Asus R510CA-OB01 Fan Replacement

This guide will go over how to replace the fan in the Asus R510CA-OB01 Laptop.

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INTRODUCTION

Use this guide to replace the fan in your Asus R510CA-OB01 laptop.

🔧 TOOLS:

- iFixit Opening Tools (1)
- Phillips #0 Screwdriver (1)
- Phillips #1 Screwdriver (1)
- Phillips #00 Screwdriver (1)

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Step 1 — Battery

- Locate the two switches that lock the battery.

- Then, push the right switch outward to unlock it.

Step 2

- Push the left switch outward and push the battery upward at the same time.

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Step 3

- Use a Li-ion battery as a replacement for your battery.

Step 4 — Keyboard and Mousepad

- Shut down the computer and disconnect all external devices connected to it.

- Turn the computers that it is upside down. Position the computer with the front towards you.

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Step 5

- After detaching the battery, remove the two 5mm screws holding down the casing using a Phillips #00 screwdriver.

Step 6

- Loosen the four 12mm screws on the bottom and top panel of your device using a Phillips #0 screwdriver.

Step 7

- Use the grips to slide the panel off.

- Remove the panel by lifting it off the device.

Step 8

- Remove the three 5mm screws holding down the hard drive and the five 5mm screws holding down the casing using a Phillips #00 bit.

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Step 9

- Turn the laptop the right way up and face it towards you.

- Insert the flat edge of the flat plastic opening tool into the crease of the keyboard cover.

- While the opening tool is in the crease, carefully pry open the casing by sliding the plastic opening tool along the edge.

Step 10
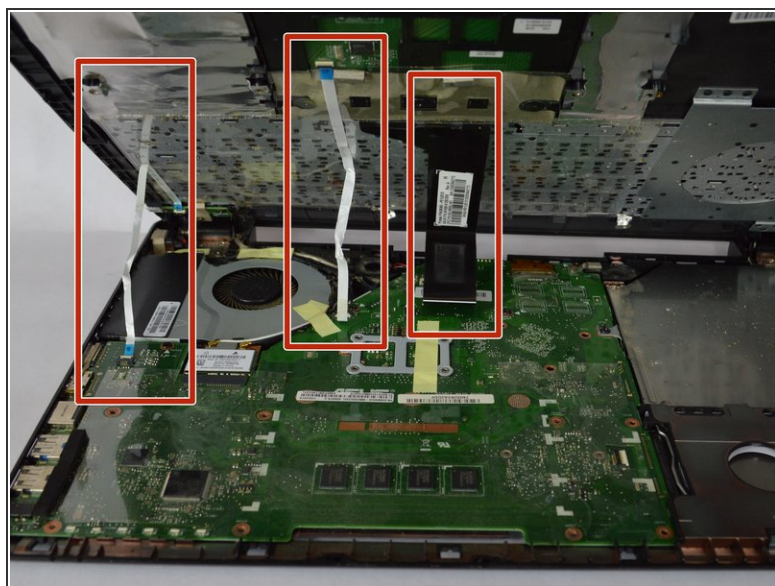
- Make sure that the entire cover has been released front the plastic pins.

- Slowly lift the cover open from the front of the laptop but do not completely remove.

- Note the three locations of the three white and blue data cables connecting the keyboard to the computer's main board.

Step 11
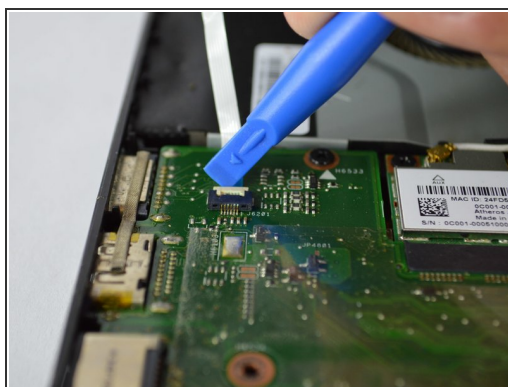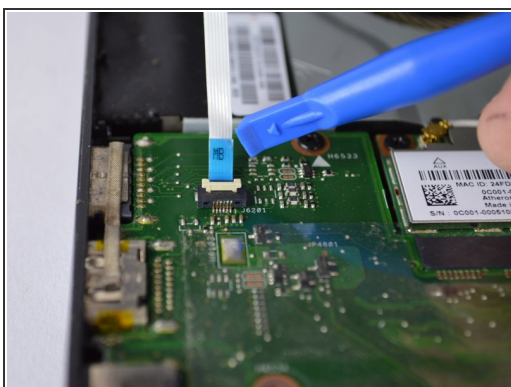
- Remove each data cable from the motherboard by using your finger or the plastic opening tool to lift the white latch.

