



Dell Inspiron 13-7347 Motherboard Replacement

Replacement of the Motherboard for the Dell Inspiron 17-7347 laptop.

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INTRODUCTION

This guide is to help with the removal and replacement of the Motherboard for the Dell Inspiron 17-7347 laptop. The motherboard is arguably the most important component of the laptop. It controls a majority of the interfaces between different components inside of the laptop.

TOOLS:

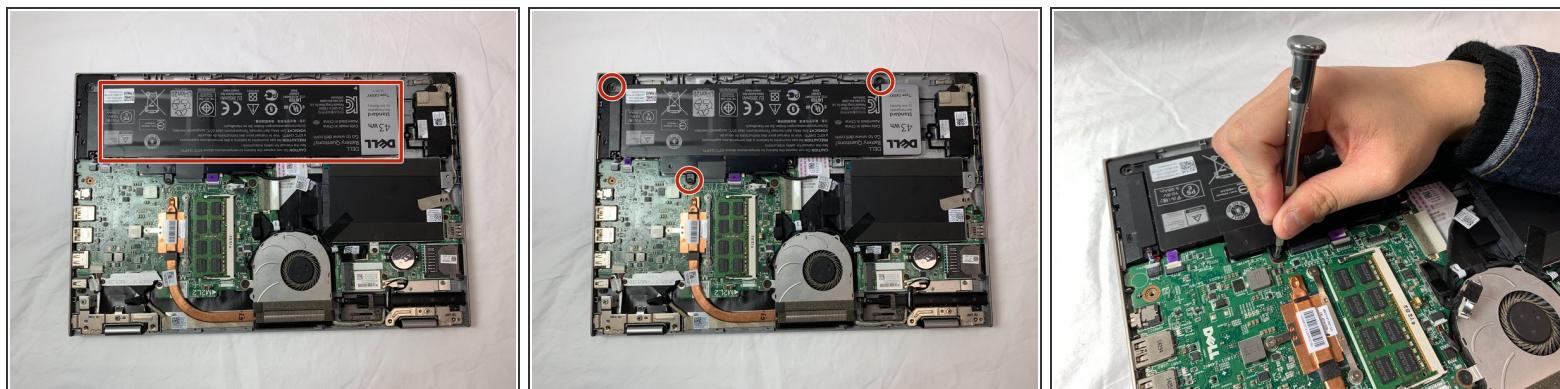
- Mako Driver Kit - 64 Precision Bits (1)
- Suction Handle (1)

Step 1 — Battery



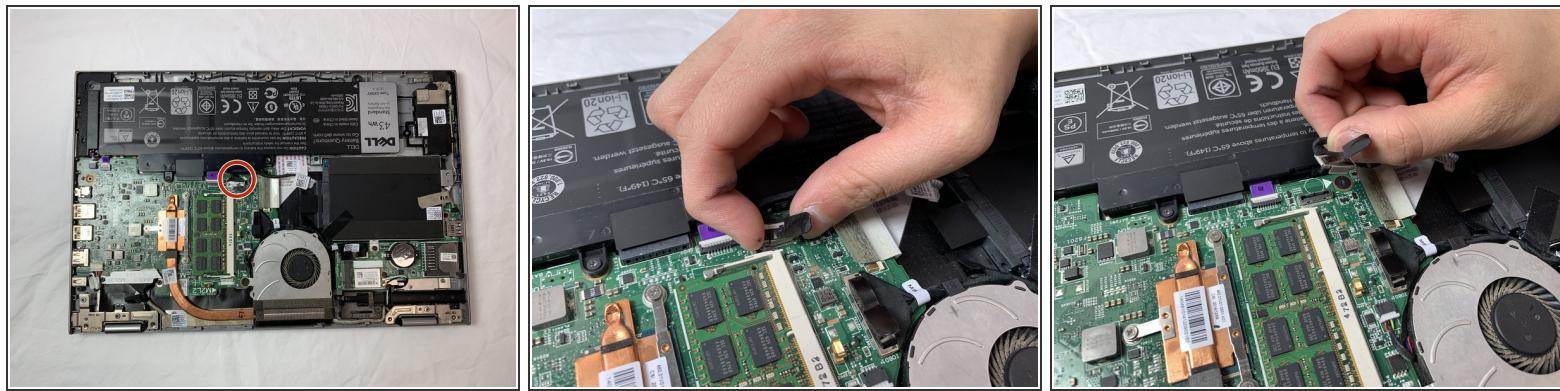
- Flip the device over, so that the back is facing up.
- Remove the ten, 7 mm, Phillips #1 screws on the back of your Dell Inspiron 13-7347.
- Use the suction cup to lift off the back case.

Step 2



- Remove the three 4 mm JIS #00 screws that secure the battery to the device.

Step 3



- Unplug the flat connector that is connected to the battery.

