housing piece.

## Step 18



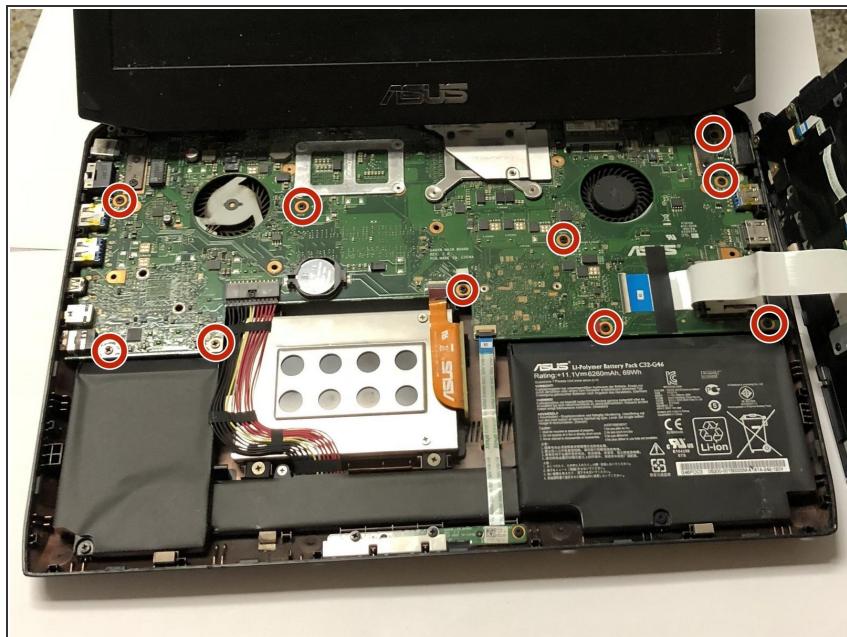
- Remove all 3 screws from the motherboard connection using the Phillips #0 screwdriver.
- Pull the plastic white housing piece away from the case.

## 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

## 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.