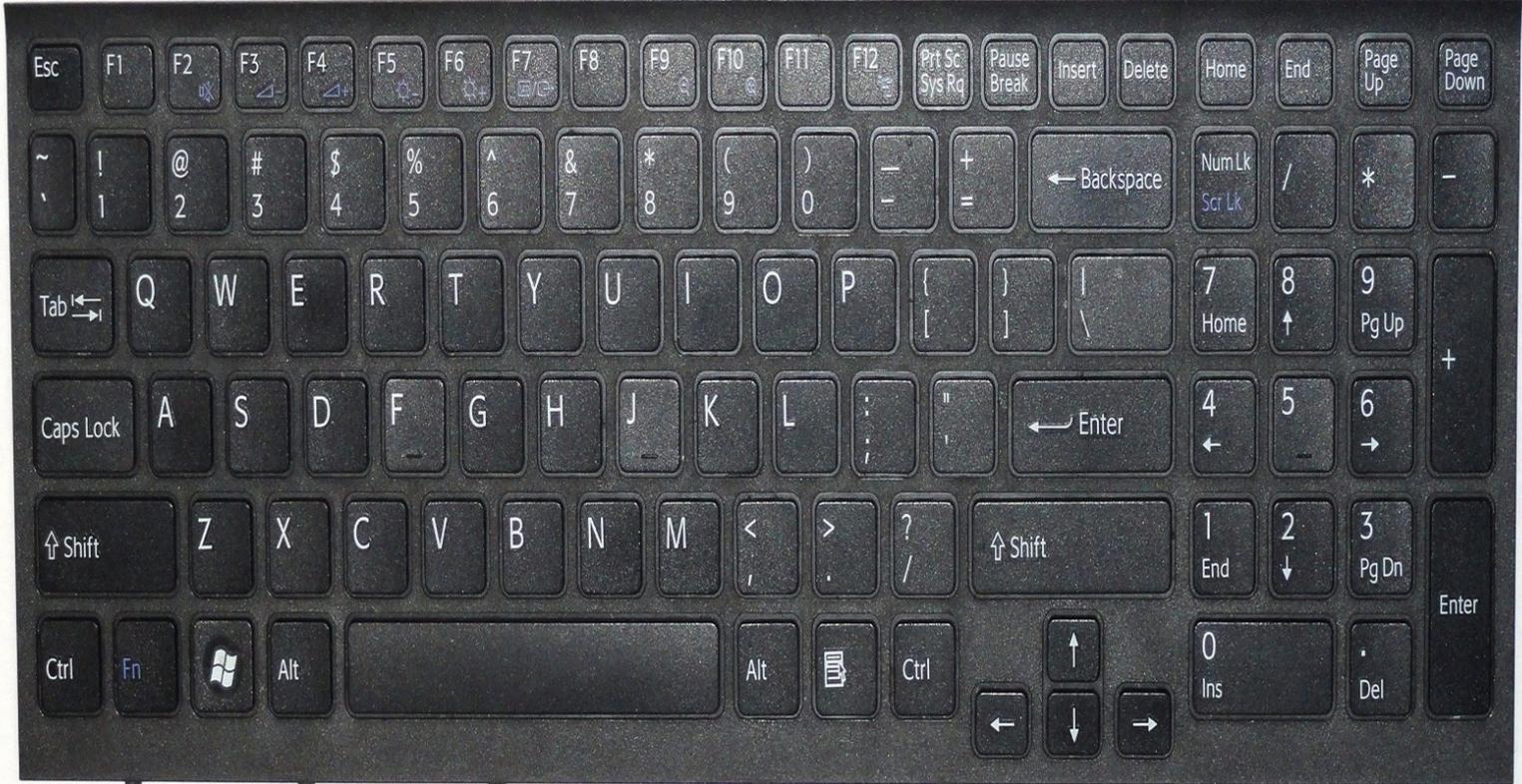




Sony VAIO VPC-EB33FM Keyboard Replacement

The purpose of this installation guide is to provide instructions on removing and installing the keyboard of the Sony VAIO VPC-EB33FM laptop.

Written By: Kevin



INTRODUCTION

This guide will inform readers on how to safely uninstall the keyboard of the Sony VAIO VPC-EB33FM laptop.

