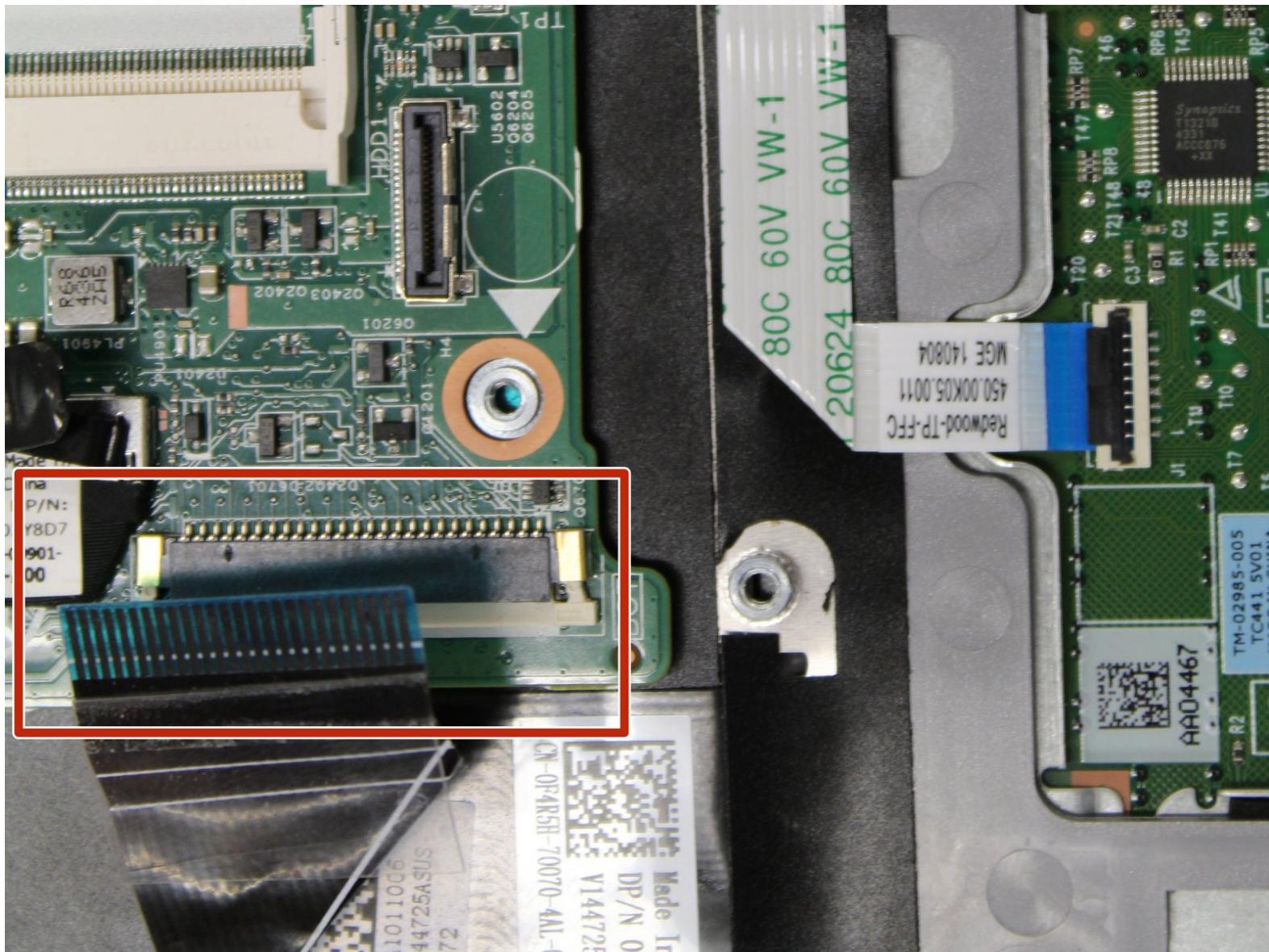




Dell Inspiron 3148 Motherboard Replacement

How to replace your Motherboard

Written By: David Campbell



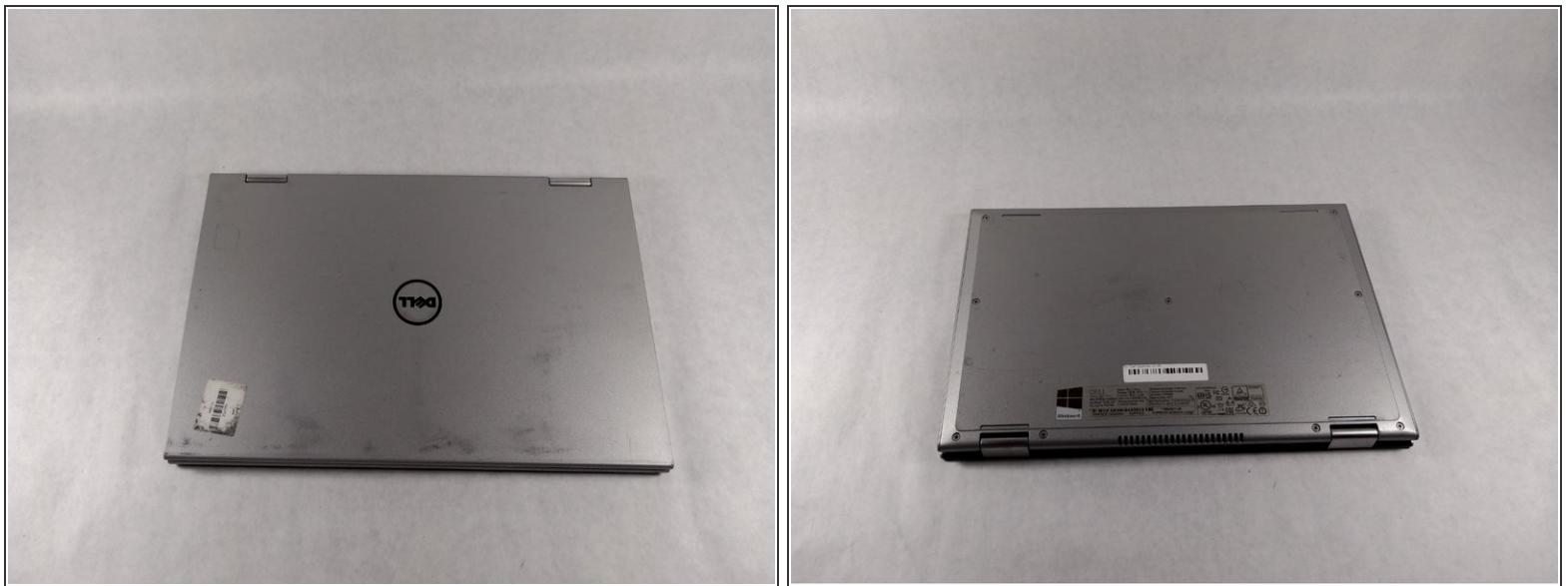
INTRODUCTION

This guide takes a step by step process on removal and replacement of the mother board on the Dell Inspiron 3148. The tools and