- The cable will slide out of its place.

Step 12

- With the data cables removed and the keyboard module fully disconnected, the keyboard module should come free from the laptop.

Step 13 — Optical Drive
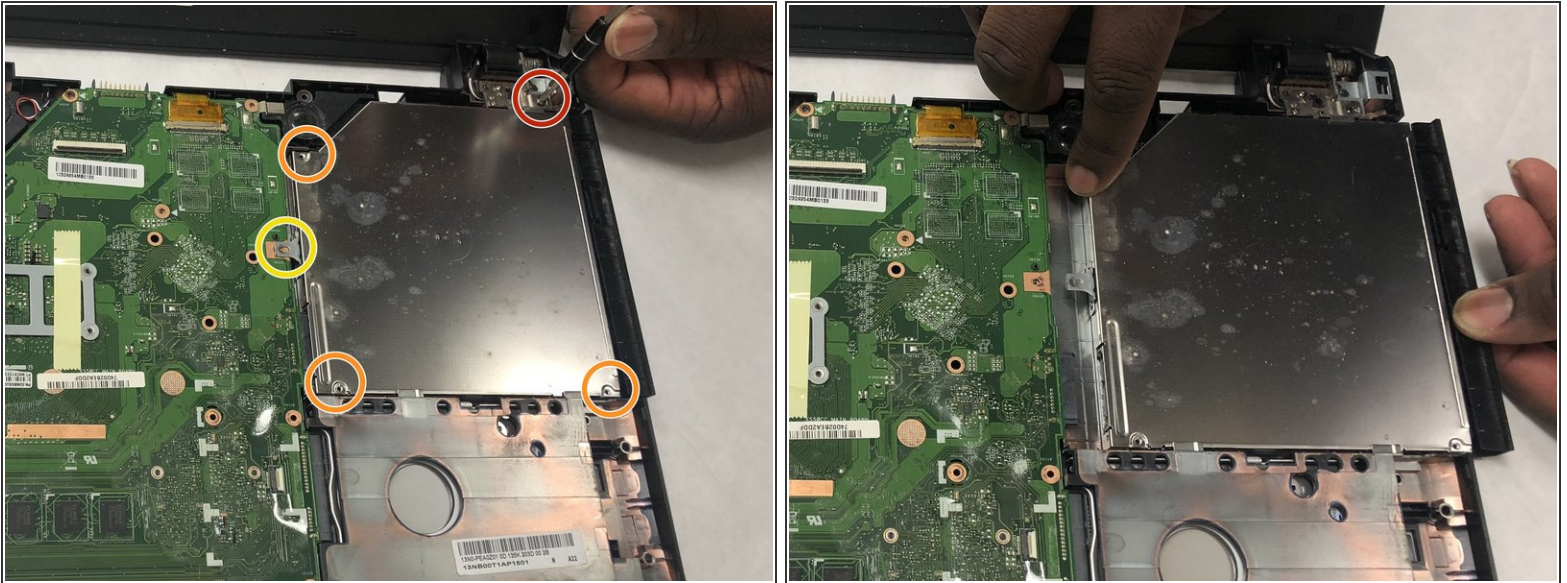
- Remove the 4.5mm silver screw in the top right corner using a Phillips #0 bit.

- Remove the three 2mm silver screws using a Phillips #000 bit.

- Remove the 5mm screw using a Phillips #1 bit that is holding the optical drive in place.

