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Sony VAIO VPC-EB33FM Fan Replacement

The purpose of this installation guide is to provide instructions on removing and installing the fan of the Sony VAIO VPC-EB33FM laptop.

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INTRODUCTION

This guide will inform readers on how to safely remove the fan of the Sony VAIO VPC-EB33FM laptop for replacement.

🔧 TOOLS:

- Tweezers (1)
- Phillips #1 Screwdriver (1)
- Phillips #00 Screwdriver (1)

⚙ PARTS:
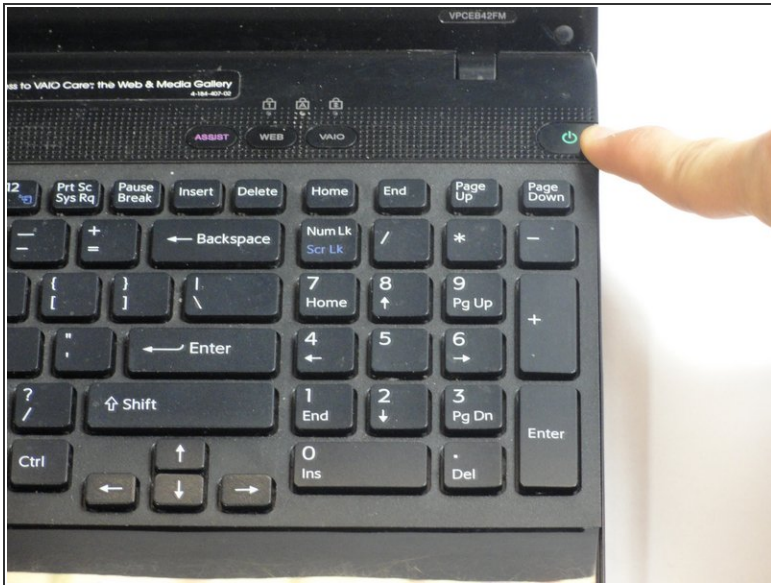
- Sony Fan (1)

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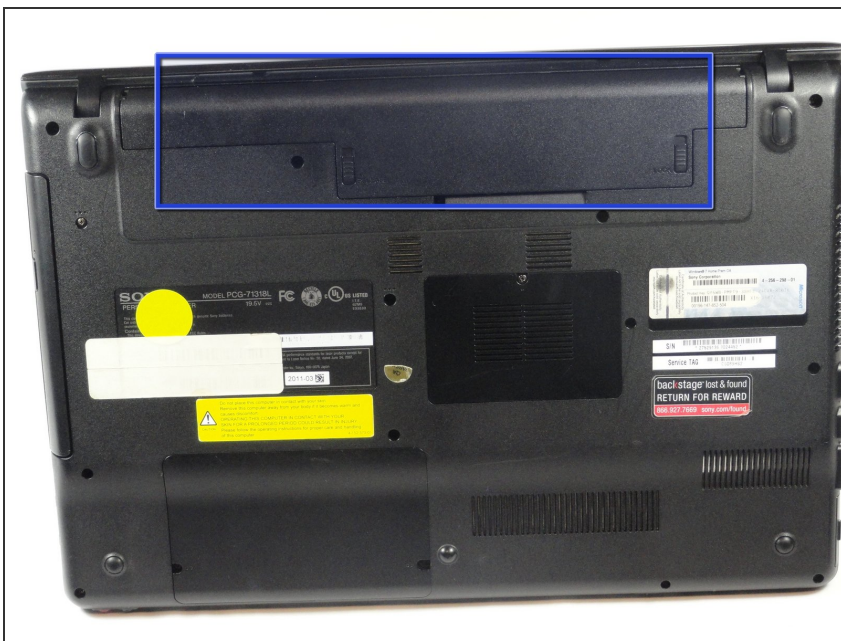
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Step 1 — Battery

- If the laptop isn't turned off, then do so by holding down the power button.

- Turn the laptop onto its backside.

Step 2

- Locate the battery below the screen attachment.

- ⓘ The battery is shaped as a long rectangle with rounded edges.

Step 3

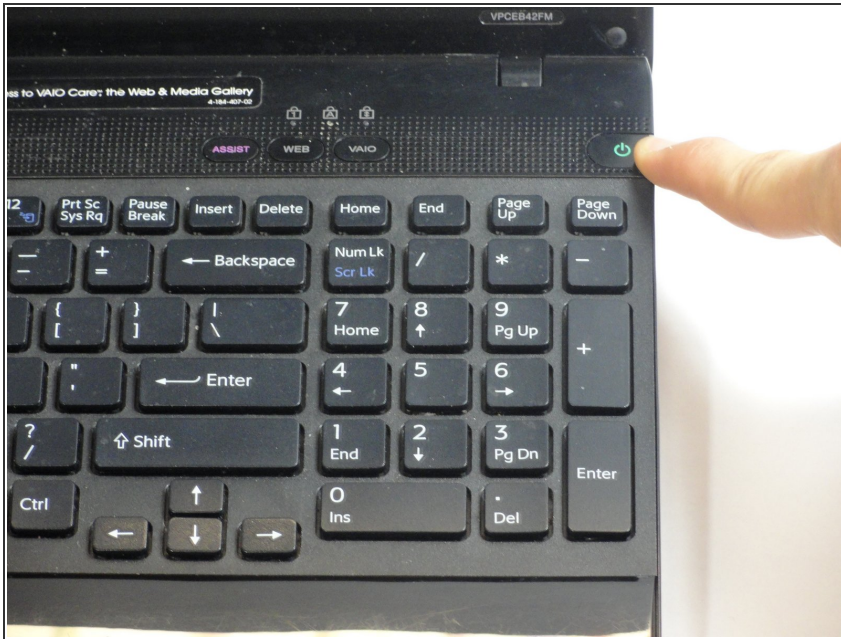- Press into the release button while holding the unlock button in position.