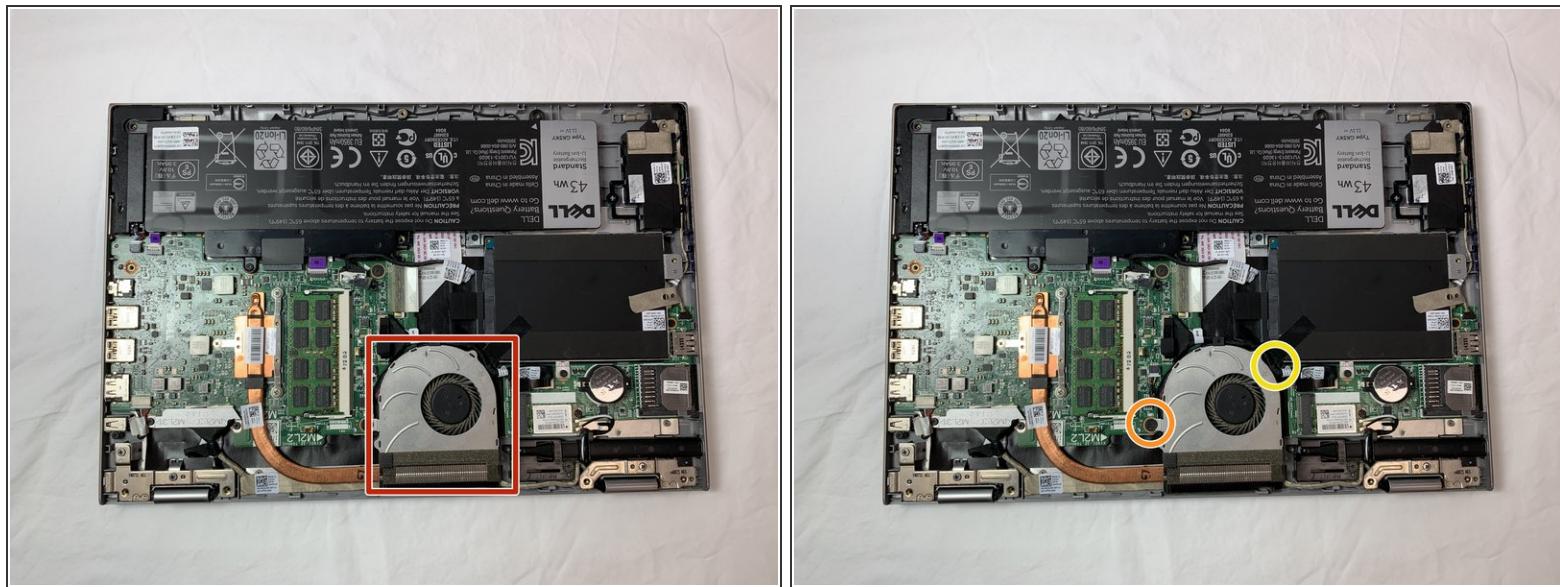
Step 4



- Lift the battery steadily from the device.

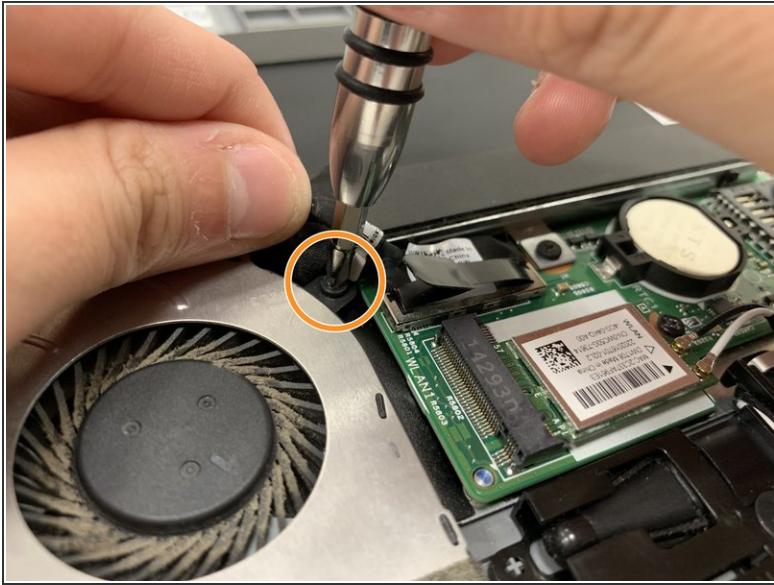
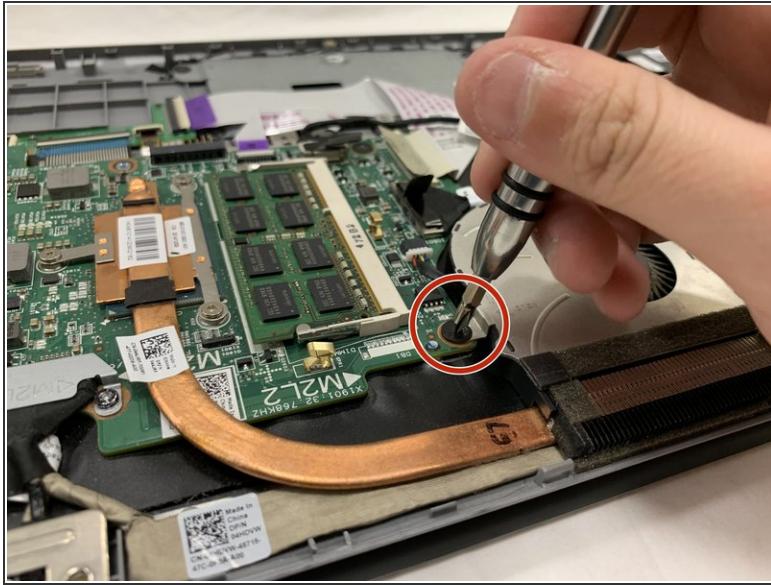
- ⓘ Tilt the battery upward while removing.

