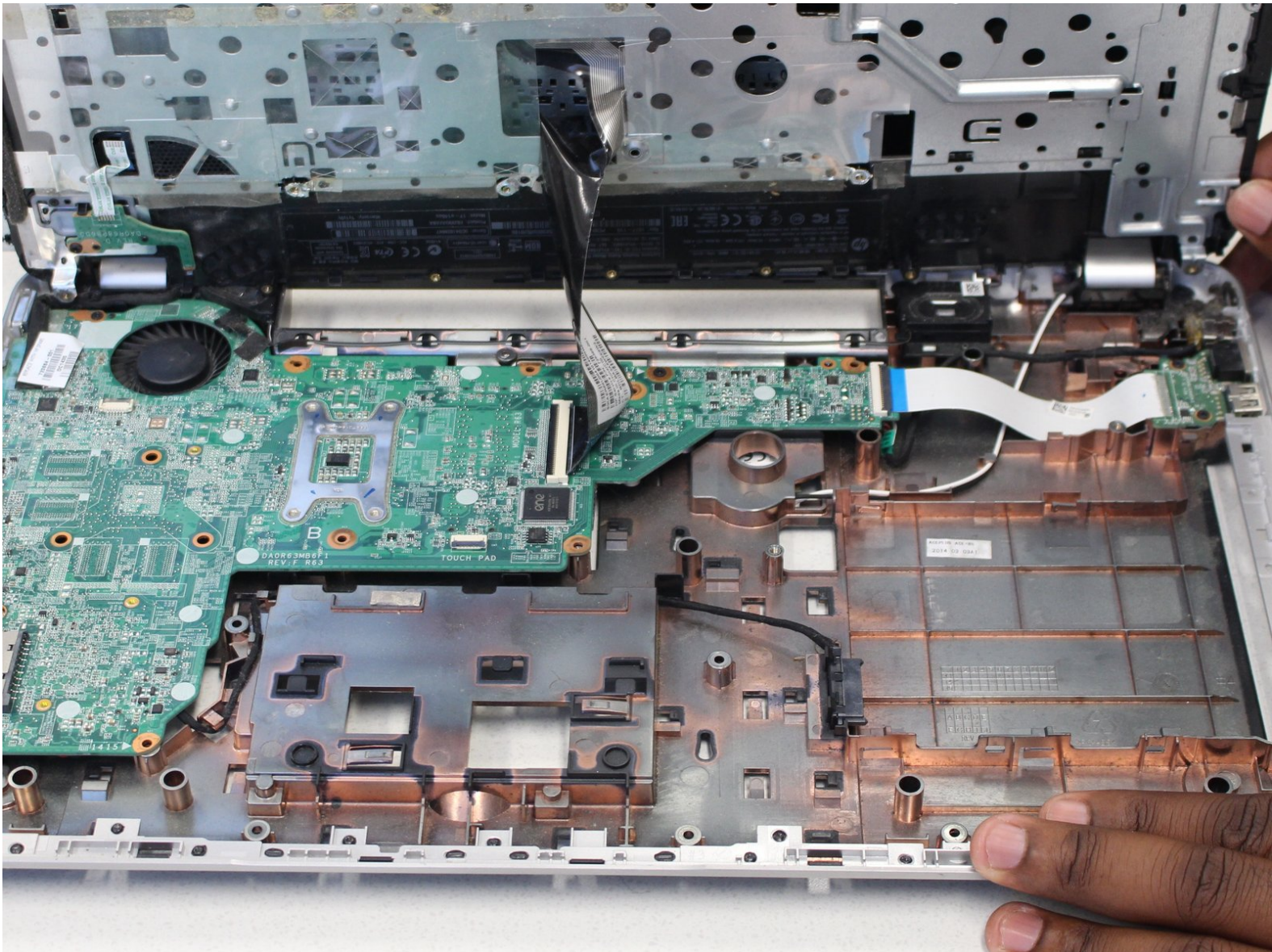




# HP Pavilion 17-e146us Motherboard Replacement

This guide will show how to replace the Motherboard of your HP Pavilion 17-e146us.

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## INTRODUCTION

The Motherboard is a important component of the laptop. It is responsible for connecting components and communicating between various electronic parts of the device, such as the memory and and the central processing unit. This guide shows how to replace a faulty motherboard with a new motherboard. For more information about the effects of a faulty motherboard please check out our [troubleshooting page](#). Please be aware that the motherboard is connected to many parts of the device and requires a lot of time to disassemble and re-assemble.

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### TOOLS:

- [Spudger](#) (1)
  - [iFixit Opening Tools](#) (1)
  - [Phillips #0 Screwdriver](#) (1)
  - [Wedging Tool](#) (1)
  - [Tweezers](#) (1)
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## Step 1 — Battery



- Turn the device over.

