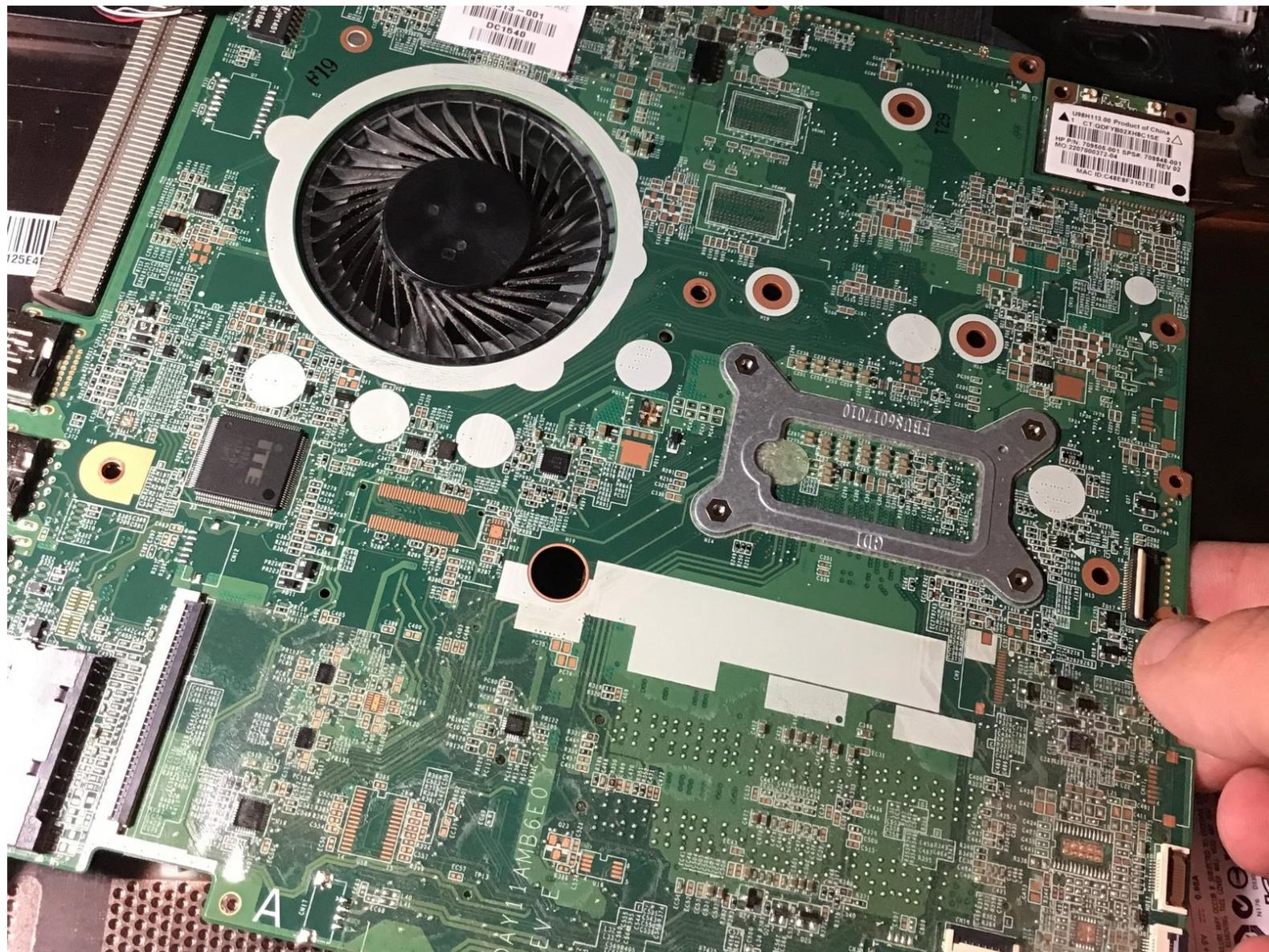




HP Pavilion 15-p214dx Motherboard Replacement

This guide goes over how to replace the motherboard in the HP Pavilion 15-p214dx laptop.