Step 5 — Fan



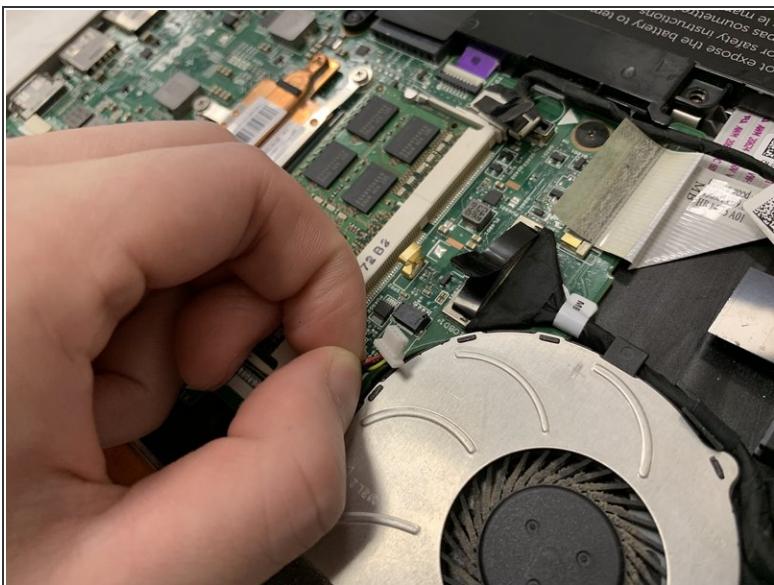
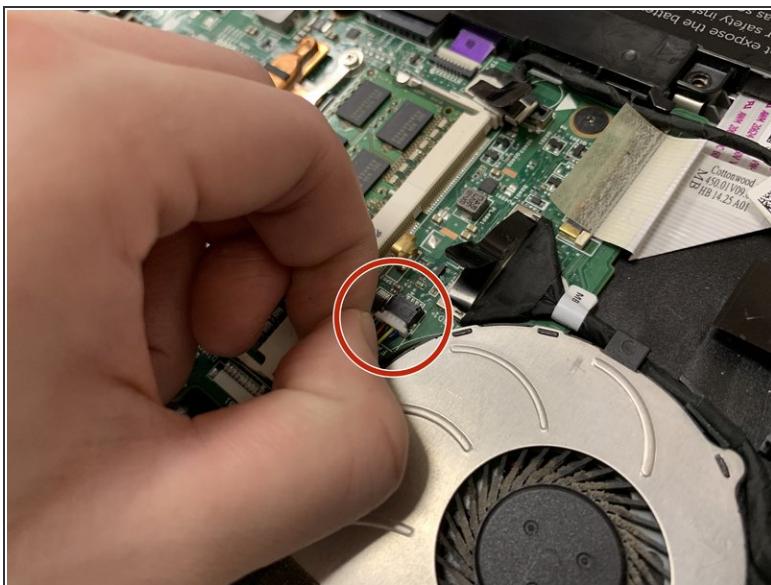
- You should be able to identify the fan.
- This is the 2.5 mm JIS #00 screw.
- This is the 4 mm JIS #00 screw.

Step 6



- Remove the 2.5 mm JIS #00 screw.
- Remove the 4 mm JIS #00 screw.

