



# Dell XPS 15 Motherboard Replacement

This guide explains how to replace the...

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# INTRODUCTION

This guide explains how to replace the motherboard in the Dell XPS 15 9575. The motherboard connects all the hardware components in the device and is a critical component. If your Dell XPS 15 is experiencing power issues a motherboard replacement might be necessary. To make sure this is the right fix, check the troubleshooting section for specific symptoms such as failure to boot, overheating and power issues.

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## TOOLS:

[iFixit Opening Picks \(Set of 6\)](#) (1)

[Spudger](#) (1)

[Tweezers](#) (1)

[Phillips #0 Screwdriver](#) (1)

[T5 Torx Screwdriver](#) (1)

[iFixit Opening Tool](#) (1)

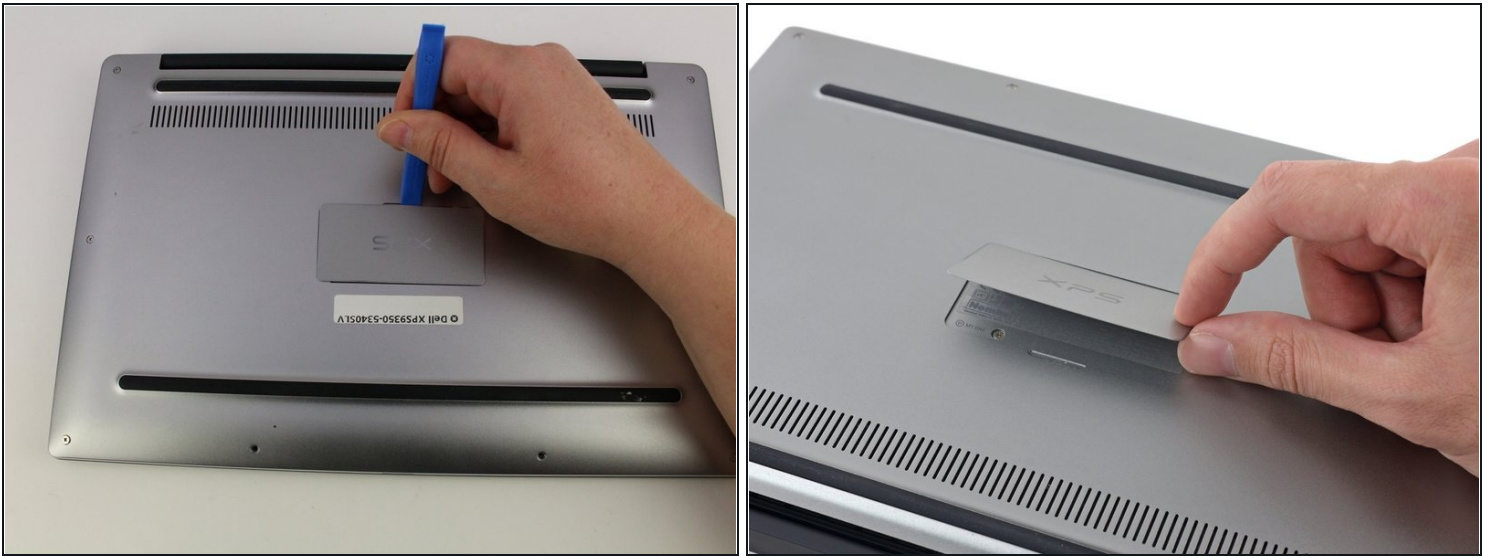
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## Step 1 — Back Cover



- Remove the eight 4 mm T5 Torx screws from the bottom cover.

## Step 2



- Use a plastic opening tool to pry open the 'XPS' flap in the middle.

## Step 3



- Remove the single Phillips screw hidden beneath the flap.