TOOLS:

- Phillips #00 Screwdriver (1)
- iFixit Opening Tools (1)

PARTS:

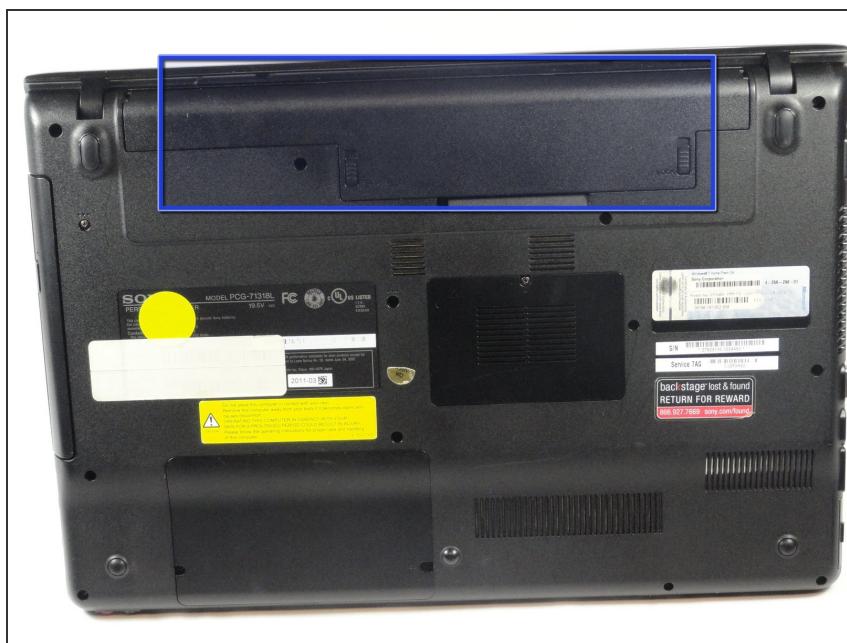
- Sony VGP-BPS22 Laptop Battery (1)
- 500 GB 5400 RPM Western Digital - Scorpio Blue SATA-II Hard Drive (1)
- PC3-10600 2 GB RAM Chip (1)
- PC3-10600 4 GB RAM Chip (1)

Step 1 — Battery



- If the laptop isn't turned off, then do so by holding down the power button.
- Turn the laptop onto its backside.

Step 2



- Locate the battery below the screen attachment.
- *(i)* The battery is shaped as a long rectangle with rounded edges.

Step 3



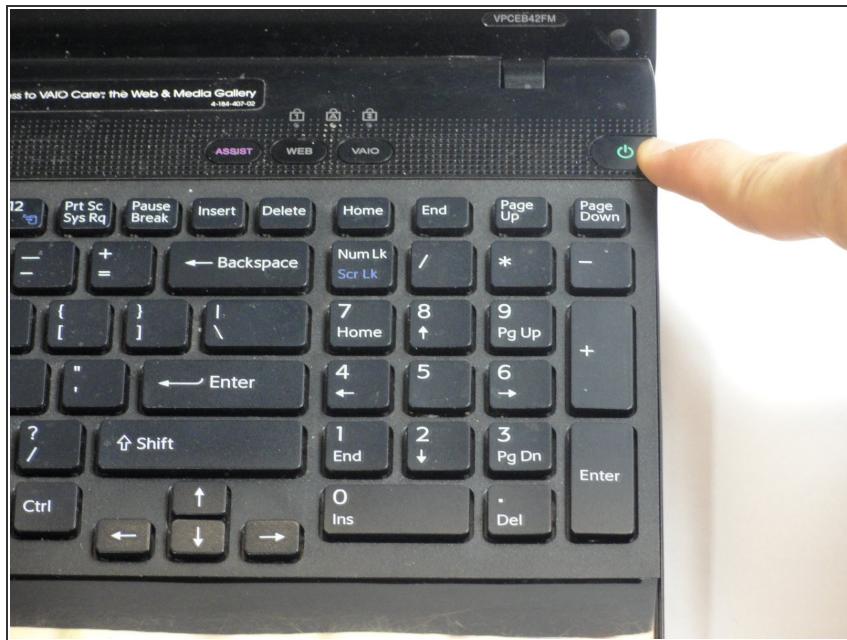
- Press into the release button while holding the unlock button in position.

Step 4



- Lift the battery out at the notch while holding the release button.

Step 5 — Hard Drive



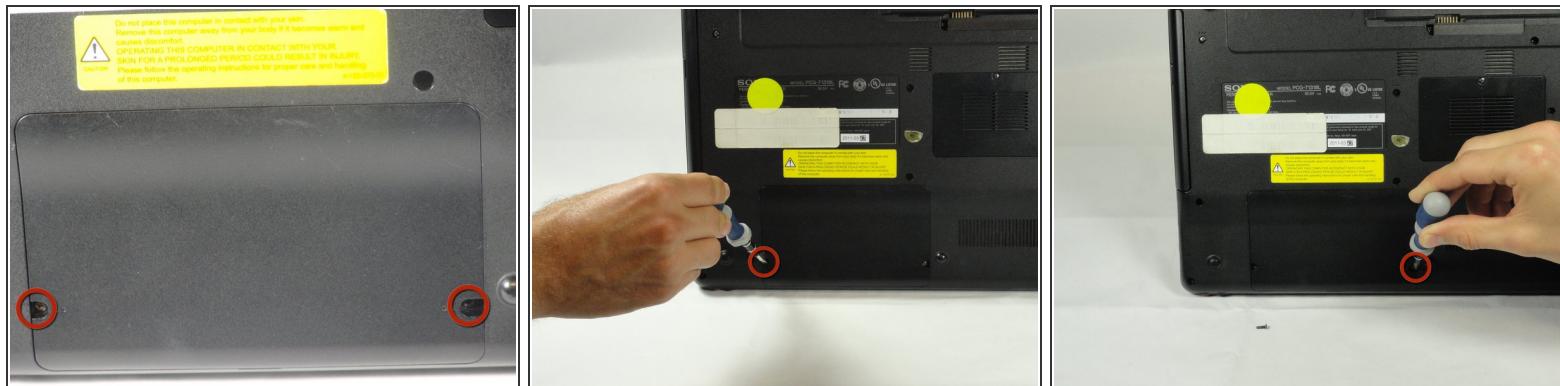
- Remove all charge from the laptop by holding down the power button for at least 5 seconds.

