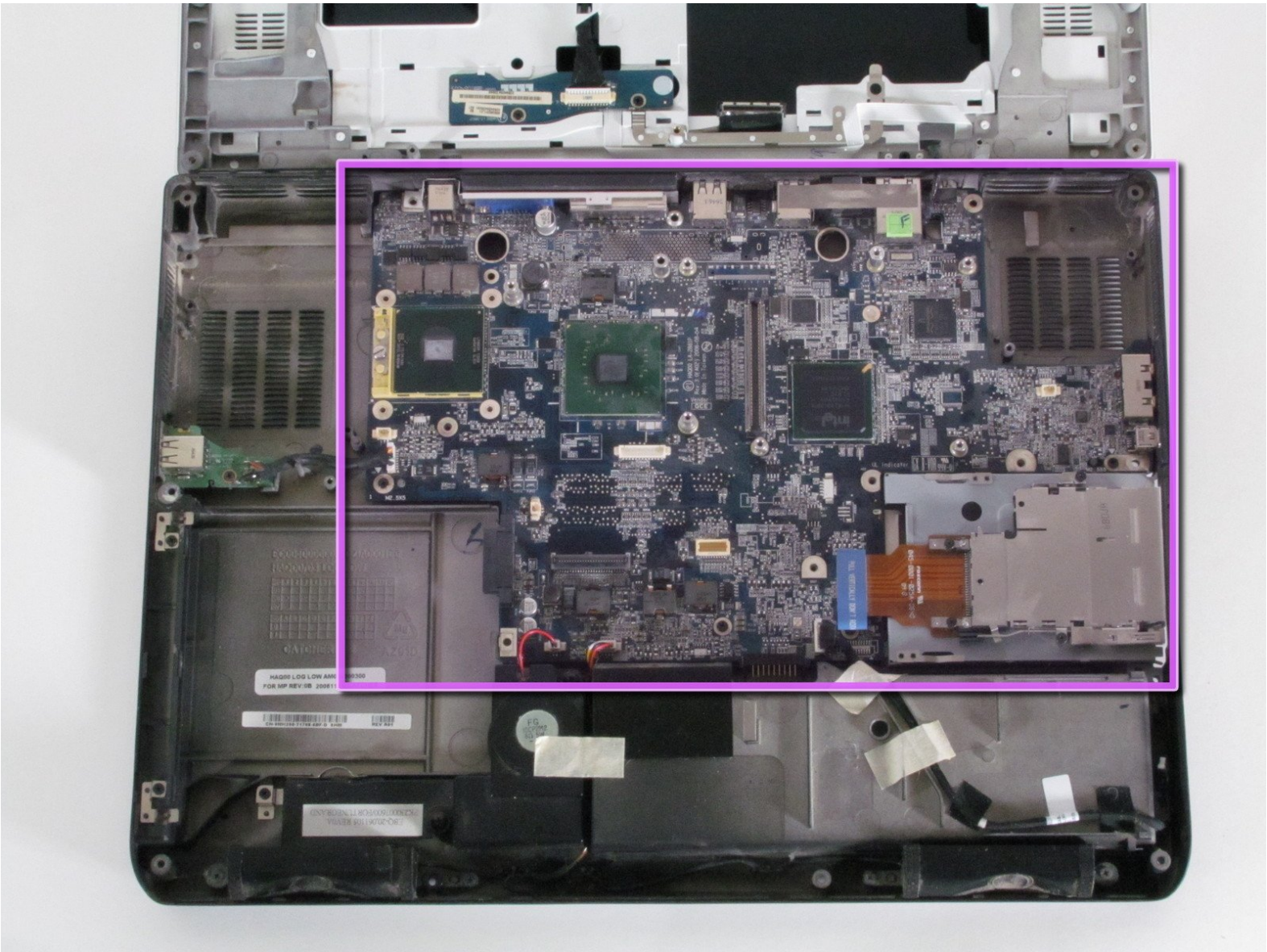
Dell Inspiron E1705 Motherboard Replacement

This guide will show you, step by step, how to install a new motherboard.

Written By: Malik Shahbal



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TOOLS:

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

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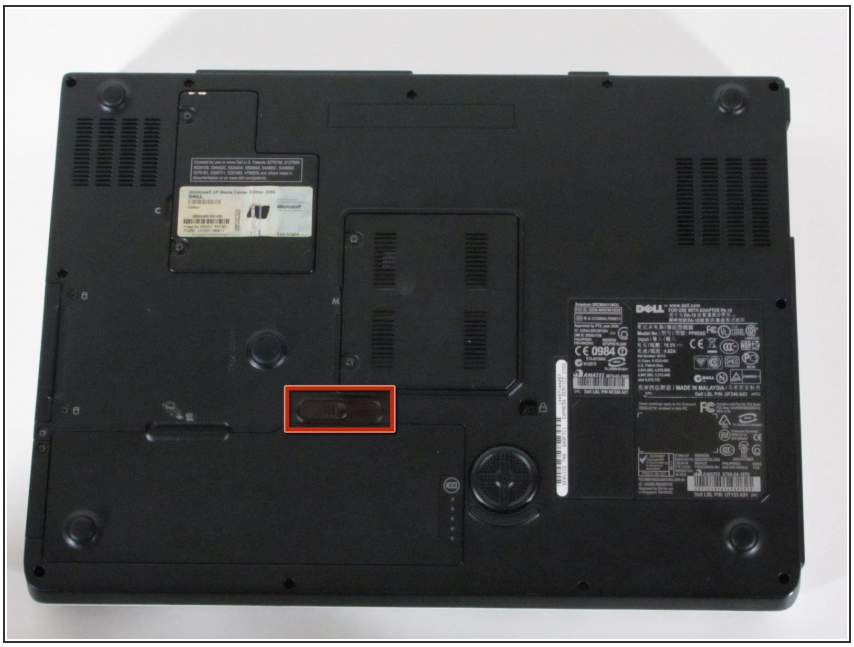
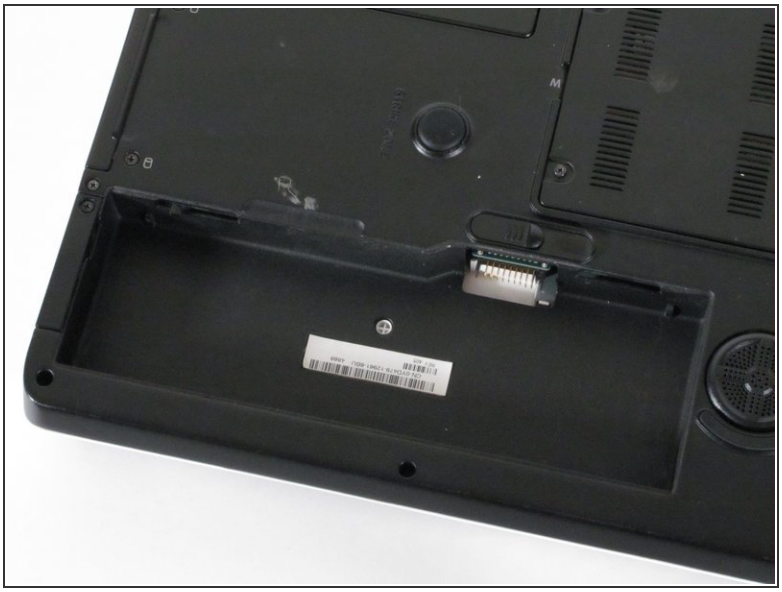
Step 1 — Battery



⚠ Make sure that the computer is turned off and is disconnected from external power source.

- Turn it upside down and locate the battery release switch.

Step 2



- While holding the switch in the open position, lift out the battery.

ⓘ If you plan to work on any internal laptop components, press and hold the power button for 5 seconds. This will dissipate any residual charge on the motherboard to prevent electrical shock when you begin to handle it.

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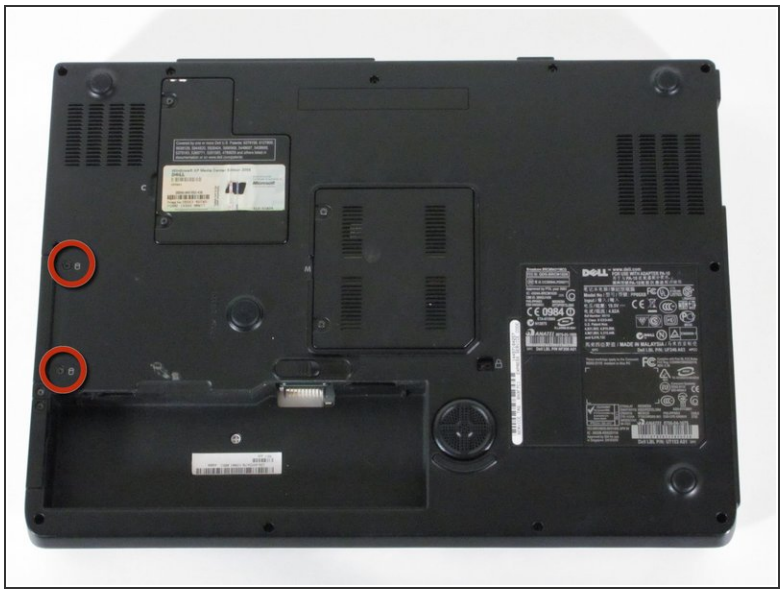
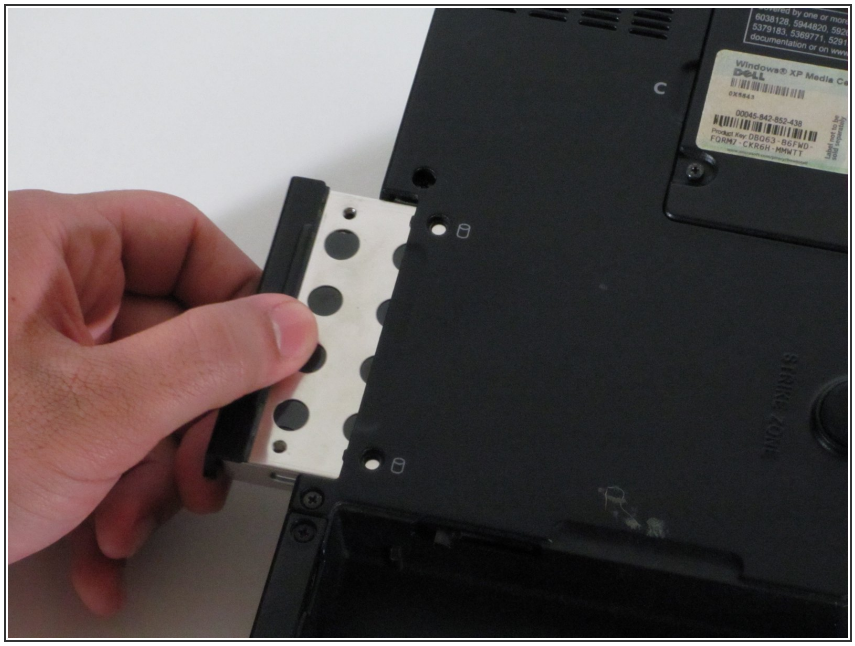
Step 3 — Hard Drive