## Step 4



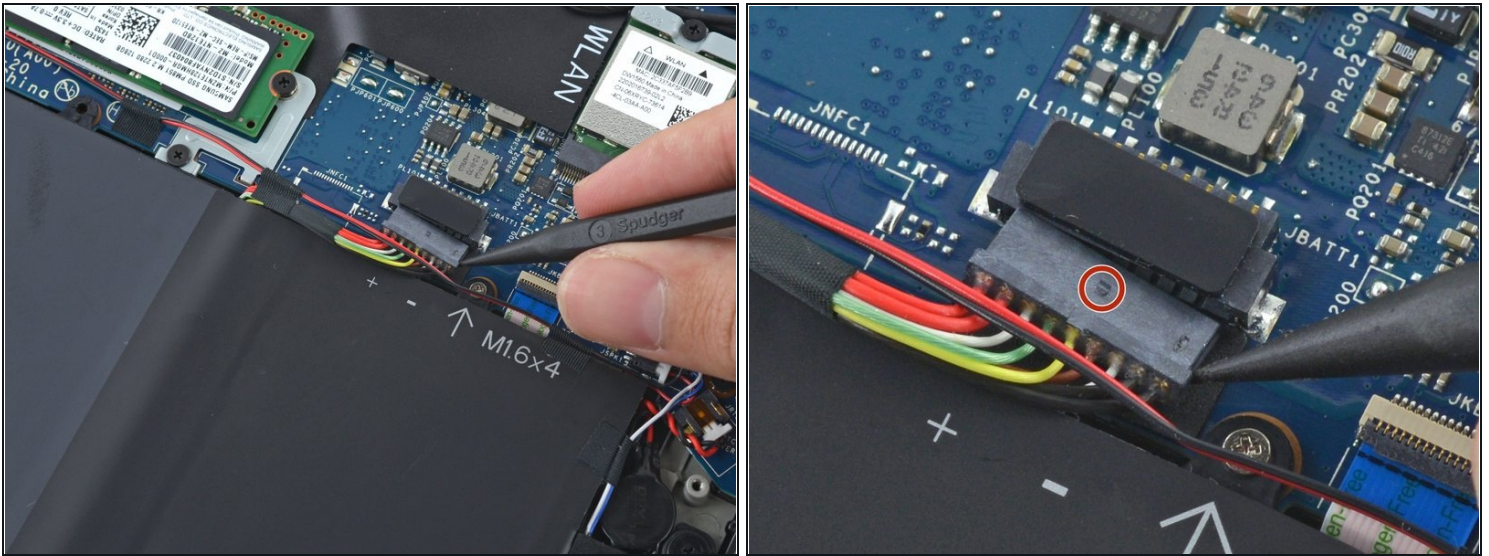
- Use opening picks or a plastic pry tool to pry open the case clips, beginning from the back edge.

## Step 5



- Remove the bottom cover.

## Step 6 — Battery Disconnection

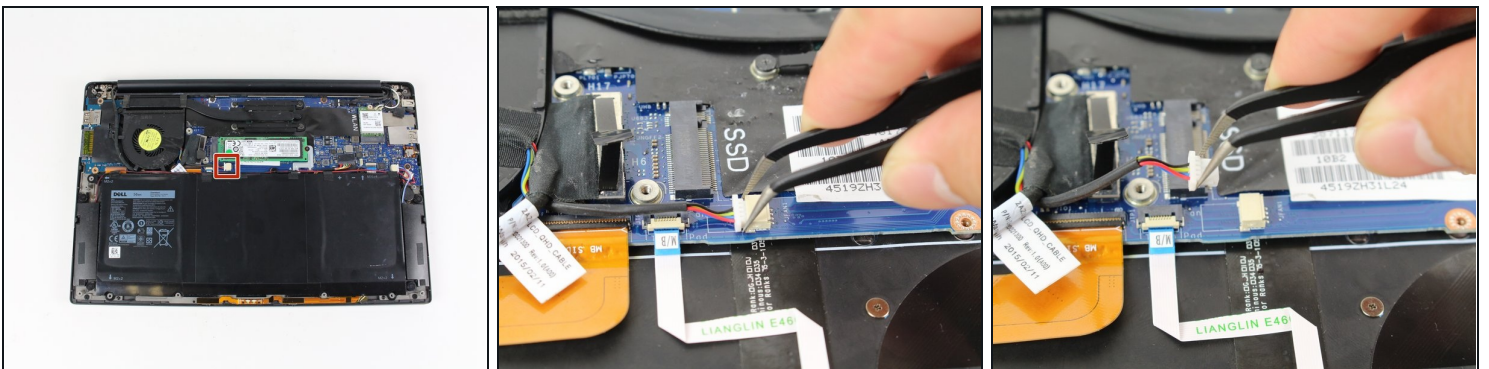


- Pull the battery cable connector towards the battery to disconnect it from its socket.
- If the connector is stubborn, push a little at one side, then the other, to "walk" it out of its socket.
- If you have trouble walking the connector out of the socket, use the point of a spudger to gently push on the connector indent to slide the connector out.

⚠ Do not pull up.

- Open the display and press the power button for five seconds to drain any remaining charge from the system.