Written By: Patrick Seaver



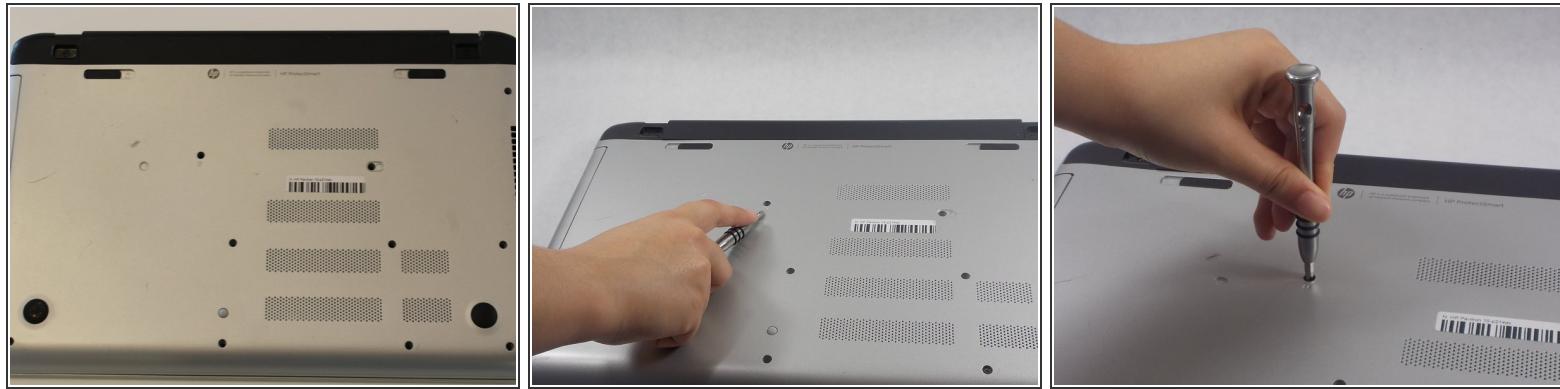
INTRODUCTION

This guide discusses how to remove the HP Pavilion 15-p214dx's motherboard. To do this, you will need a Phillips #0 screwdriver, a plastic opening tool, and a flathead screwdriver. Since the motherboard is one of the laptop's most important parts, it should be handled and removed with care.

TOOLS:

- [Phillips #0 Screwdriver \(1\)](#)
- [iFixit Opening Tools \(1\)](#)
- [Flathead Screwdriver \(1\)](#)

Step 1 — Disk Drive



- Place your laptop on a flat surface with the bottom facing upwards. The HP logo should be facing downwards.
- Locate the disk drive screw. It is a 7mm screw that can be found to the upper left on label on the bottom of the computer and is marked with a disk drive symbol.
- Remove this screw using a Philips #0 screwdriver.