- Remove the two Phillips #1 screws on the left side of the computer, just above the battery compartment.

ⓘ These screws hold the hard drive tray into the hard drive compartment.

Step 4



- Slide the hard drive tray out of the hard drive compartment.

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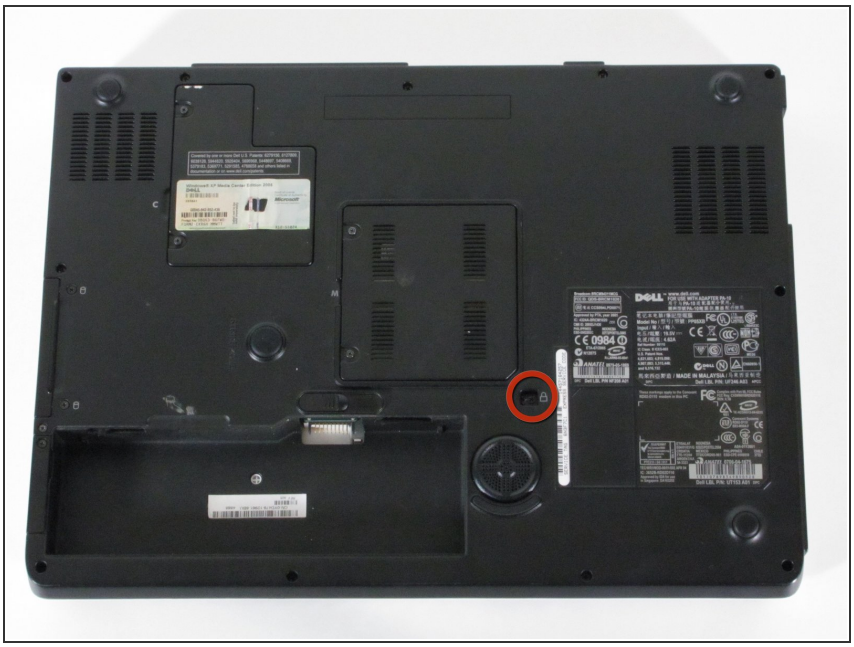
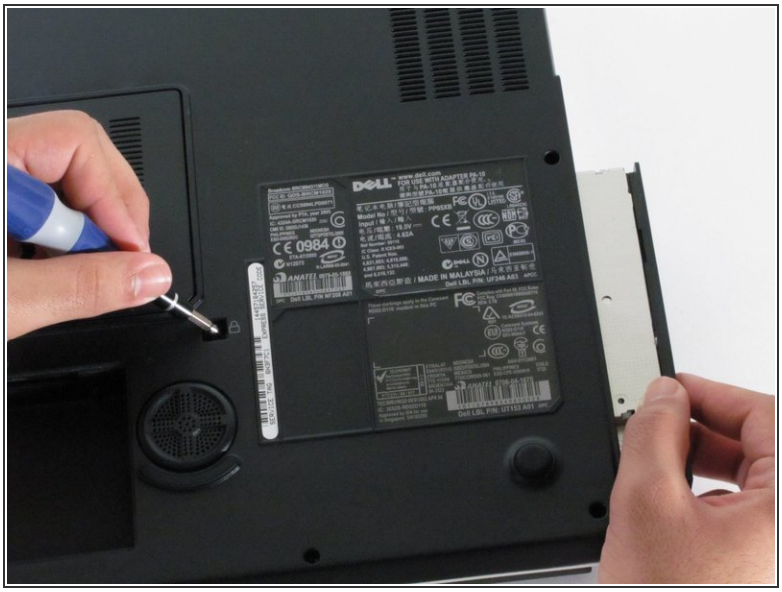
Step 5 — Optical Drive