hardware used/removed are listed ahead of the guide and referenced throughout each step.

TOOLS:

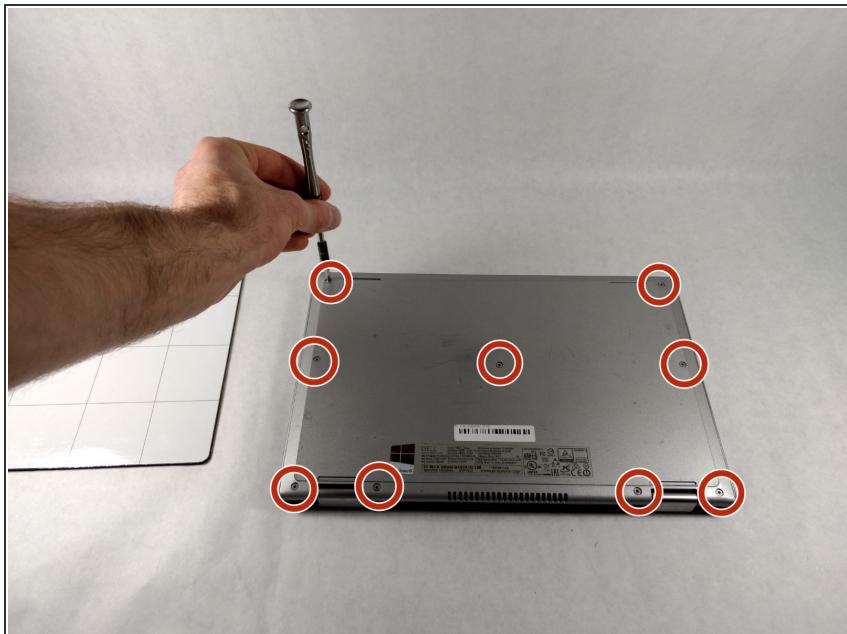
- [iFixit Opening Tools](#) (1)
- [Phillips #1 Screwdriver](#) (1)
- [Phillips #0 Screwdriver](#) (1)
- [Tweezers](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Phillips PH000 Screwdriver](#) (1)