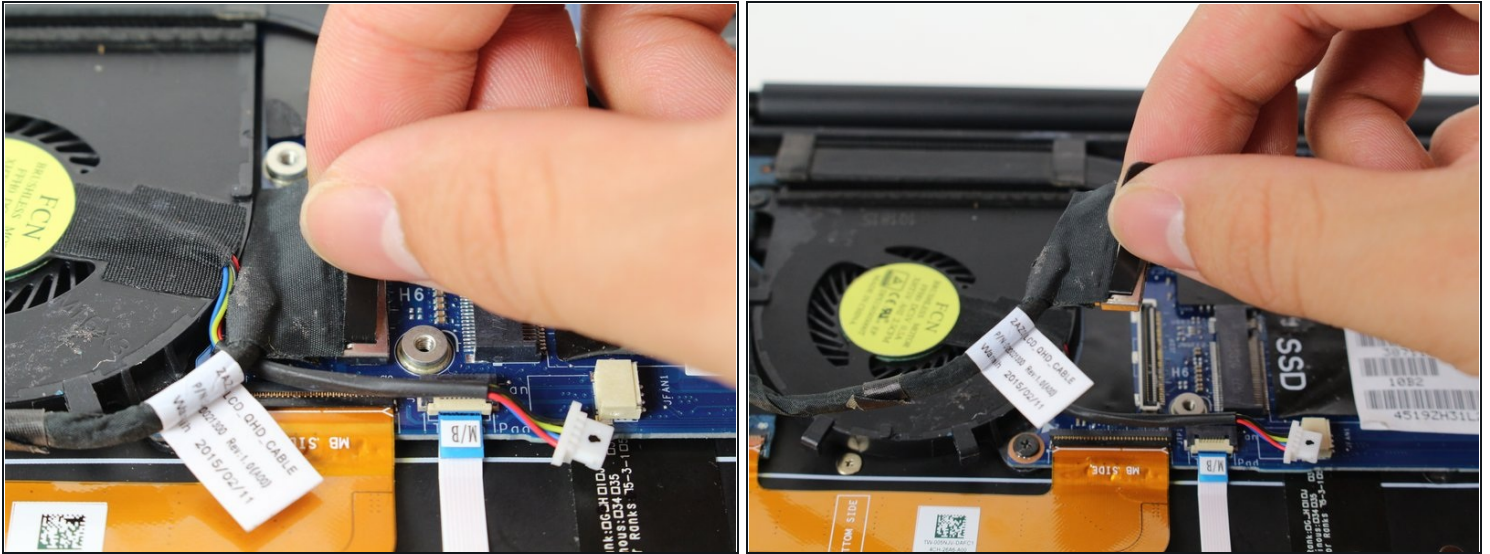
## Step 7 — Fan



- Use [tweezers](#) to remove the little white connector by pulling it out and away from its socket.

