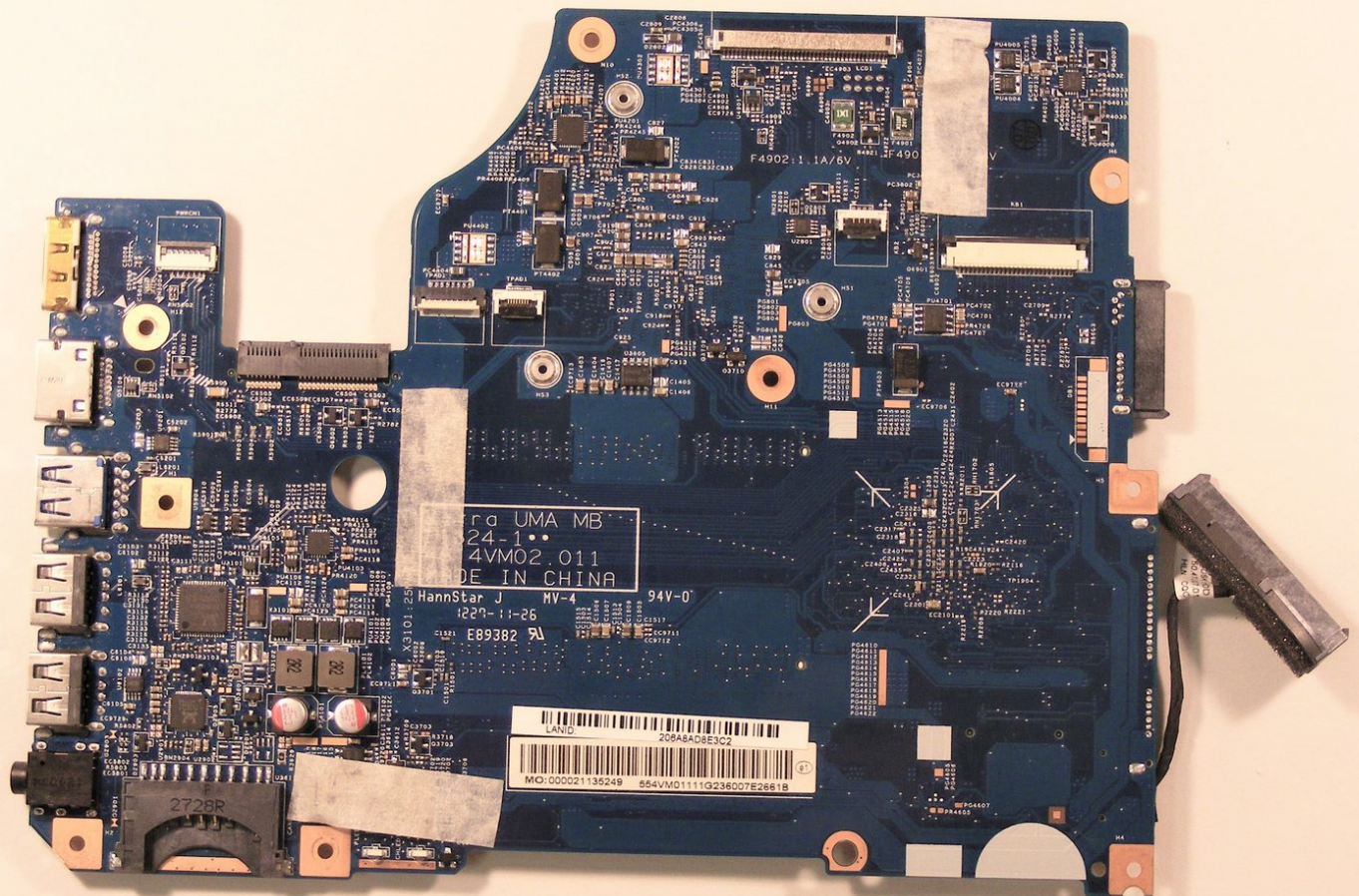




Acer Aspire V5-571-6891 Motherboard Replacement

The motherboard is where the main processor and key components of the laptop are located and if damaged some how may need to be replaced.

Written By: Josh Focht



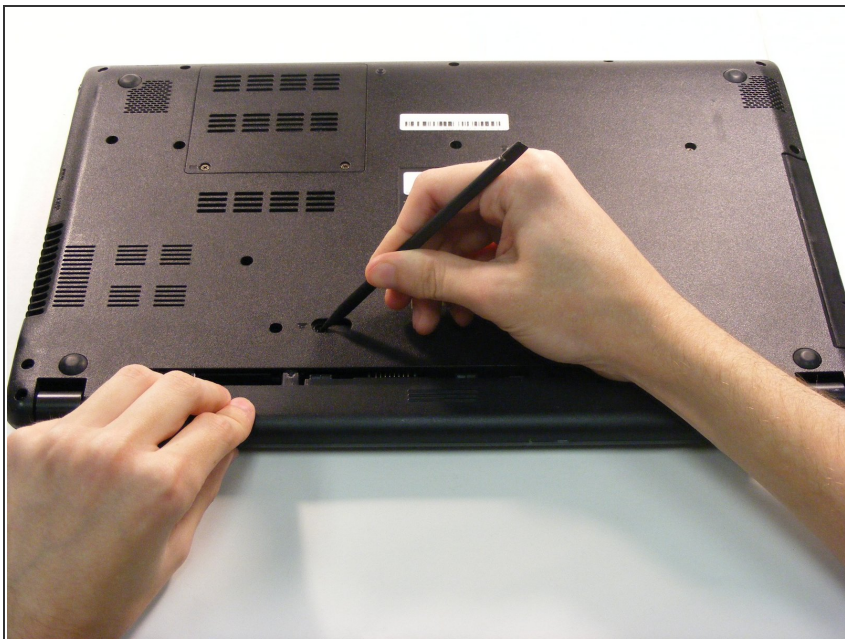
INTRODUCTION

This guide will show how to replace the motherboard if it becomes damaged or non-functional.

TOOLS:

- [Spudger](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Phillips #1 Screwdriver](#) (1)
-

Step 1 — Battery



- Use the pointed end of the spudger to slide the battery lock until the battery pops loose.

