



HP Pavilion dv7-1448dx Motherboard Replacement

Replace the motherboard to fix computer startup issues.

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INTRODUCTION

This guide provides instructions for replacing the motherboard of the laptop. If your laptop is not starting correctly, replacing the motherboard may provide a solution to these issues.

TOOLS:

- [iFixit Opening Tools](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
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Step 1 — Battery



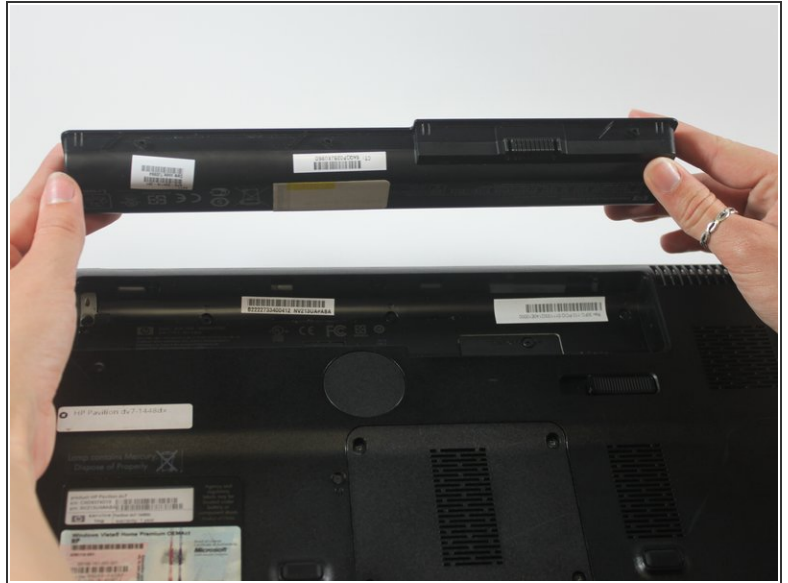
- Make sure the computer is unplugged and turned off.
- Place the computer front side down with the battery compartment farthest away.

Step 2



- Slide the switch under the battery compartment to the left until the compartment opens. This may require some force.

Step 3



- Lightly pry the battery upward to remove.

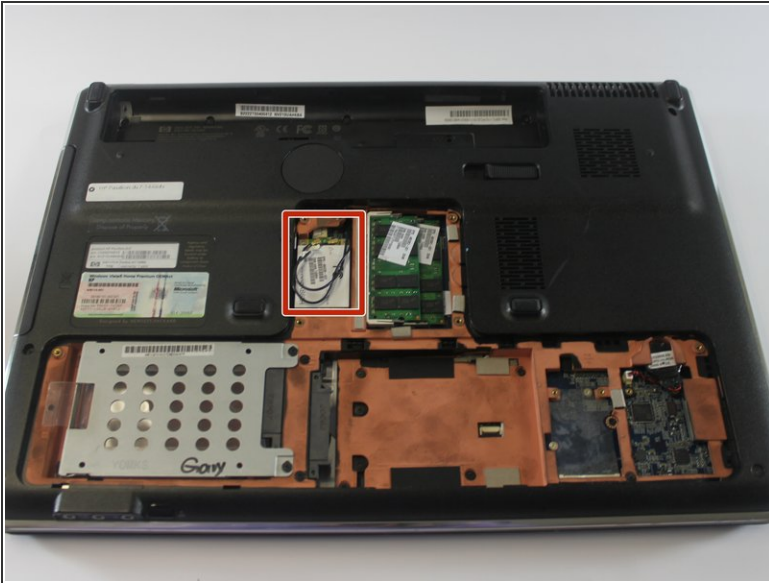
- ☒ When reinserting the battery, match the latches along the backside of the battery with the corresponding slots in the computer in order to press it into place.

