



Asus Q550LF-BBI7T07 Motherboard Replacement

This guide will show you how to replace the...

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INTRODUCTION

This guide will show you how to replace the motherboard in an ASUS Q550LF-BBI7T07 laptop. The motherboard is the main backbone of the computer as it ties all the computer components together. Without this component, none of the computer parts such as the CPU, GPU, or hard drive can work.

TOOLS:

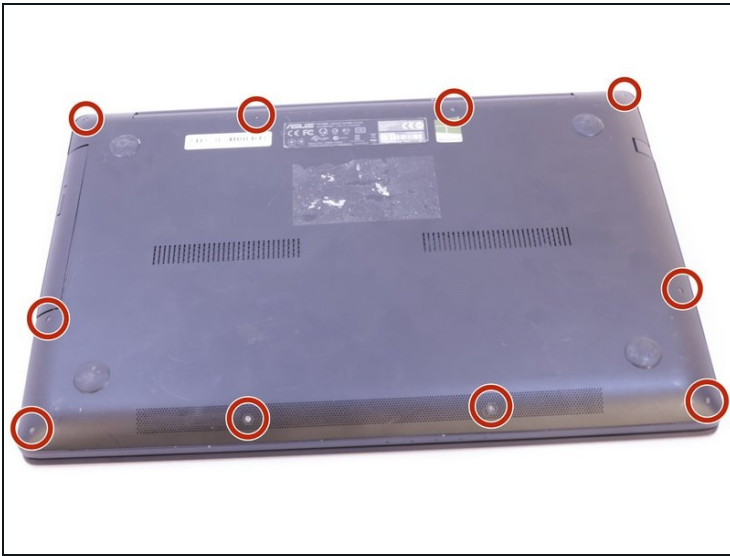
[T4 Torx Screwdriver](#) (1)

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

[iFixit Opening Tool](#) (1)

[Metal Spudger](#) (1)

Step 1 — Battery



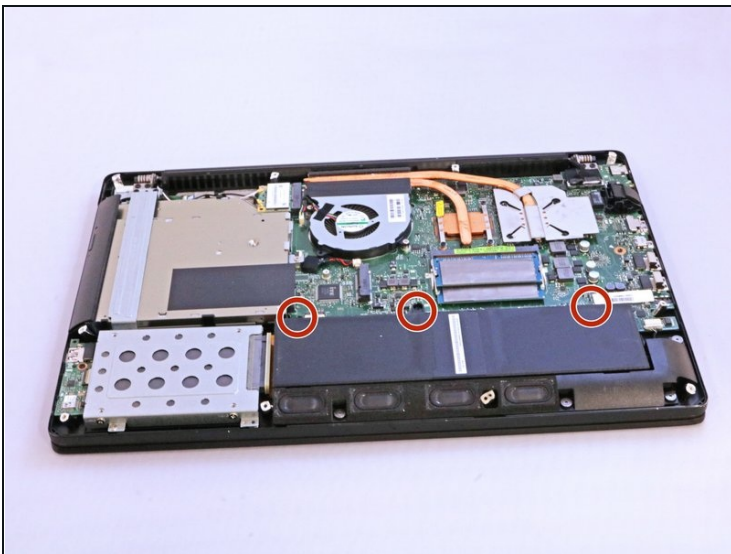
- Use a T4 Torx screwdriver head to remove the ten 4mm Torx head screws on the bottom of the laptop.

Step 2



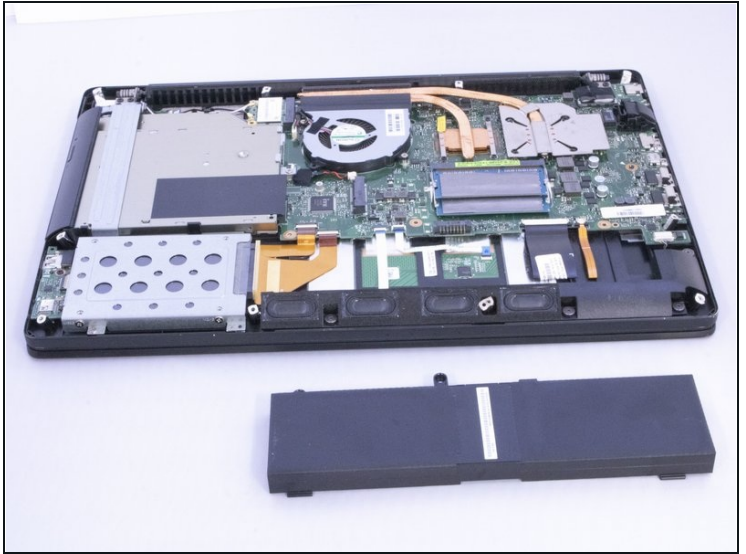
- Use an opening tool to pry open the rear cover. Lift the cover off and away from the board.