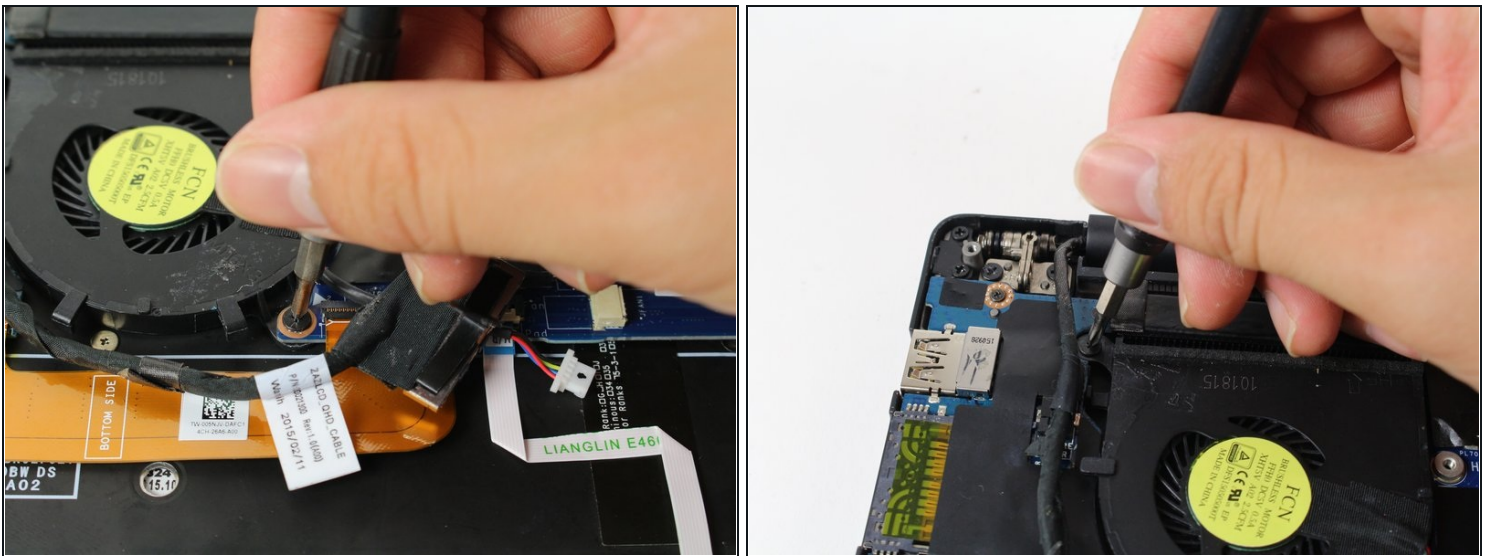


## Step 8



- Remove the black standard flat connector by lifting the tab up with your hand.

## Step 9



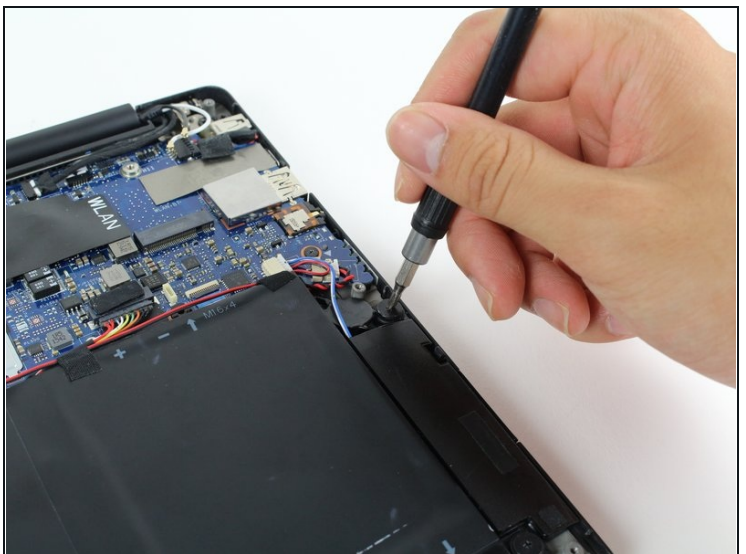
- Remove the 4 mm Phillips #0 screw that connects the fan to the motherboard.
- Remove the 4 mm Phillips #0 screw that connects the fan to the base of the computer.

## Step 10



- Use your right hand to lift up the larger section of the motherboard, closest to the fan.
- Use your left hand to pull the fan at a 30-degree angle out from underneath the motherboard.

## Step 11 — Battery



- Remove the four 3 mm Phillips #0 screws located on each corner of the battery.

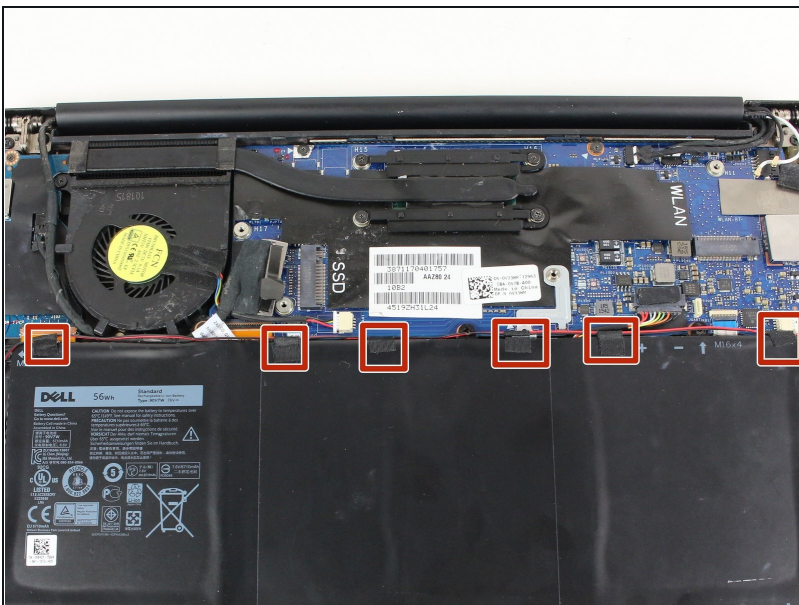


## Step 12



- Pull the battery cable connector towards the battery to disconnect it from its socket.  
⚠ Do not pull up.

