



HP Pavilion 15-p214dx Motherboard Replacement

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

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INTRODUCTION

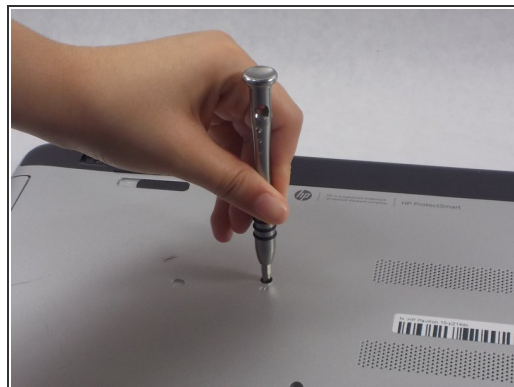
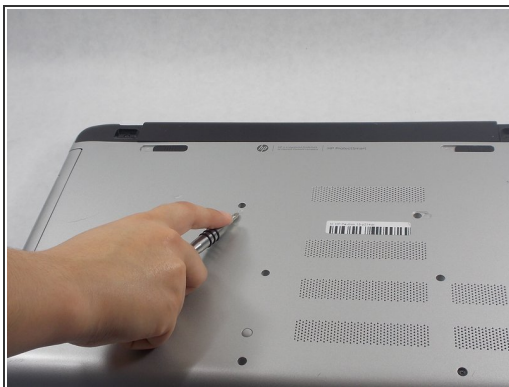
This guide discusses how to remove the HP Pavilion 15-p214dx's motherboard. To do this, you will need a Phillips #0 screwdriver, a plastic opening tool, and a flathead screwdriver. Since the motherboard is one of the laptop's most important parts, it should be handled and removed with care.



TOOLS:

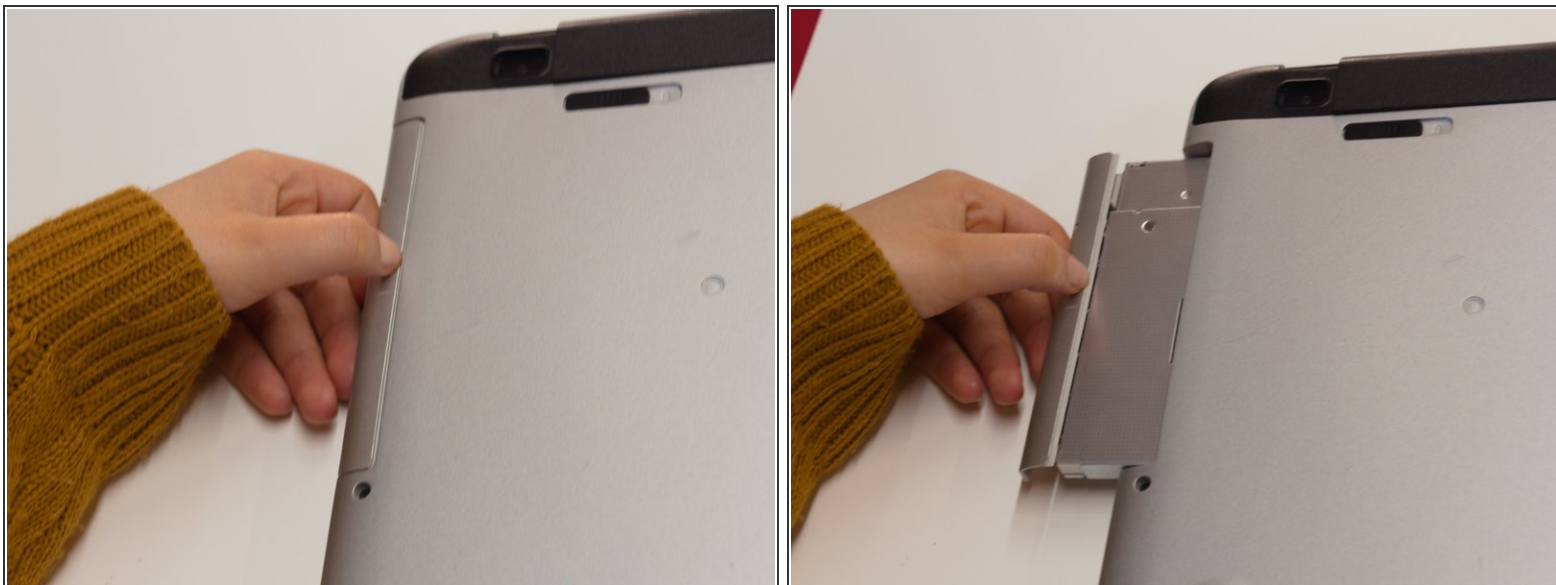
- [Phillips #0 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Flathead Screwdriver](#) (1)
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Step 1 — Disk Drive