Step 3



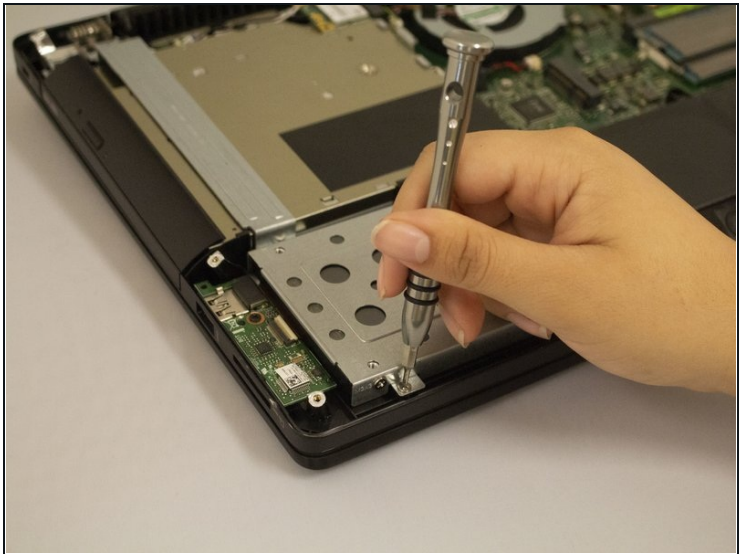
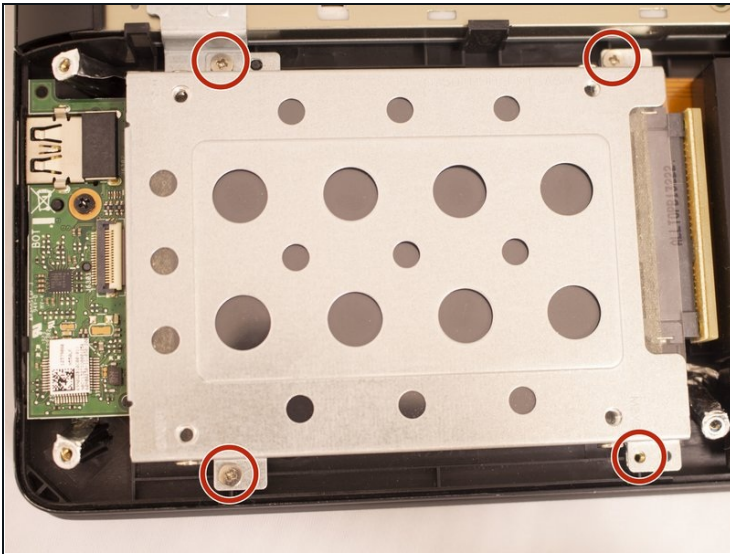
- Use a Phillips #0 screwdriver head to remove the three black 7mm Phillips head screws that hold the battery in place.