## Step 13



- Peel up any tape securing the speaker cables to the battery.  
① You do not need to remove the speakers, only the tape, allowing the battery to be removed out under the speaker cables.

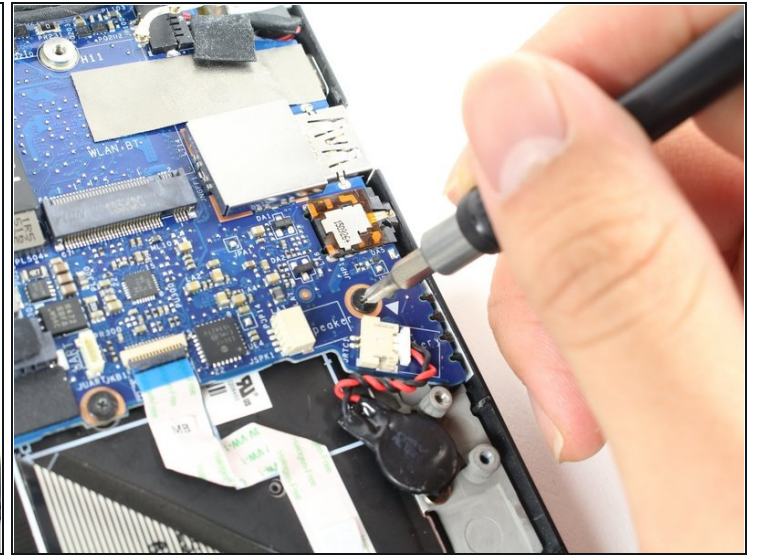


## Step 14



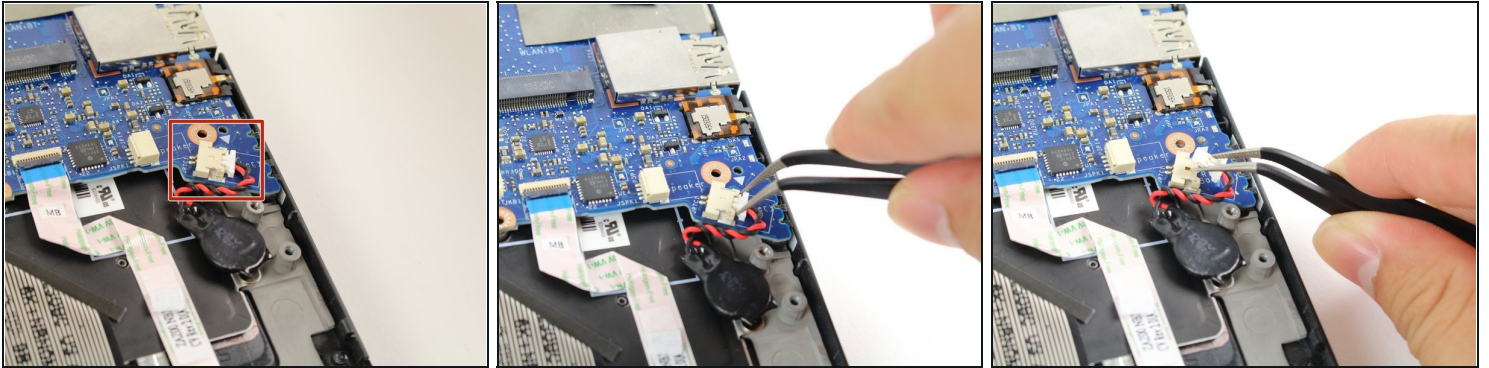
- Remove the battery.