Step 6



- Turn laptop onto its backside and locate the hard drive cover panel.

Step 7



- Use a Phillips #00 screwdriver to remove the two 7.75-mm cover screws on the bottom corners of the panel.

Step 8



- Use a finger/fingernail to grip the notch at the bottom of the panel to lift it off.

(i) You may need to use your other hand to safely remove the panel.

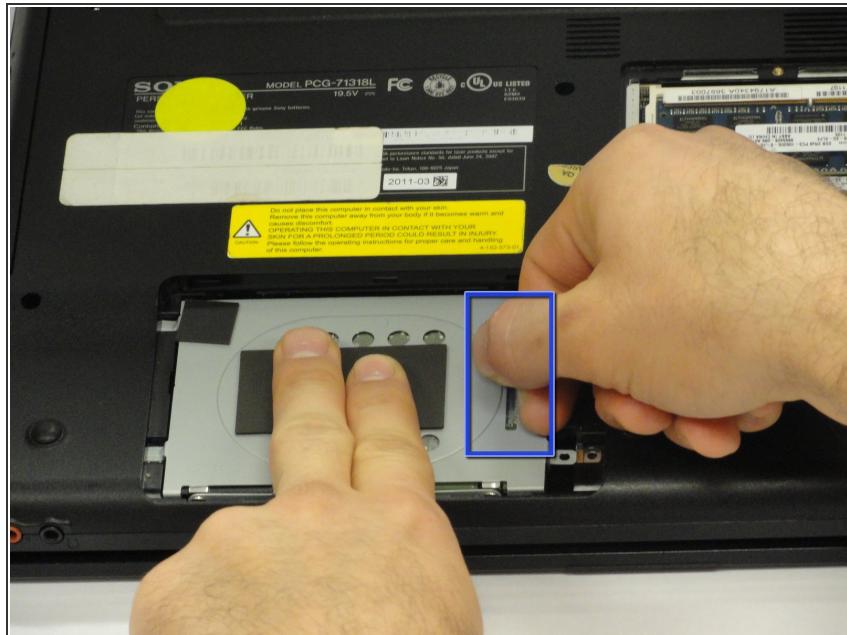
(i) You can also use a spudger for this step

Step 9



- ⓘ The hard drive should now be exposed.
- Remove the two remaining 7.75-mm screws using the Phillips #00 screwdriver.

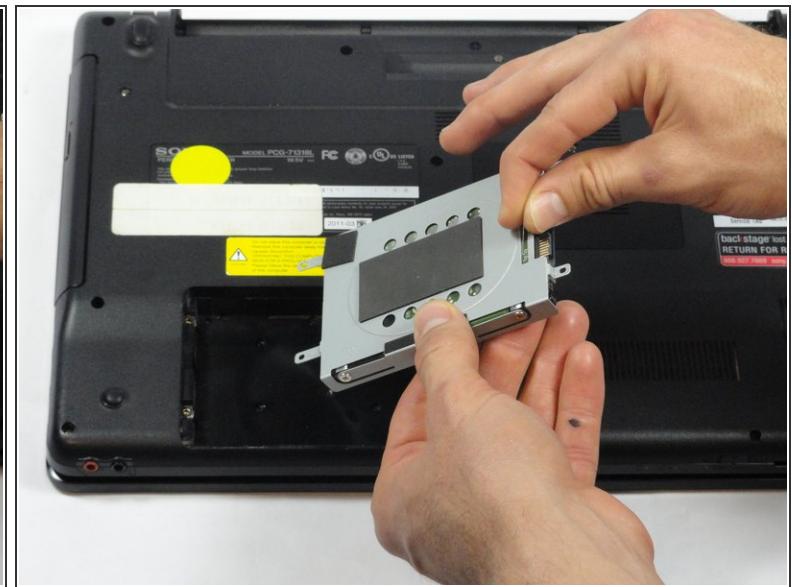
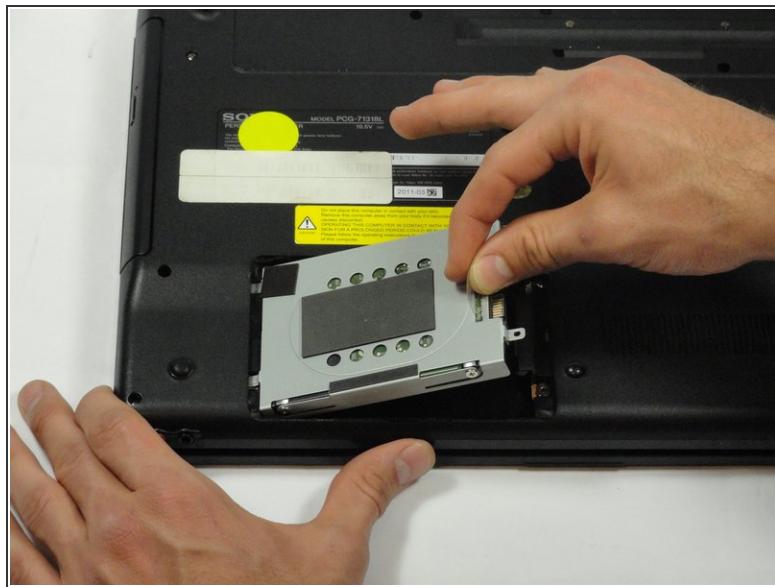
Step 10