- Locate and remove the screw shown
  - It is labeled with a lock symbol

Step 6



- Use the screwdriver to gently push the optical drive out

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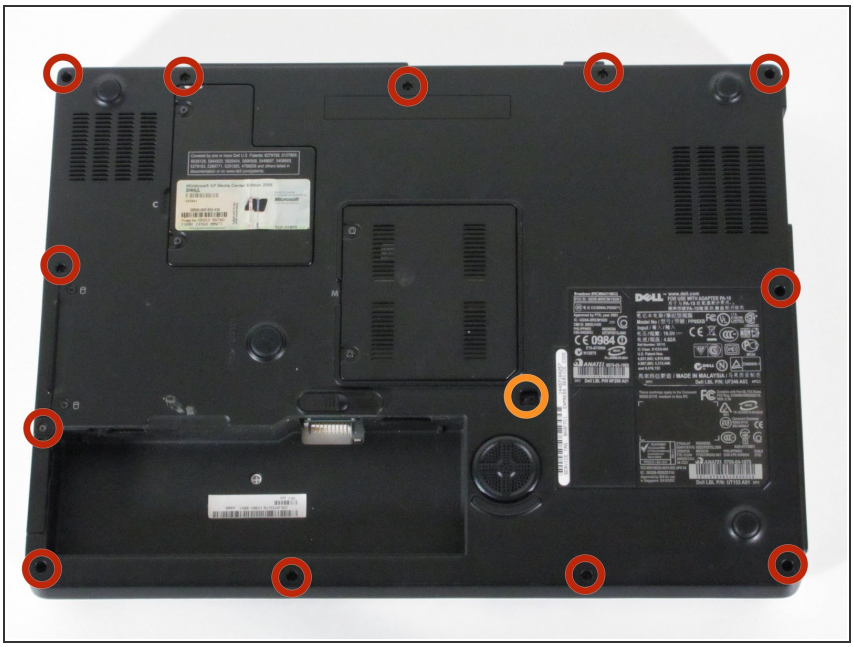
Step 7 — Lower Case



- Remove the 12 Phillips #1 screws from the edges of the lower case.
- You may also need to remove the central screw next to the lock icon.

Step 8

- Turn the computer back over and tilt the screen open.
- Use the plastic opening tool to carefully pry the panel out as shown in the pictures

⚠ Remove the plastic panel carefully.

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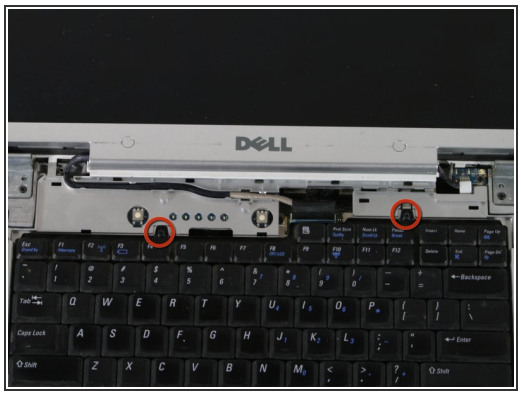
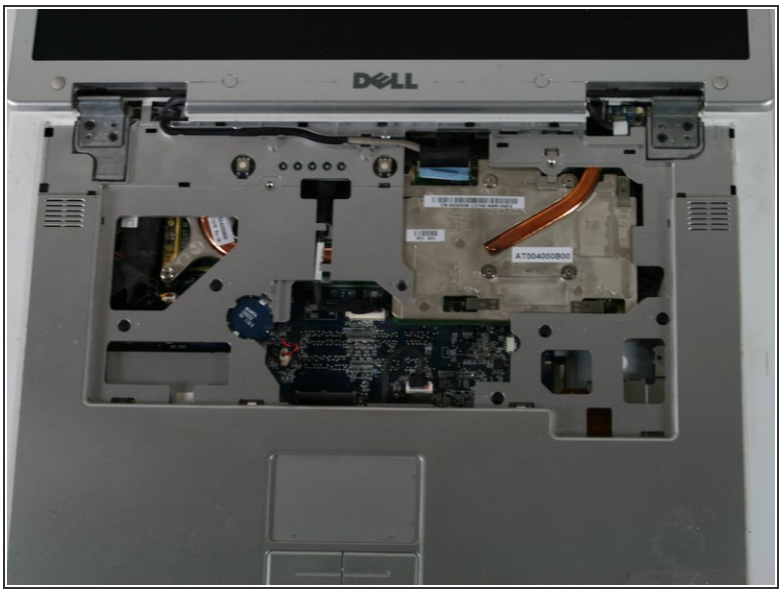
Step 9



- Use the small Phillips head screwdriver to remove the screws circled in red.
- Gently lift the keyboard up and rest it just below the screen as shown in the picture.
- The keyboard will still be connected to the motherboard.

Step 10



- Before removing the keyboard completely, use the plastic opening tool to gently lift the clamp connecting the keyboard to the motherboard.
- Once the keyboard has been disconnected, remove the keyboard completely.