## Step 15 — Motherboard



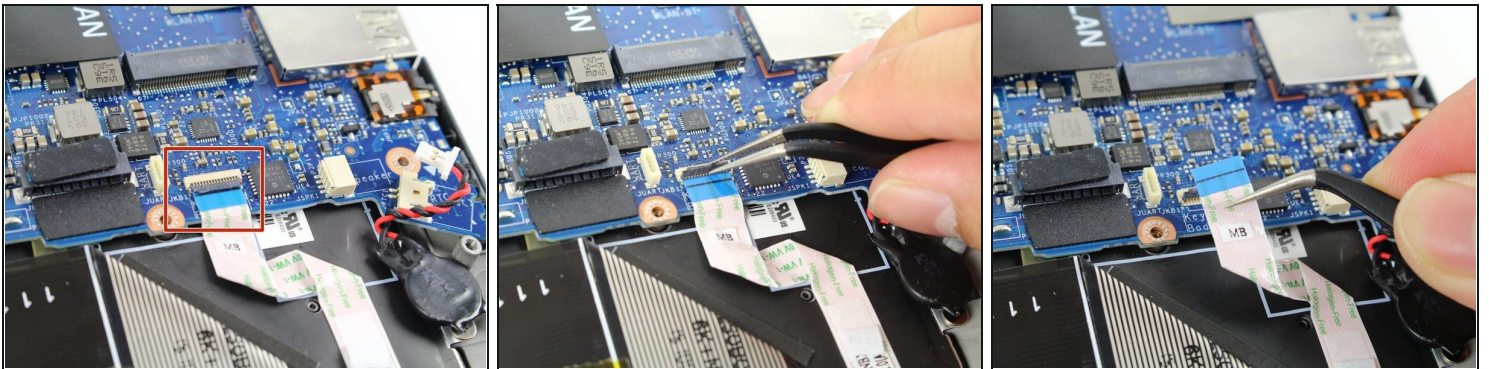
- Remove the eight 4 mm Phillips #0 screws from the motherboard.

## Step 16



- Locate the red and black cable connector at the bottom right of the motherboard.
- Use [tweezers](#) to slowly detach the cable connector from its socket by pulling it to the right and up.

## Step 17



- Use tweezers to flip open the Zero Insertion Force (ZIF) connector.
- Use tweezers to detach the ribbon cable from the ZIF by pulling it towards yourself.