Step 4 — Motherboard



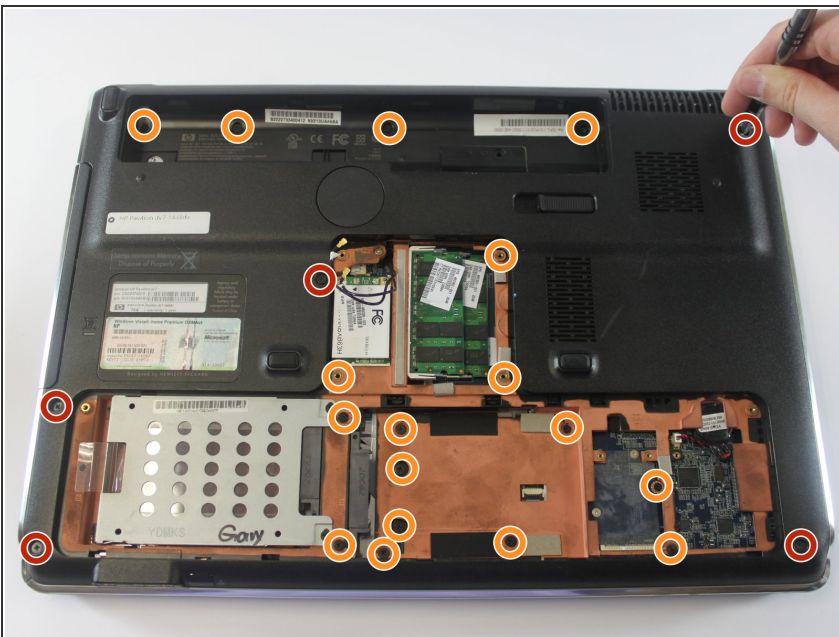
- Unscrew the six Phillips PM2.5×6.0 captive screws with a Phillips #00 screwdriver.
- Pry the back casing up and away from the rest of the laptop with the plastic opening tool.

Step 5



- Disconnect the WLAN antenna cables.

Step 6



- Remove the five Phillips PM2.5x7.0 screws with a Phillips #00 screwdriver.
- Remove the 17 Phillips PM2.5x3.0 screws with a Phillips #00 screwdriver.
- ⓘ A magnet may be useful to help take out the screws.

Step 7



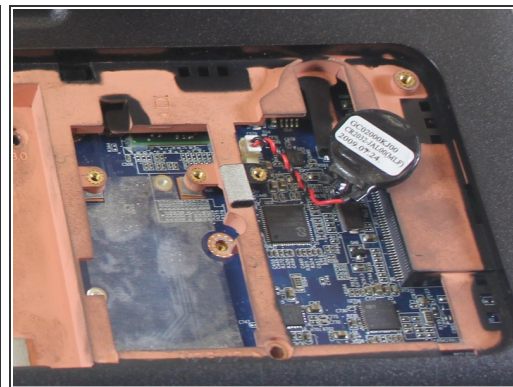
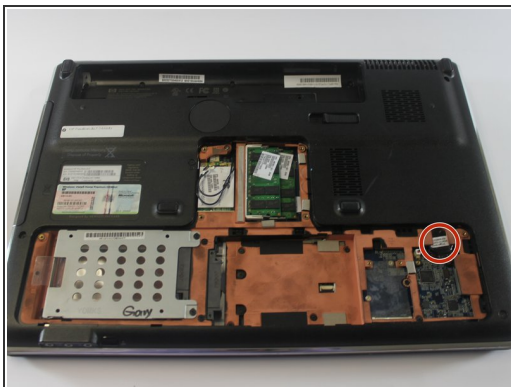
- Remove the grey mounting bracket by unscrewing the two Phillips PM2.5×3.0 screws with a Phillips #00 screwdriver.
- Slide the bracket to the left to remove.

Step 8



- Remove the two Phillips PM2.5×4.0 broadhead screws with a Phillips #00 screwdriver.

Step 9



- Slide out and remove the black watch battery.