Step 2



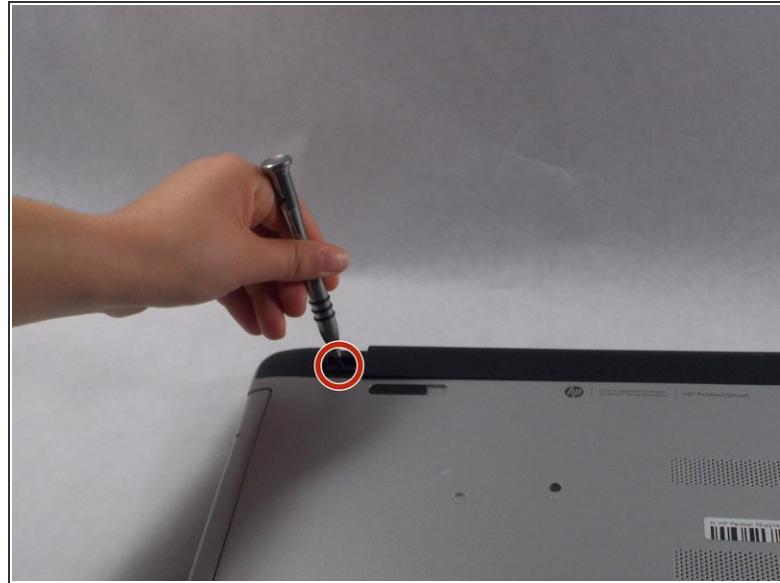
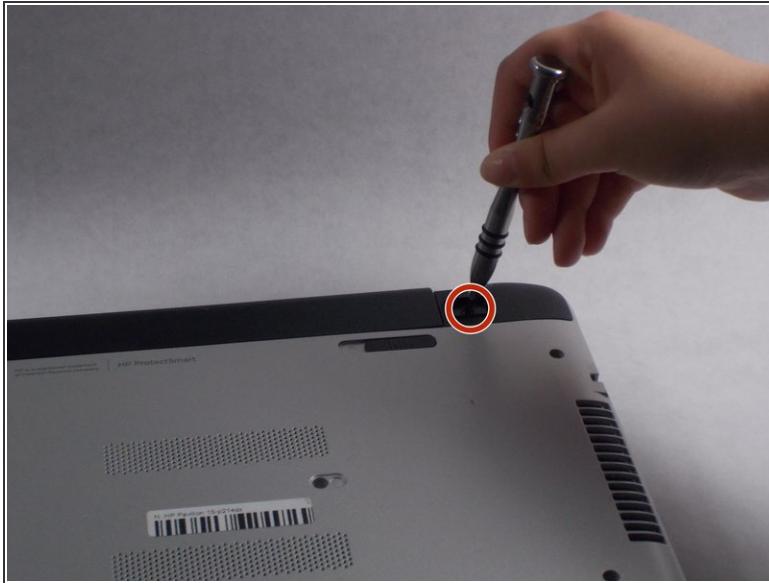
- Place your thumbnail between the disk drive exterior and your laptop's bottom cover.
- If your nail is not long enough to do this, you can use a prying tool instead.
- Pull outwards to slide the disk drive out of its slot.
- Due to how the disk drive's slot is constructed, the drive must be properly aligned to fit back in. It may take a couple attempts to properly align it.

Step 3 — Top Cover



- Using a magnetic screwdriver with a Philips #0 head, remove all of the visible screws on your laptop's bottom face. These screws are all about 7.5mm long.

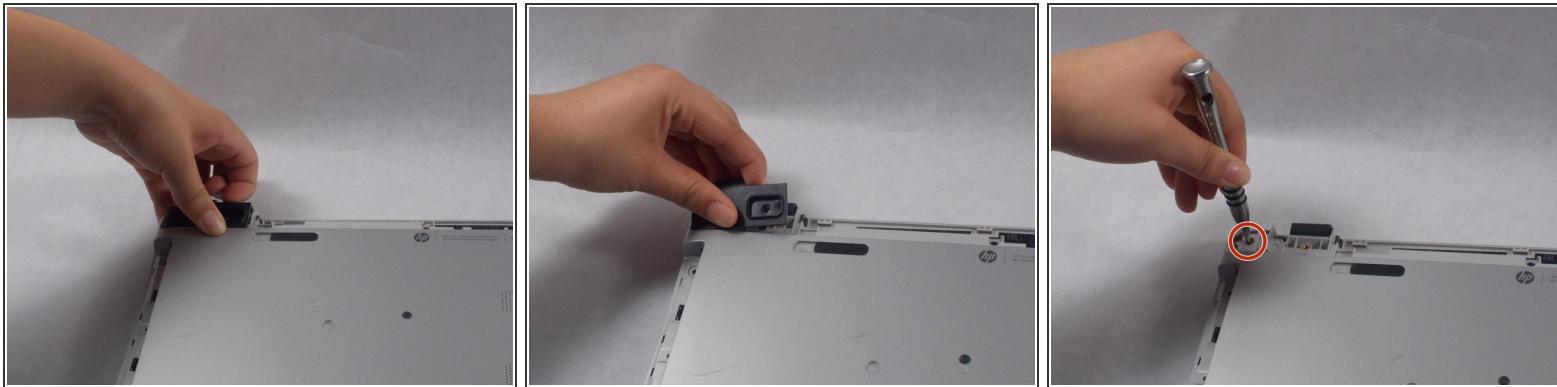
Step 4



- Remove the 5.5mm screws holding the computer's end caps in place. The end caps are located to the left and right of the battery.