Step 1 — Back Panel



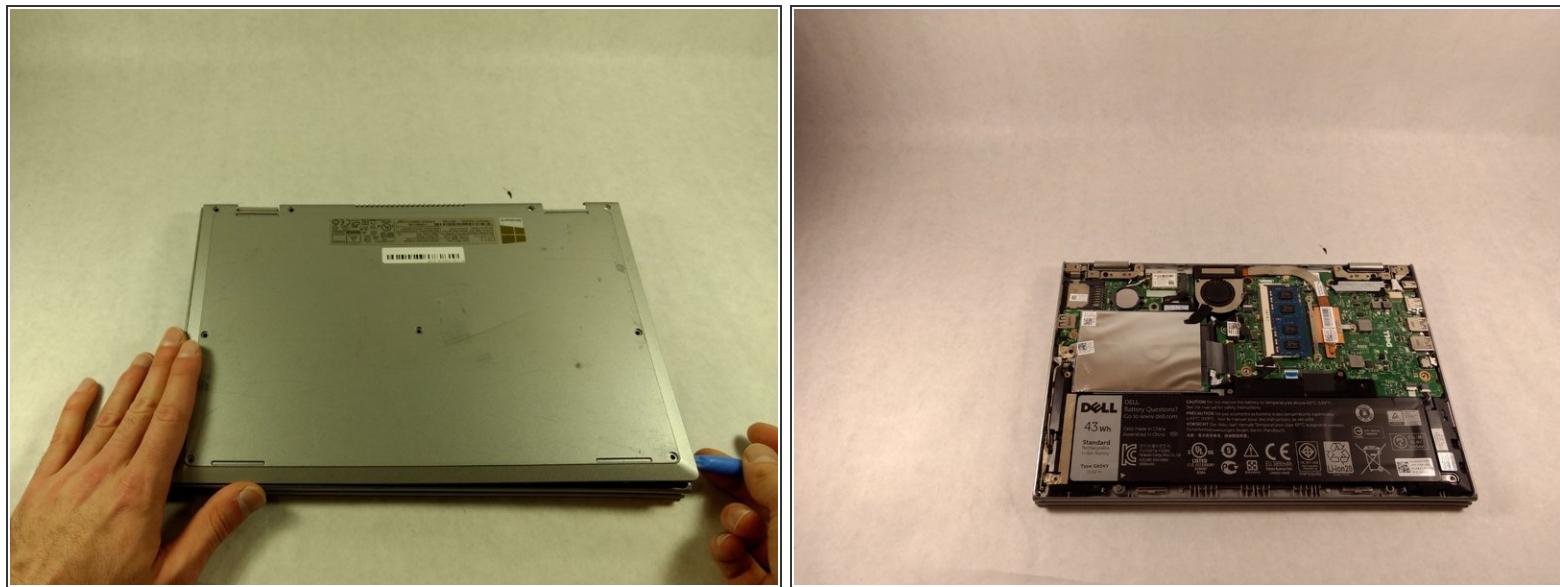
- Ensure the device is powered off and unplugged. Close the device and orient it face up, with the hinges further away from you.
- Flip the device over so the backside is facing you.