Step 2



- Slide the battery out of the battery slot.

Step 3 — RAM



- Unscrew the two RAM 6mm cover screws.
- Use a PH1 screw bit.

Step 4



- Pop the RAM cover off.
- Use the plastic opening tool.

Step 5



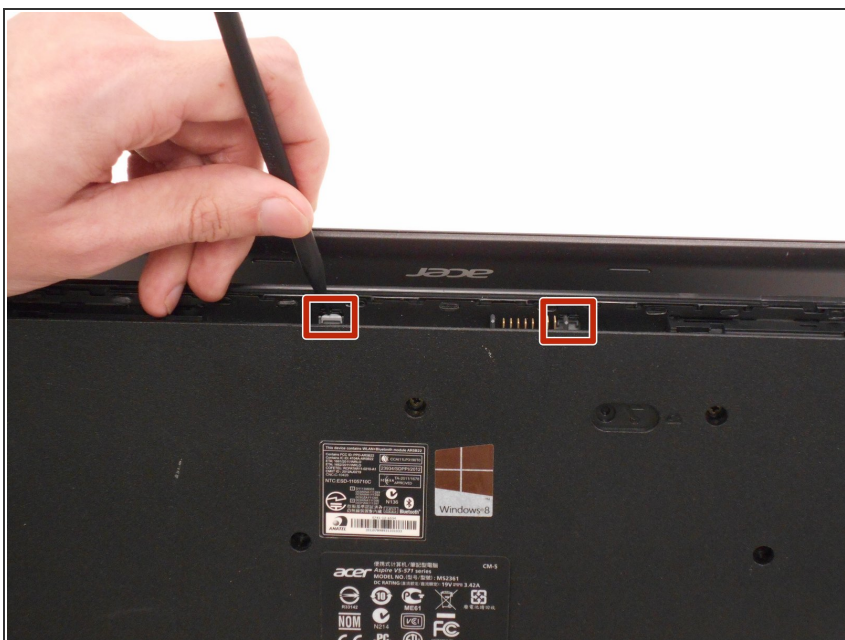
- Use either the spudger or your fingers to pinch the clips away from the RAM chip on either side of each chip.
 - The chip should pop up.
- ⚠ The clips break easily.
- Slide the RAM memory chips out of the slots.

Step 6 — Keyboard



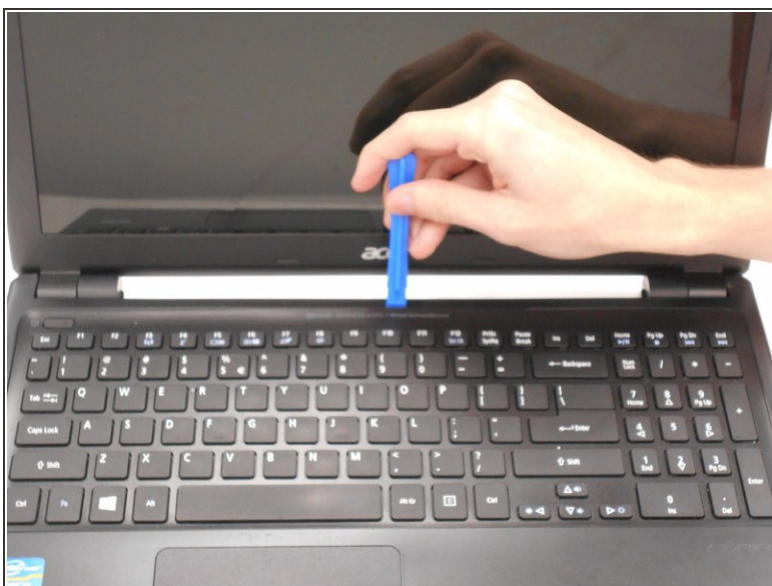
- Remove the two 6mm PH1 screws from the bottom of the laptop.

Step 7



- Use the spudger, push the two tabs, located in the battery slot, through their slots to release the keyboard.
- Do this with the computer slightly open for ease.

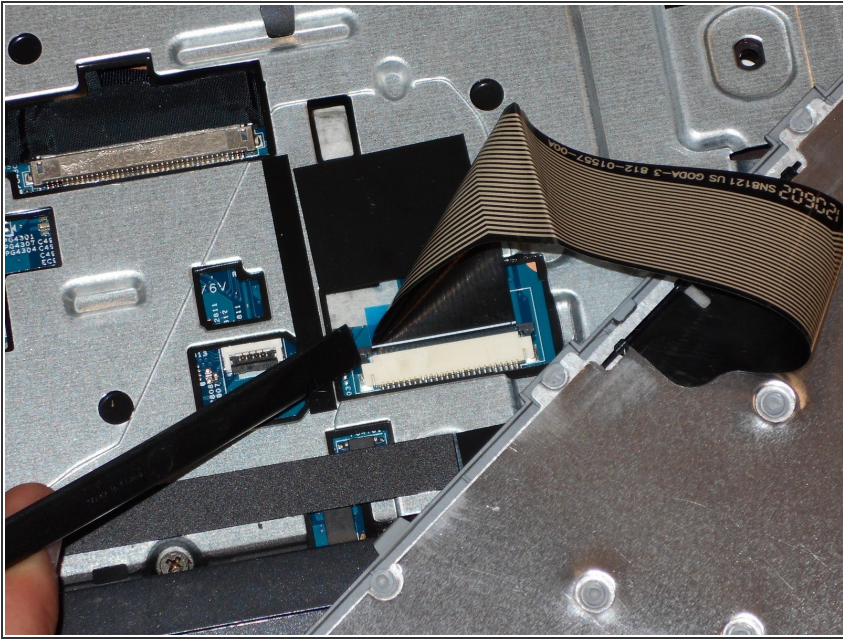
Step 8



- Open the laptop.
- Start top of the keyboard and use the opening tool to pop the remaining tabs around the keyboard loose.
- The keyboard can be flipped onto its face once removed.