Step 4

- Lift the battery out at the notch while holding the release button.
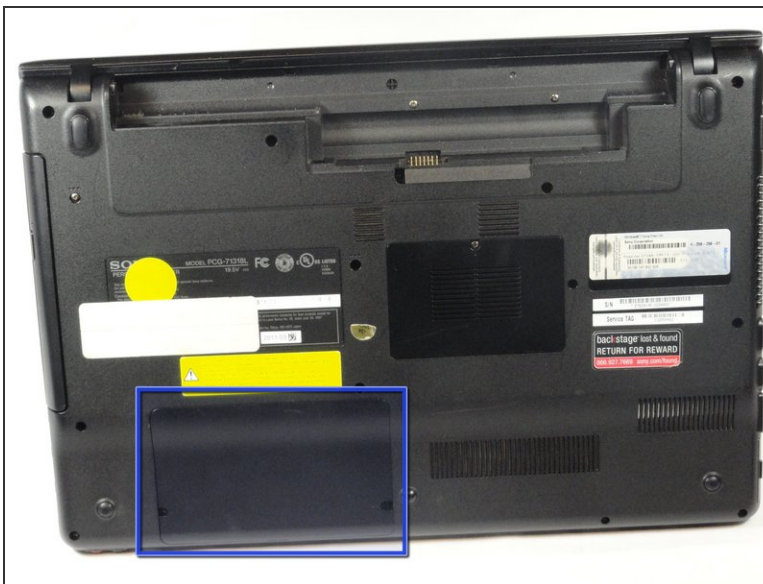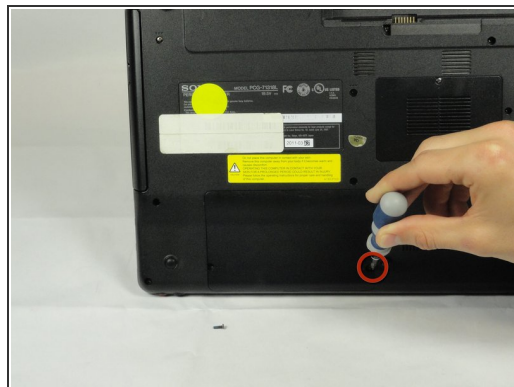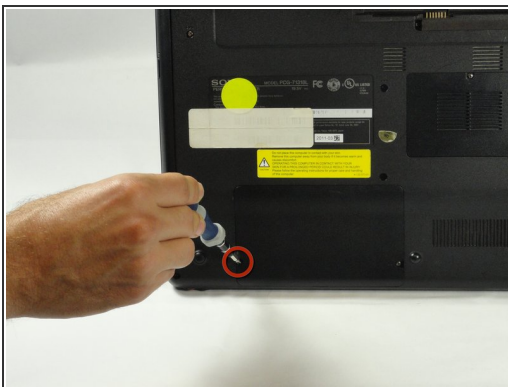
Step 5 — Hard Drive

- Remove all charge from the laptop by holding down the power button for at least 5 seconds.

Step 6

- Turn laptop onto its backside and locate the hard drive cover panel.

Step 7

- Use a Phillips #00 screwdriver to remove the two 7.75-mm cover screws on the bottom corners of the panel.

Step 8

- Use a finger/fingernail to grip the notch at the bottom of the panel to lift it off.
- You may need to use your other hand to safely remove the panel.
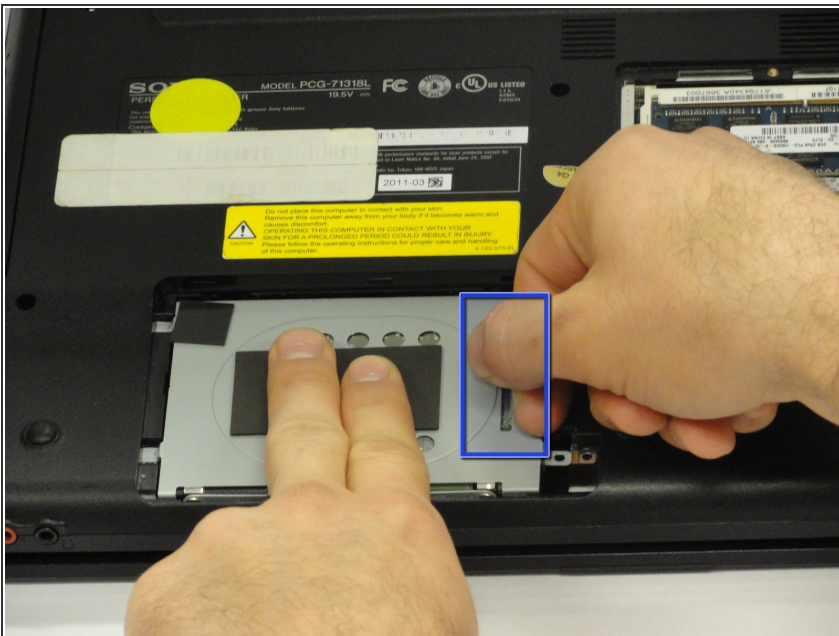- You can also use a spudger for this step

