



# Dell Inspiron 3148 Keyboard Replacement

This guide covers the Dell Inspiron 3148 Keyboard Replacement

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## INTRODUCTION

This guide is intended to demonstrate the removal and replacement of the keyboard in the Dell Inspiron 3148. The procedure may be missing some steps. In [Step 21](#), most of the components have been removed from the keyboard/case assembly. However, the speakers and trackpad still remain, and can be replaced on the keyboard/case assembly if salvageable. Furthermore, it is possible the keyboard can be removed from the case and replaced independently. If you find this to be the situation, consider [revising this guide](#) to include the additional steps. Thanks!



### TOOLS:

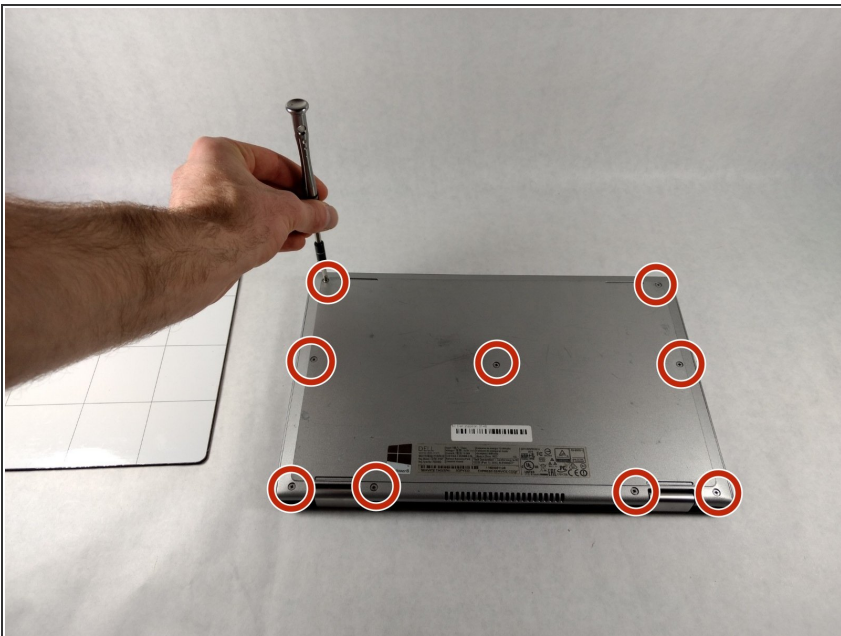
- [Phillips PH000 Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [Phillips #1 Screwdriver](#) (1)
- [Phillips #0 Screwdriver](#) (1)
- [Tweezers](#) (1)
- [Phillips #00 Screwdriver](#) (1)