- With your hands, gently slide the optical drive out of the laptop.
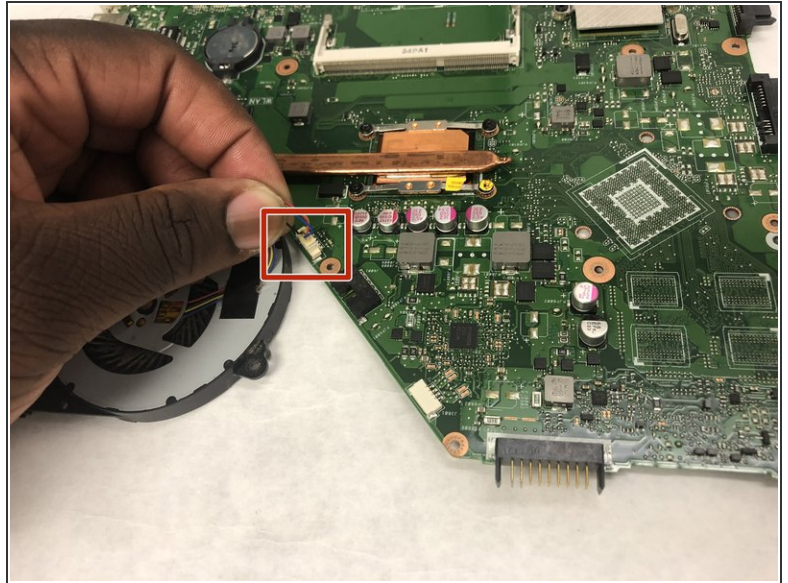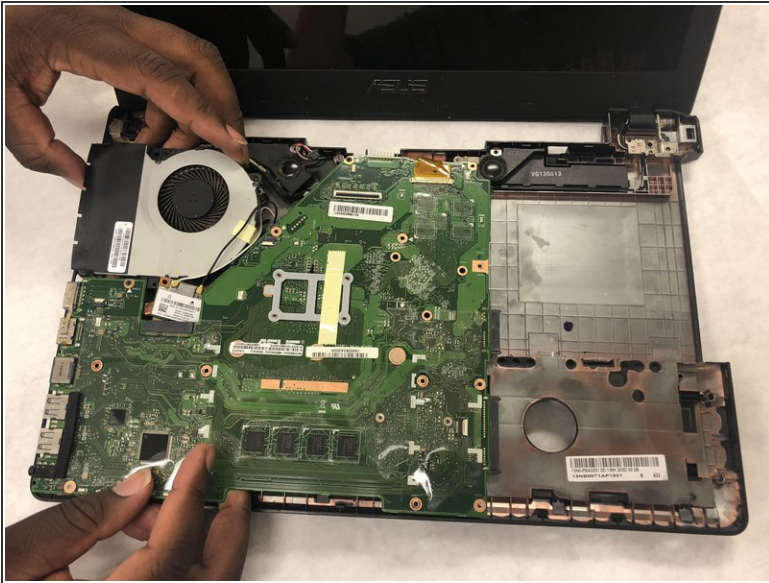
Step 14 — Motherboard
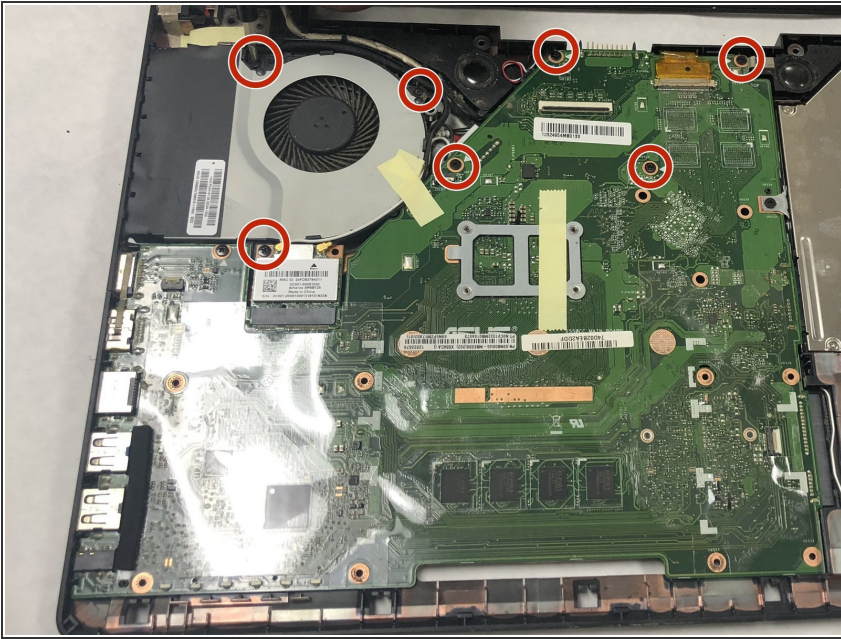
● Remove the seven 5mm screws that are holding both the fan and motherboard in place using a Phillips #1 bit.