## Step 2



- Move the battery lock switch to the right to unlock. The battery release button will unlock the battery from the computer.
- The battery release button is located above the the battery.

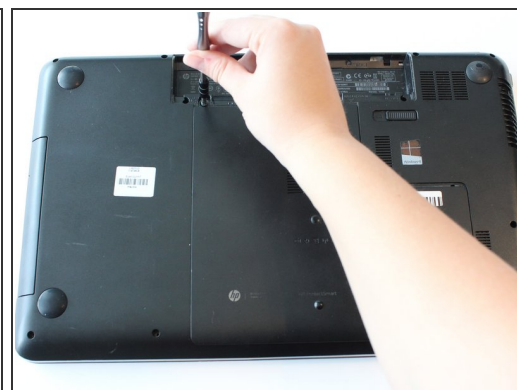


## Step 3



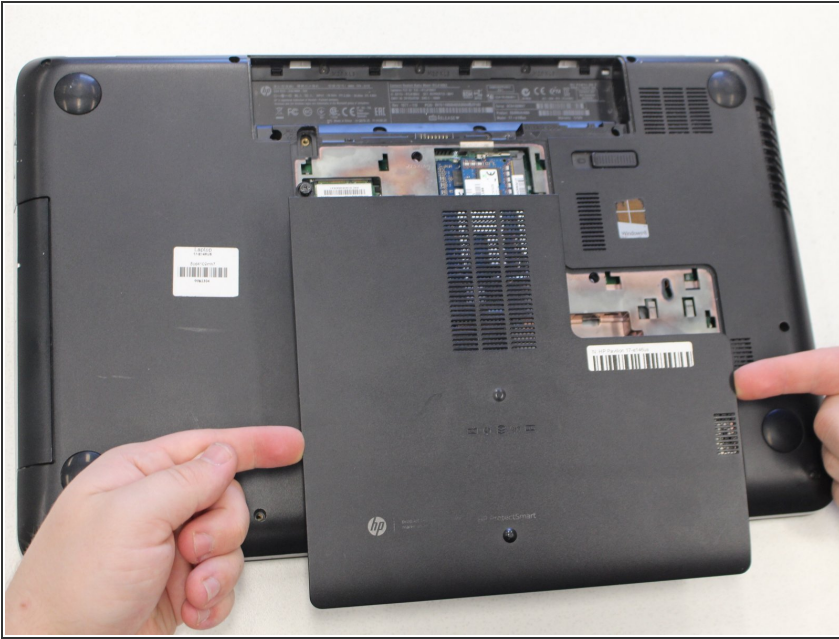
- The battery will unlock from the computer.
- Remove the unlocked battery from the computer.

## Step 4 — Keyboard



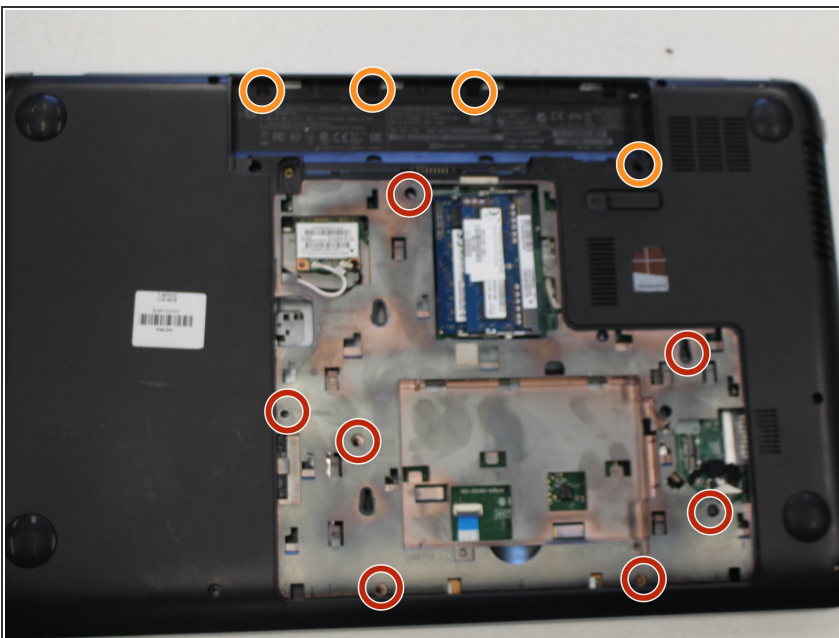
- Remove the 6.25 mm screw in the left-lower hand corner of the battery port using a Phillips head screw driver.