Step 4



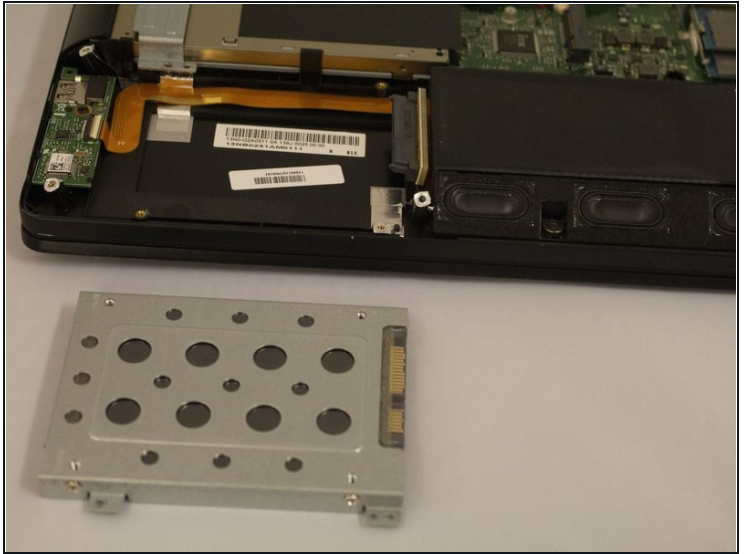
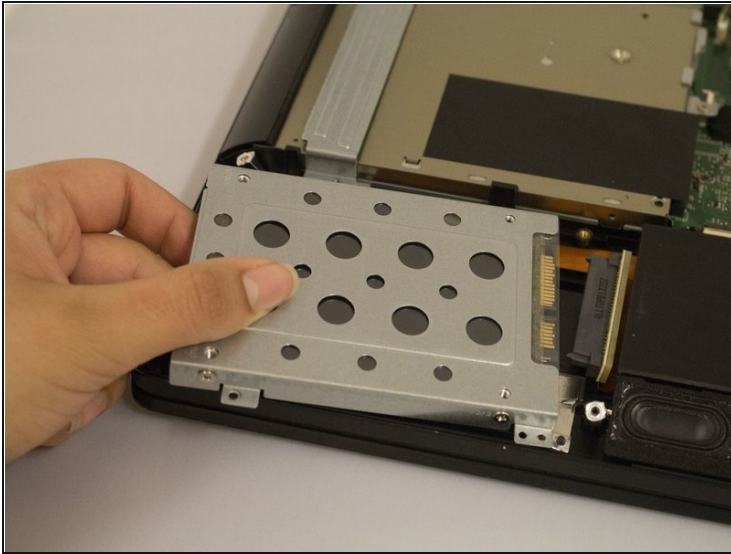
- Once the screws have been removed, gently lift the battery out.

Step 5 — Hard Drive



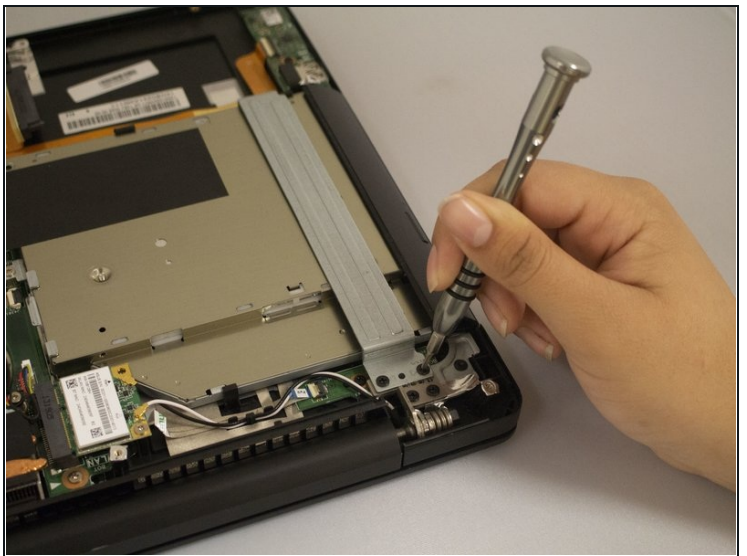
- Use the Phillips #0 Screwdriver to unscrew the four silver 5mm screws.

Step 6



- Gently disconnect the Hard Drive from the connector cable. Lift it out and remove it.

Step 7 — Disc Drive



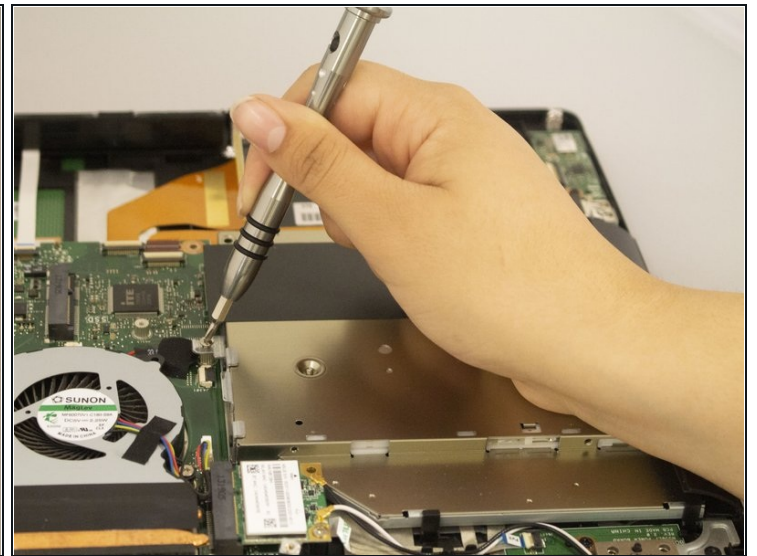
- Use the Phillips #0 screwdriver to remove the two 7mm Phillips head screws from the metal disc drive holder.