- Grab the tab between your thumb and index finger.
- Hold the hard drive securely in a horizontal position using your other hand.
- Push the hard drive to the left using the plastic tab to disconnect it from the laptop.

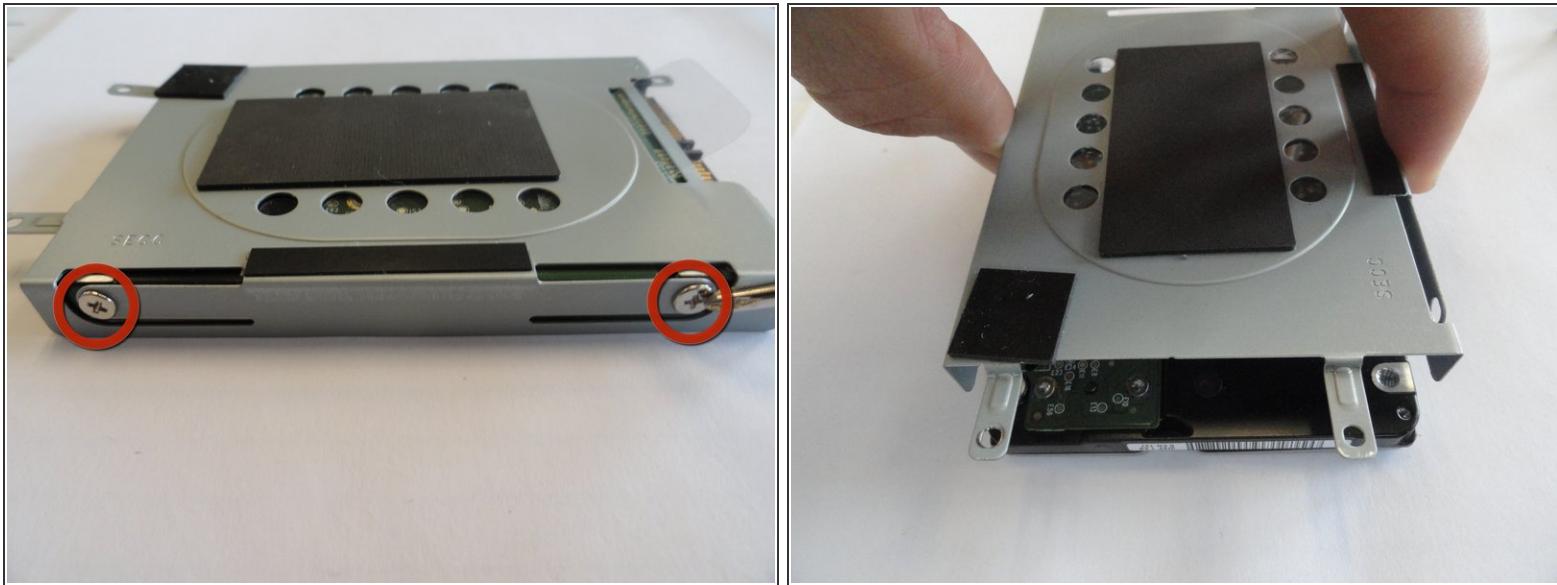
! To prevent damage of the connection on the hard disk drive or the laptop, perform this task slowly and with care.

Step 11



- While still holding the plastic tab, lift the right side of the hard drive out at a 45° angle.
- Pull the hard drive out.