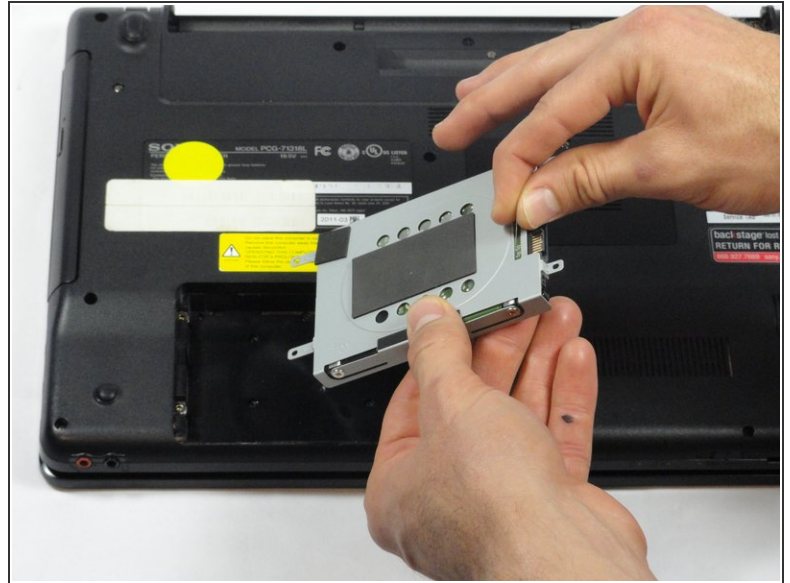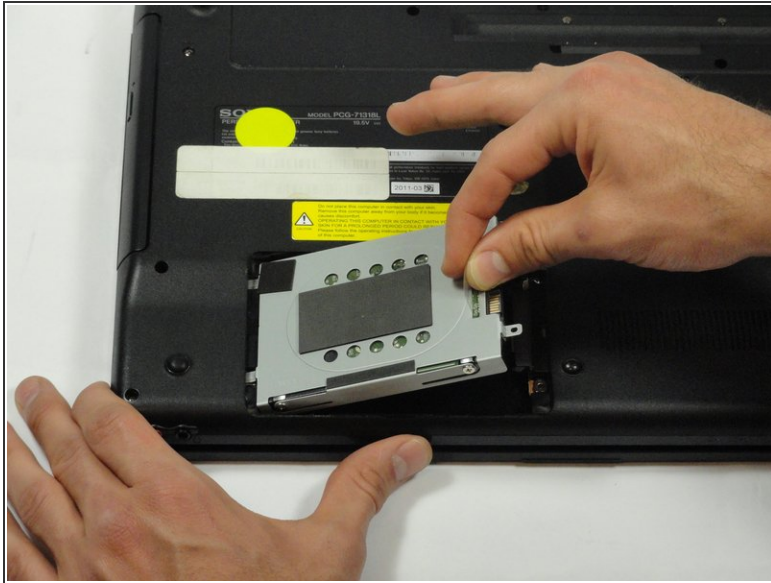This document was generated on 2020-03-30 10:19:56 AM (MST).

Step 9

ⓘ The hard drive should now be exposed.

● Remove the two remaining 7.75-mm screws using the Phillips #00 screwdriver.

Step 10

● Grab the tab between your thumb and index finger.

● Hold the hard drive securely in a horizontal position using your other hand.

● Push the hard drive to the left using the plastic tab to disconnect it from the laptop.