## 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.

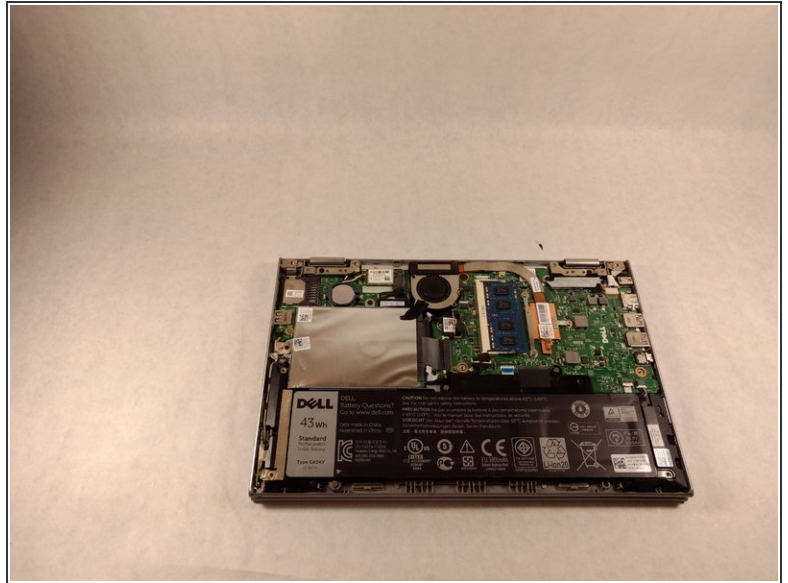
## Step 2



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

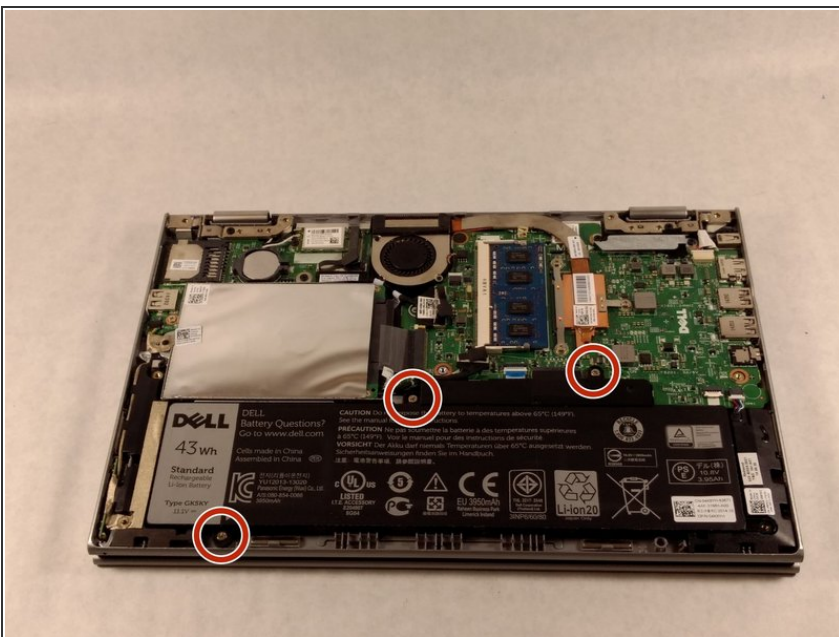


## Step 3



- 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



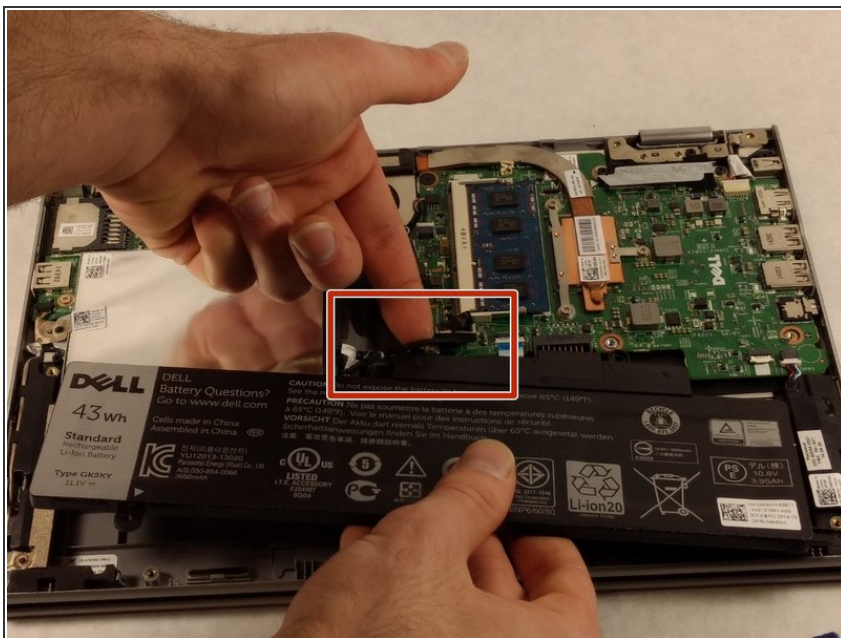
- Remove the three 4mm screws holding battery in place using the Phillips #0 screwdriver.