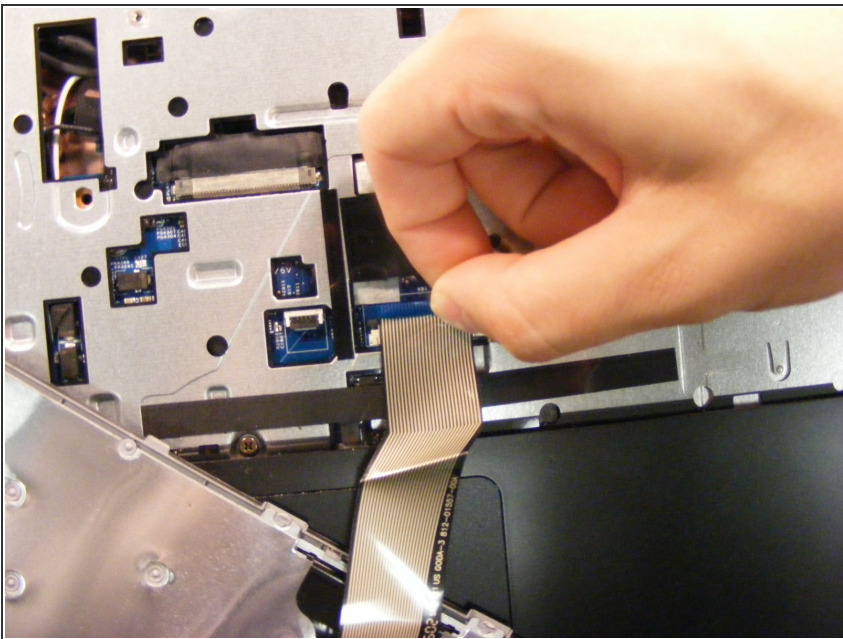
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Step 9



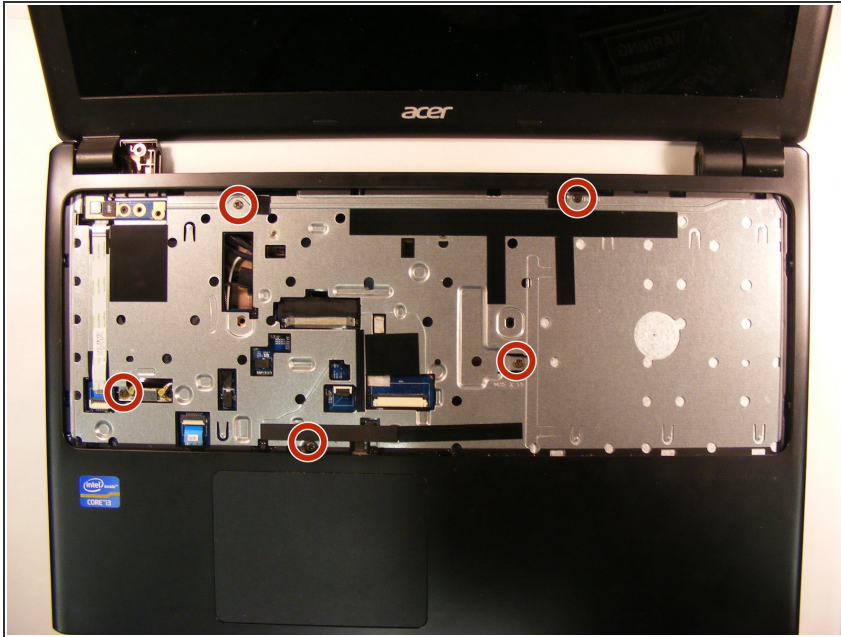
- Use the spudger and slide the grey tabs on either side of the keyboard wires away from the white plastic.

Step 10



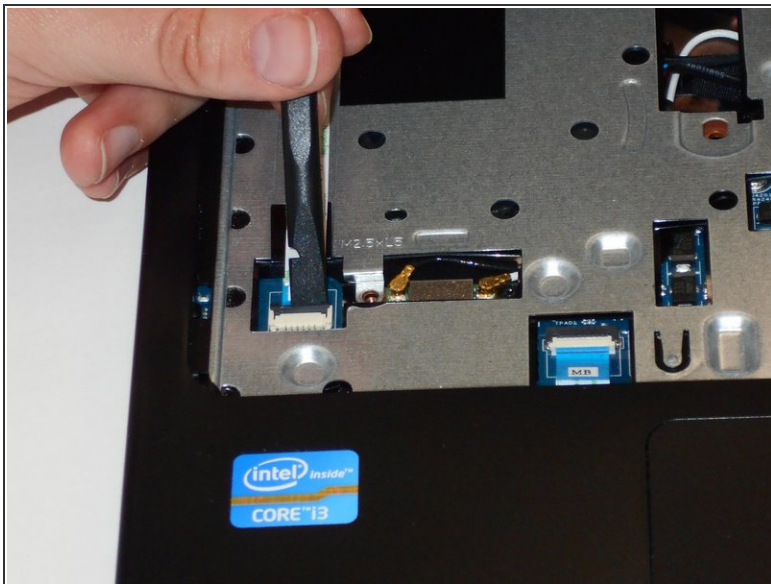
- Disconnect the keyboard by pulling the blue tape on the wire strip.

Step 11 — Hard Disk Drive (HDD)