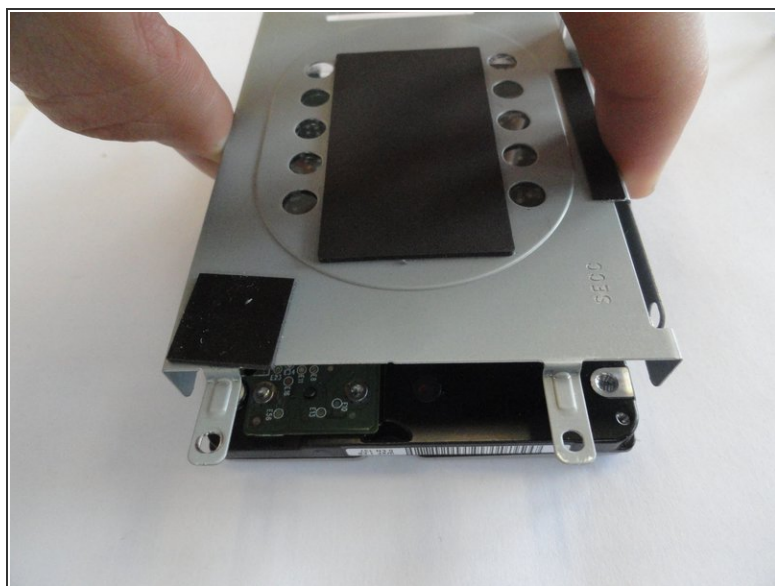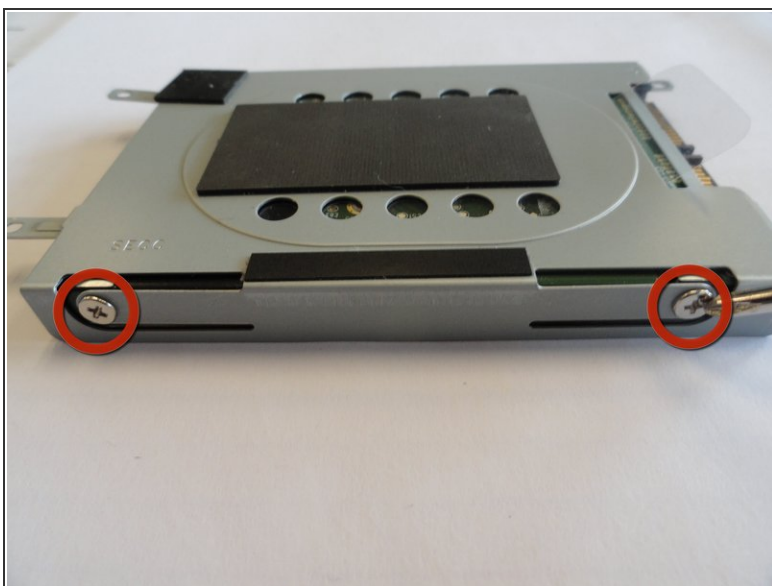⚠ To prevent damage of the connection on the hard disk drive or the laptop, perform this task slowly and with care.

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Step 11

- While still holding the plastic tab, lift the right side of the hard drive out at a 45º angle.

- Pull the hard drive out.

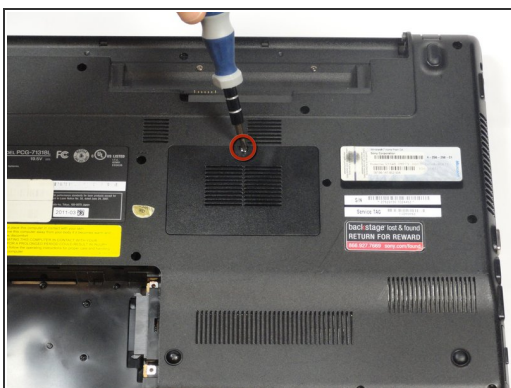This document was generated on 2020-03-30 10:19:56 AM (MST).
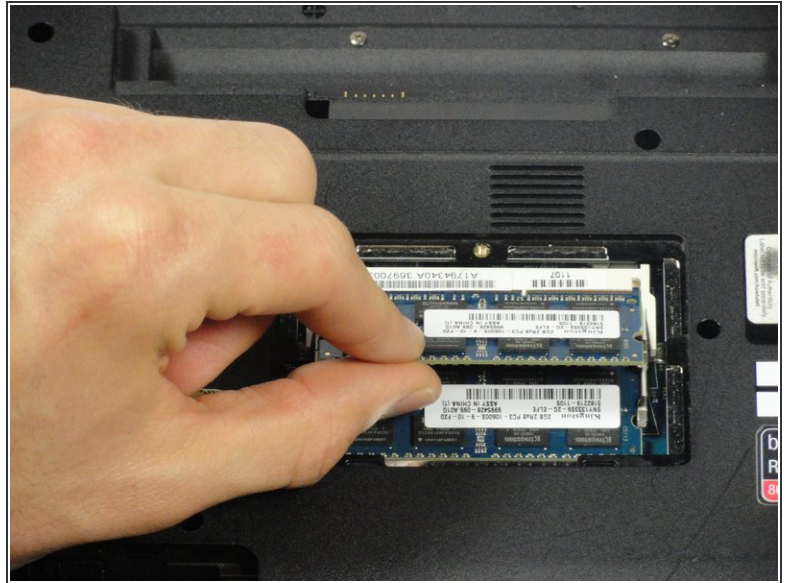
Step 12

- If you need to remove the bracket from the hard drive, follow the next few steps:
  - Remove the two 3.67-mm screws from either side of the bracket with a Phillips #00 screwdriver.
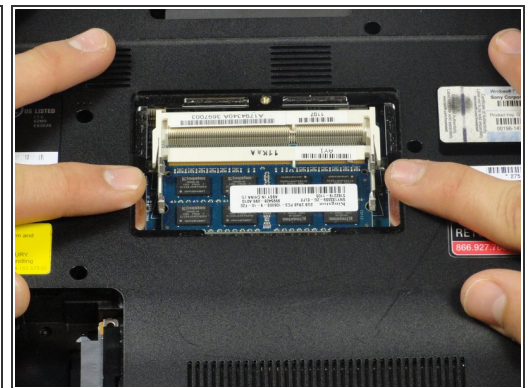 - Lift the bracket off the hard drive.