- 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



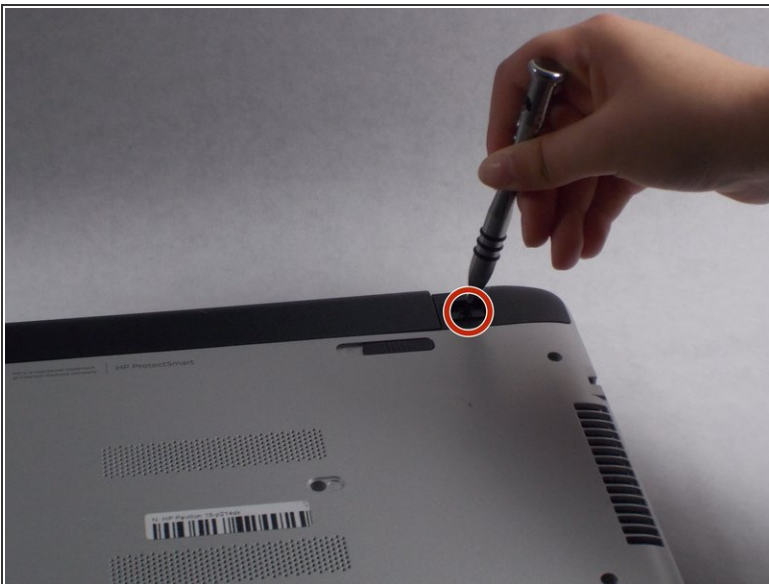
- Place your thumbnail between the disk drive exterior and your laptop's bottom cover.
 - ❗ If your nail is not long enough to do this, you can use a prying tool instead.
- Pull outwards to slide the disk drive out of its slot.
 - ★ Due to how the disk drive's slot is constructed, the drive must be properly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

Step 3 — Top Cover



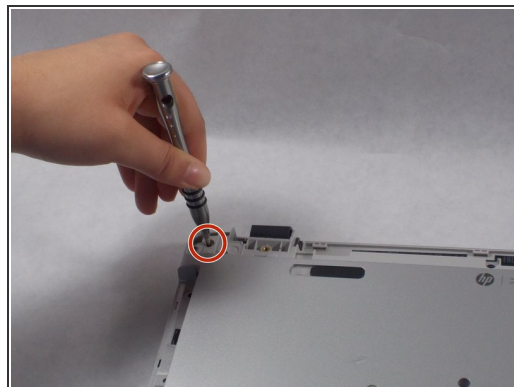
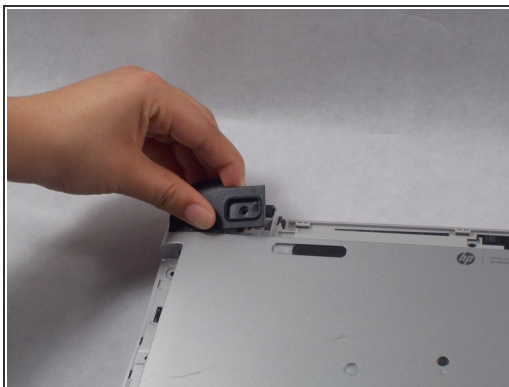
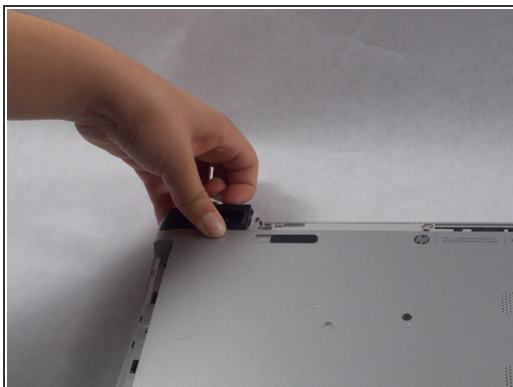
- Using a magnetic screwdriver with a Philips #0 head, remove all of the visible screws on your laptop's bottom face. These screws are all about 7.5mm long.