## Step 5



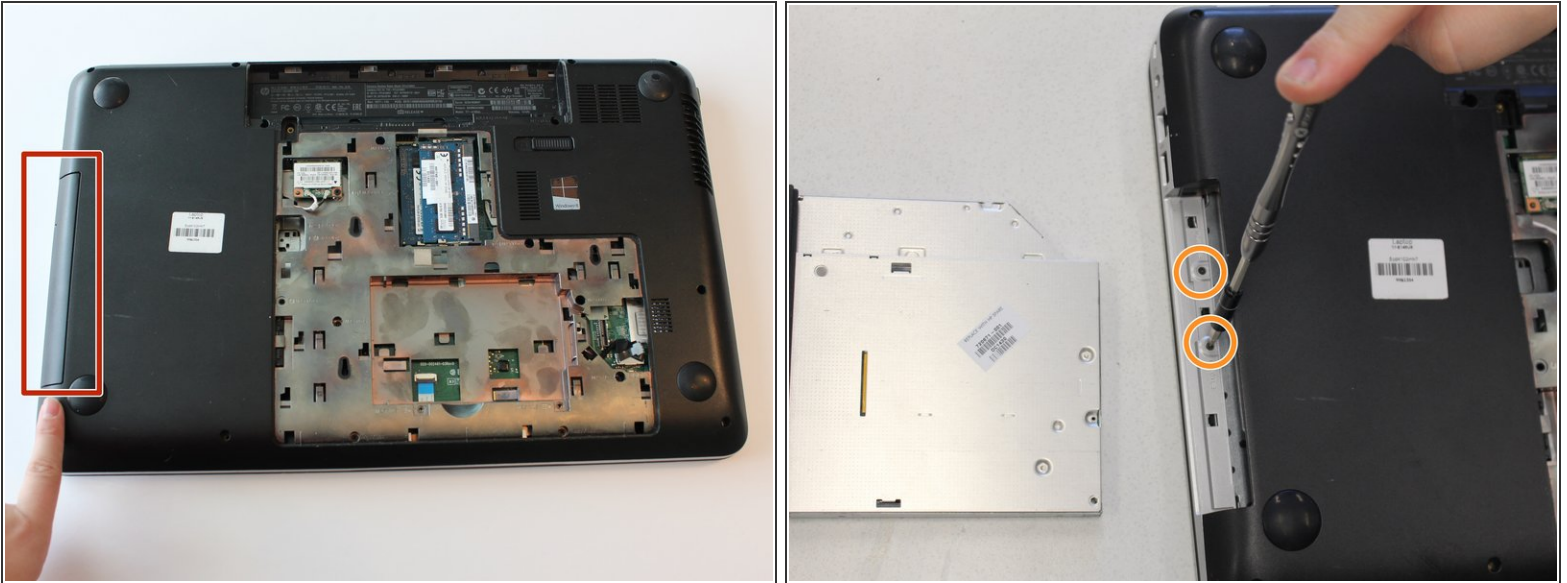
- Remove the HP protect smart ventilation case.
- ⓘ The smart ventilation is a part of the back cover of the device

## Step 6



- Remove seven 6.5 mm screws using a Phillips #0 screwdriver.
- Remove four 3.0 mm screws located in the charger port using a Phillips #0 screwdriver.

## Step 7



- Pull and remove the disk drive.
  - ⓘ The disk drive is located on the left side of the device when it is turned over.
- Remove two 3.00 mm screws on the inside of the disk drive using a Phillips screwdriver.

## Step 8



- Apply firm pressure inside the release port using a narrow tool such as a screw driver or tweezers.
  - ⓘ The release port releases the keyboard.