Step 10



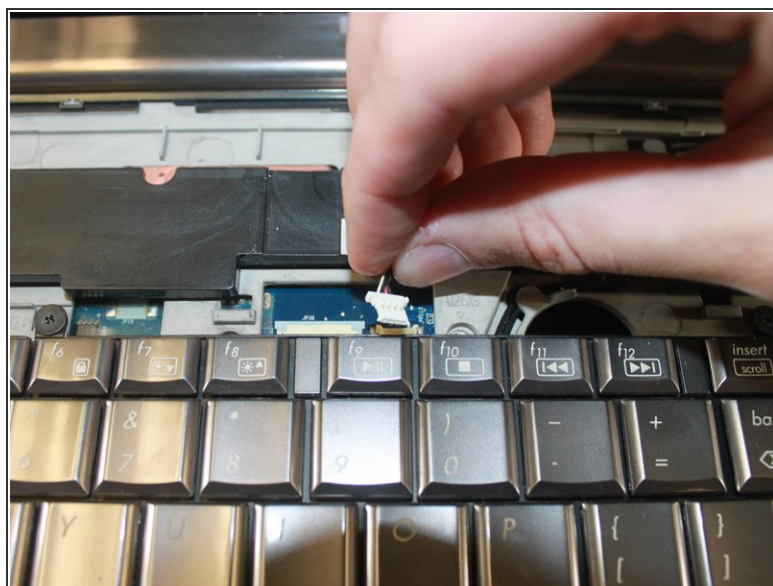
- Turn the laptop over and open it so that the keyboard is exposed.
- Lift off the speaker cover.

Step 11



- Remove the three Phillips PM2.5×3.0 screws, located on the speaker, with a Phillips #00 screwdriver.

Step 12



- Unplug the white assembly cable.

Step 13



- Lift off the speaker.

Step 14



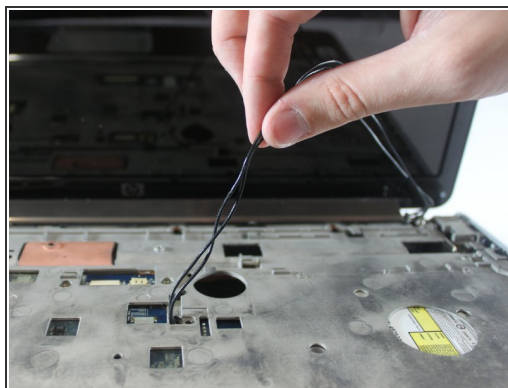
- Remove the four Phillips PM2.0x4.0 screws with a Phillips #00 screwdriver.
- Partially lift the keyboard to access the ribbon cable underneath.

Step 15



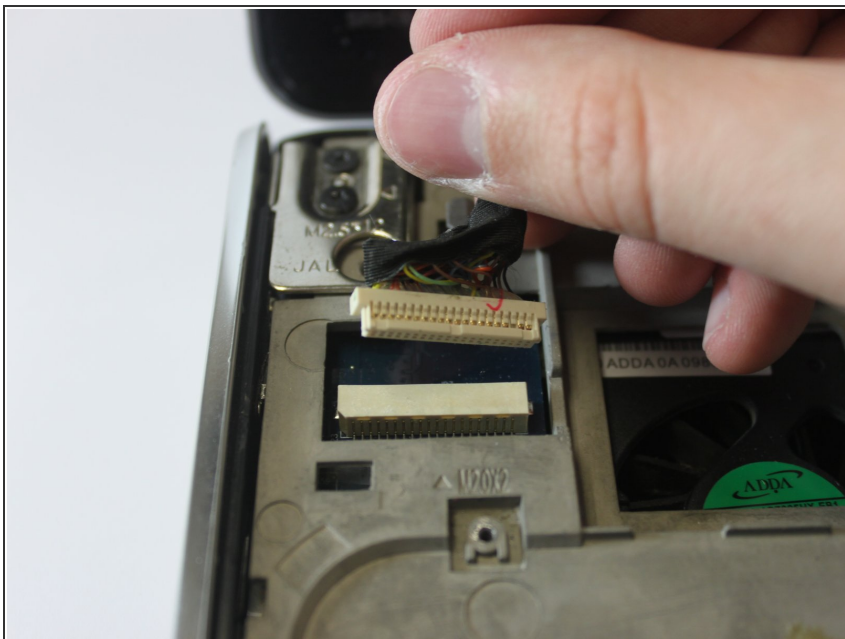
- Disconnect the black zero insertion force connector in order to completely remove the keyboard.