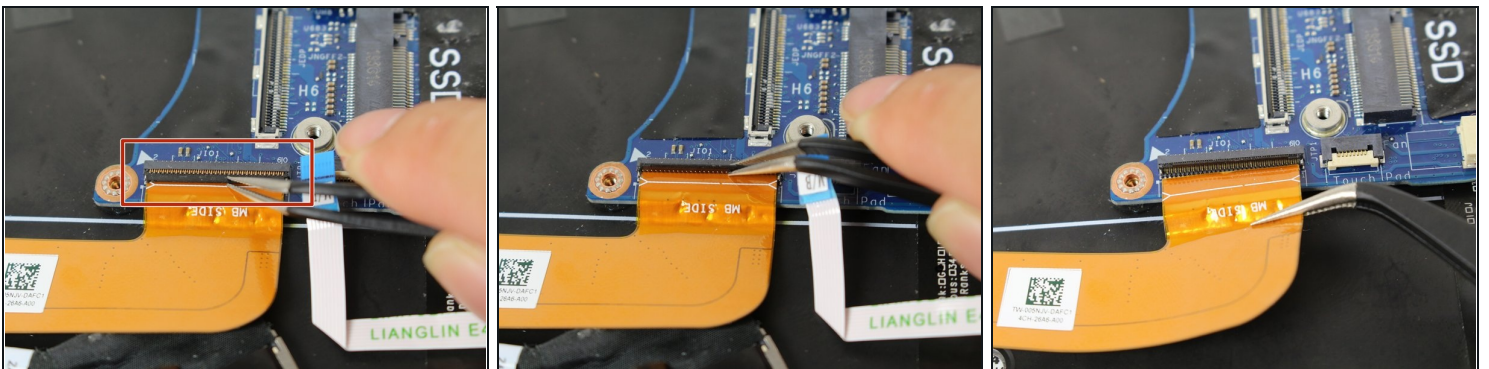


## Step 18



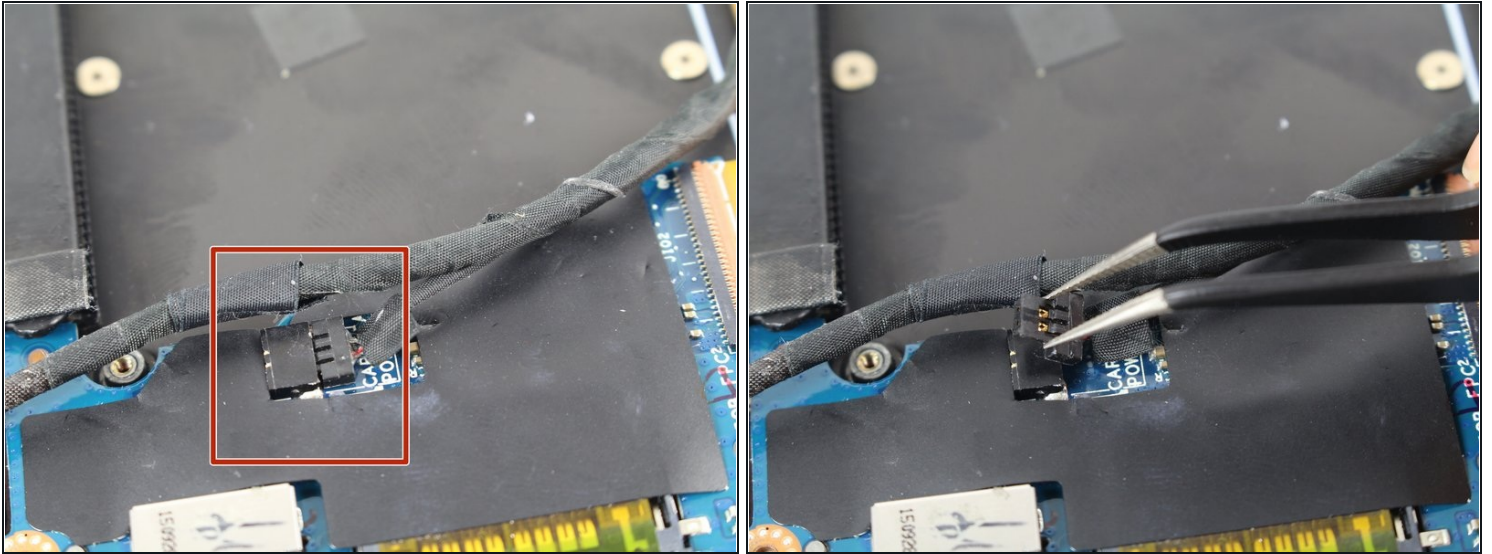
- Use tweezers to flip open the white ZIF connector.
- Use tweezers to detach the ribbon connector from the ZIF by pulling it towards yourself.

## Step 19



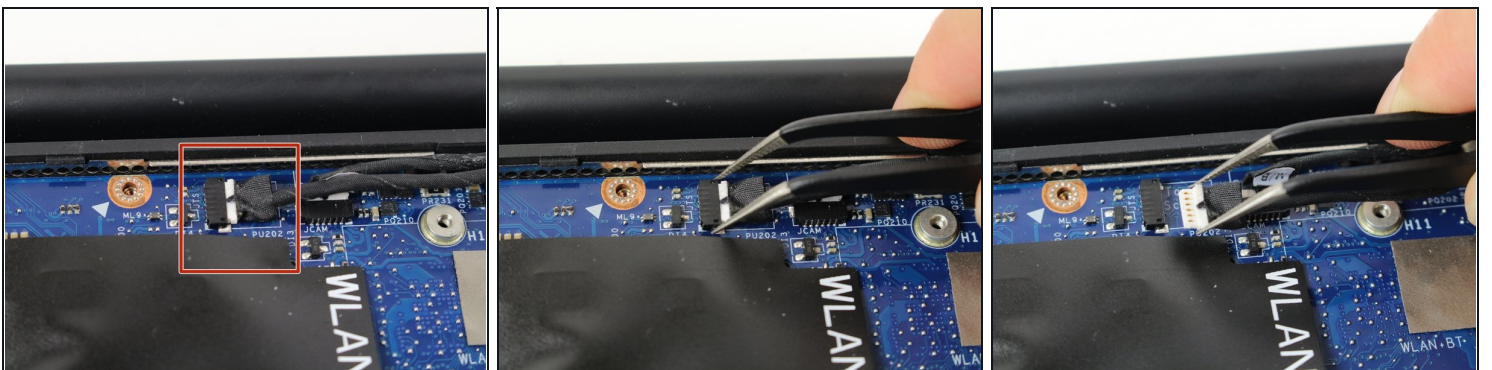
- Use tweezers to flip open the ZIF connector.
- Use tweezers to detach the orange ribbon connector from the ZIF by pulling it towards yourself.

## Step 20



- Use tweezers to detach the black cable connector out of its socket by pulling it to the right.