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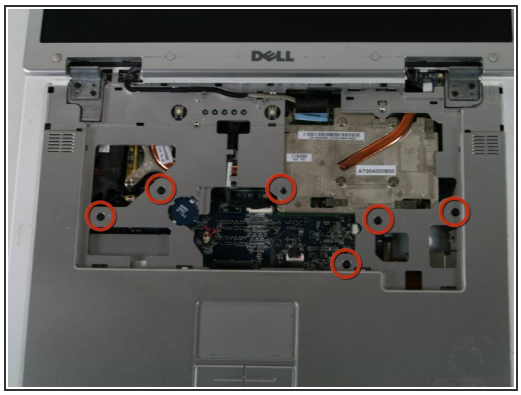
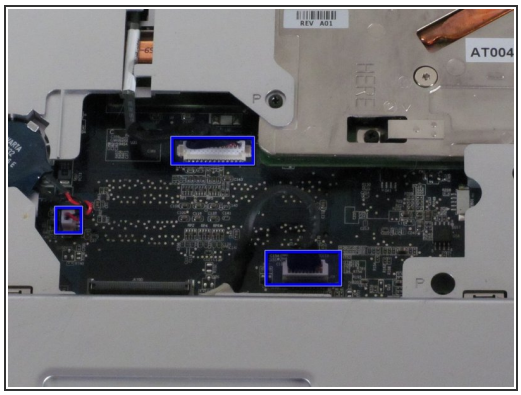
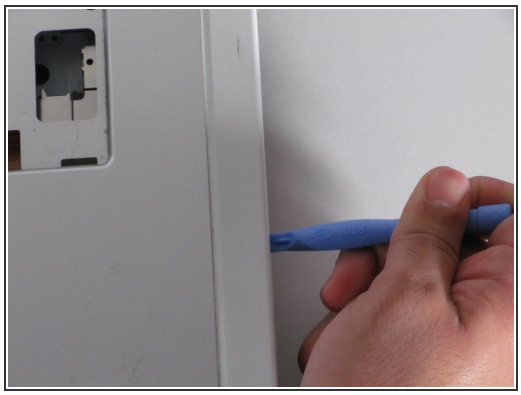
Step 11







- Using a Phillips head screwdriver, remove the screws shown in the image. They all have the letter "P" next to them.
- Carefully unplug the connections shown.

ⓘ Don't forget the display cable. It is slightly to the right of the Dell logo at the top.

- Also, the wireless cables on the right side may prevent moving the upper case out of the way.
- Once the screws have been removed and the connections unplugged, use the plastic opening tool to gently separate the panel from the lower case.

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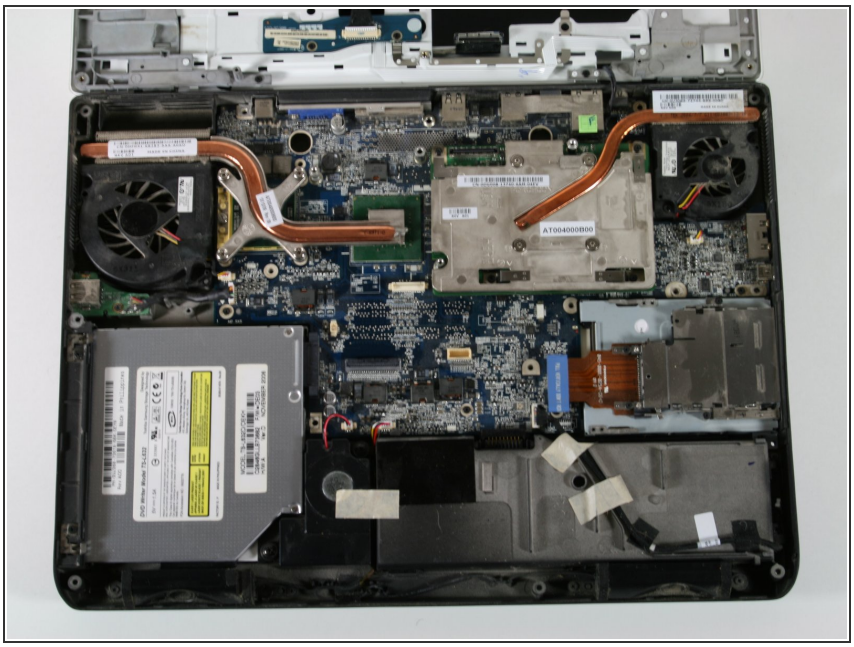
Step 12

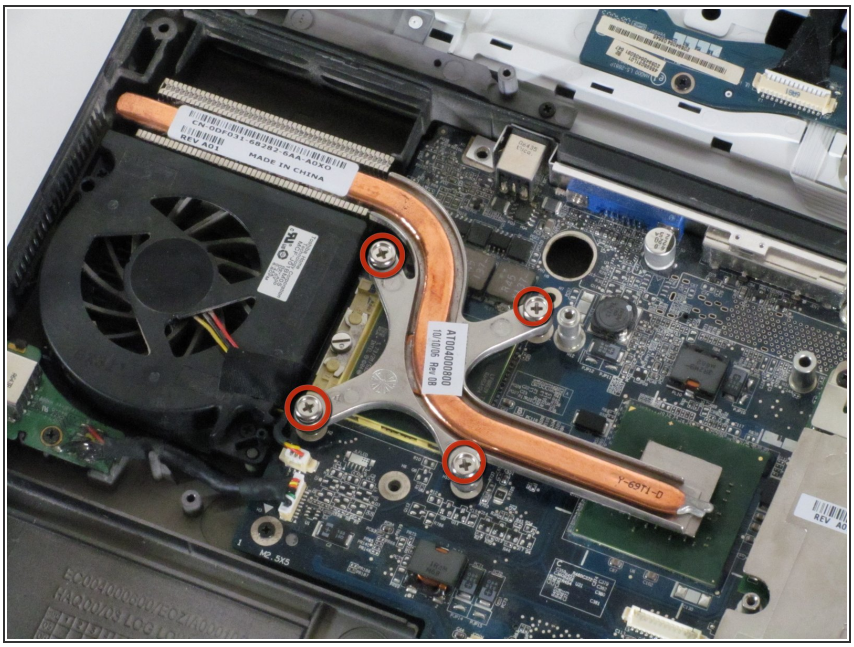


- Remove the plastic case by gently bending back towards the screen. You can bend the screen all the way back if that helps.