## 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.

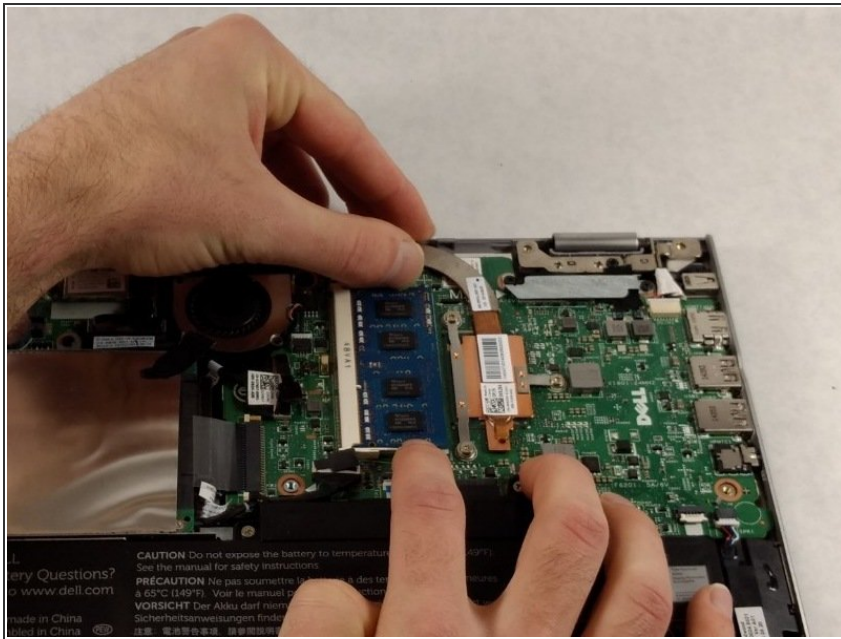
## Step 8 — RAM



- Locate the RAM chips on the motherboard.