Step 2



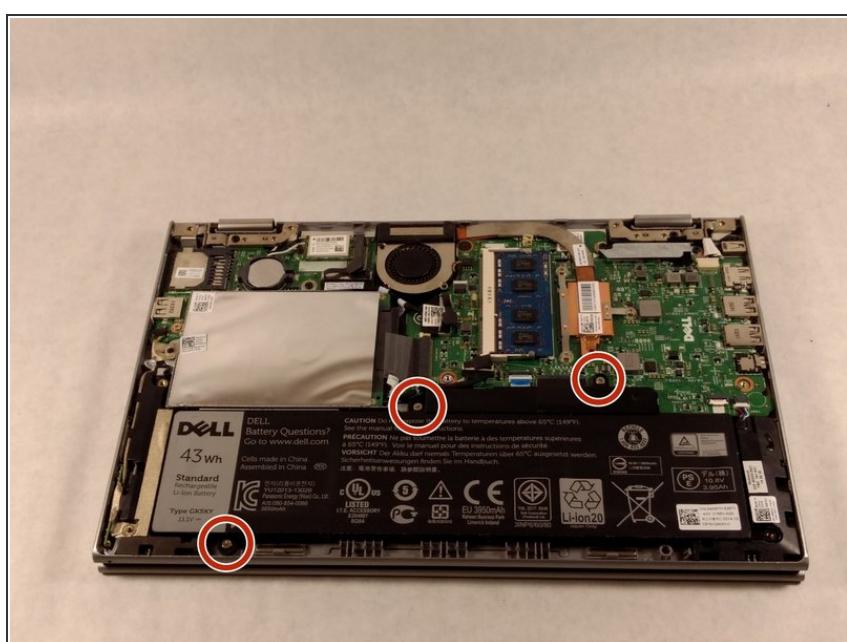
- Using the Phillips #1 screwdriver, remove all nine 7mm screws.

Step 3



- Using the plastic opening tool, pull the back panel upward. Move the opening tool along the edge of the device and lift the panel off of your device.
- Be aware, the back panel is kept in place by magnetic clips. They will offer some resistance, but continue to gently leverage upwards.

Step 4 — Battery



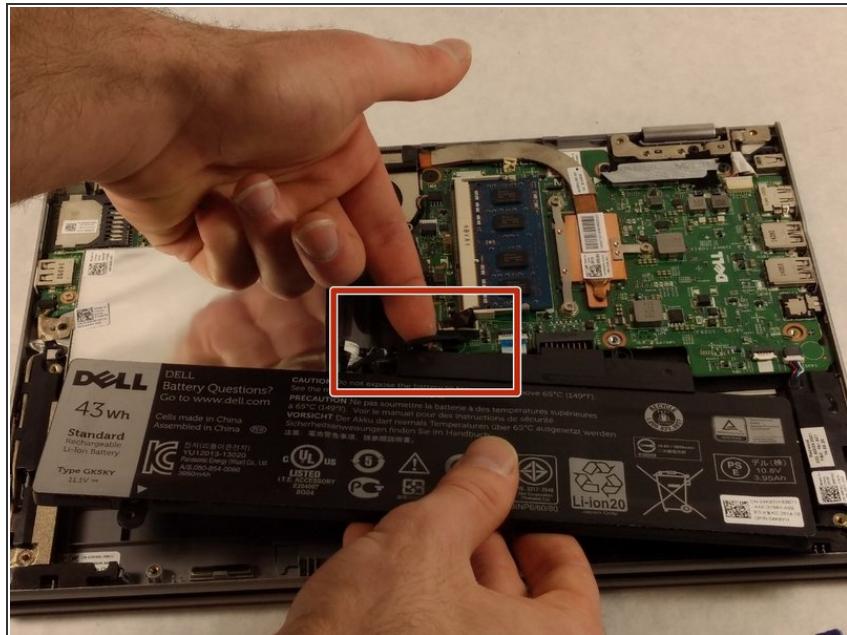
- Remove the three 4mm screws holding battery in place using the Phillips #0 screwdriver.

Step 5



- Using the iFixit opening tools, lift the battery out of its housing.

Step 6



- Once loosened, use your fingers to lift the battery up and out of its housing.
- ⚠ There is a small cable which sits in a rut in the top of the battery. Ensure that it is pushed out of the way before removing completely.