Step 13 — RAM

- Remove the one screw with a Phillips #00 screwdriver.
- ⓘ The screw cannot be removed from the RAM casing cover.

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Step 14

- Pull the two retaining arms away from the center of the RAM chip.

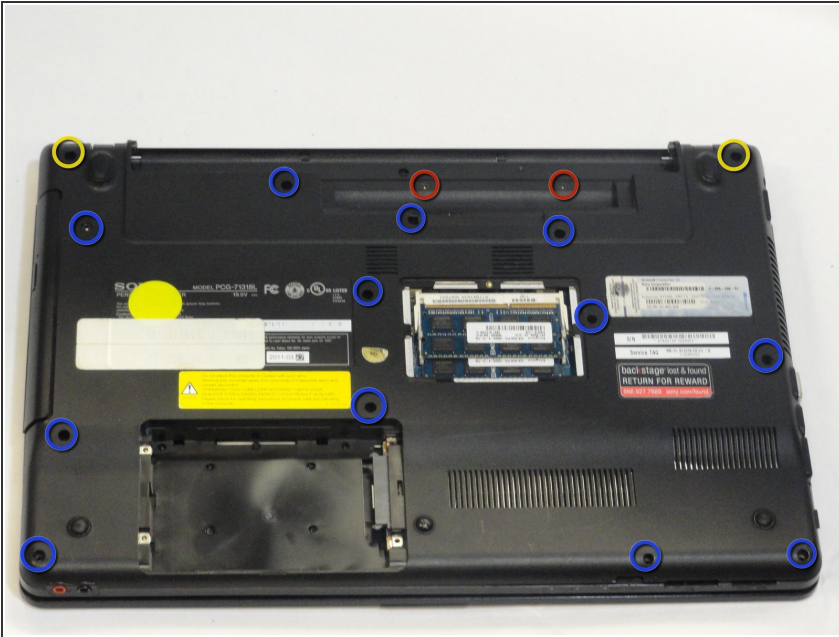- The RAM will make a "pop" sound and the RAM stick will rise for ease of handling.

Step 15

- Pull the RAM stick out of its socket.

- To remove the second stick of RAM, repeat steps six and seven.

- When installing RAM, make sure sticks are firmly in place or the computer will not register them.

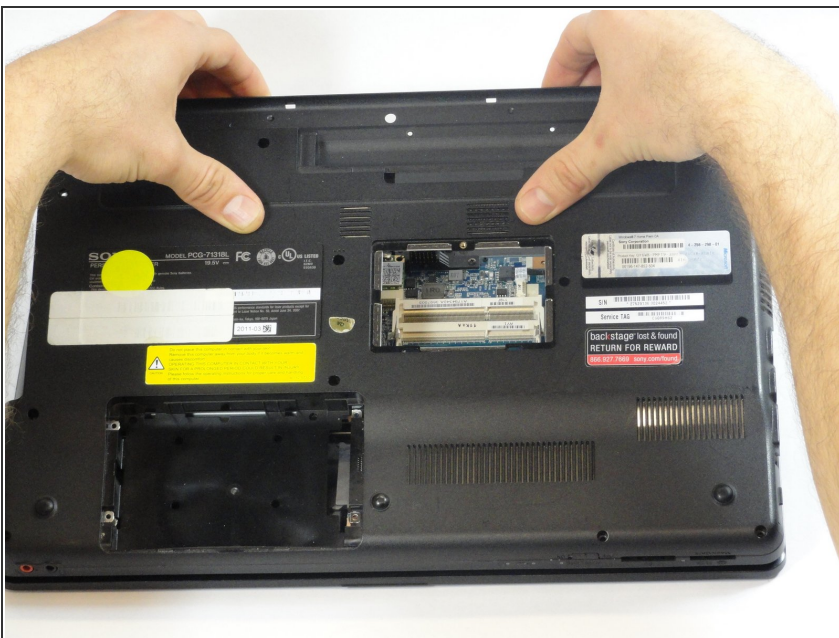This document was generated on 2020-03-30 10:19:56 AM (MST).
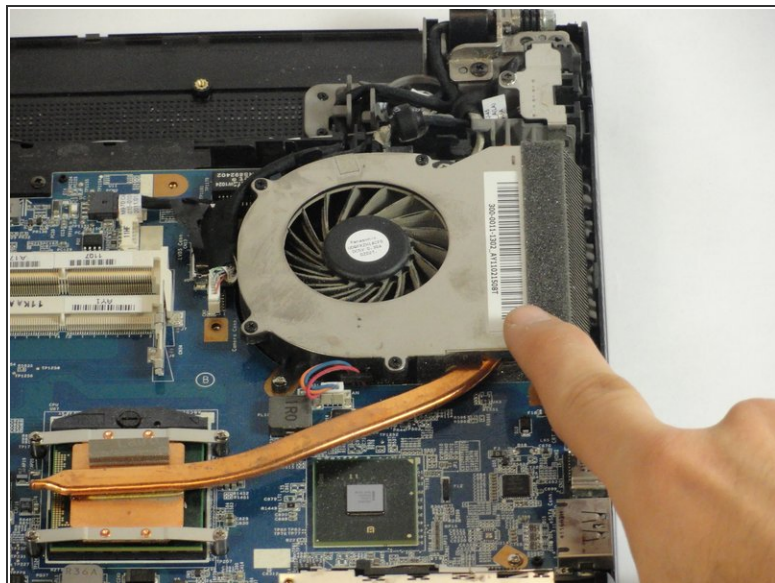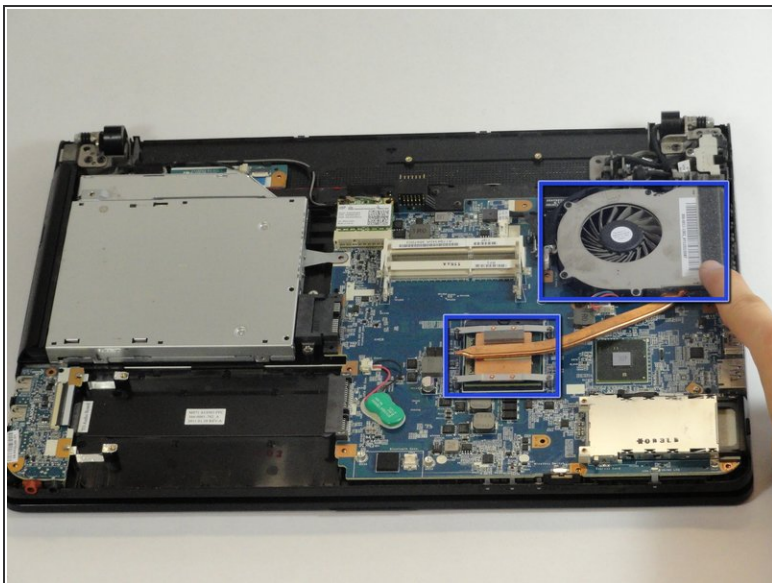
Step 16 — Fan