ⓘ For the motherboard the optical drive will be removed already. However for the lower case it is not necessary that it be taken out.

⚠ If you are having trouble removing the upper plastic case (and LCD) from the lower case, there may still be a wire connected to the Wi-Fi adapter. Turn the laptop over, open the Wi-Fi module access panel and remove the + and - leads for the Wi-Fi antenna.

Step 13 — Heat Sink



- Unscrew the 4 screws shown in the picture.

ⓘ Screws will not come out all the way.

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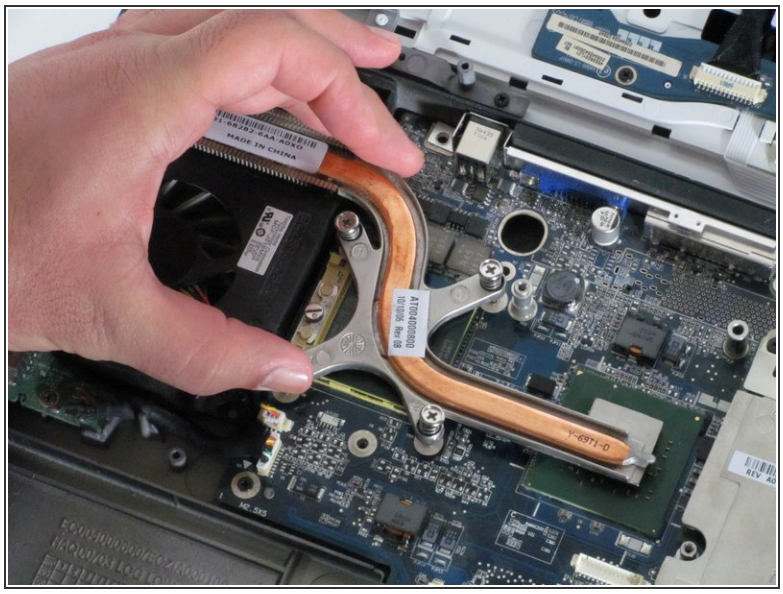
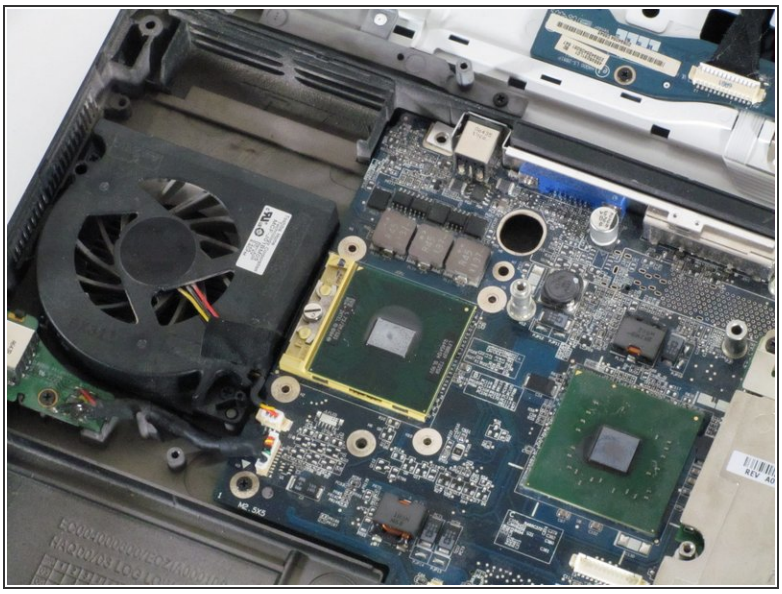
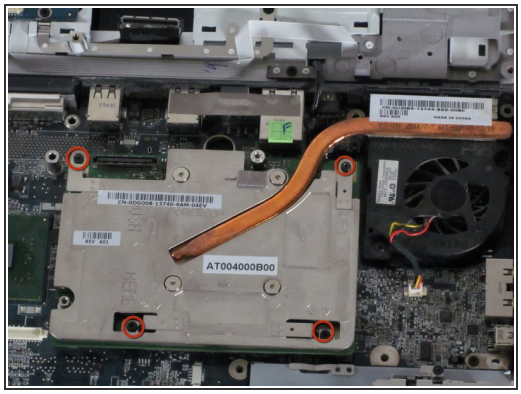
Step 14