Step 12



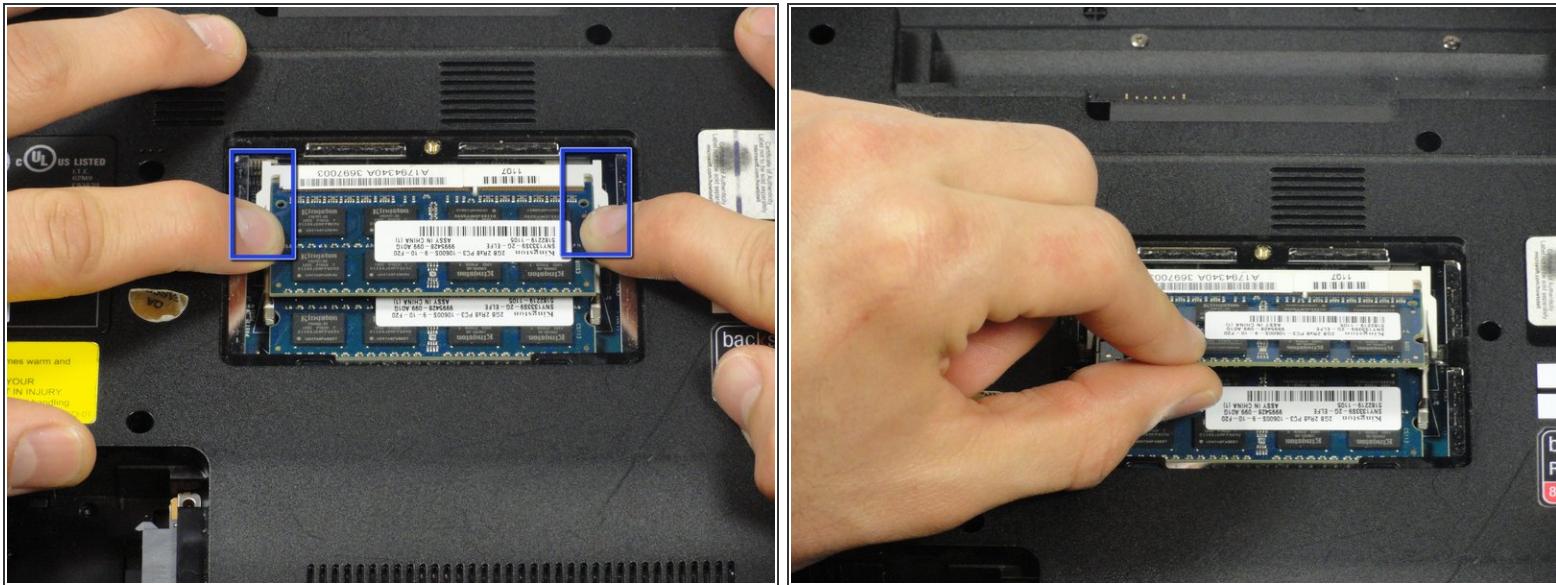
- If you need to remove the bracket from the hard drive, follow the next few steps:
 - Remove the two 3.67-mm screws from either side of the bracket with a Phillips #00 screwdriver.
 - Lift the bracket off the hard drive.

Step 13 — RAM



- Remove the one screw with a Phillips #00 screwdriver.
- The screw cannot be removed from the RAM casing cover.

Step 14



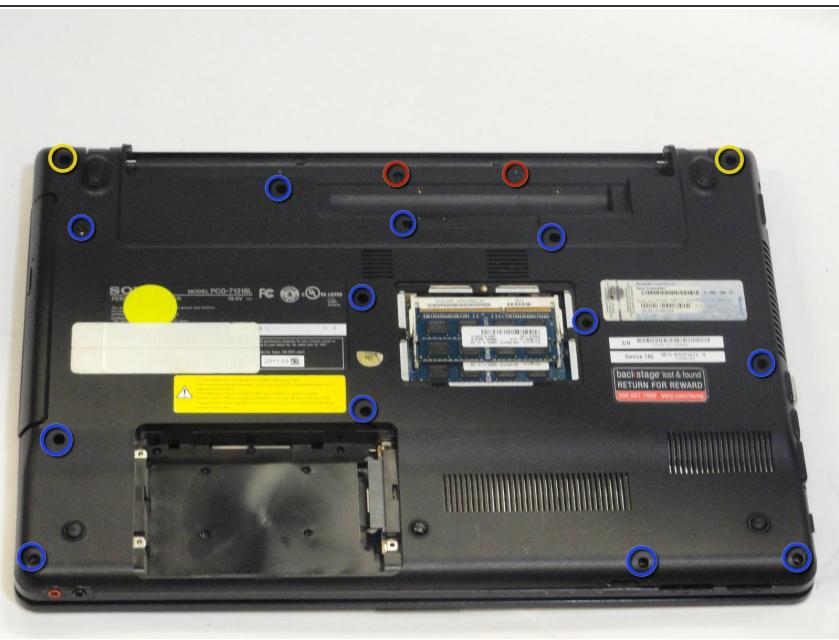
- Pull the two retaining arms away from the center of the RAM chip.
- The RAM will make a "pop" sound and the RAM stick will rise for ease of handling.