Step 8



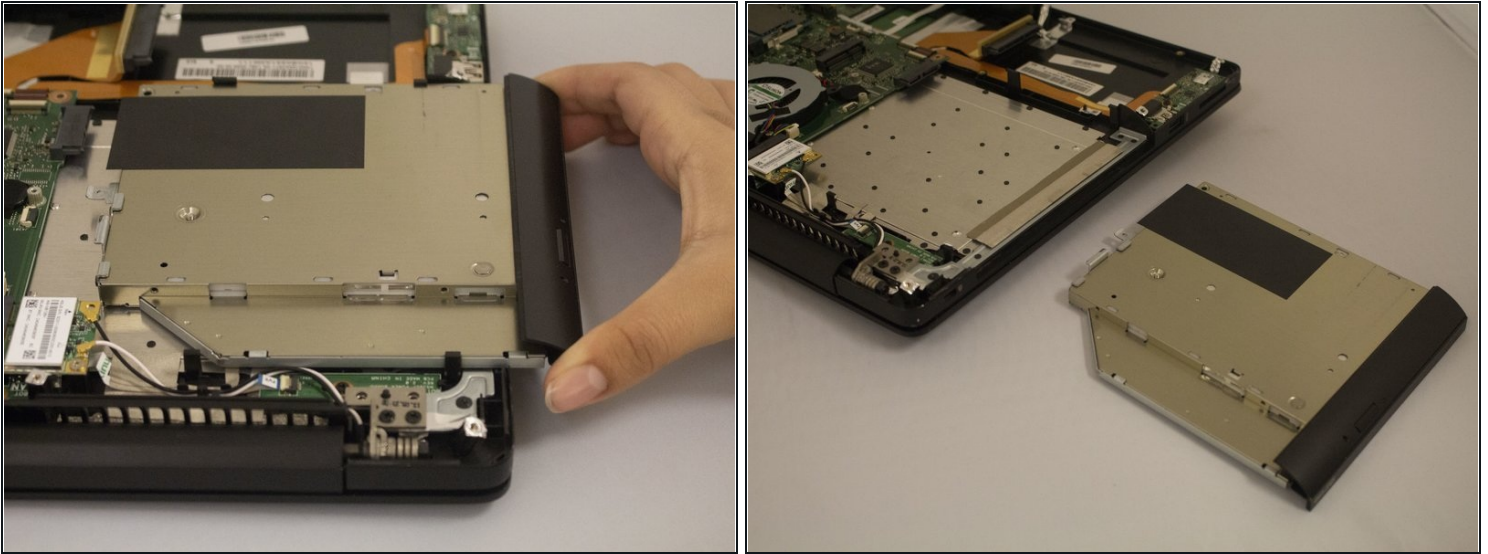
- Lift the metal disc drive holder off of the disc drive to remove it.

Step 9



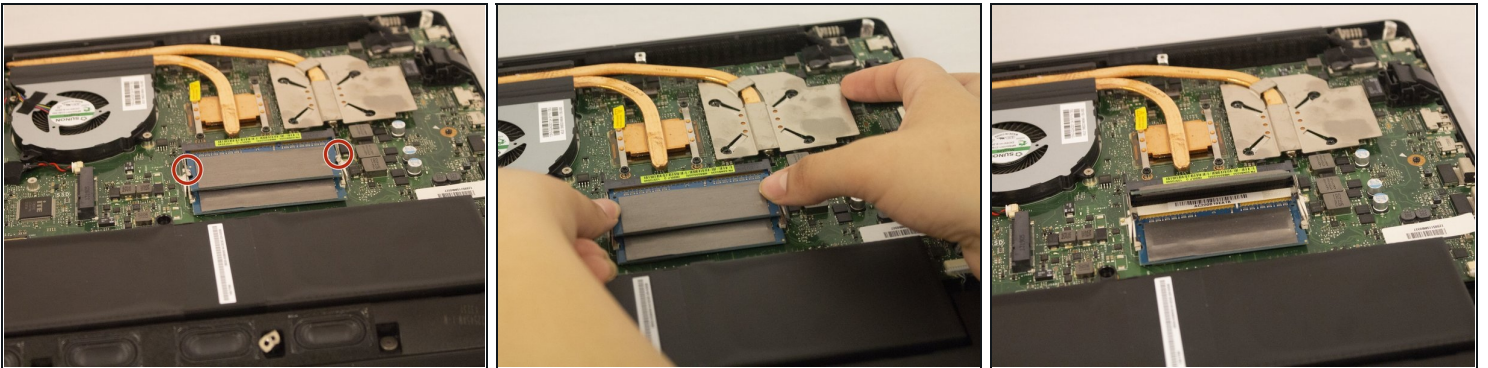
- Use the Phillips #0 screwdriver to unscrew the one silver 5mm Phillips head screw that connects the disc drive to the motherboard.