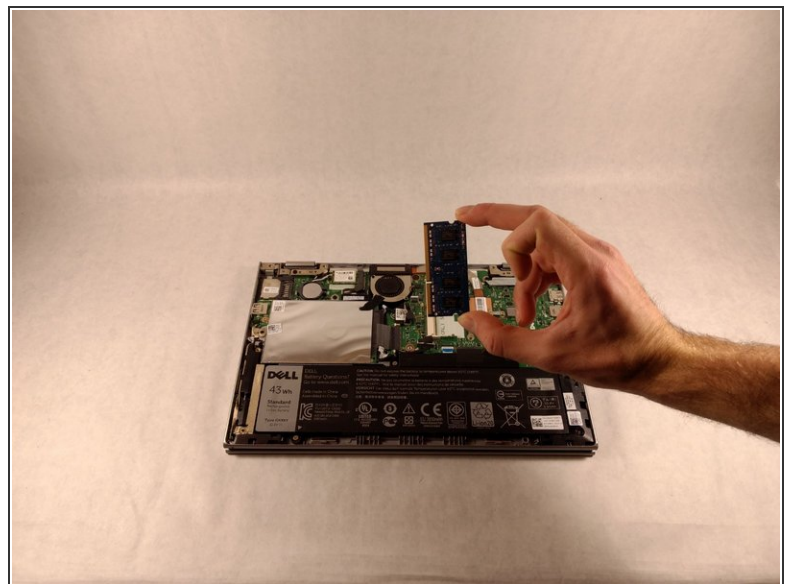


## Step 9



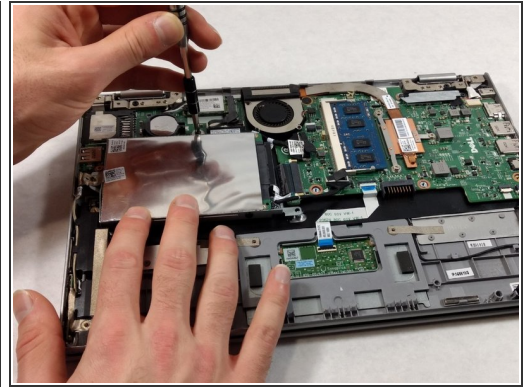
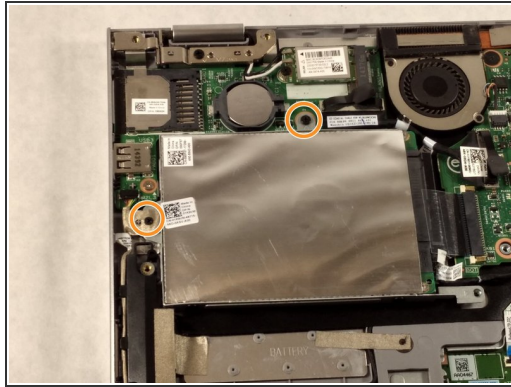
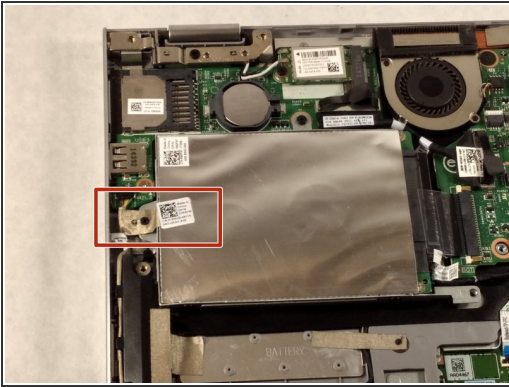
- There are two tabs on either side of the RAM chip. Pull them away from the chip.

## Step 10



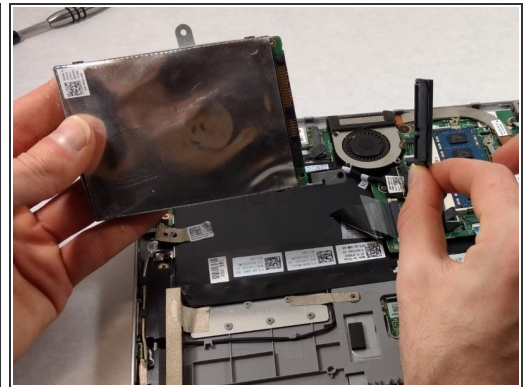
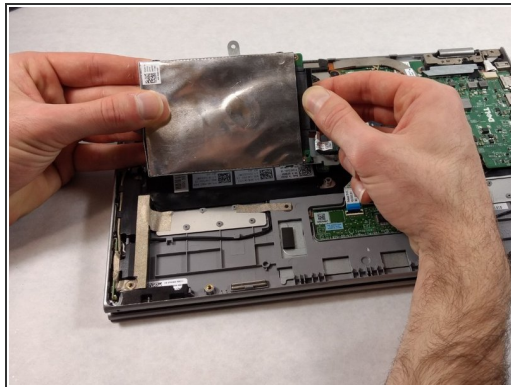
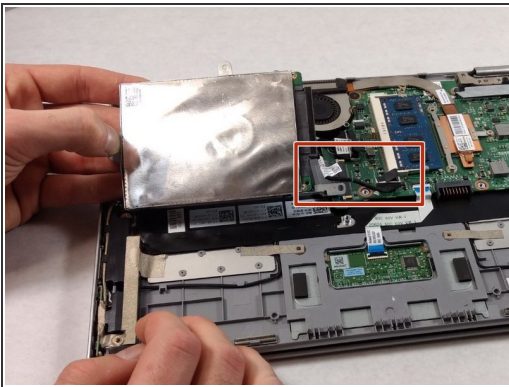
- ① The RAM chip will pop up out of the slot.
- Pinch the RAM between two fingers, making minimal contact. Gently pull away from its port.
- Remove the RAM from the device.