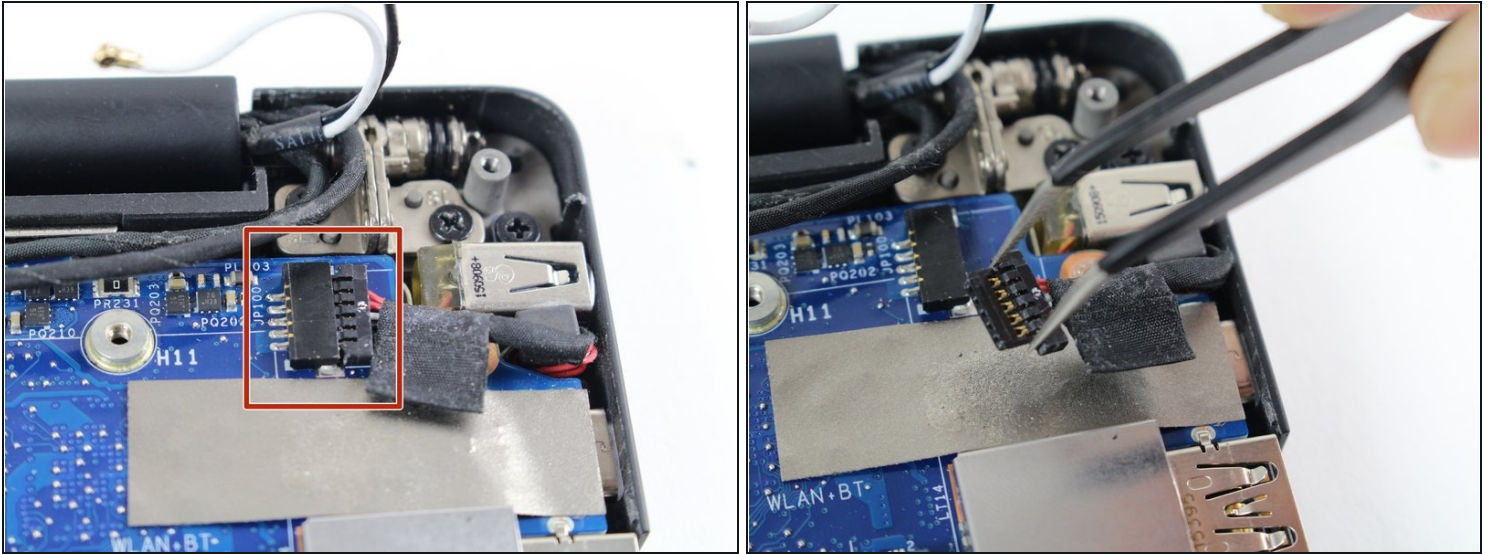
## Step 21



- Use tweezers to gently detach the black and white cable connector out of its socket by pulling it to the right.

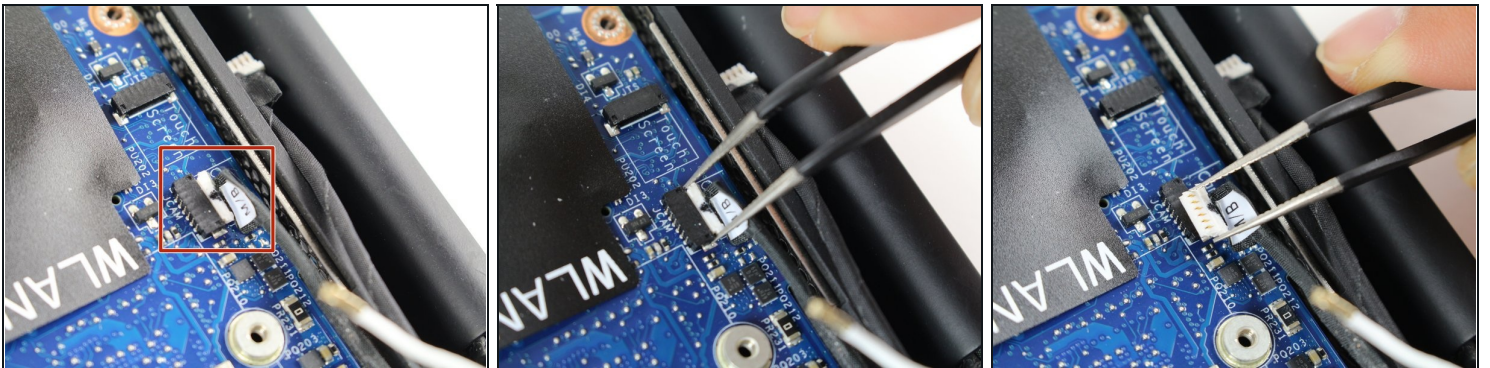


## Step 22



- Locate the connector at the top right of the motherboard.
- Use tweezers to detach the cable connector from its socket by pulling it to the right.

## Step 23



- Locate the last black cable connector.
- Use tweezers to detach the black cable connector from its socket by pulling it to the right.

## Step 24



- Use your hands to lift up the motherboard.

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