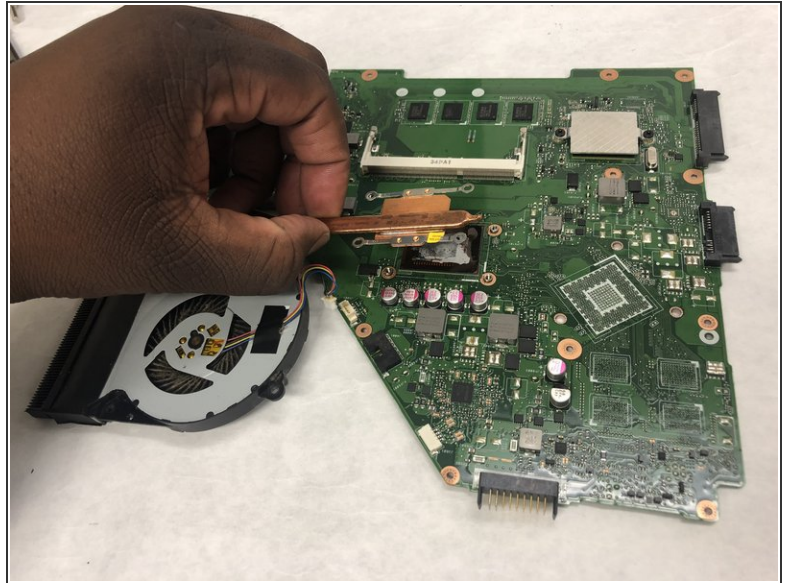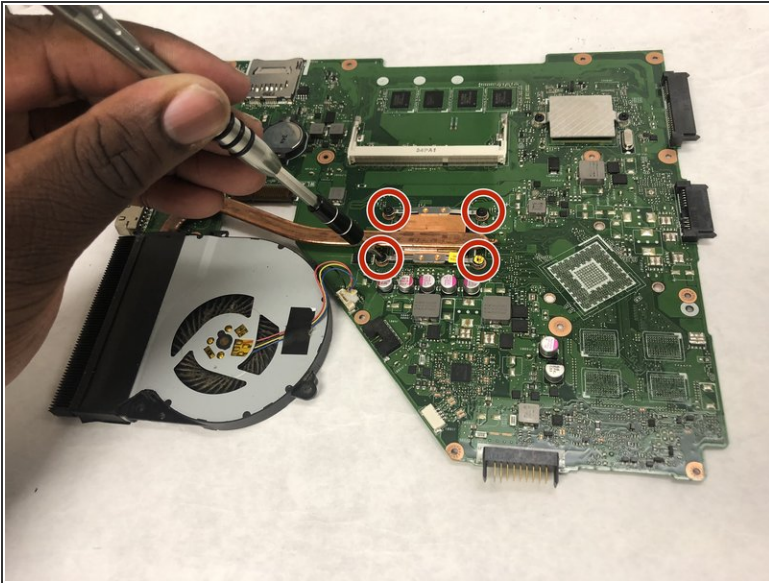
Step 15
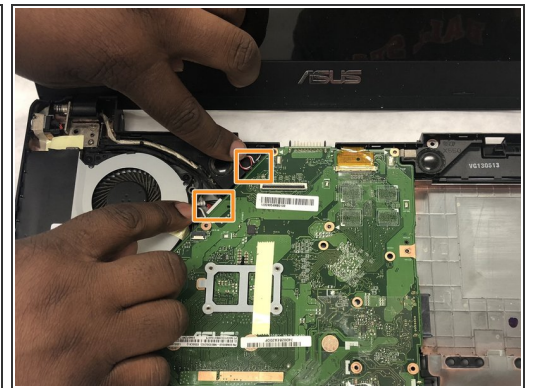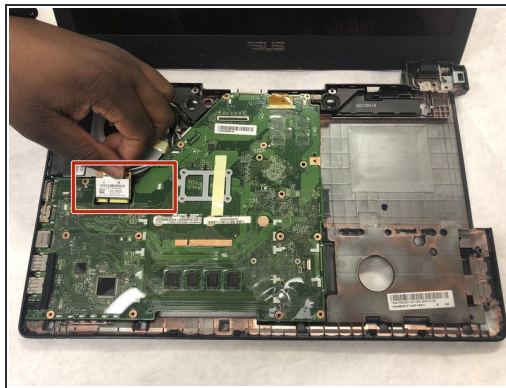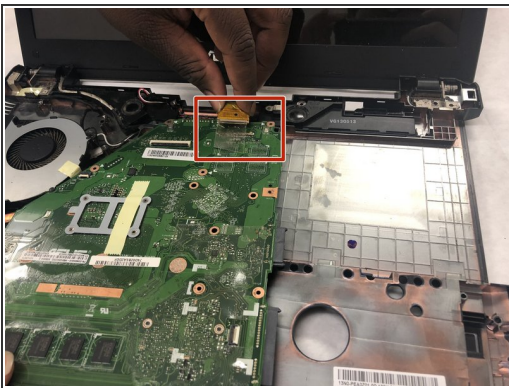
● Disconnect the cables from the motherboard by sliding the cable out of place.