- Remove the following 16 screws securing the back cover using a Phillips #00 screwdriver:
  - Two 3.8-mm screws
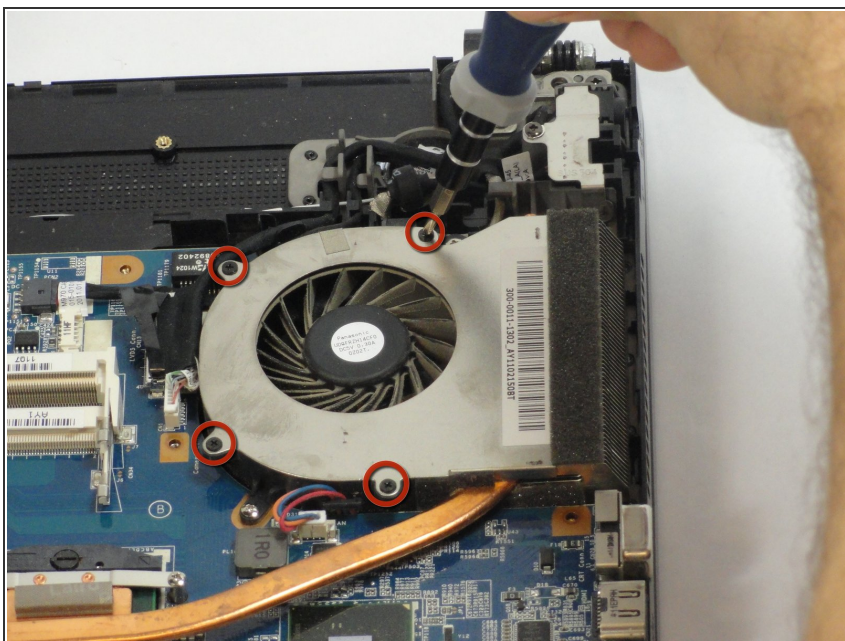 - Two 8.9-mm screws
  - Twelve 7.75-mm screws

Step 17

- ⚠ Check to make sure all the screws have been removed.

- Using both hands, separate the back cover by lifting from the back and working around the perimeter to release tabs.