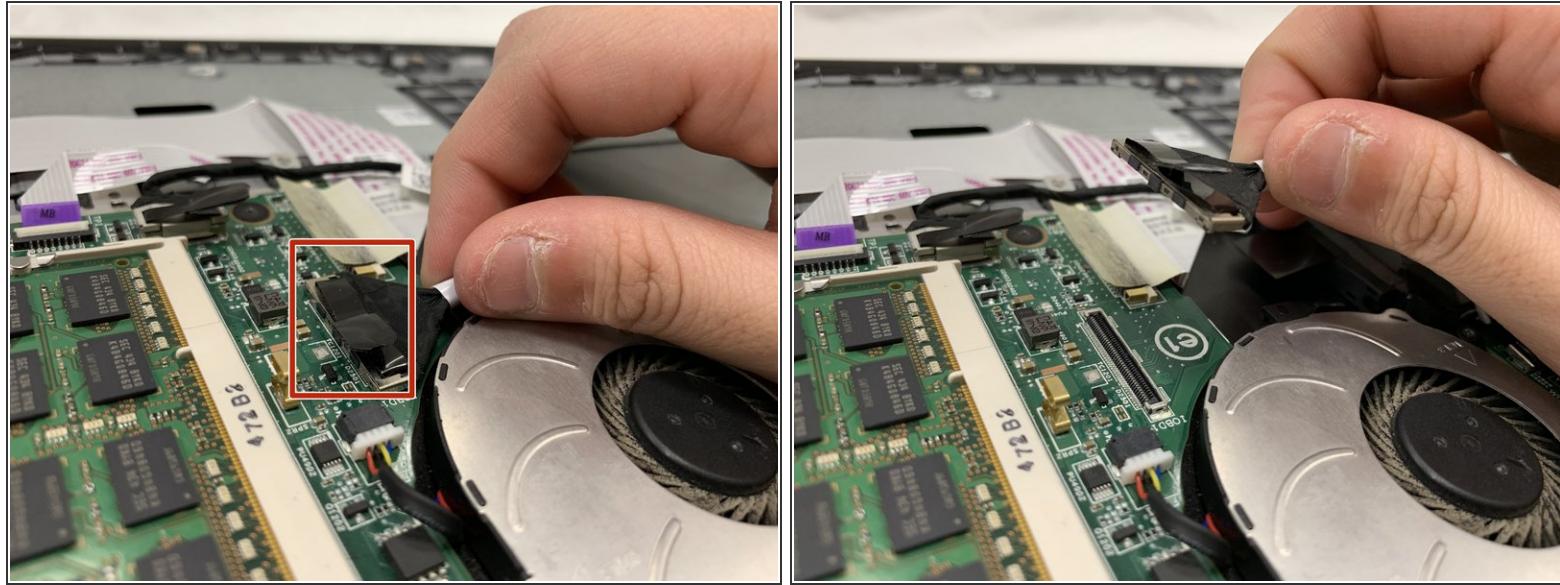
Step 7



- Detach the cable that connects the fan and the motherboard.

⚠ The cable is extremely fragile.

Step 8



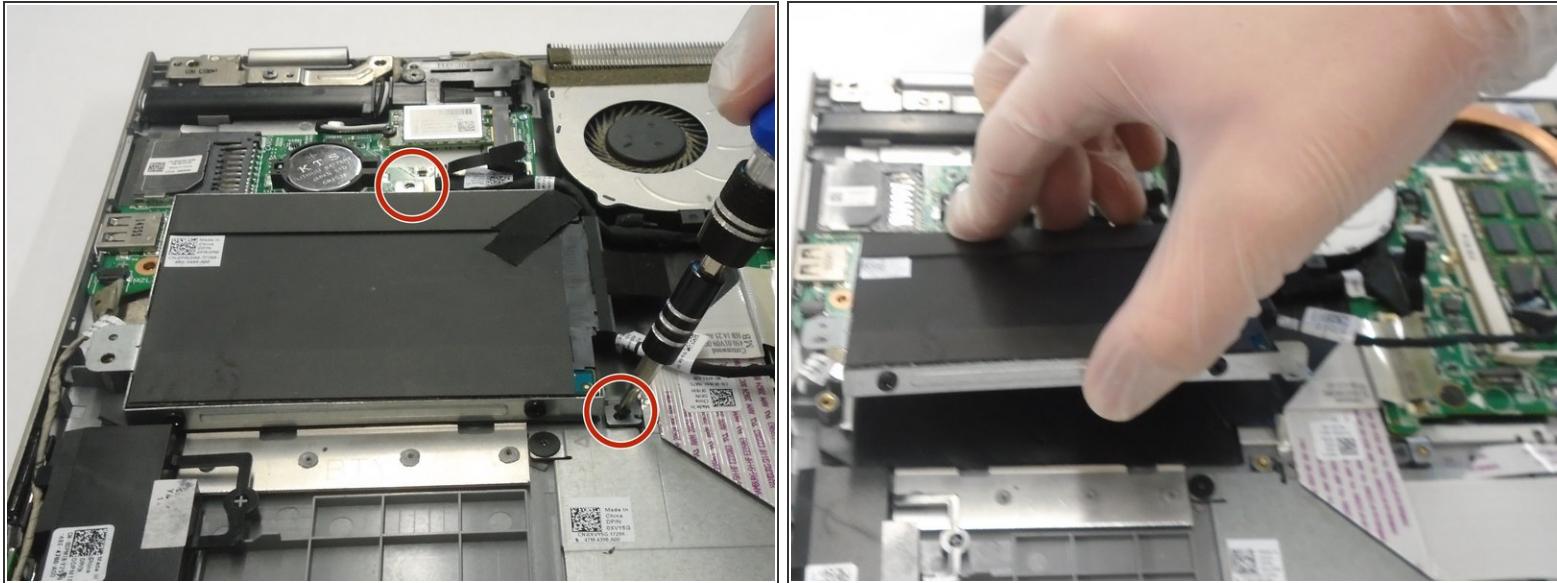
- Detach the cord that connects the fan and the motherboard.