Step 7



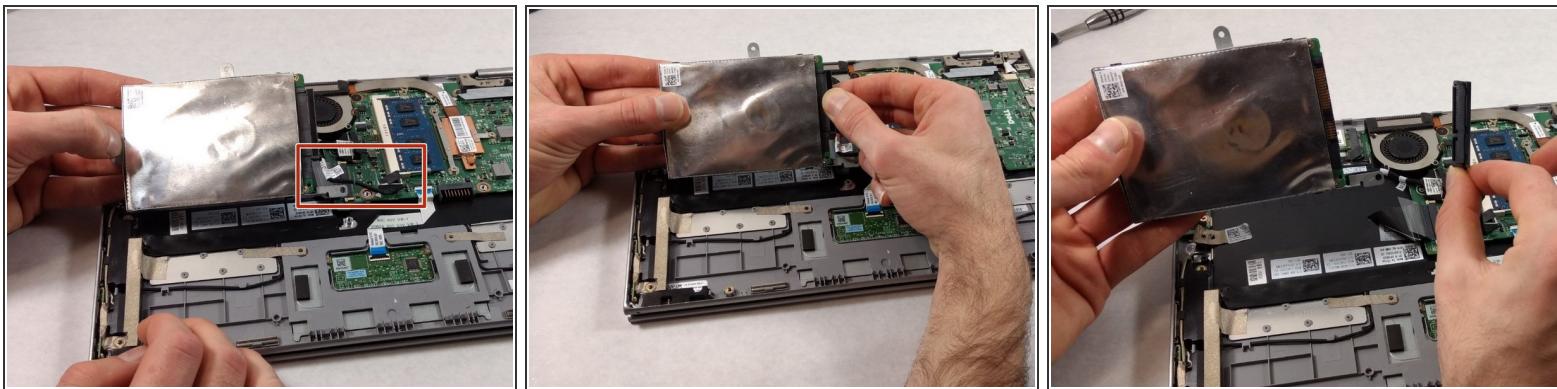
- Remove the battery completely.

Step 8 — Hard Drive



- If there is a piece of tape connecting the hard drive and a small power cord, remove the tape.
- Using the Phillips #0 screwdriver, remove the two 4mm screws.

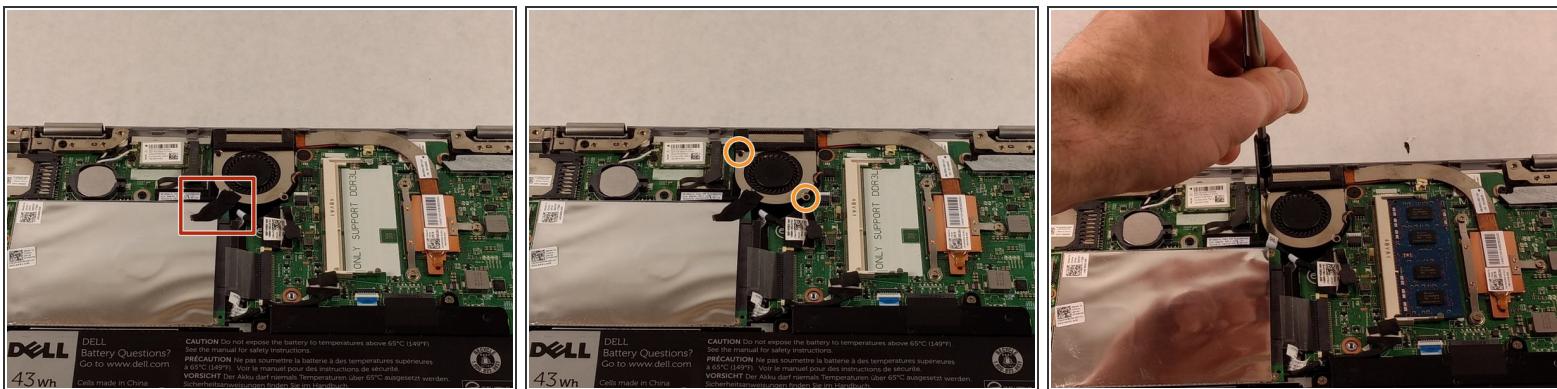
Step 9



⚠️ Notice: there is a small data cable connecting the hard drive to the motherboard. Do not attempt to lift the hard drive all the way out before removing this cable.