Step 10



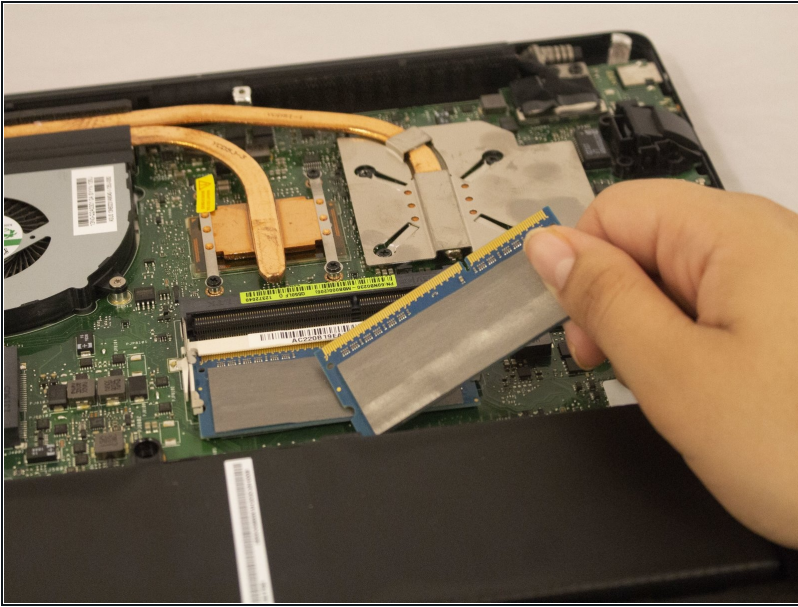
- Slowly slide out the disc drive, keeping it level, to remove it.

Step 11 — RAM



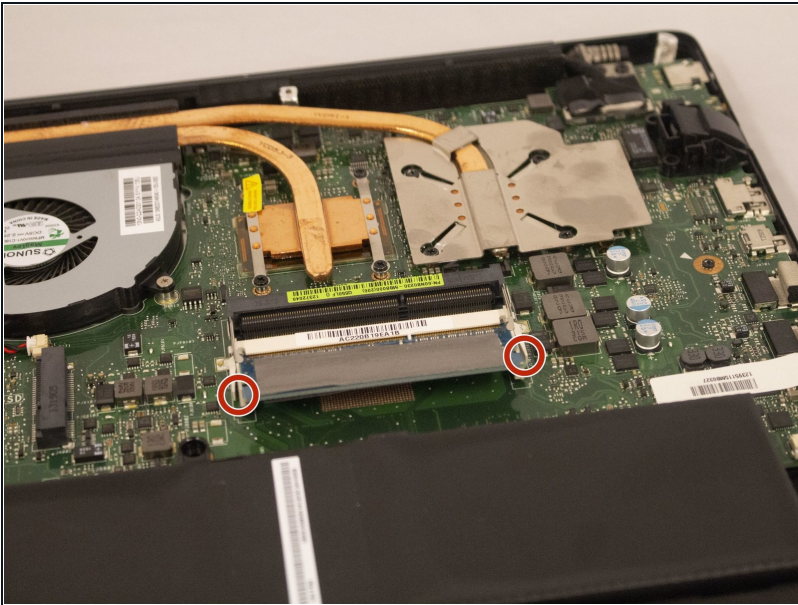
- Push both metal tabs away from each other on each side of the RAM farthest from battery so that the RAM will pop up.