(i) These screws are normally hidden underneath the end caps' rubber feet, which are not shown in the pictures. To remove these, gently pry them out of their slots with a plastic opening tool or a flathead screwdriver.

Step 5



- Lift both end caps from their respective corners.
- Use a Philips #0 screwdriver to remove the 4.3mm screw that is underneath both end caps.

Step 6



- Use a Philips #0 screwdriver to remove the three 5.5mm screws in on the edge of the disk drive slot.
- *(i)* These three screws are missing from the pictures.

Step 7

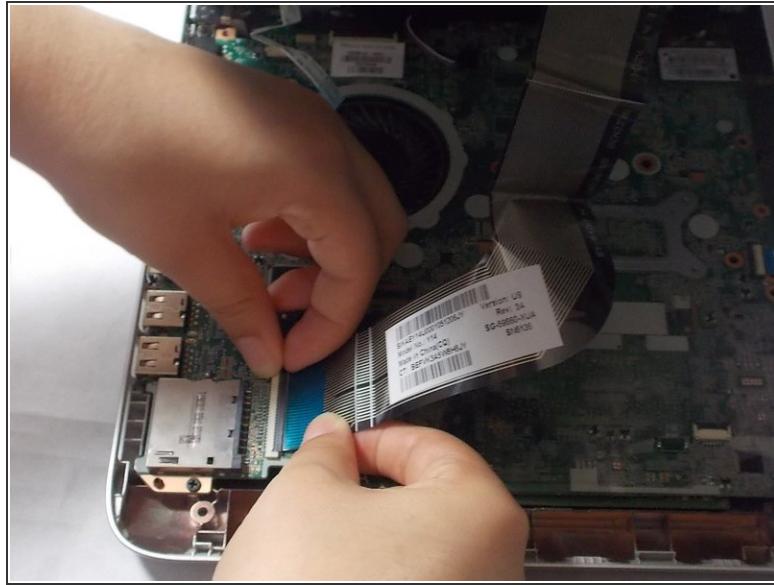


- Flip your computer so that the bottom is now on the surface. Open the laptop like you normally would if you were about to use it.
- Use a plastic opening tool to separate the top cover from the bottom cover.

⚠ Be careful when prying the cover off since it is susceptible to bending and cracking.

⚠ There are several cables connecting the top cover to the computer's motherboard that need to be disconnected before the cover can be completely removed.

Step 8



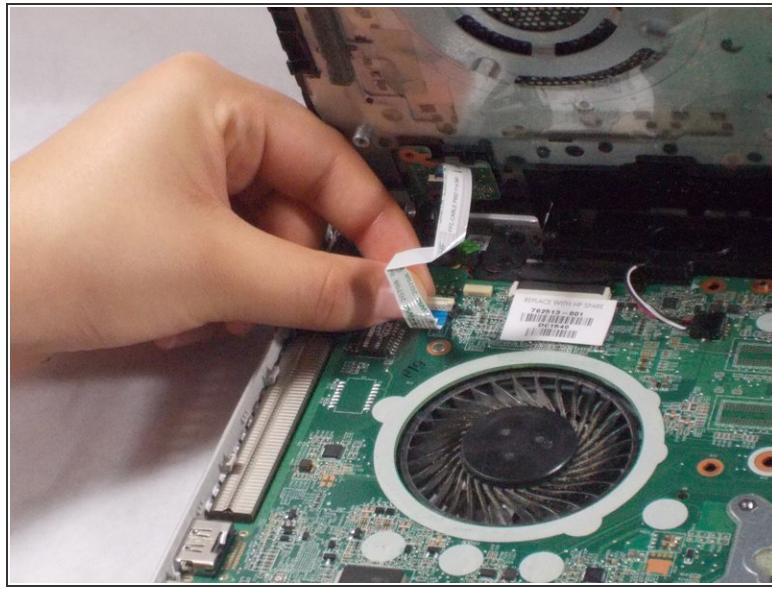
- While lifting the top cover, undo the clip holding the keyboard cable in place.
- Slide the cable out of its port.