## Step 11 — 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.

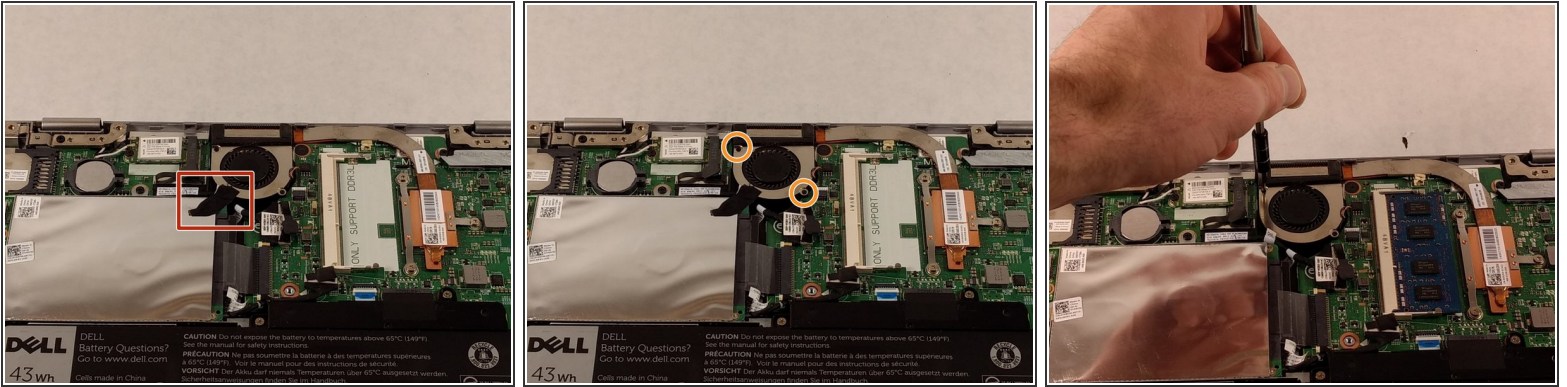
## Step 12



- ⚠ 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.