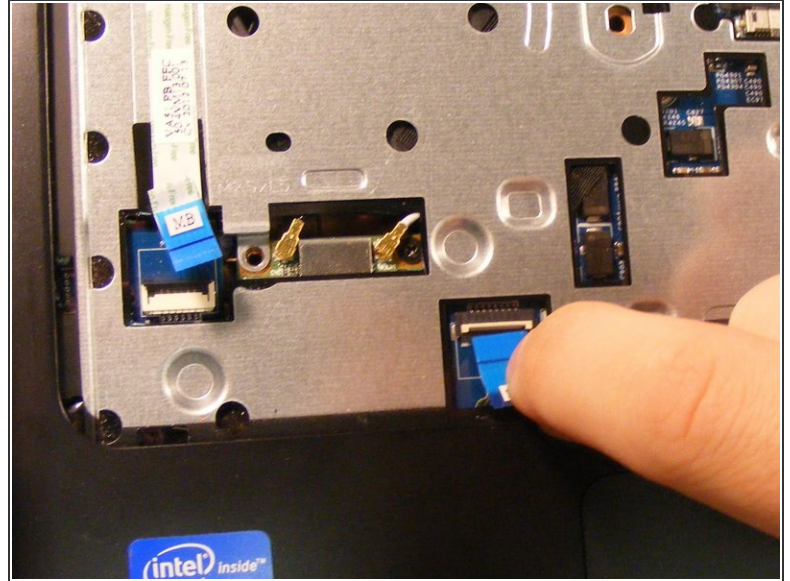
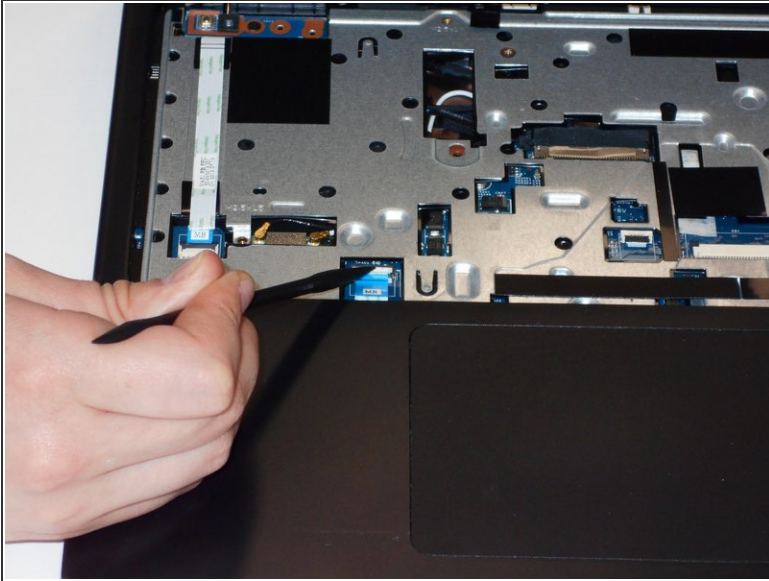
- Remove the five 6mm PH1 screws beneath the keyboard.

Step 12



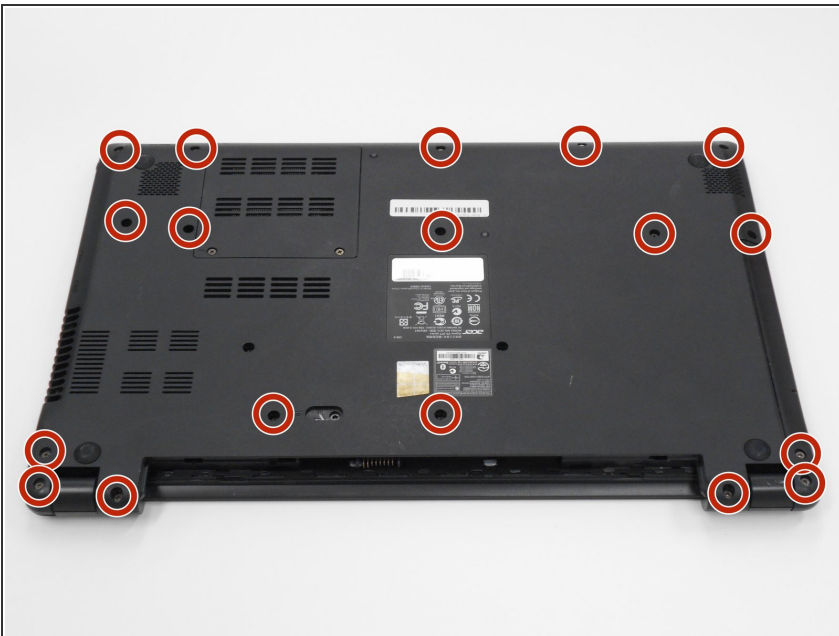
- Use the spudger to pop the gray tab up and away from the far left wire strip.
- Disconnect the wire strip by pulling the blue tab loose.

Step 13



- Use the spudger to pop the white tab up away from the wire strip located at the top left corner of the mouse pad.
- Disconnect the wire strip by pulling the blue tab.

Step 14



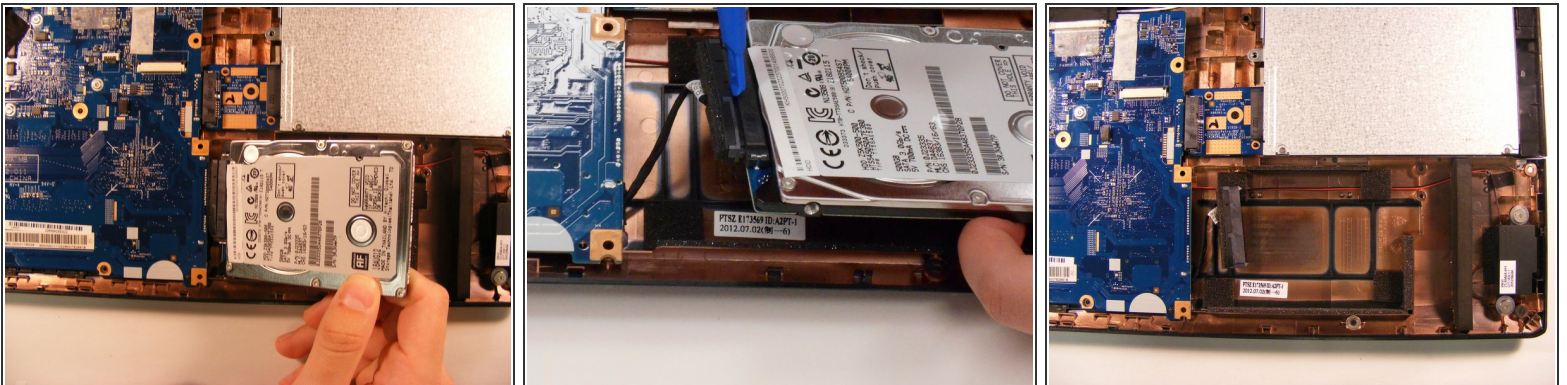
- Close the laptop.
- Remove the remaining 18 6mm PH1 screws from the bottom cover of the laptop.