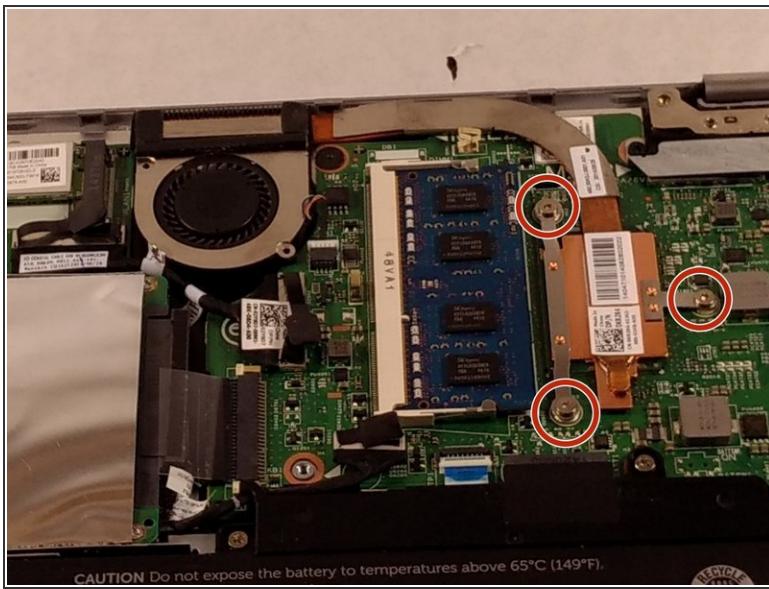
- Lift the hard drive slightly out of the device.
- Grasp the head of the cable, not the cable itself.
- Pull away from the hard drive, removing the data cable. The hard drive may now be fully removed.

Step 10 — Fan



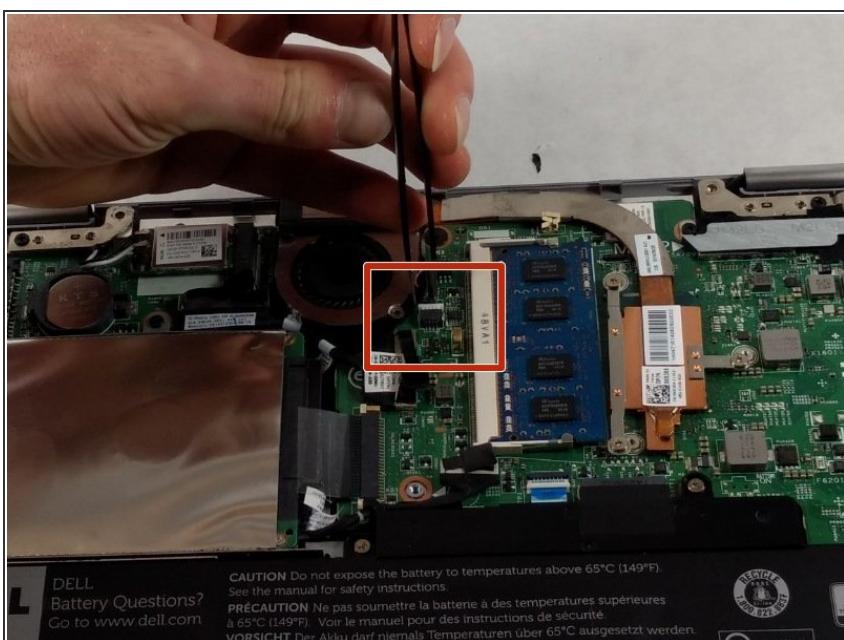
- If there is tape on your fan, remove the tape.
- Remove the two 2mm screws on the fan enclosure using the Phillips #00 screwdriver.

Step 11



- Unscrew the three 4mm screws holding down the heat sink of the fan using the Phillips #00 screwdriver.
- (i)* The three 4mm screws found in the heat sink will remain attached to the heat sink. This is okay as long as they are detached from the motherboard.