Step 4



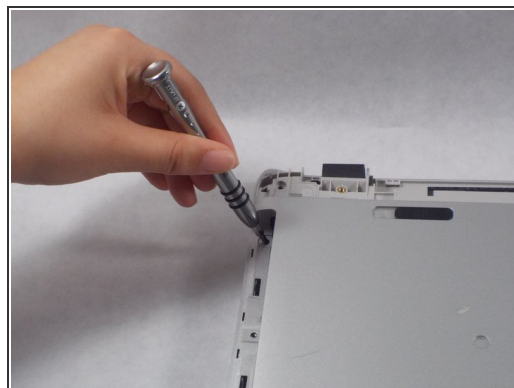
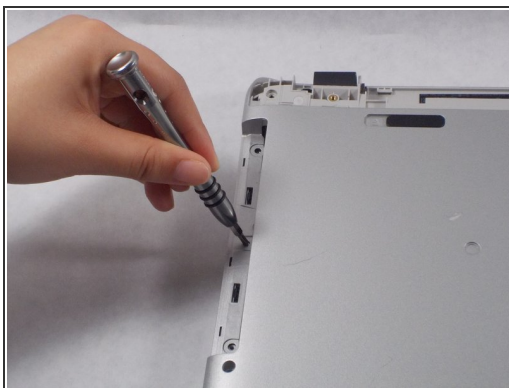
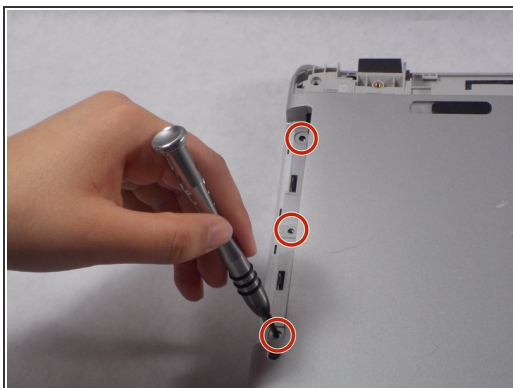
- Remove the 5.5mm screws holding the computer's end caps in place. The end caps are located to the left and right of the battery.
- ⓘ These screws are normally hidden underneath the end caps' rubber feet, which are not shown in the pictures. To remove these, gently pry them out of their slots with a 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



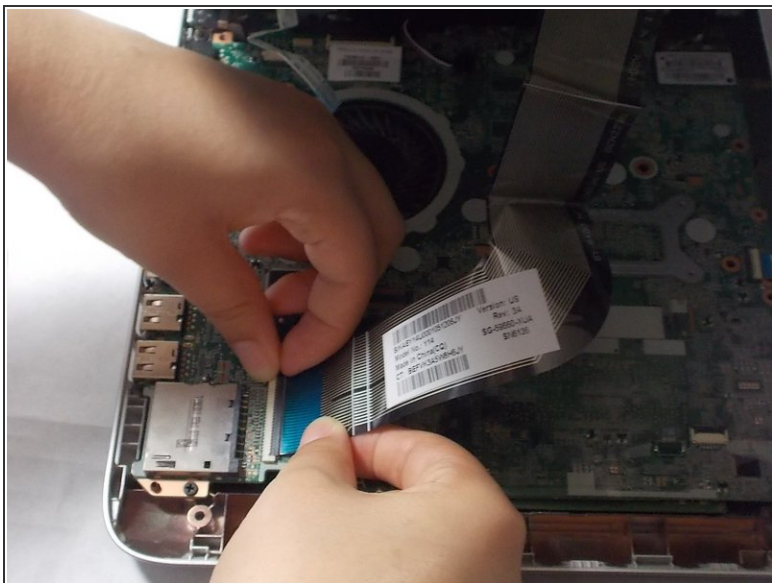
- Use a Philips #0 screwdriver to remove the three 5.5mm screws in on the edge of the disk drive slot.
- ⓘ These three screws are missing from the pictures.