Step 15



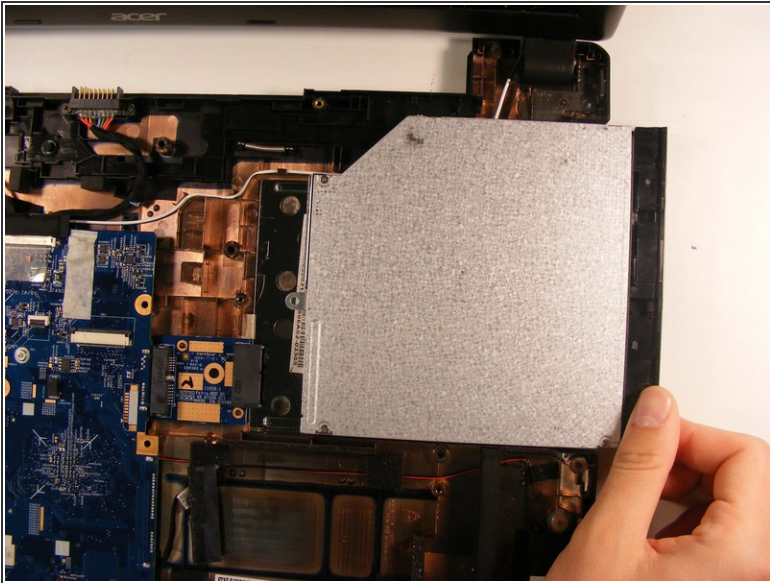
- Use the opening tool to separate the back of the laptop from the inside cover.
- Open the computer and remove the inside cover.

Step 16



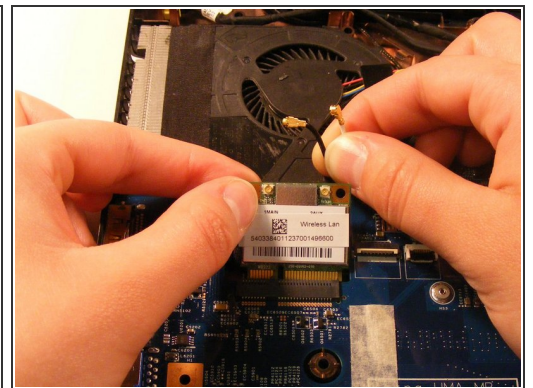
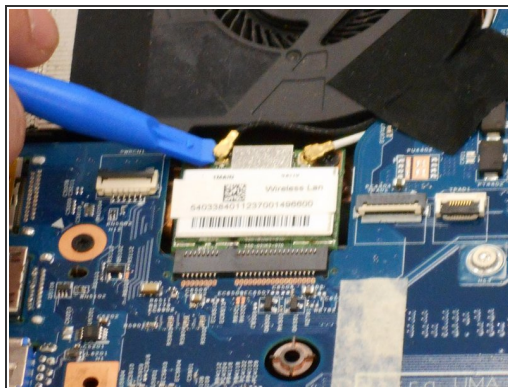
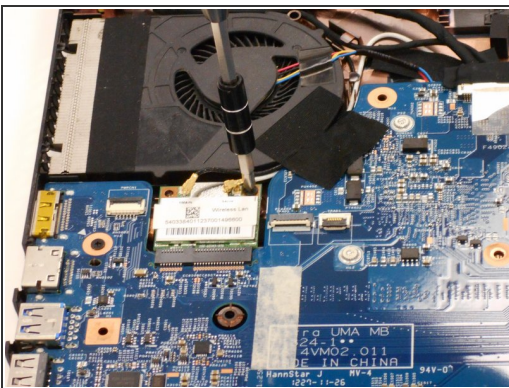
- Lift the HDD out of the base and use the opening tool to disconnect the HDD from the motherboard wire.

Step 17 — CPU Fan



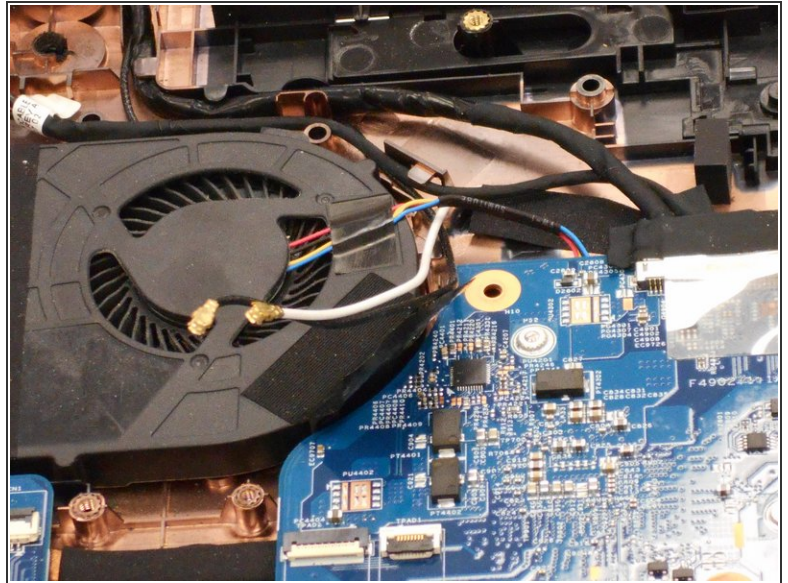
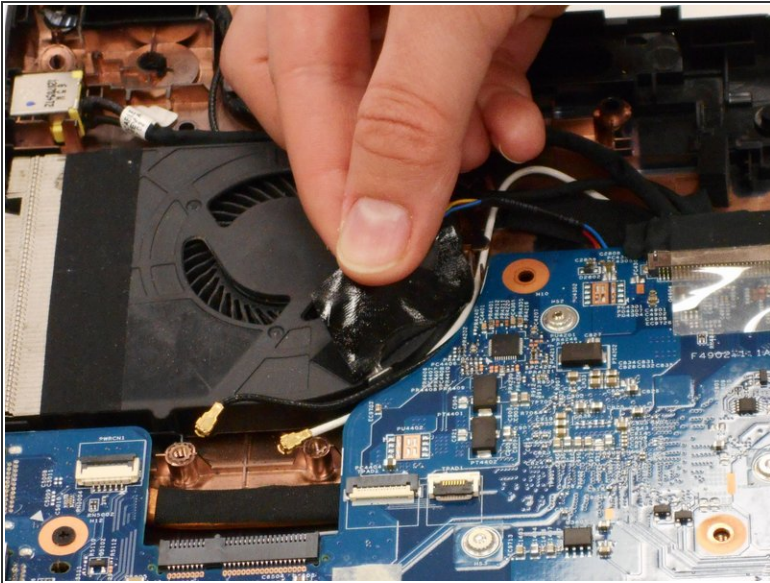
- Slide the optical disc drive out of the slot to disconnect it from the motherboard.
- Unscrew the main 3.5mm PH1 screw from the motherboard.