Step 9



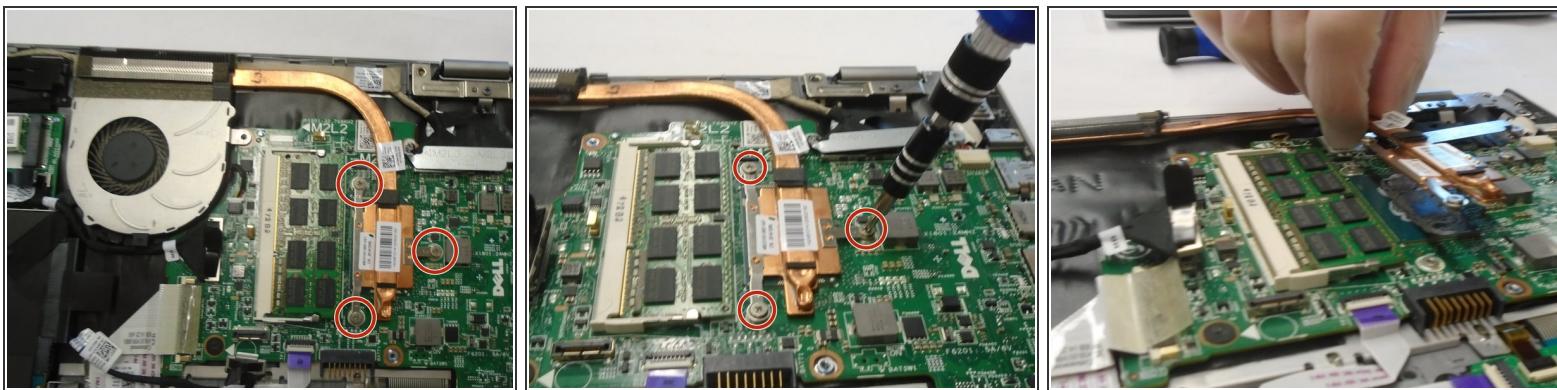
- Remove the fan.

Step 10 — Hard Drive



- Using a Phillips #0 screwdriver, remove the two 3.0 mm hard drive screws.
- Remove the Hard Drive.

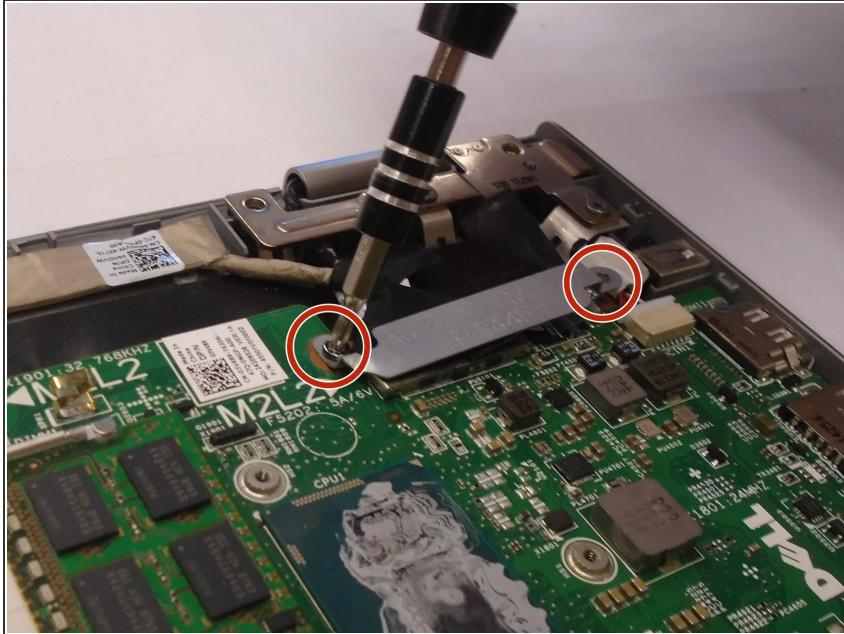
Step 11 — Display Assembly



- Using a Phillips #0 screwdriver, remove the three 3.0 mm heat sink screws.
- Remove the Heat Sink.

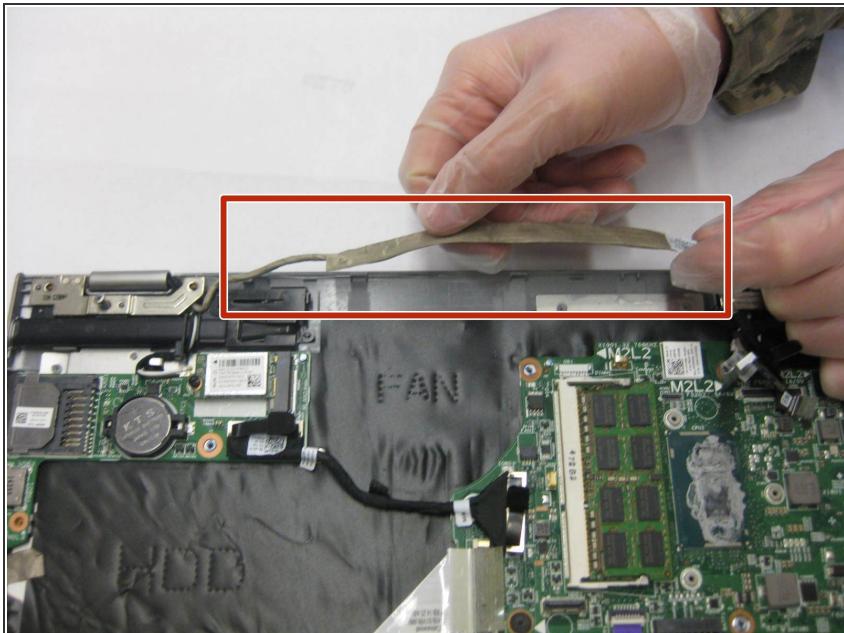
 When reinstalling the heat sink, be sure to clean both contact surfaces with isopropyl alcohol and [reapply thermal paste](#).