Step 12



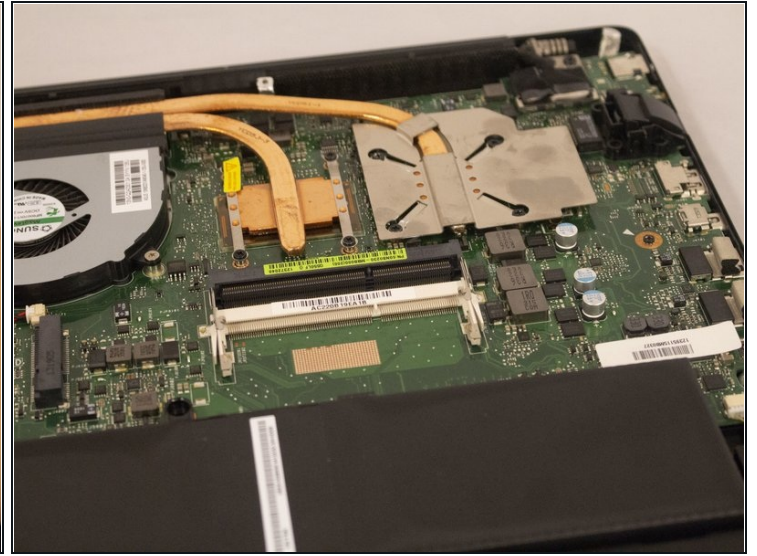
- Pull out first RAM chip.

Step 13



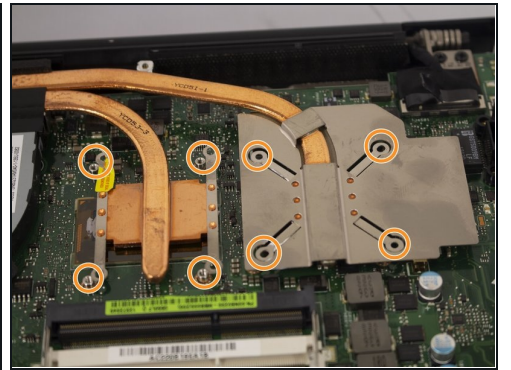
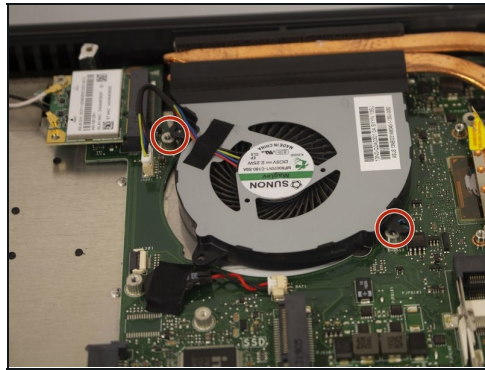
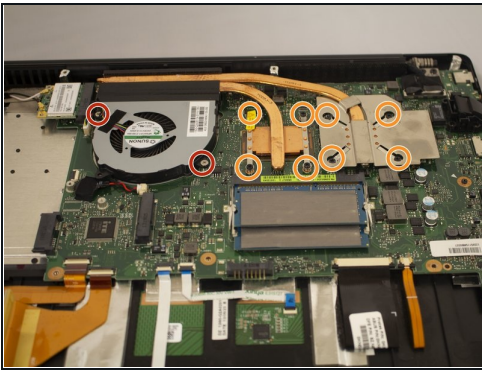
- Push both metal tabs away from each other on each side of the RAM closest to the battery so that the second RAM will pop up.

Step 14



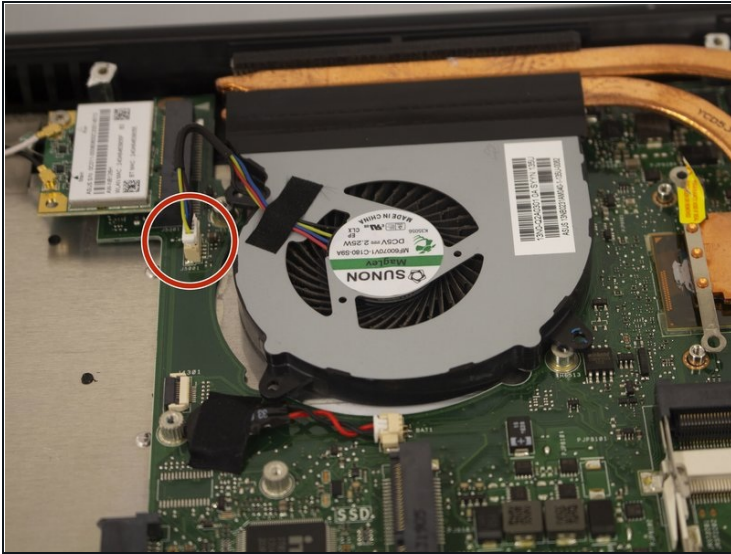
- Pull out second RAM chip.