Step 18



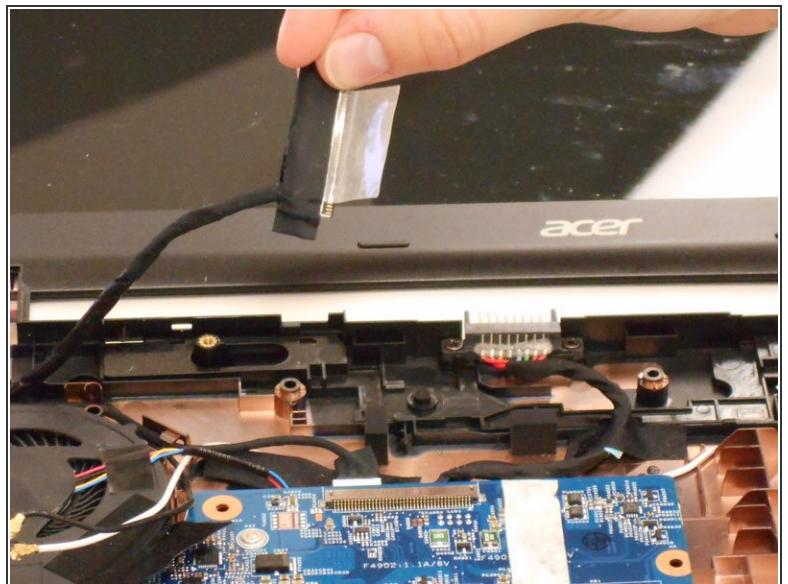
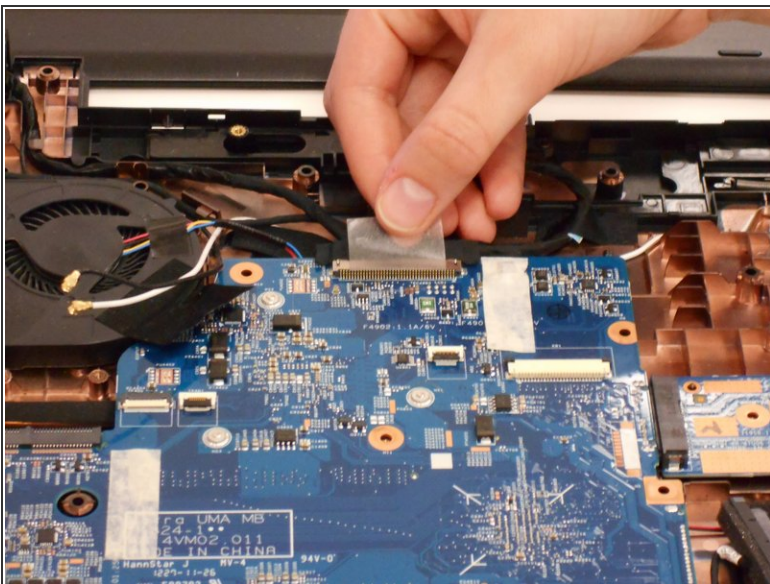
- Unscrew the 3.5mm PH1 screw from the Wireless Lan chip.
- Use the opening tool to pop both wires off of the Wireless Lan chip.
- Pull the Wireless Lan Chip to remove it from the motherboard.

Step 19



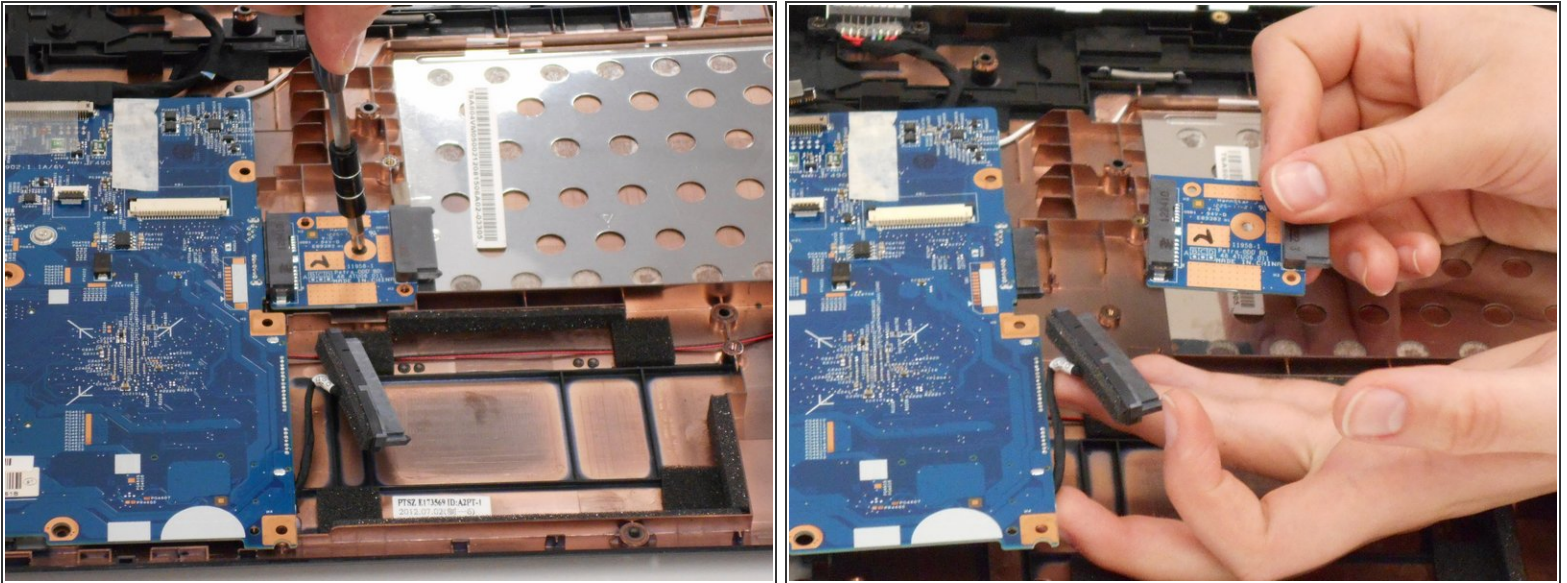
- Pull the tape covering the wires for the Wireless Lan chip up.
- Pull the black and white wires loose.