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



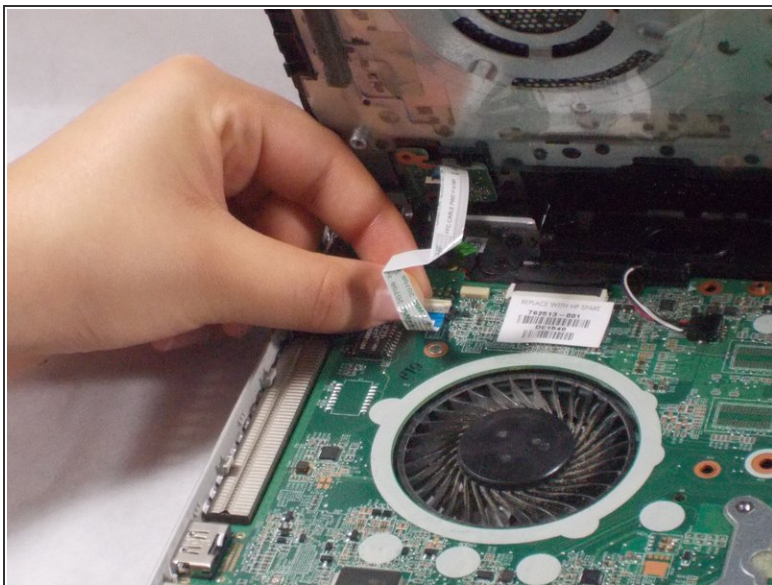
- While lifting the top cover, undo the clip holding the keyboard cable in place.
- Slide the cable out of its port.

Step 9



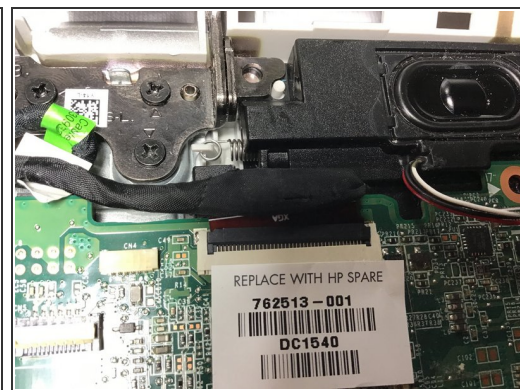
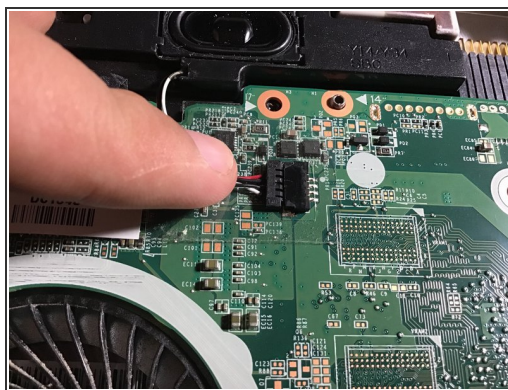
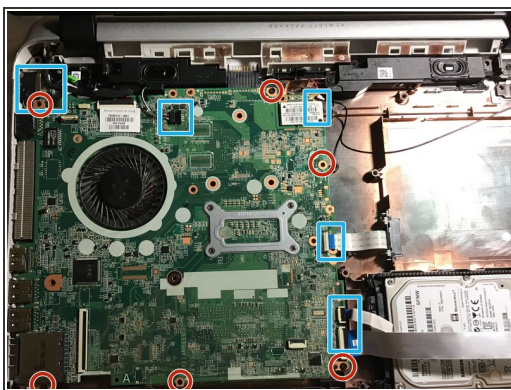
- Undo the clip holding the touchpad cable in place.
- Remove the touchpad cable from its port.