Step 9



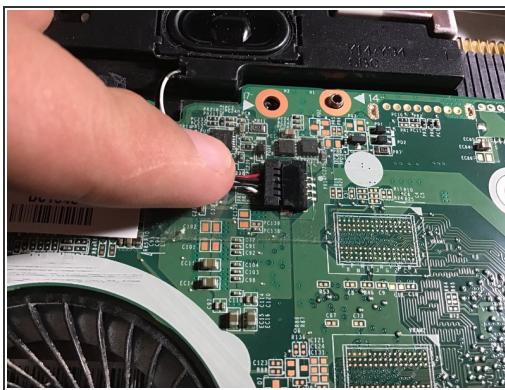
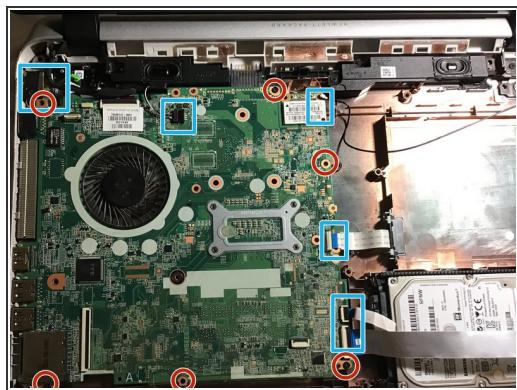
- Undo the clip holding the touchpad cable in place.
- Remove the touchpad cable from its port.

Step 10



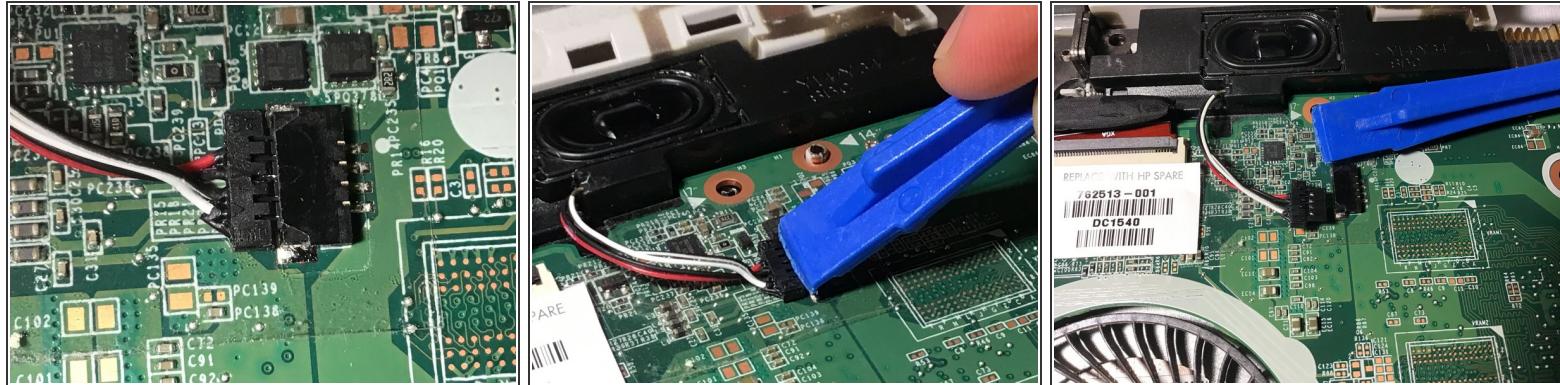
- Undo the clip holding the power button cable in place.
- Disconnect the power button cable from its port.
- Gently lift the top cover to remove it from the computer.