Step 20



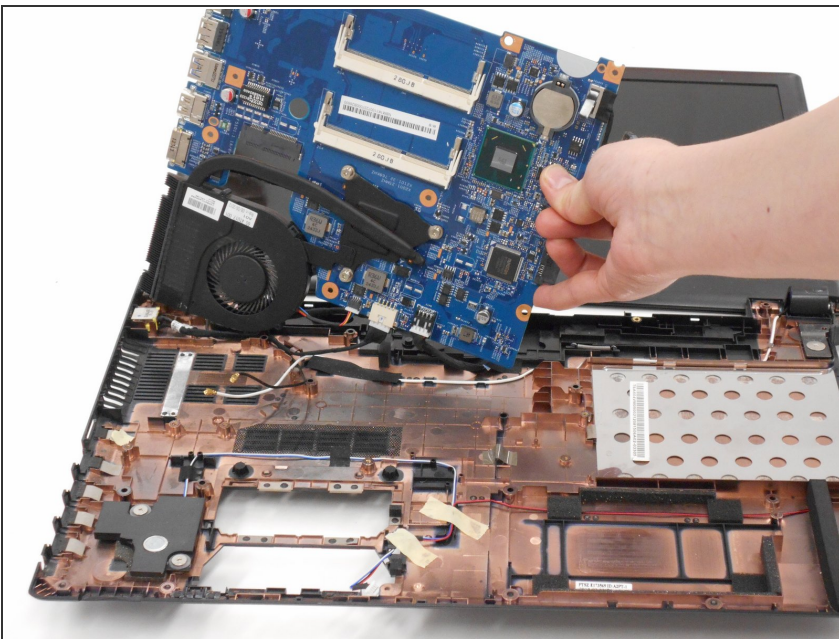
- Pull up the tape securing the optical wires to the motherboard.
- Disconnect the wire plug-in from the motherboard.

Step 21



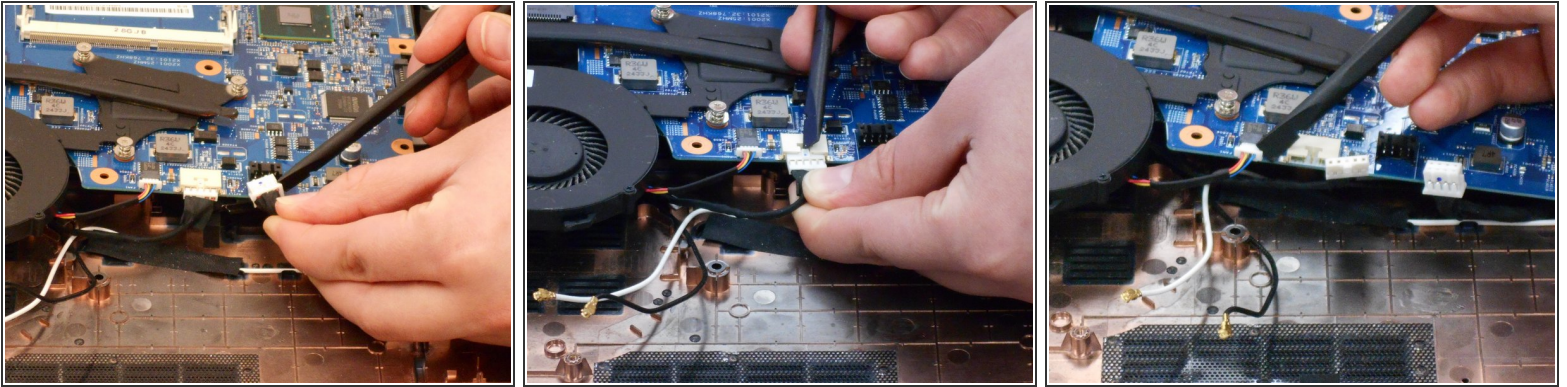
- Unscrew the 3.5mm PH1 screw securing the optical disk drive to motherboard connector.
- Pull the connector to disconnect it from the motherboard.

Step 22



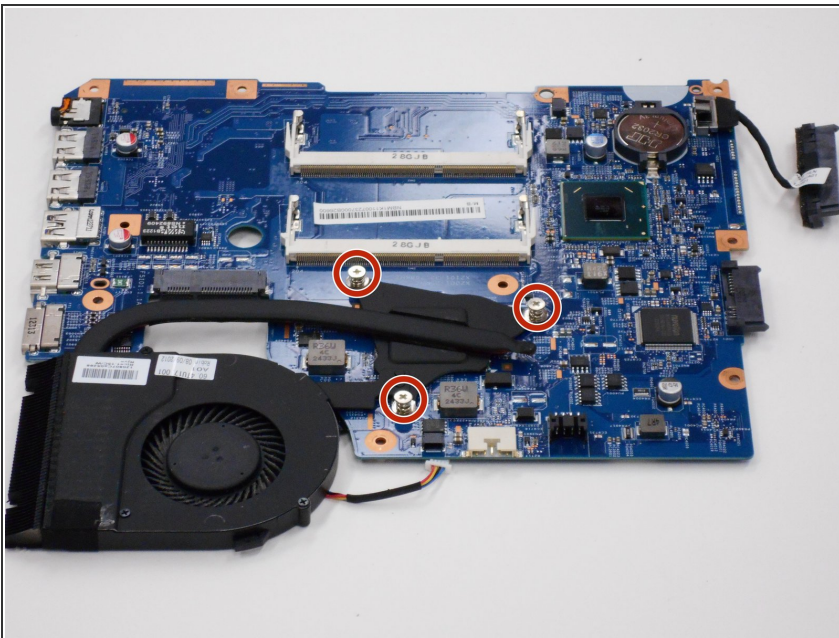
- Flip the motherboard up towards the screen to access the underside.
- ⚠ There are still wires connected to the motherboard.