Step 10



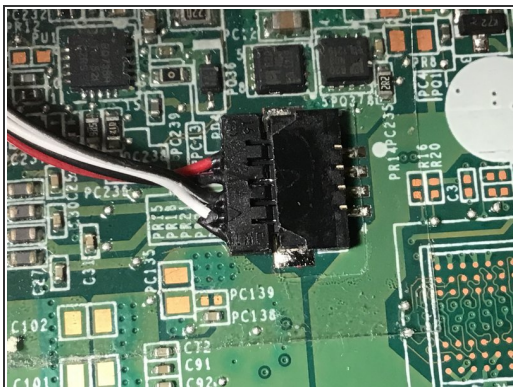
- Undo the clip holding the power button cable in place.
- Disconnect the power button cable from its port.
- Gently lift the top cover to remove it from the computer.

Step 11 — Motherboard



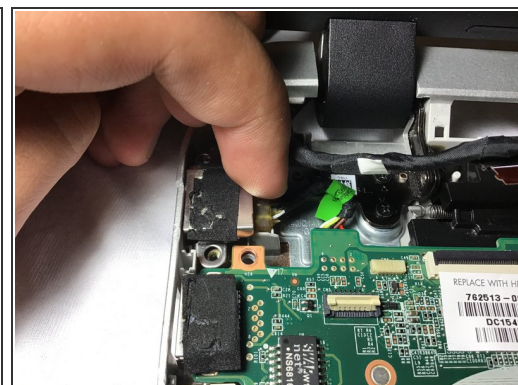
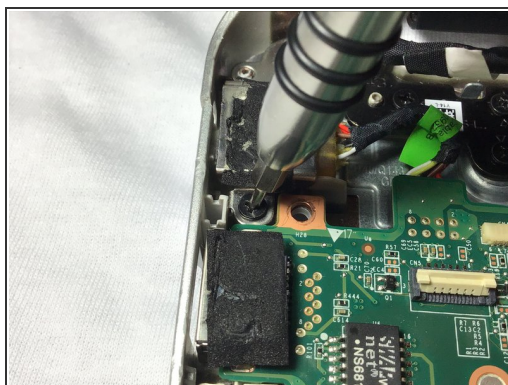
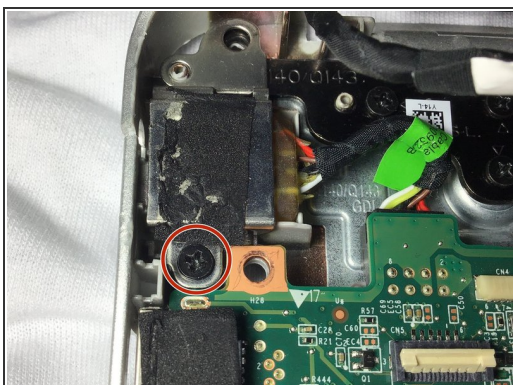
- ☑ Notice that the motherboard is connected to multiple components of the computer that need to be disconnected first

Step 12



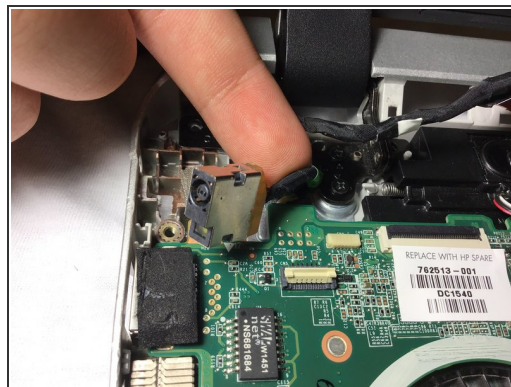
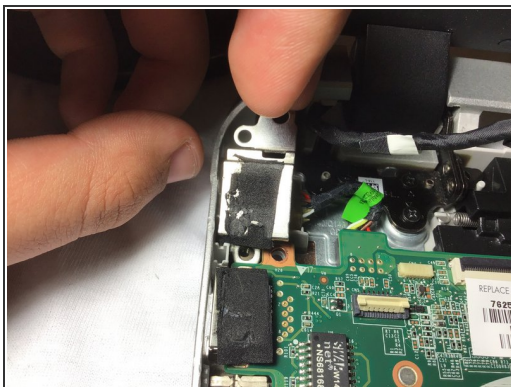
- Use a plastic opening tool to separate the speaker's cable from the mother board, by pushing on the speaker's plugged cable