Step 15



- Pull the RAM stick out of its socket.
- To remove the second stick of RAM, repeat steps six and seven.
- When installing RAM, make sure sticks are firmly in place or the computer will not register them.

Step 16 — Keyboard



- Using a Phillips #00 screwdriver remove the following screws securing the back cover :
 - Two 3.8-mm screws
 - Two 8.9-mm screws
 - Twelve 7.75-mm screws

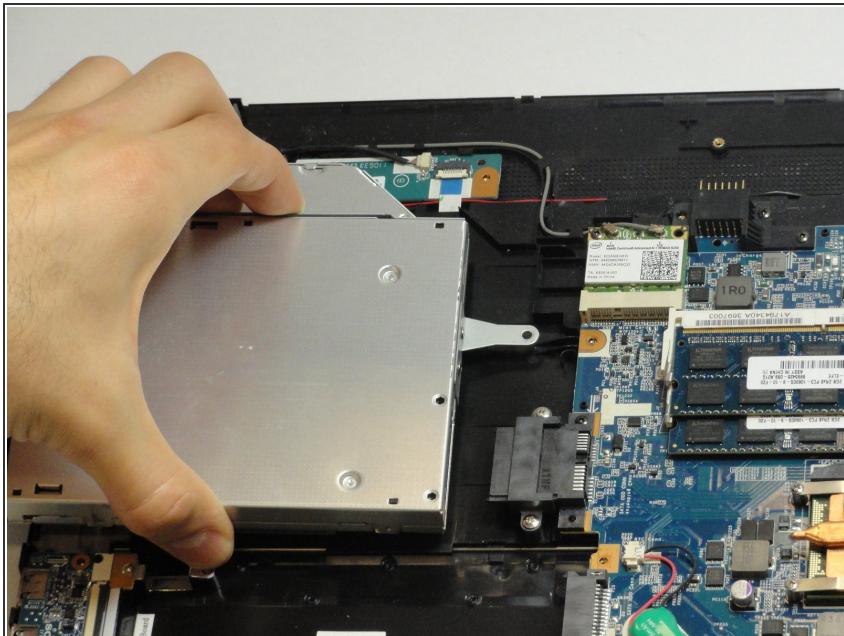
Step 17



 Check to make sure all screws have been removed.

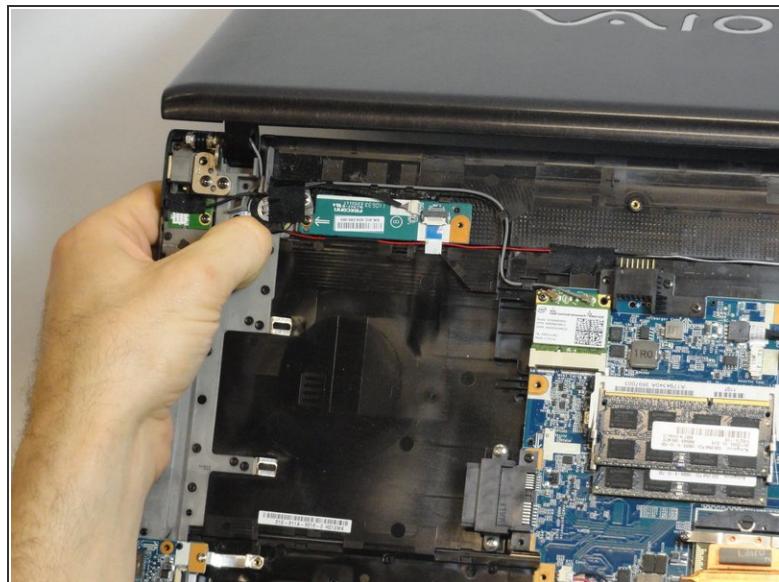
- Using both hands separate the back cover by lifting from the back and working around the perimeter to release tabs.

Step 18



- Uninstalling the keyboard may require a second set of hands.
- During the removal of the back cover, a screw that attaches the optical drive to the laptop is also taken out. This means the optical drive is ready to be removed.
- Remove the optical drive by sliding it out.

Step 19



- Once the optical drive is removed, locate the keyboard ejection button and press down on it until you hear a snap.
- Once you hear this sound, it means that a section of the keyboard has been ejected.

Step 20



- Turn the laptop onto its frontside and unfold the laptop so the keyboard is fully visible.
- Locate the area where the section of the keyboard was ejected.

Step 21



- Start to pry out the keyboard with your hands.

⚠ Be careful not to break any of the hooks that attach the keyboard to the laptop.