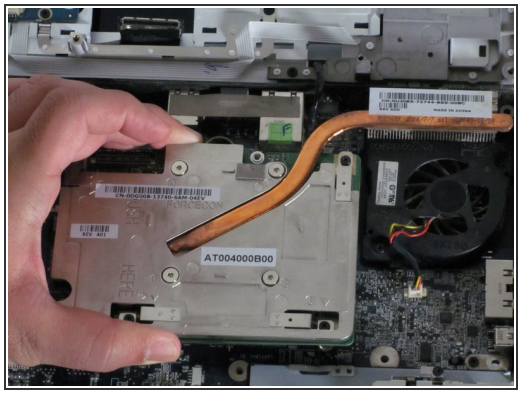


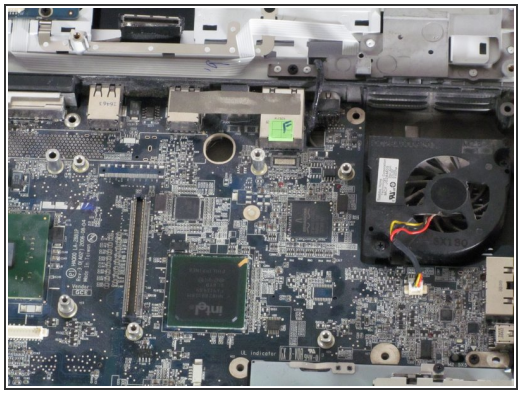


- Remove the heat sync gently

Step 15







ⓘ The right heat sync is connected to the videocard. To remove the heat sync requires also removing the videocard.

- Remove the 4 screws indicated in the first picture

ⓘ Screws will not totally come out.

- Gently lift up the videocard and heat sync from the motherboard.

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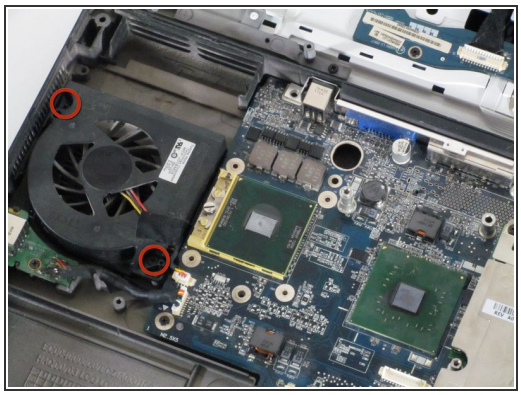
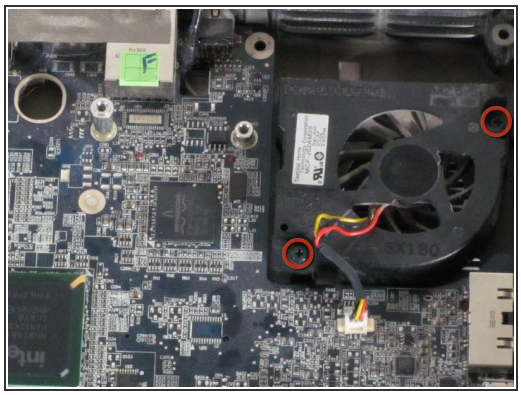
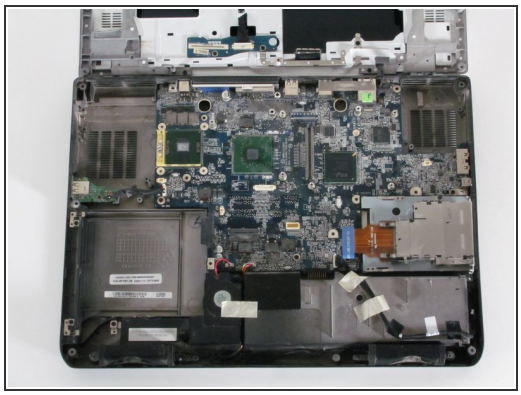
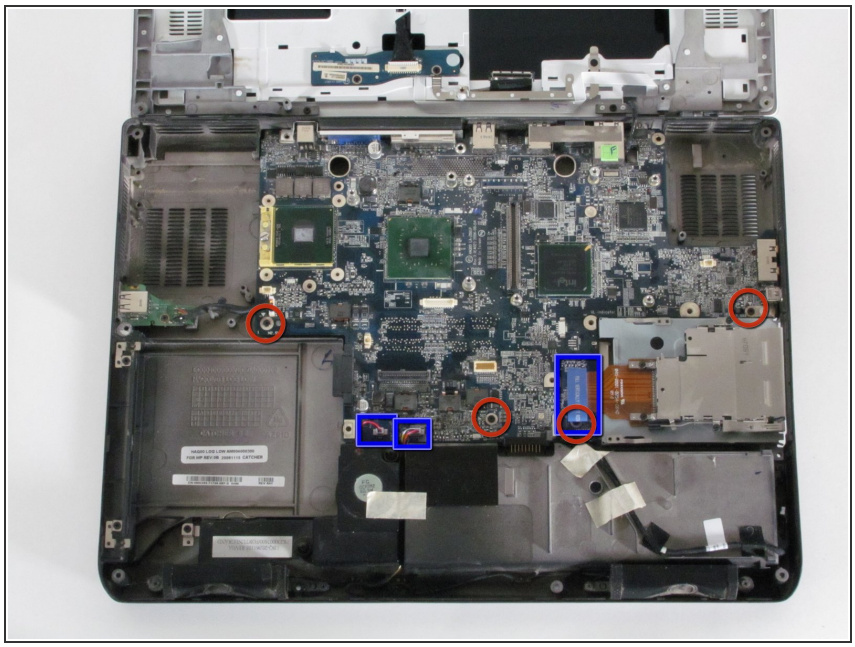
Step 16 — Motherboard

- Remove both fans from the computer. This will make it easier to remove the motherboard.
- Remove the screws in the photos to remove the fans.