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



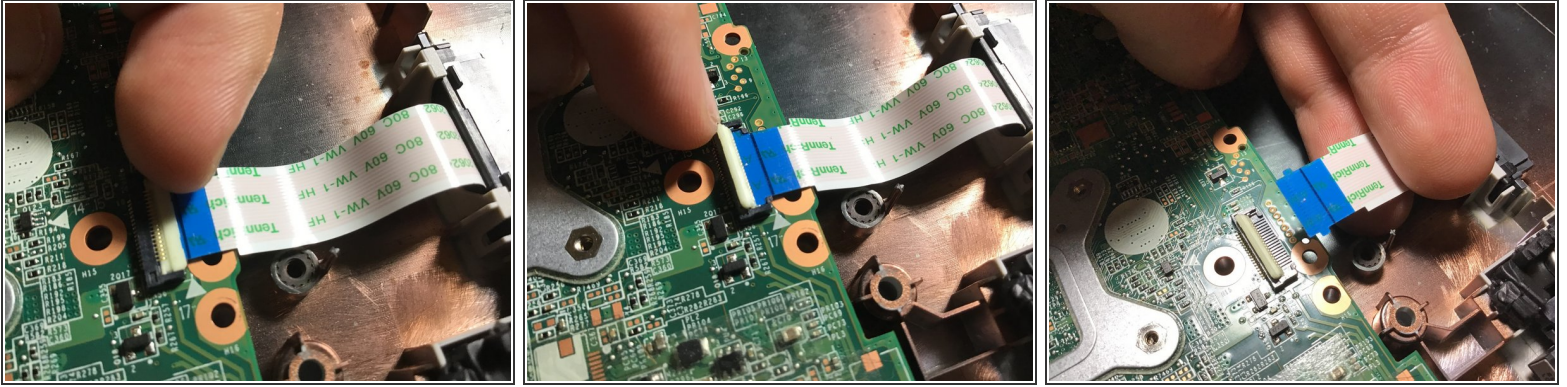
- Remove the metal cover to free the motherboard supply cable.

Step 15



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

Step 16



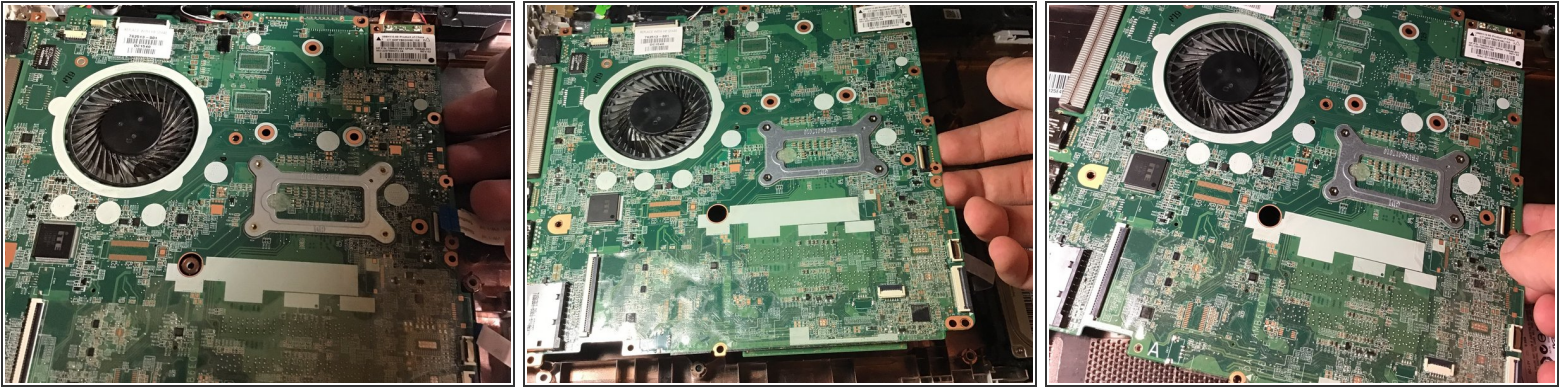
- Disconnect the disc drive cable by undoing the clip.
- Repeat the same step for the the hard drive cable.
- ⓘ Note there is no need to completely remove the hard drive, just undoing the cable from the motherboard should be sufficient.

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 dismantled and all the cable are disconnected, remove the motherboard from the device.

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