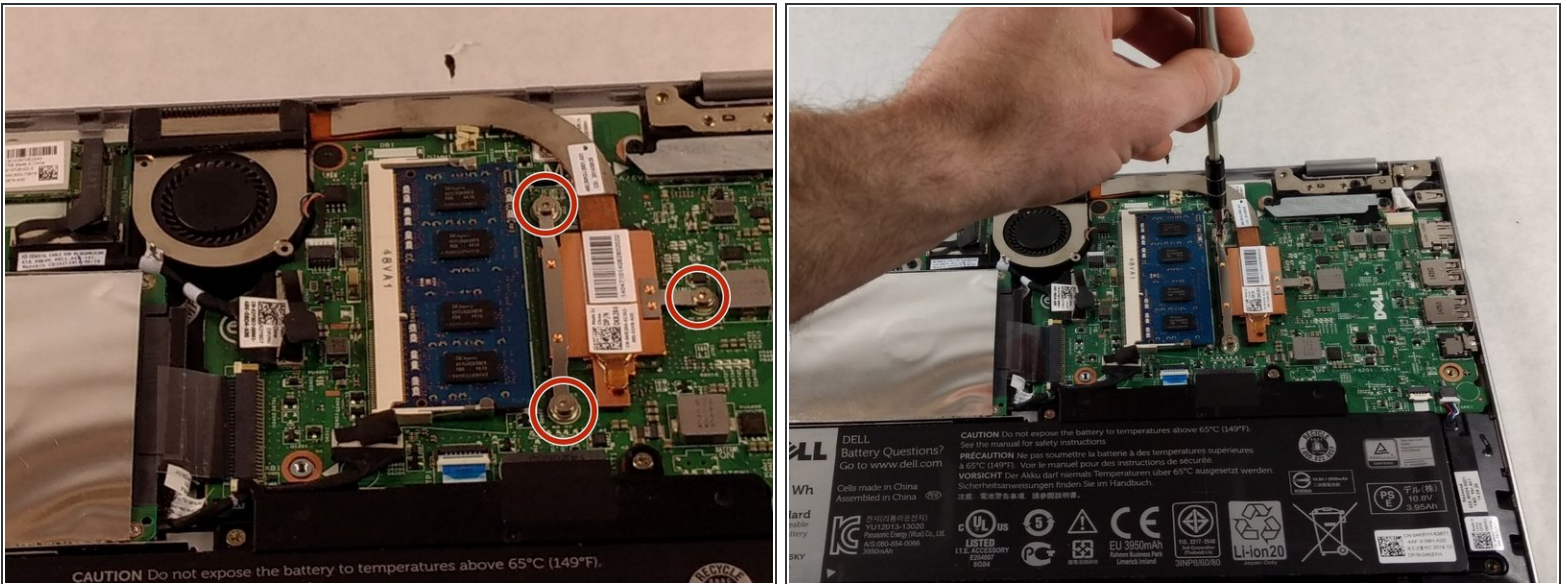


## Step 13 — Fan



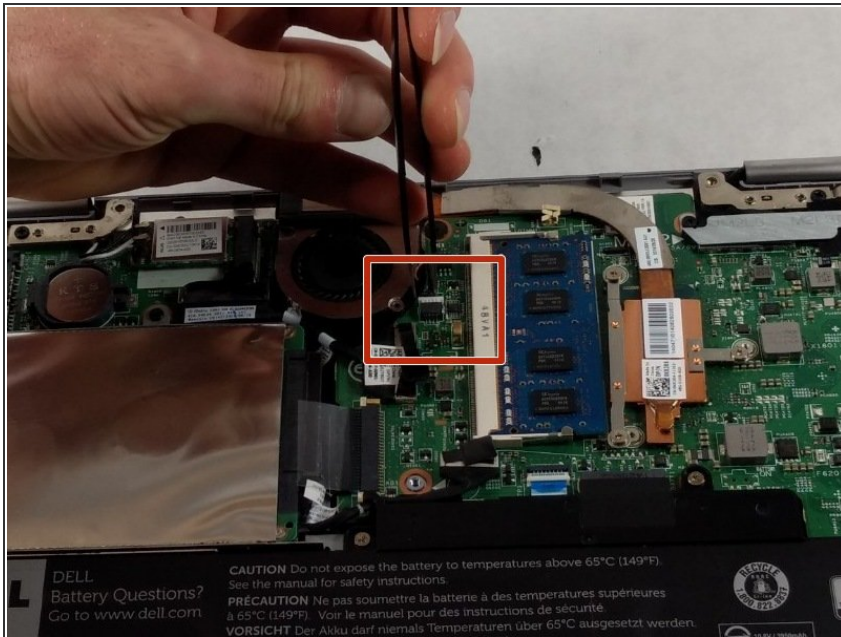
- If there is tape on your fan, remove the tape.
- Remove the two 2mm screws on the fan enclosure using the Phillips #00 screwdriver.

## Step 14



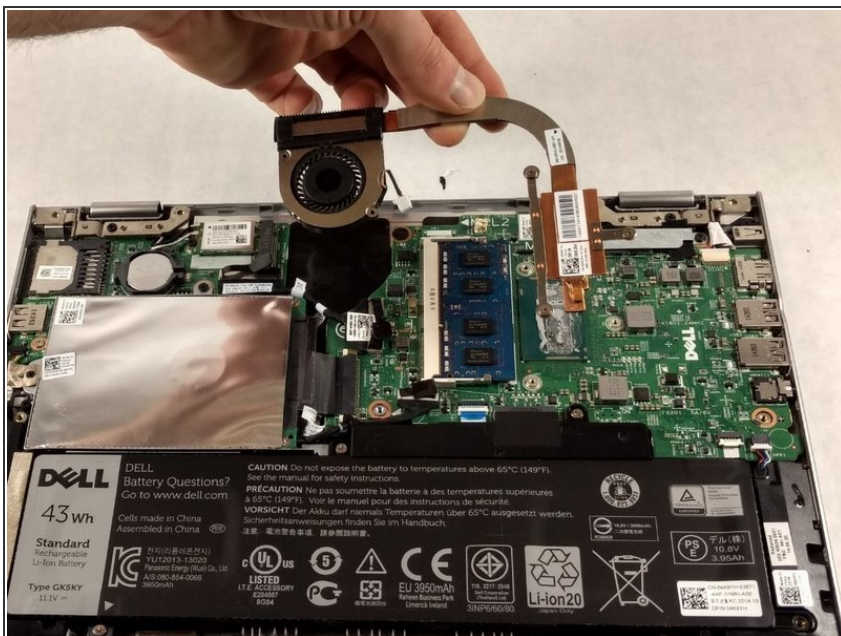
- Unscrew the three 4mm screws holding down the heat sink of the fan using the Phillips #00 screwdriver.
- ⓘ The three 4mm screws found in the heat sink will remain attached to the heat sink. This is okay as long as they are detached from the motherboard.