Step 16



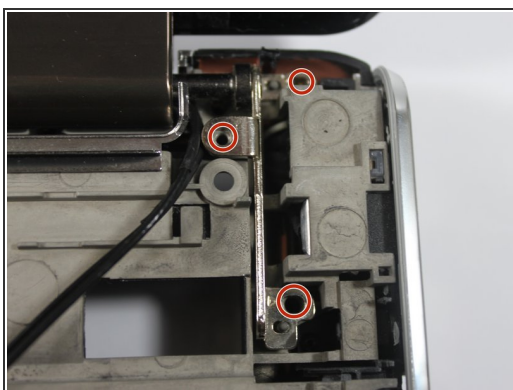
- Unhook the black WLAN antenna cables from the clasps holding it in place.
- Pull up to fully disconnect the ends of the WLAN antenna cables.

Step 17



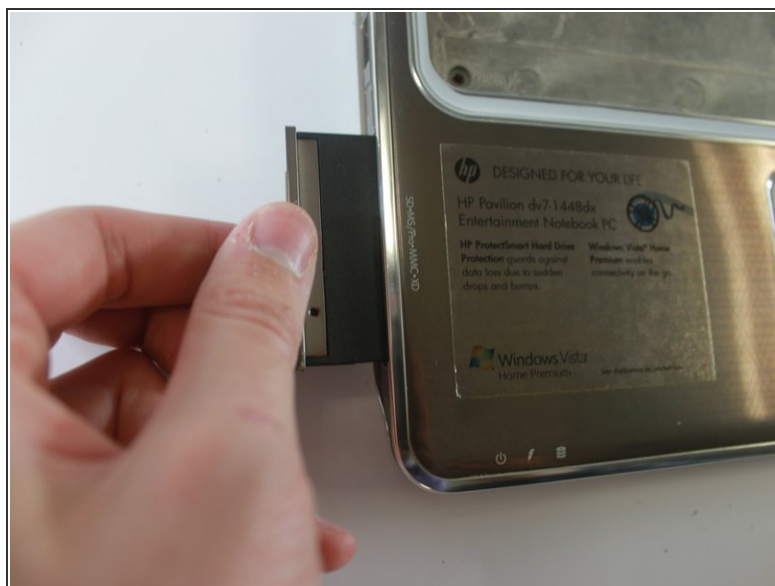
- Disconnect the display panel cable.