● Disconnect the cables connecting the fan to the motherboard and laptop by pulling the cable out of place.
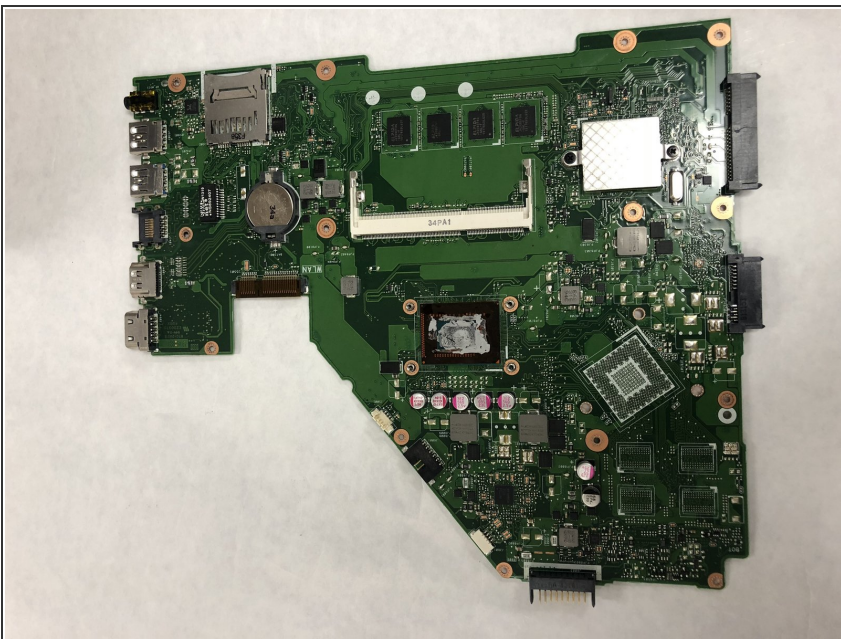
Step 16

- Lift the motherboard on the right side so that it is lifted slightly above the hard drive.

- Slide the motherboard and fan to the right. Both components should be free from the device.

- Once the fan and motherboard are free from the device, flip them over and remove the cable connecting both components.

Step 17

- Remove the four 5mm screws connecting the fan and motherboard using a Phillips #1 bit.

- Once the screws have been removed, the fan and motherboard should come apart.

Step 18

- The motherboard should now be free from the device .

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Step 19 — Fan

- The fan should be free from the device and can now be replaced.

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