Step 12



- Using a Phillips #0 screwdriver, remove the two 5.0 mm screws on the metal bracket.
- Remove the metal bracket.

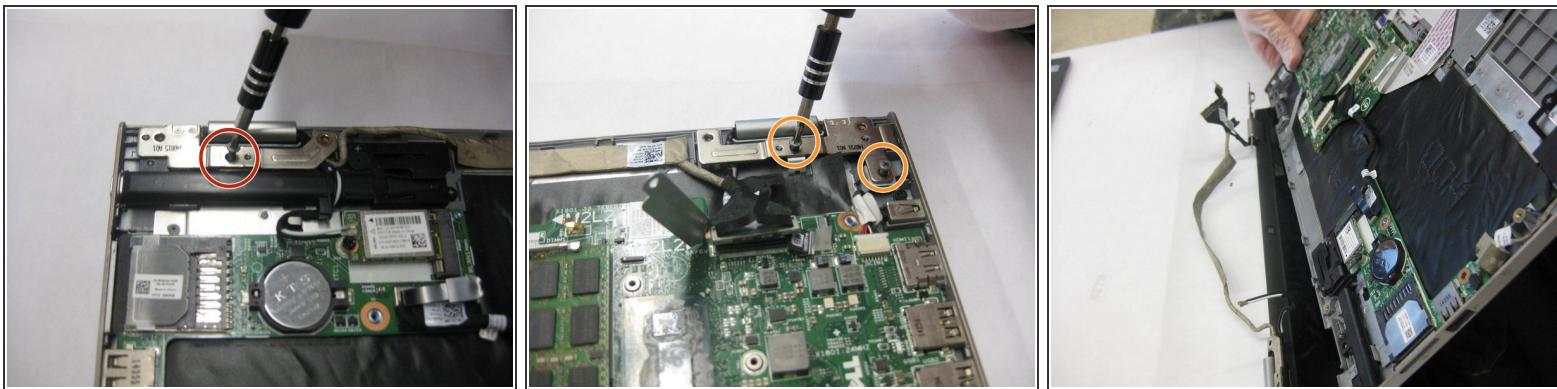
Step 13



- Loosen and reposition the display cable.

(i) The display cable will not be removed. Do not attempt to remove the display cable.

Step 14



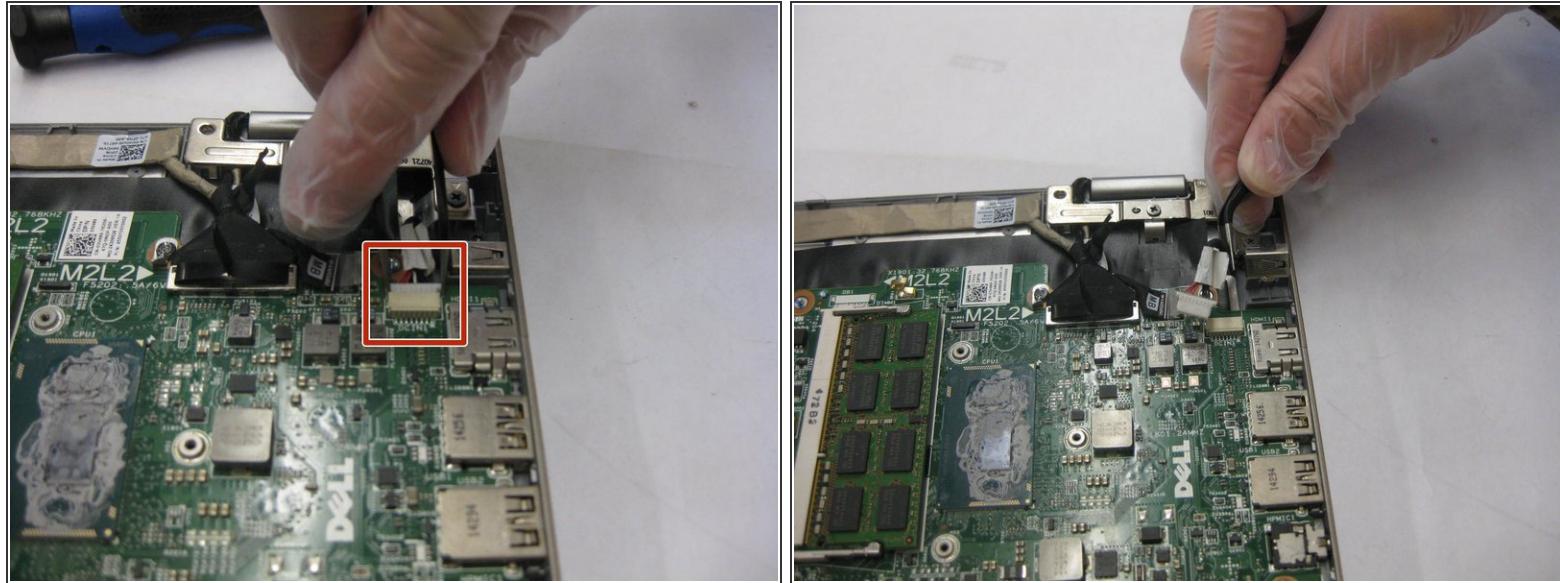
- Using a Phillips #0 screwdriver, remove the 5.0mm screw on the left display hinge bracket.
- Using a Phillips #0 screwdriver, remove the two 5.0mm screws on the right display hinge bracket.
- Lift and remove the display assembly.