Step 17



- Unplug the shown leads by gently pulling them up.
- Remove the shown screws from the motherboard

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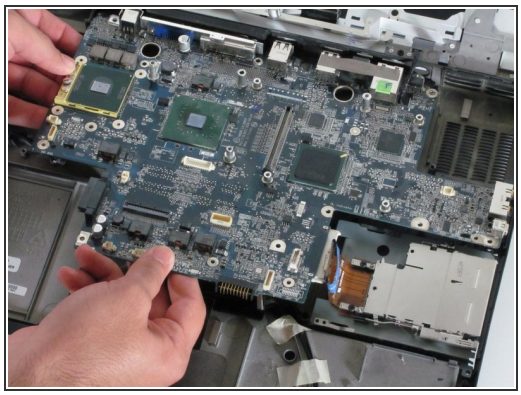
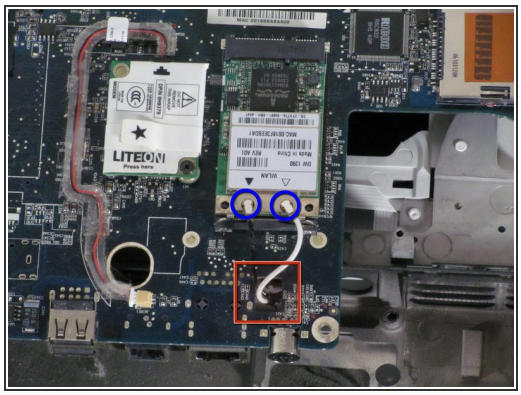
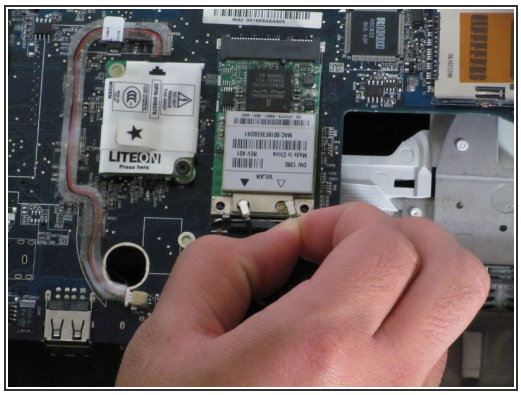
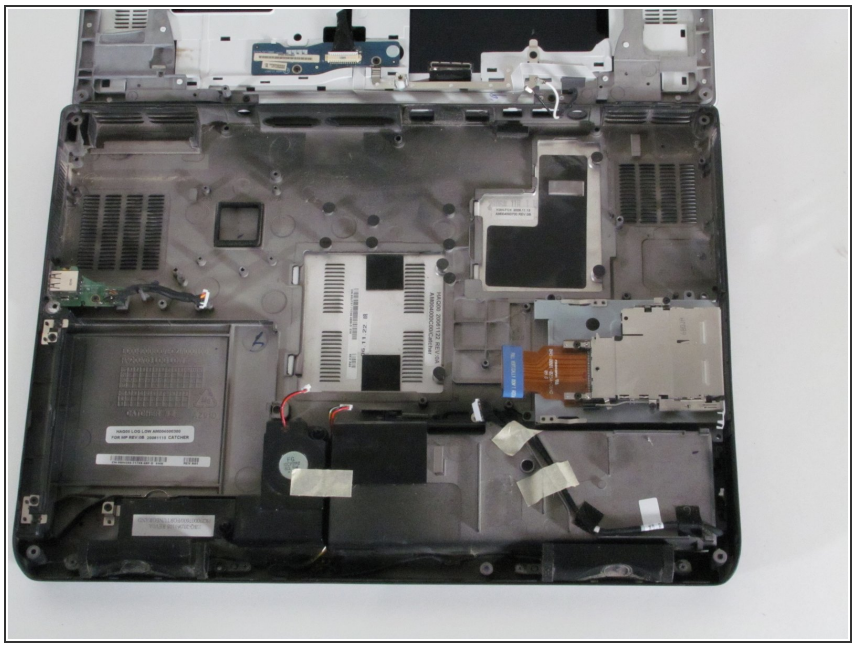
Step 18



- Gently remove the motherboard from the laptop by simultaneously lifting and pulling away from the sides.
- Once the motherboard is free, flip it over, towards the screen of the laptop and gently remove the black and white wire from the wireless card.
- Once the wires are disconnected, pull them through the hole and completely remove the motherboard from the computer.

Step 19



- Your computer should look like the computer in the photo without the motherboard.

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

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