Step 18

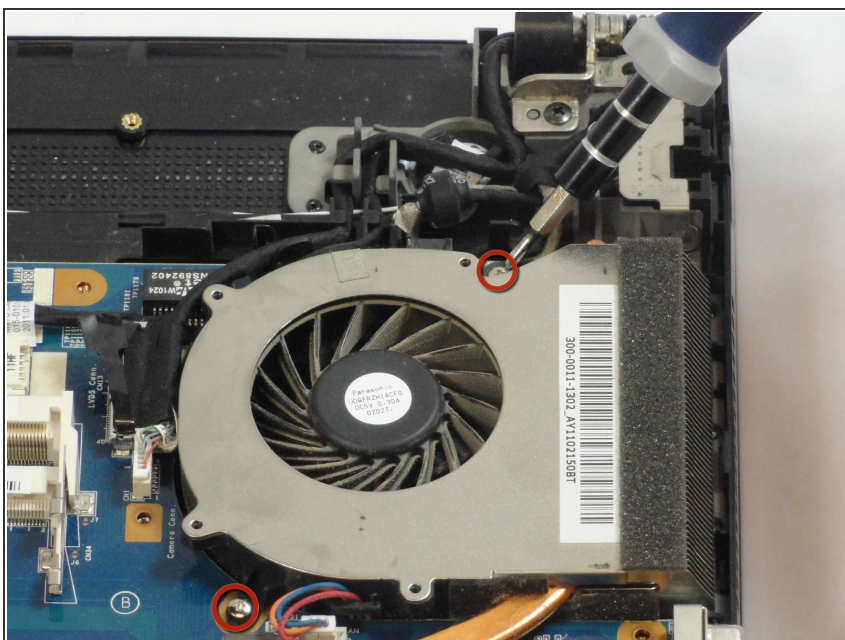● Locate the fan and the processor attachment.

Step 19

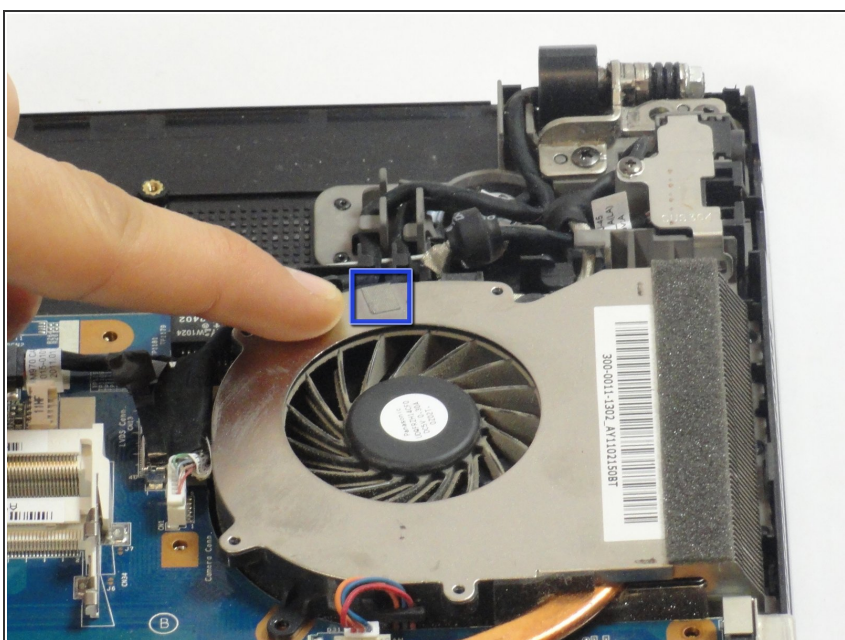● Using a Phillips #00 screwdriver, remove the top four 3.88-mm fan screws.
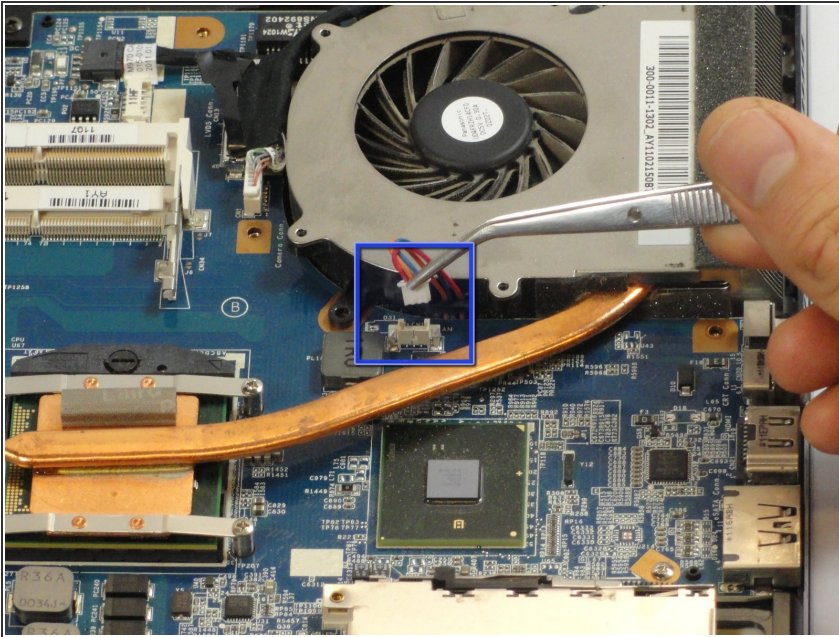
Step 20