Step 15 — Motherboard



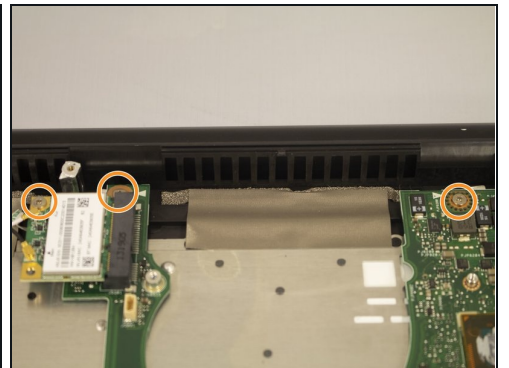
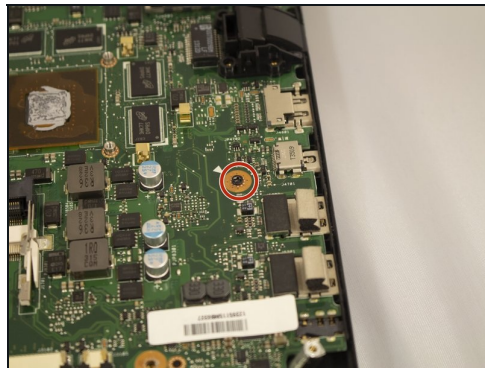
- Remove the ten screws surrounding the fan and cooling assembly using a Phillips #0 screwdriver.
- Remove the two silver 5 mm Phillips head screws that hold the fan in place.
- Remove the eight black 4 mm Phillips head screws that hold the fan in place.

Step 16



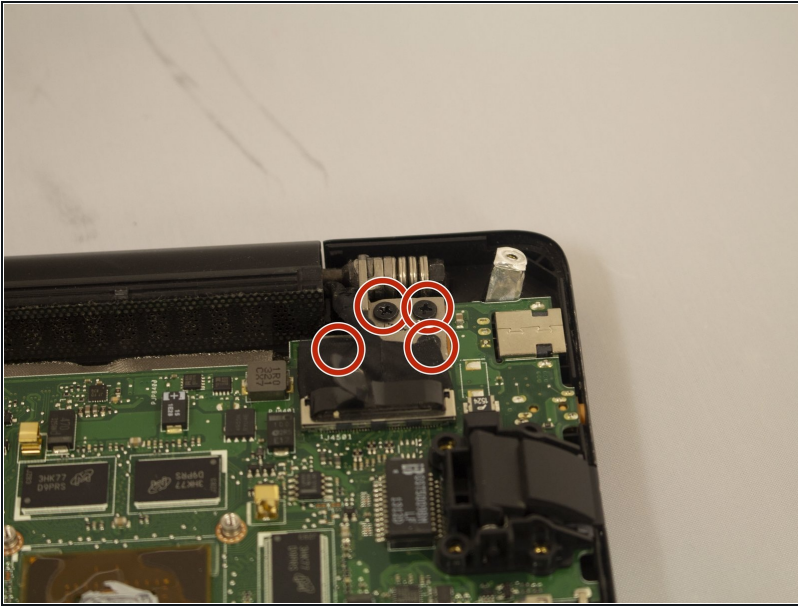
- Disconnect the multi-colored cable that attaches the fan to the motherboard.
- Pick the fan up to remove it from the motherboard.