Step 15 — Motherboard



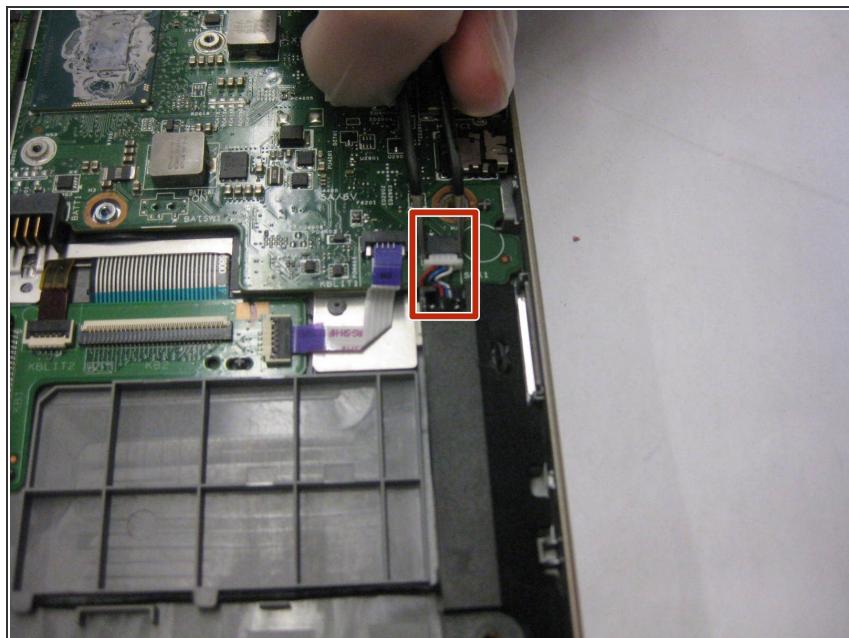
- Using a Phillips #0 screwdriver, remove the 5.0 mm DC jack screw.
- Unplug and remove the DC jack.

Step 16



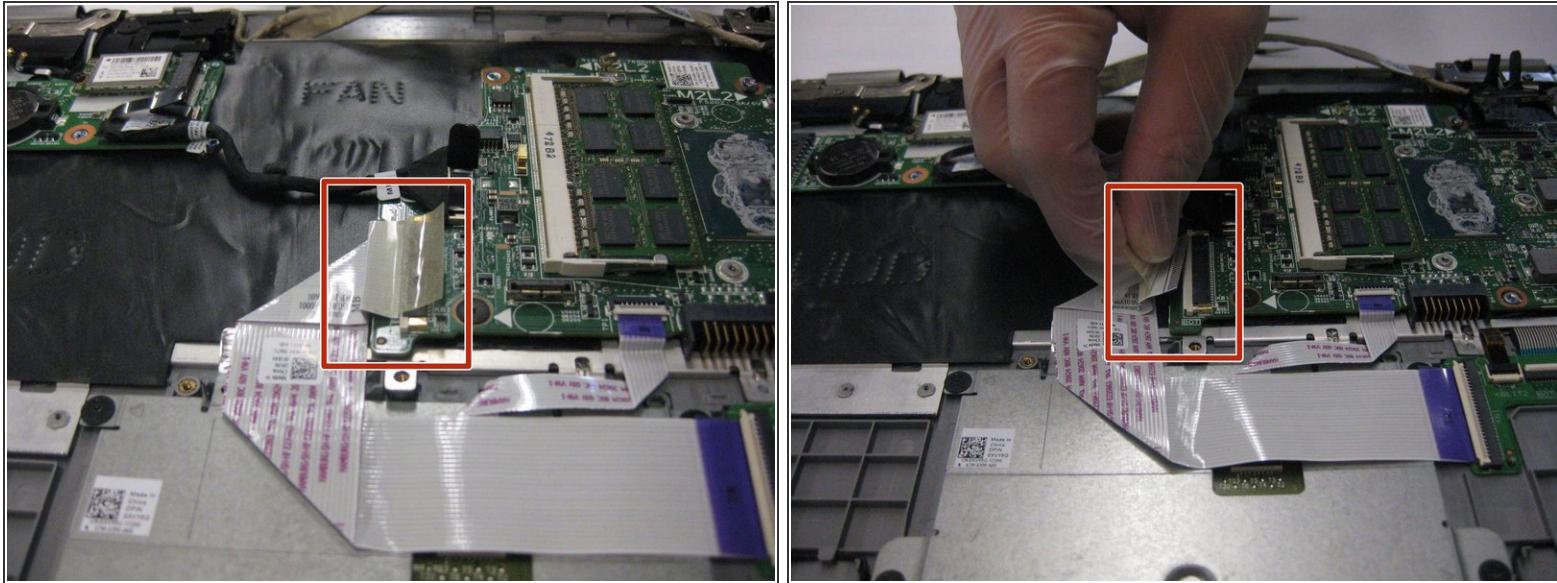
- Using your fingers or a pair of tweezers, unplug and loosen the display cable by pulling it straight out of its connector.