- Remove the two 5.7-mm screws located at the base of the fan, using a Phillips #00 screwdriver.
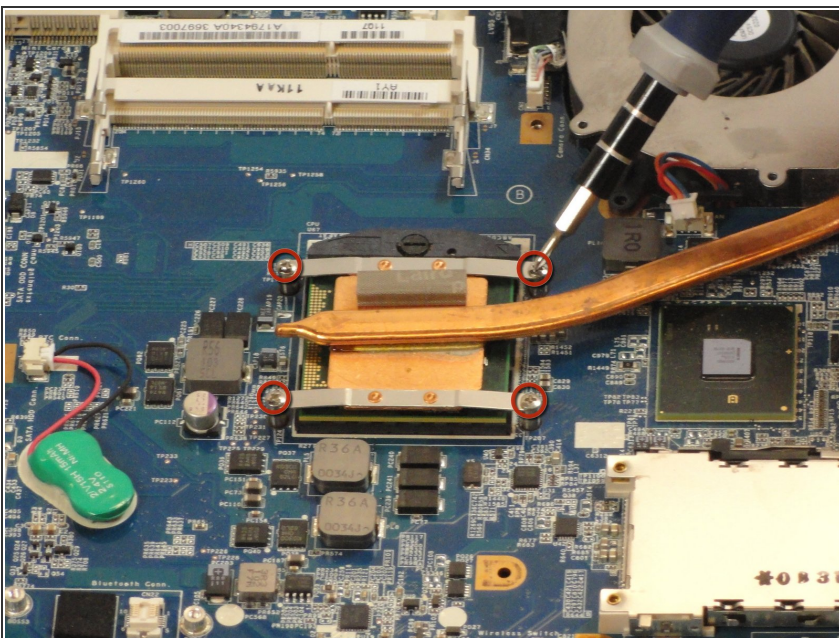
Step 21

- Pull back the tape located on the far side of the fan.

Step 22

- Remove the wired connection between the fan and the copper wire using metal tweezers.
- ⚠️ Do not to pull on the wires directly or it will damage the connection between the fan and the laptop.
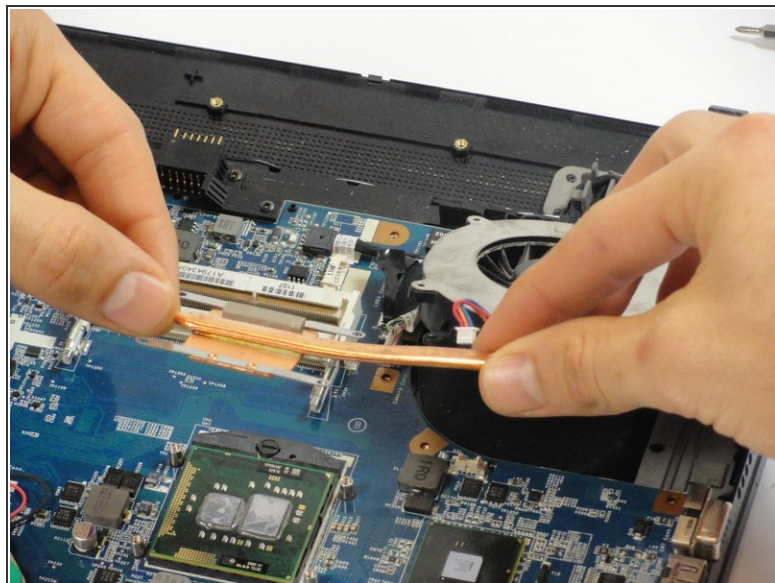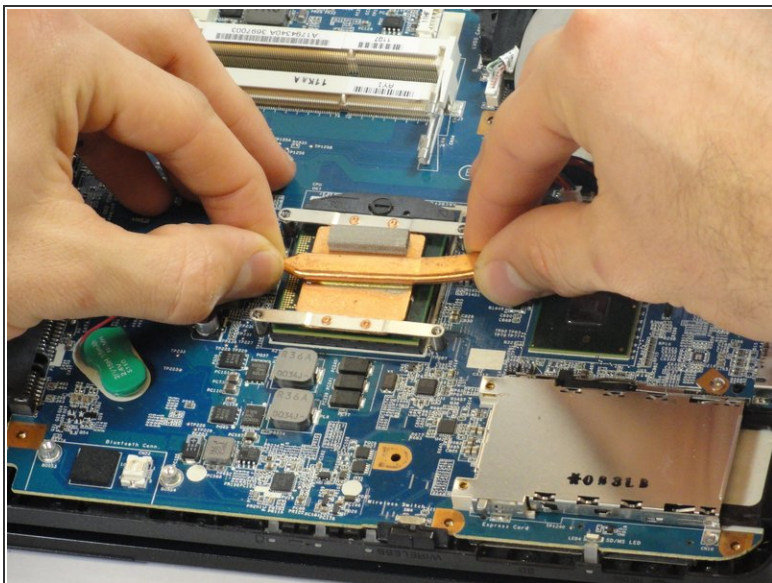
Step 23

- Remove the four 5.65-mm screws on the processor corners using a Phillips #00 screwdriver.

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Step 24

(i) You are now ready to remove fan and processor connection

● Position thumbs and index fingers close to processor and lift up on the copper wire, while applying slight downward pressure on the motherboard with remaining fingers.

⚠ If there is thermal paste between the processor and the fan attachment, increased force will be required to detach the fan.

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

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