Step 18



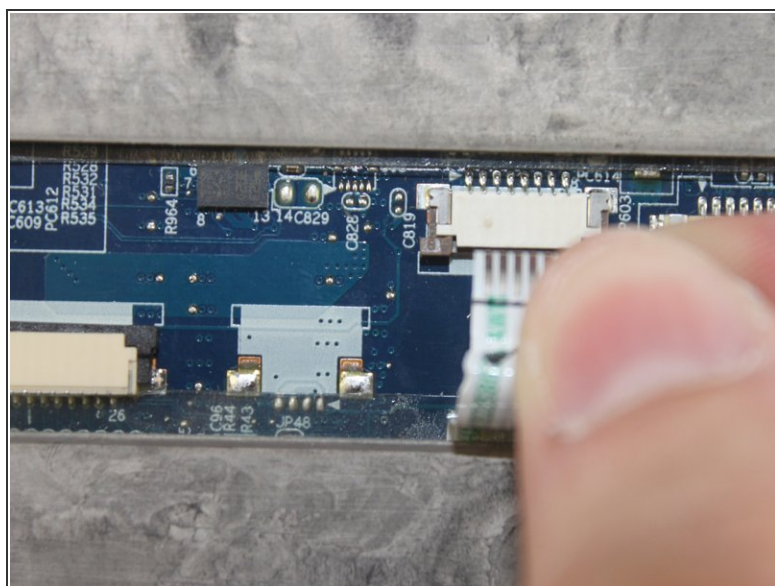
- Remove the seven Phillips PM2.0×4.0 screws from the base of the screen with a Phillips #00 screwdriver.
- Lift up the screen to remove it from the rest of the laptop.

Step 19



- Press in on the silver cover in order to eject the dust cover.
- Pull the plastic dust cover to completely remove it from the laptop.

Step 20



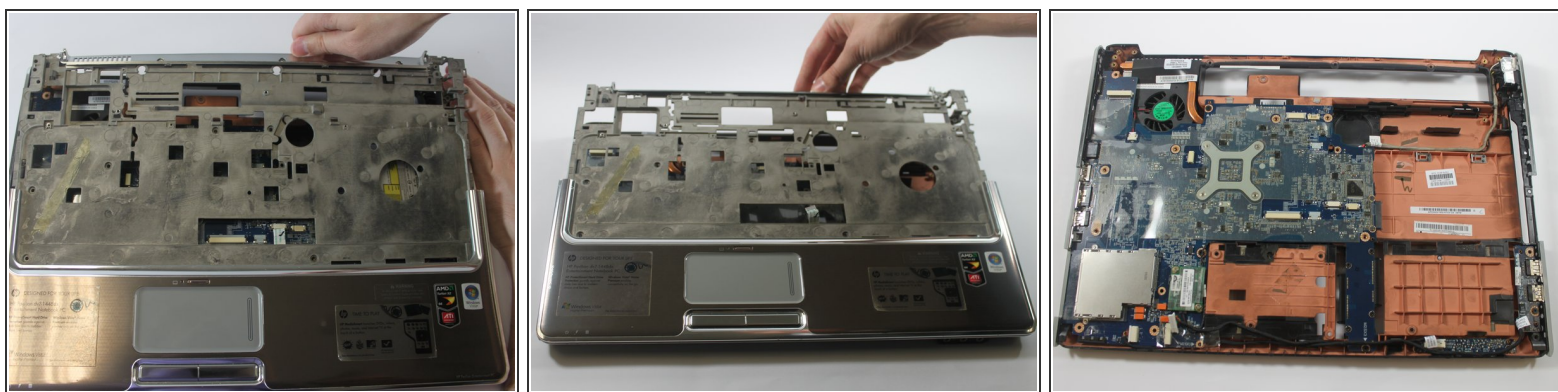
- Disconnect the white ribbon cable.