Step 17



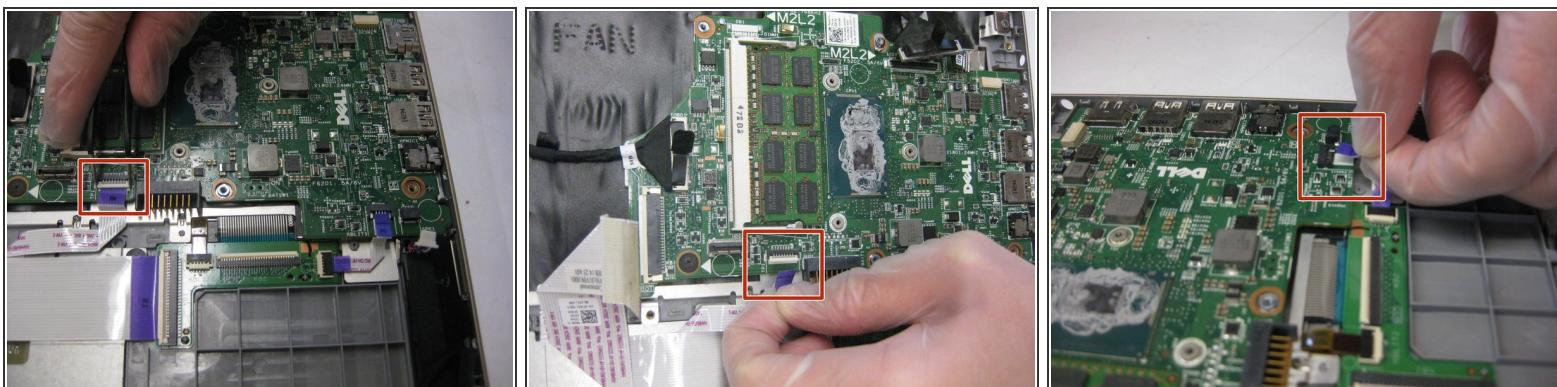
- Using your fingers or a pair of tweezers, unplug the speaker cable by pulling it straight out of its connector.

Step 18



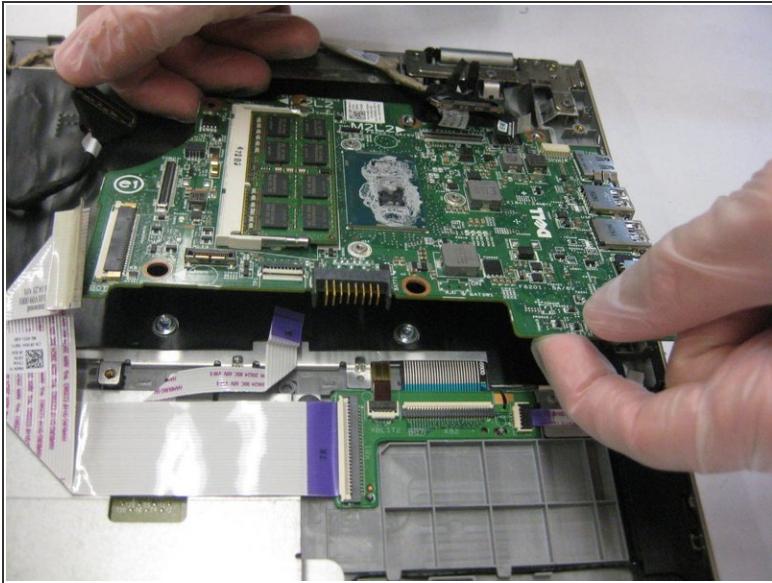
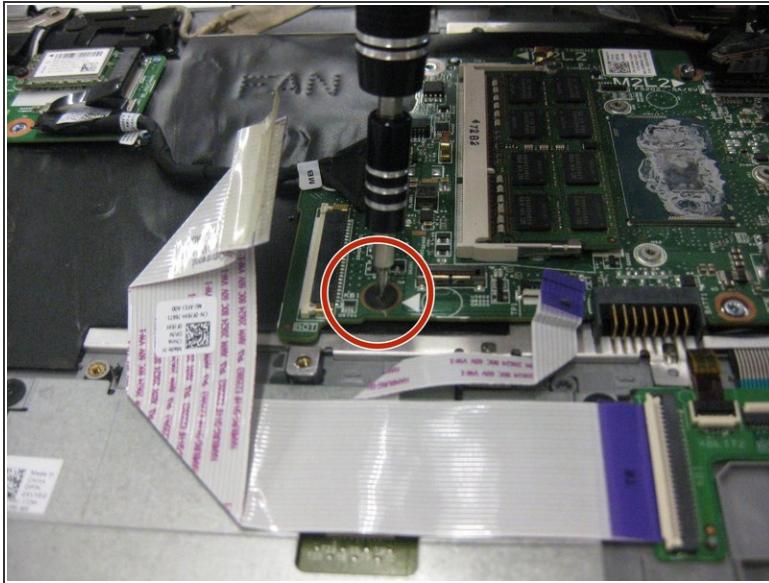
- Unplug and remove keyboard cable.

Step 19



- Using your fingers or a pair of tweezers, unplug the three motherboard cables by pulling them straight out of their connectors.

Step 20



- Using a Phillips #0 screwdriver, remove one 2.5mm motherboard screw.
- Remove the motherboard.

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