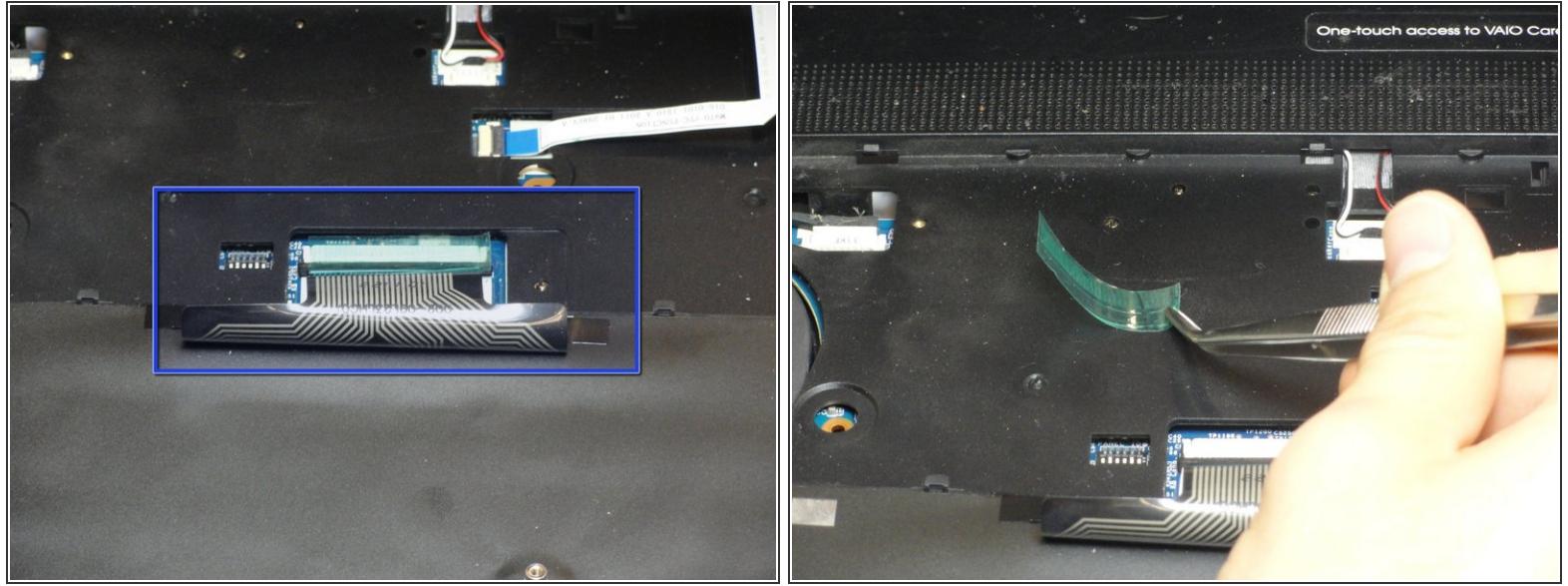
(i) If it seems difficult to remove the keyboard with your hands, then use a plastic opening tool.

Step 22



- ⓘ Remain cautious to not break the hooks.
- Continue all the way around the keyboard until you can detach it from the laptop.