Step 21



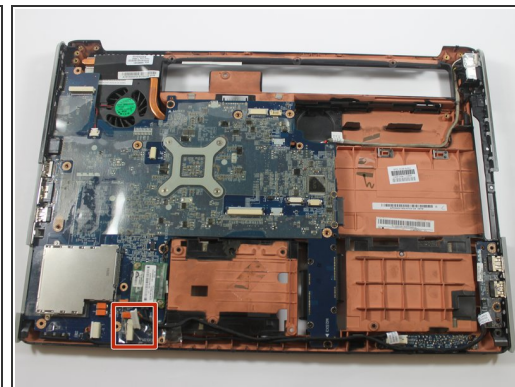
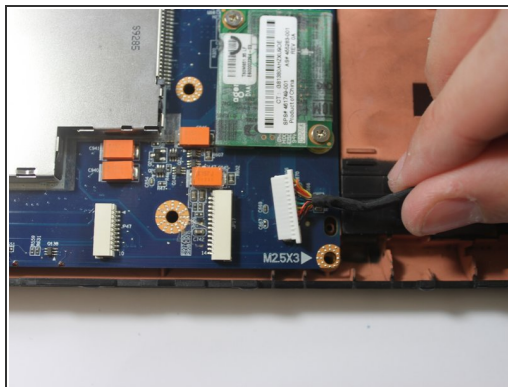
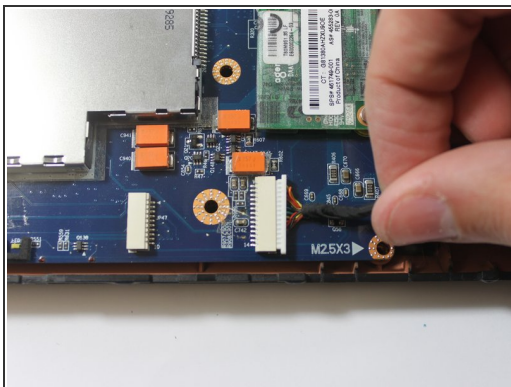
- Remove the six PM2.5X5.0 screws with a Phillips #00 screwdriver.
- Next, remove the six PM2.5X2.0 screws with a Phillips #00 screwdriver.

Step 22



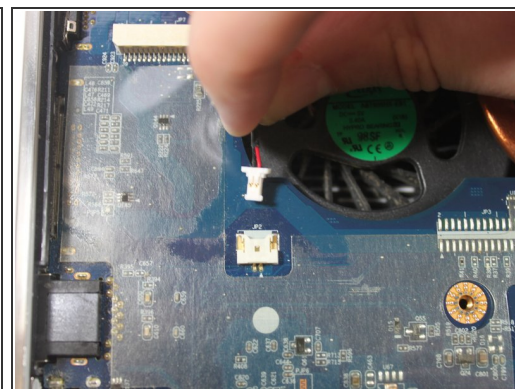
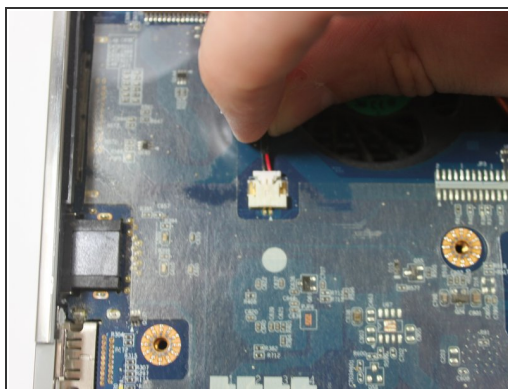
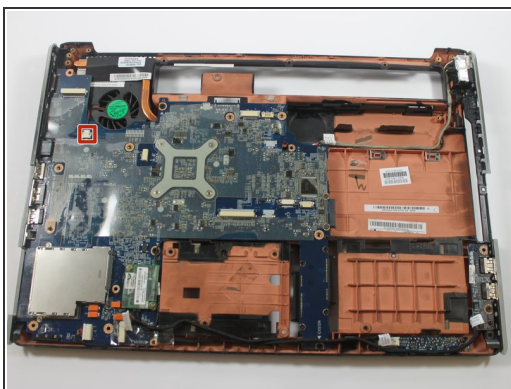
- Pry up on the metal casing to fully remove.