## Step 15



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

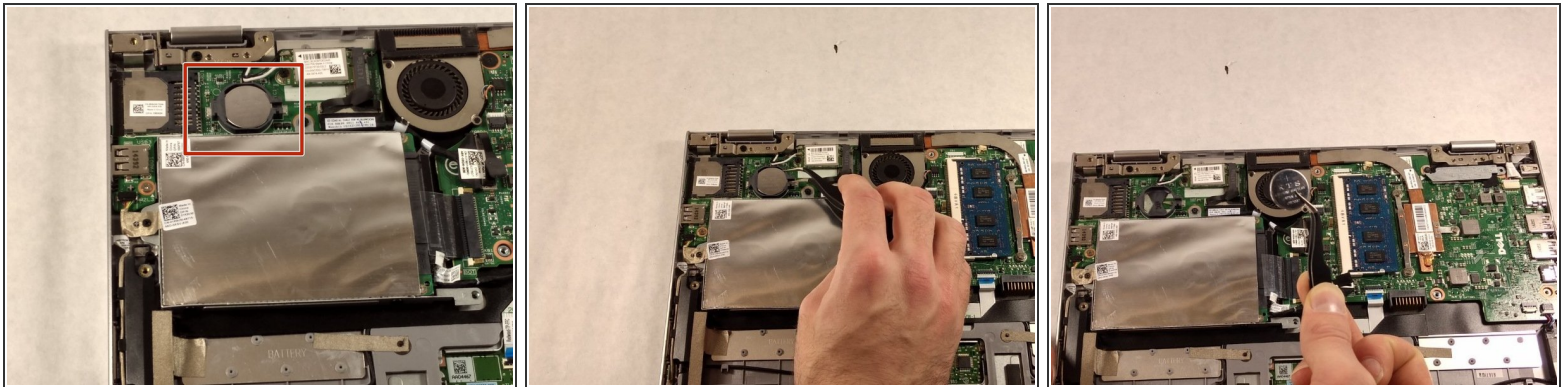
## Step 16



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

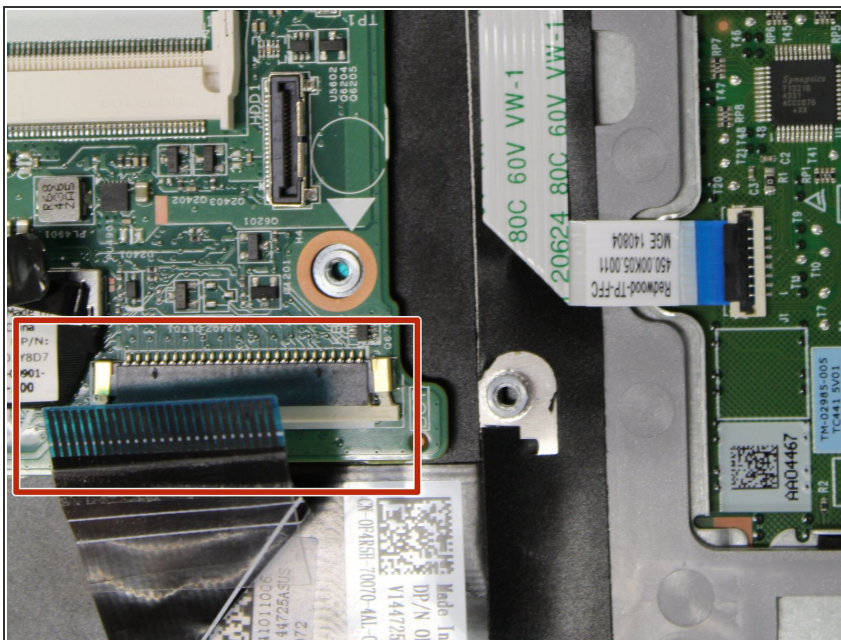


## Step 17 — CMOS Battery



- Using a pair of tweezers, lift the exposed edge of the CMOS battery upward.
- Once the CMOS battery has been loosened, remove it from the device.