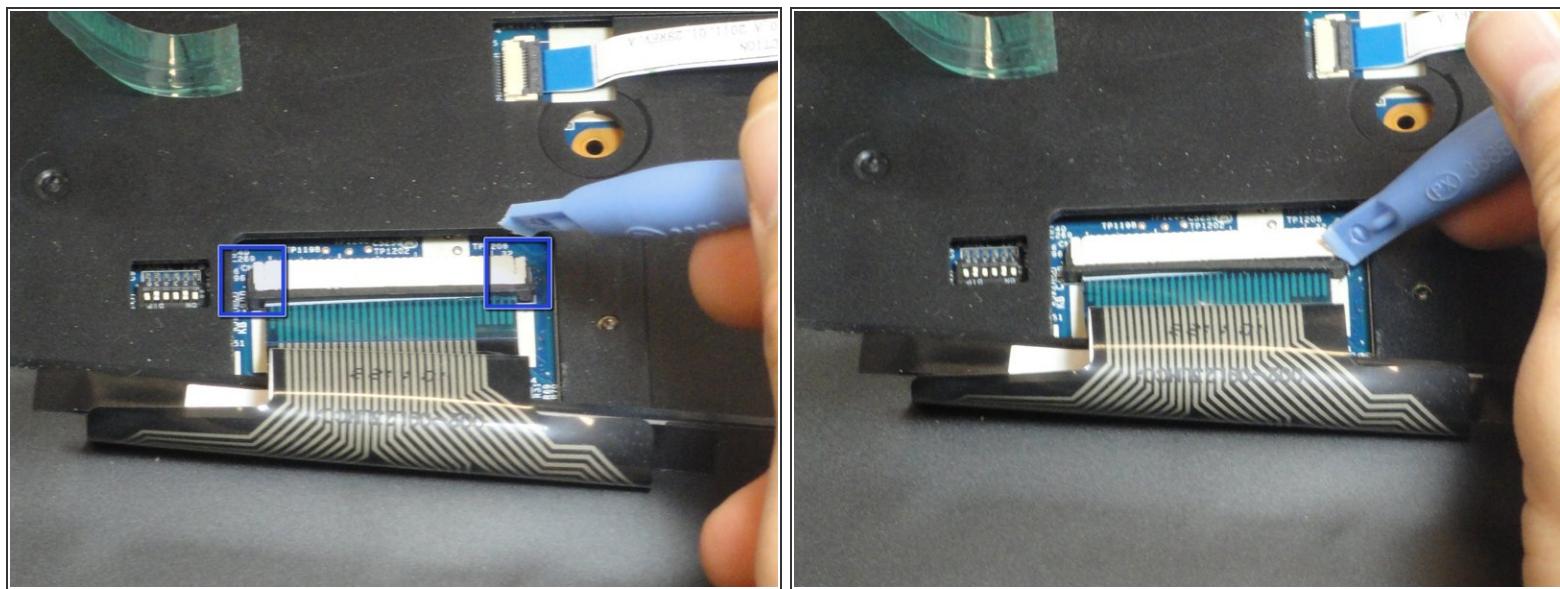
Step 23



⚠ Do not immediately pull the keyboard away from the laptop. There is still an attachment between the keyboard and laptop.

- Turn the keyboard on its face and locate the green tape and the ribbon attachment.
- Using the metal tweezer, remove only the green sticker.
- Place the sticker at any location as long as you remember to use it for installing the keyboard.

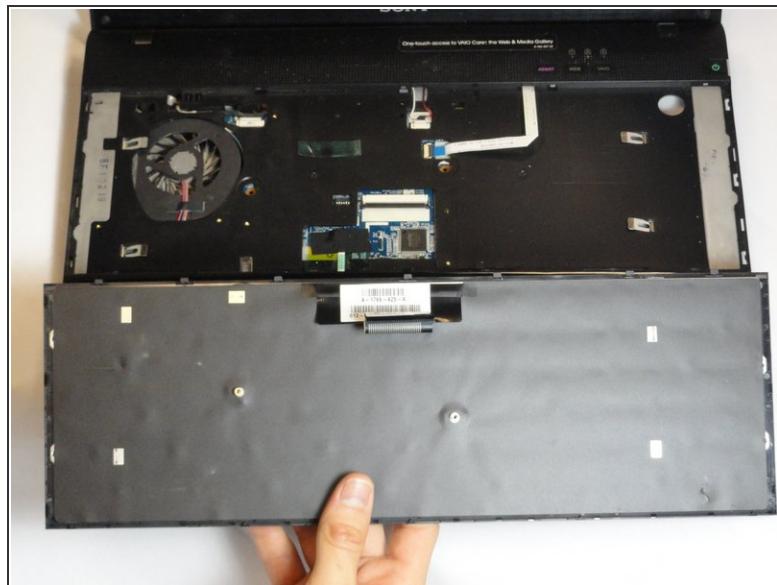
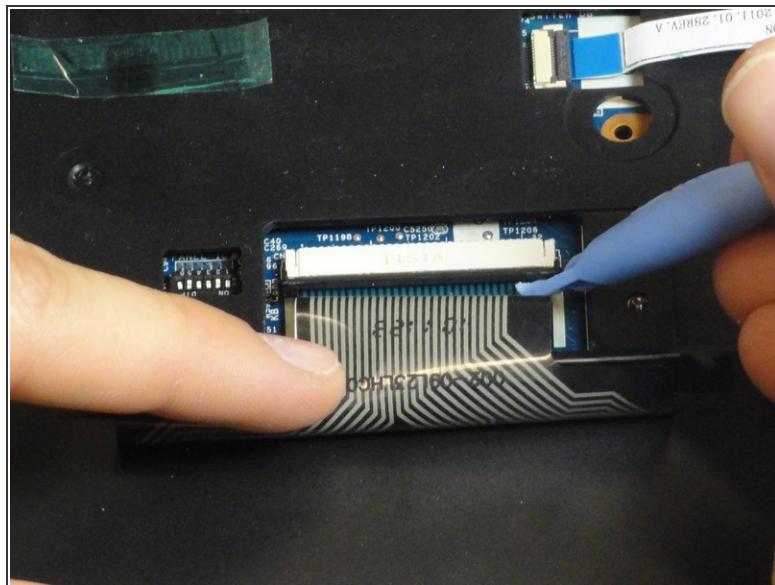
Step 24



- Locate the black retaining arms.
- Using the plastic opening tool, pull the retaining arms out.

(i) The retaining arms will not come off completely.

Step 25



(i) It is safe to touch the ribbon attachment.

- Lift the retaining arms with the plastic opening tool at an angle so that the ribbon attachment can be pulled out.

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