Step 17



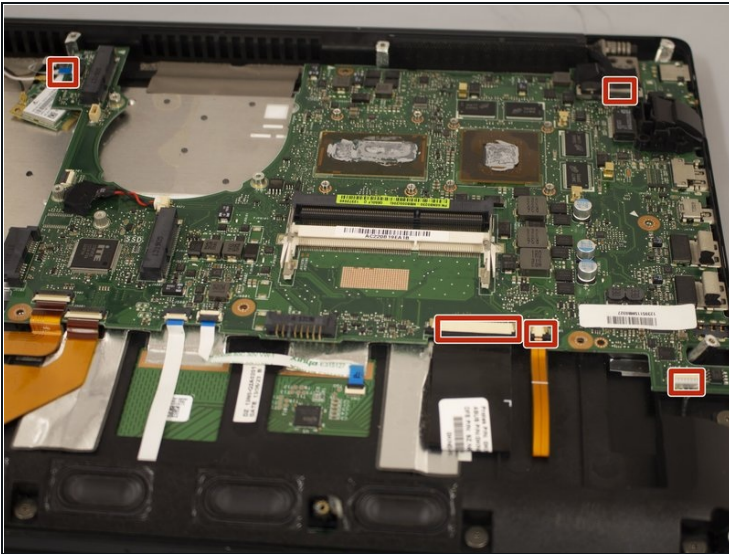
- Use the Phillips #0 Screwdriver to remove the four screws on the edge of the motherboard;
- Remove the one black 3 mm screw.
- Remove the three silver 5 mm screws.

Step 18



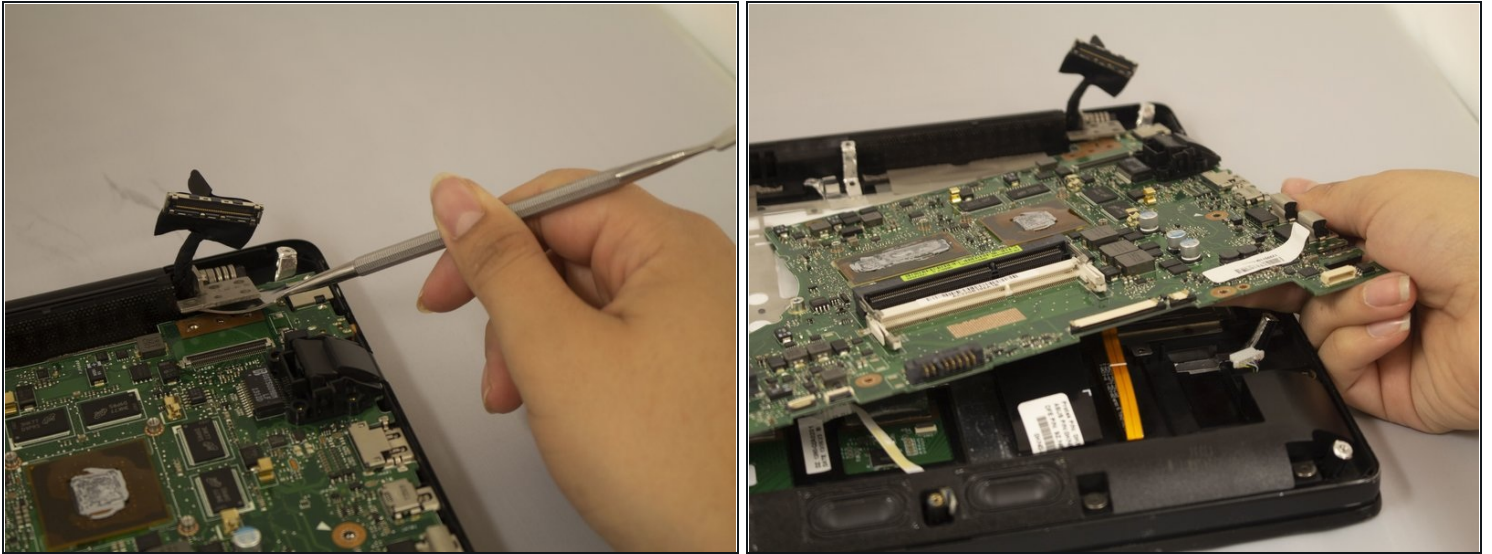
- Use the Phillips #0 Screwdriver to remove the remaining four black 7 mm screws on the edge of the motherboard.

Step 19



- Disconnect the five cables that are attached to the motherboard by gently pulling them.
- Disconnect the four remaining cables attached to the motherboard by lifting the tabs and gently pulling them out.

Step 20



- Use the metal spudger to pry and lift the silver hinge that is connected to the motherboard to release it.
- Pull the motherboard out by hand in a counterclockwise motion to remove it.

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