Step 11 — Motherboard



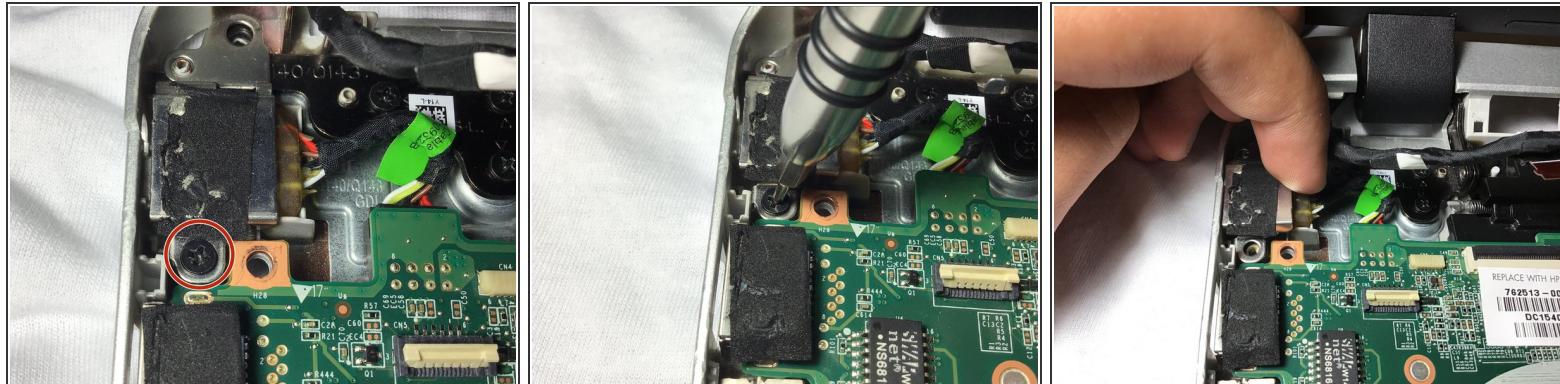
★ Notice that the motherboard is connected to multiple components of the computer that need to be disconnected first

Step 12



- Use a plastic opening tool to separate the speaker's cable from the mother board, by pushing on the speaker's plugged cable

Step 13



- Dismount the power supply cable holding the motherboard, by removing the 5.5 mm screws shown in the first picture on the right, using a Philips #0 screwdriver to remove the screws.

Step 14



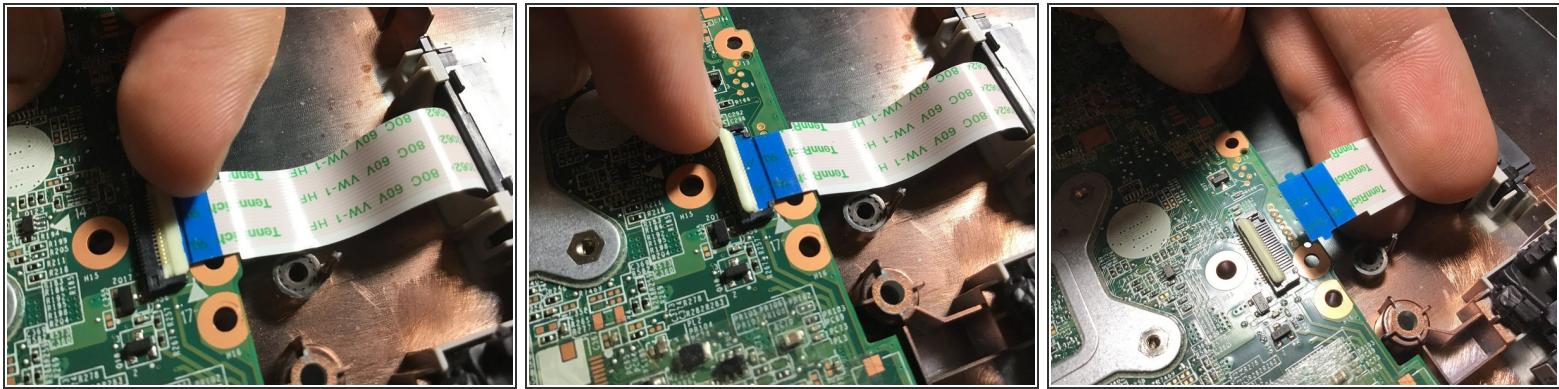
- Remove the metal cover to free the motherboard supply cable.

Step 15



- Undo the clip holding the display cable.
- Gently remove and disconnect the display cable.

Step 16



- Disconnect the disc drive cable by undoing the clip.
- Repeat the same step for the the hard drive cable.
- *(i)* Note there is no need to completely remove the hard drive, just undoing the cable from the motherboard should be sufficient.

Step 17



- Remove the 7mm screws holding the computer's motherboard in place.
- Using a magnetic screwdriver with a Philips #0 head, remove all of the visible screws on your laptop's motherboard corners.

Step 18



- After the motherboard is dismounted and all the cable are disconnected, remove the motherboard from the device.

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