Step 23



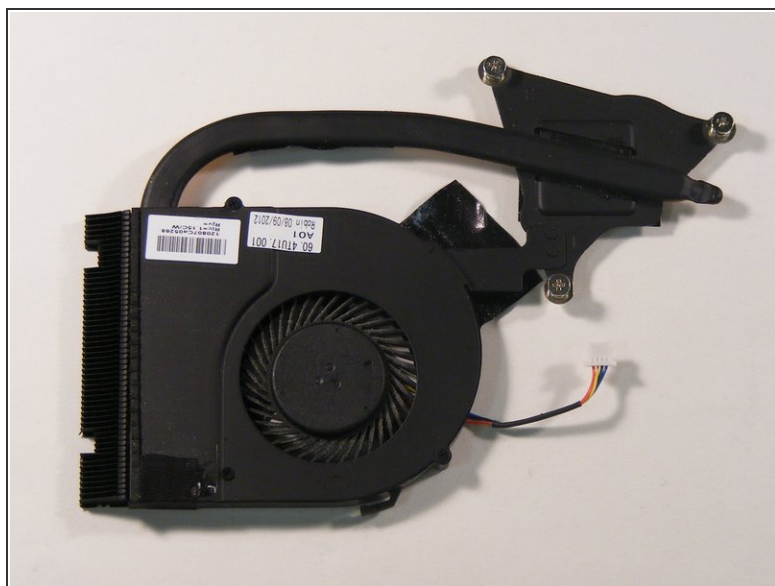
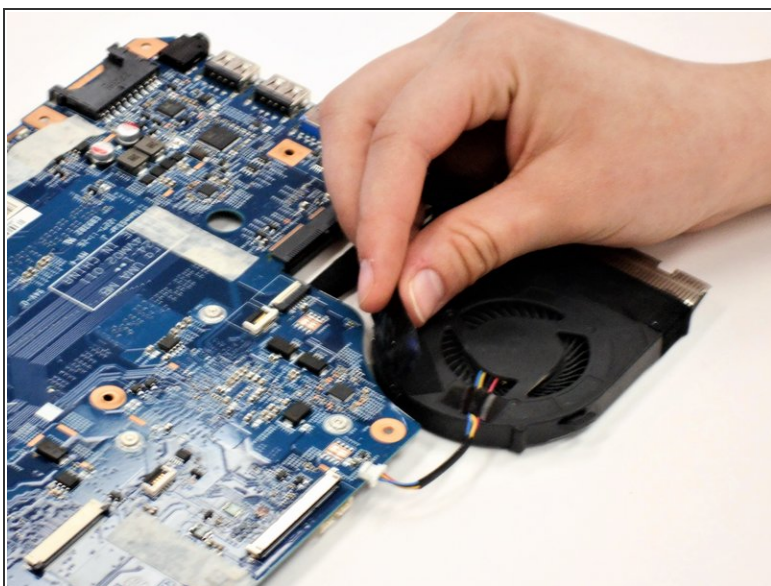
- Use the spudger to disconnect the remaining three wires from the motherboard.
- Once the wires are disconnected, the motherboard is completely disconnected from the laptop frame.

Step 24



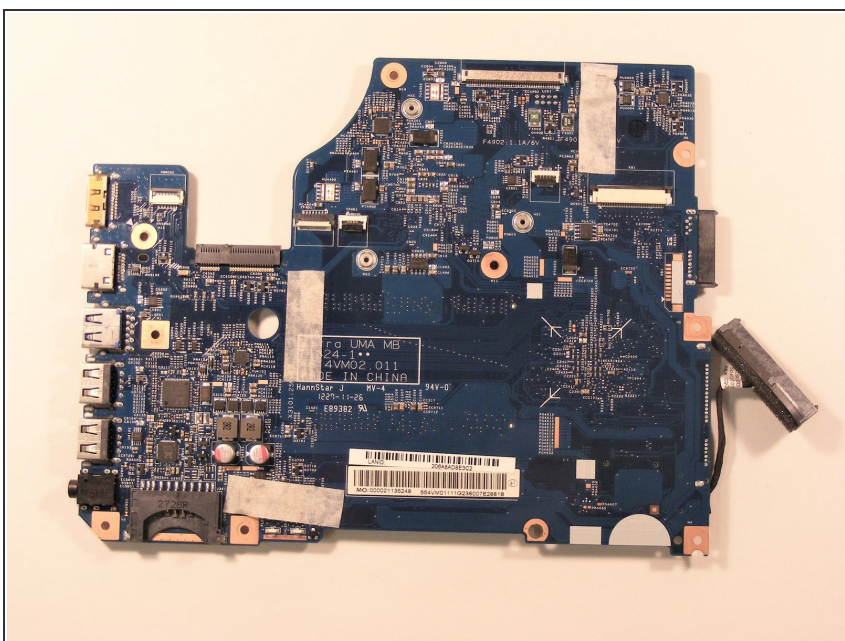
- Unscrew the three PH1 screws connecting the CPU fan to the motherboard.
- ⓘ The three screws are permanently attached to the CPU fan assembly.

Step 25



- On the side opposite the CPU fan screws, pull loose the tape securing the fan assembly to the motherboard.
 - ☑ This is the same tape that covered the Wireless Lan chip black and white wires.
- The CPU fan can now be separated from the motherboard.

Step 26 — Motherboard



- The motherboard can be replaced once disconnected from the CPU cooling fan.

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