Step 12



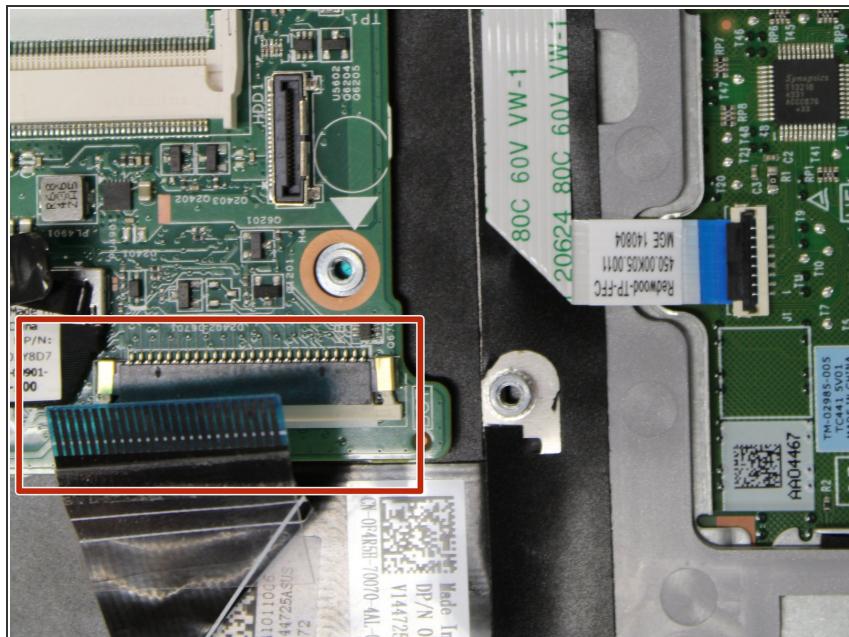
- Use the tweezers to gently pull the power supply cable from its port.

Step 13



- Grasp the fan and lift upward. Remove the fan from the device.

Step 14 — Motherboard



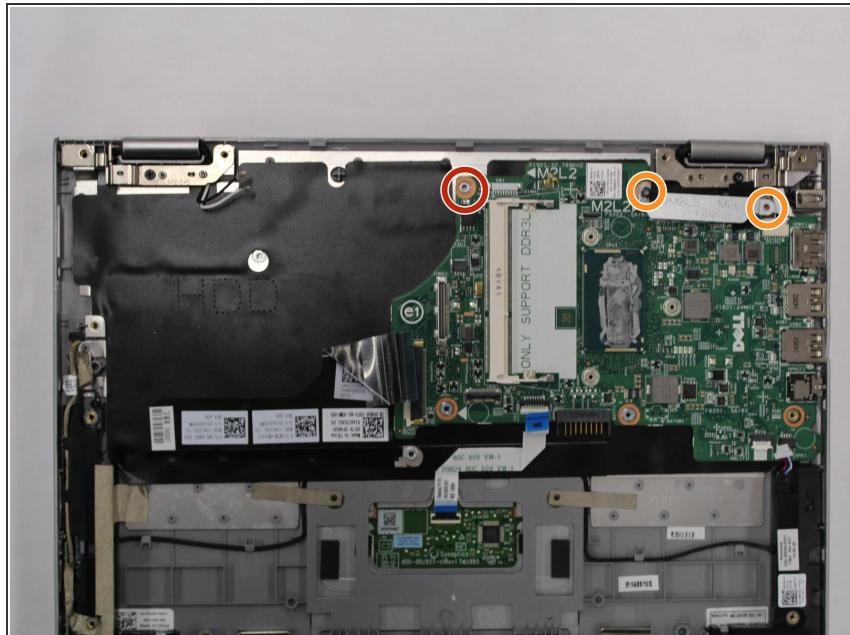
- Remove the keyboard cable from its ZIF connector by flipping up the locking tab on the connector and then pulling the cable out.

Step 15



- Remove the touch pad cable from its ZIF connector.

Step 16



- Remove one 3.41mm screw using a Phillips #000 screwdriver.
- Remove the two 3.41mm screws using a Phillips #000 screwdriver.
- Remove motherboard.

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