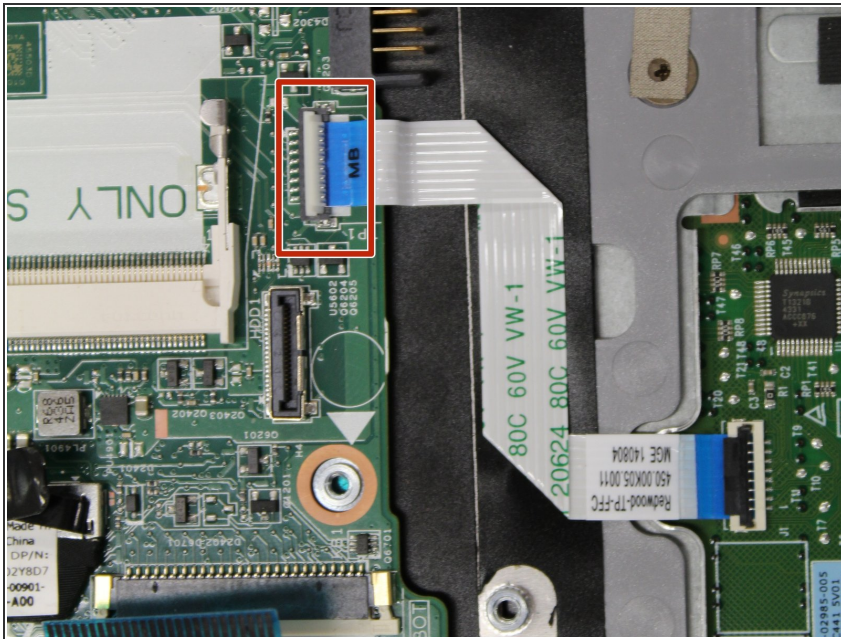
## Step 18 — Motherboard



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



## Step 19



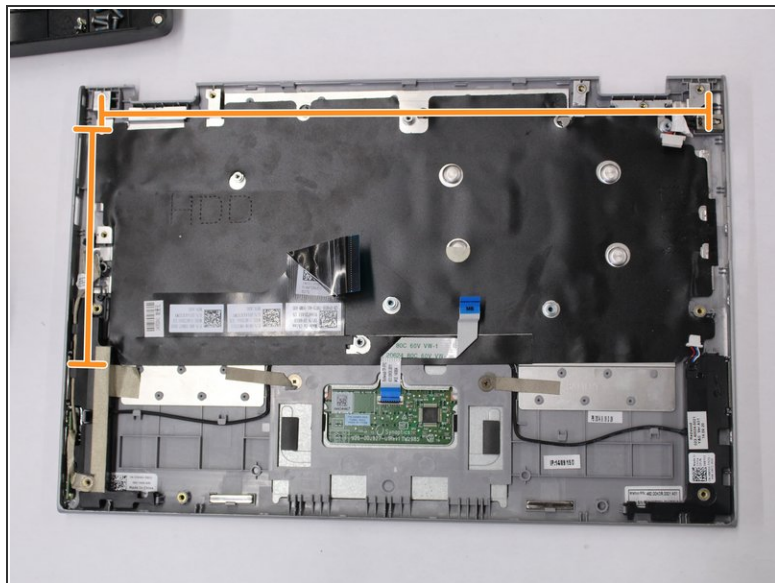
- Remove the touch pad cable from its ZIF connector.

## Step 20



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

## Step 21 — Keyboard



- Using a Phillips #000 screwdriver, remove single 4.1mm screw from the SD card reader board.
- Remove the SD card reader board.
- Remove the keyboard.

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