Step 23



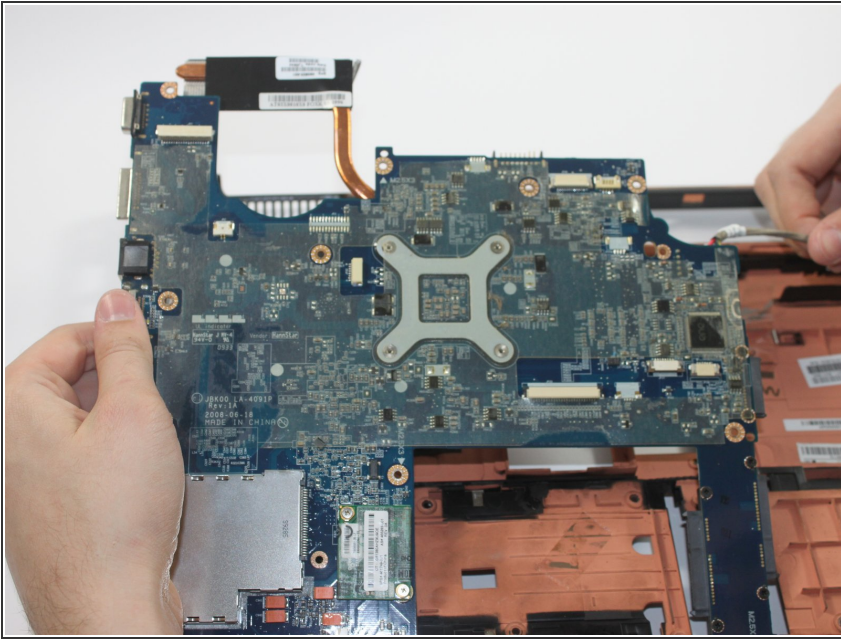
- Disconnect the white cable near the bottom of the laptop.

Step 24



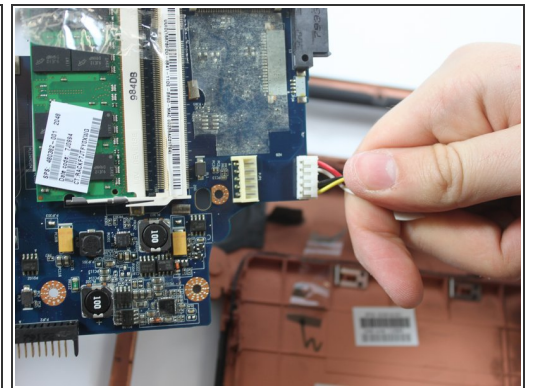
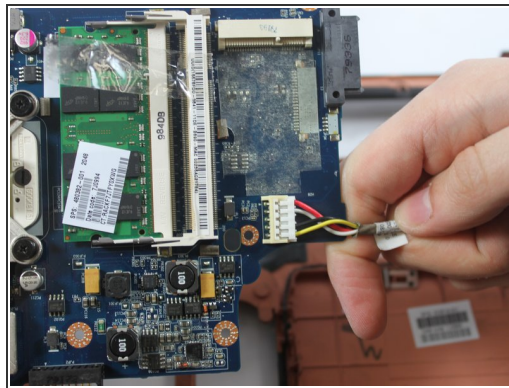
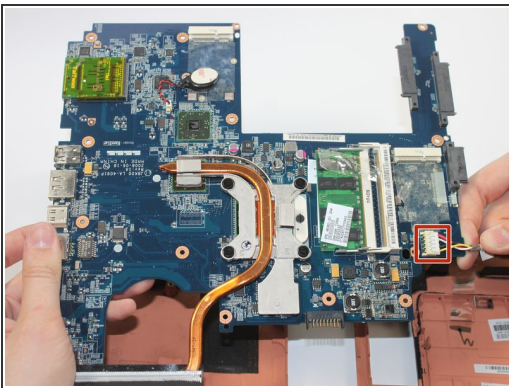
- Disconnect the white fan cable.

Step 25



- Lift the motherboard up and away from the rest of the laptop.
- ⓘ The motherboard is still not fully removed.

Step 26



- Rotate the motherboard so that the backside is now facing upward. It should still be connected by a single cable.
- Unplug the white power connector cable. The motherboard is now fully removed.

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