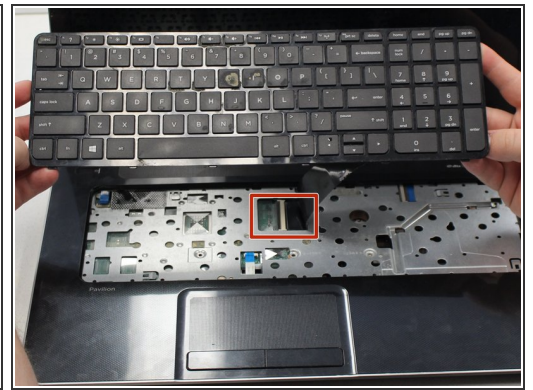


## Step 9



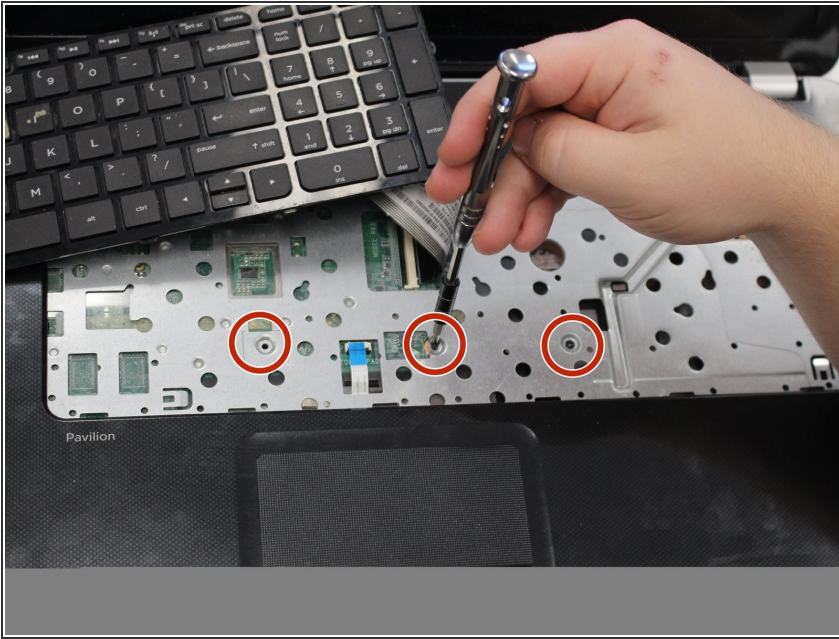
- Flip device over so that the cover is facing towards you

## Step 10



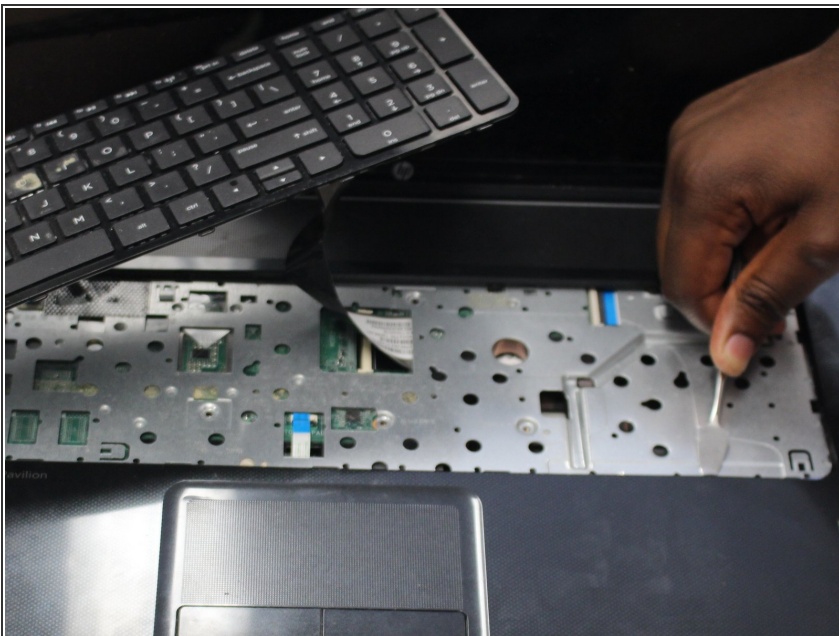
- Open device. The keyboard should be separate from the inside panel.
  - ❗ If the keyboard does not automatically pop out, use a spudger or opening tool along the edge of the front panel and the keyboard to pop the keyboard out.
- Detach the keyboard's cable connector from the motherboard.

## Step 11 — Motherboard



- Remove three 6.5 mm Phillips screws located underneath the keyboard using a Phillips #0 screwdriver.

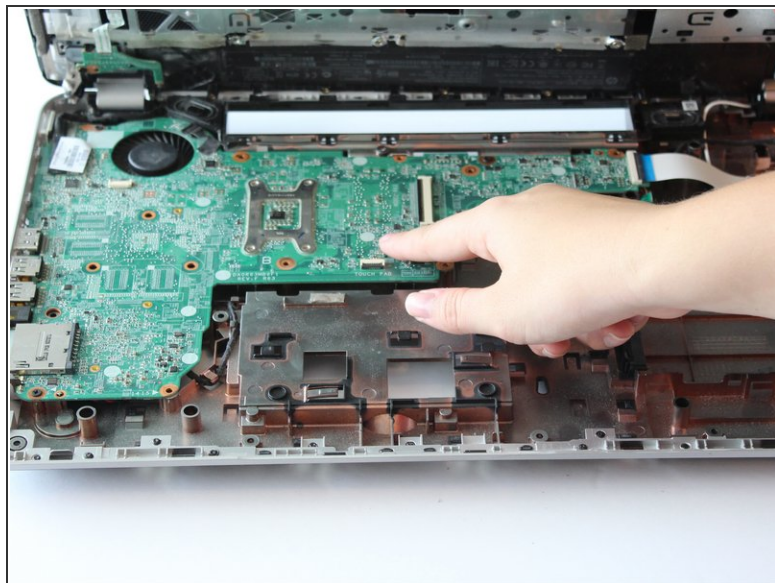
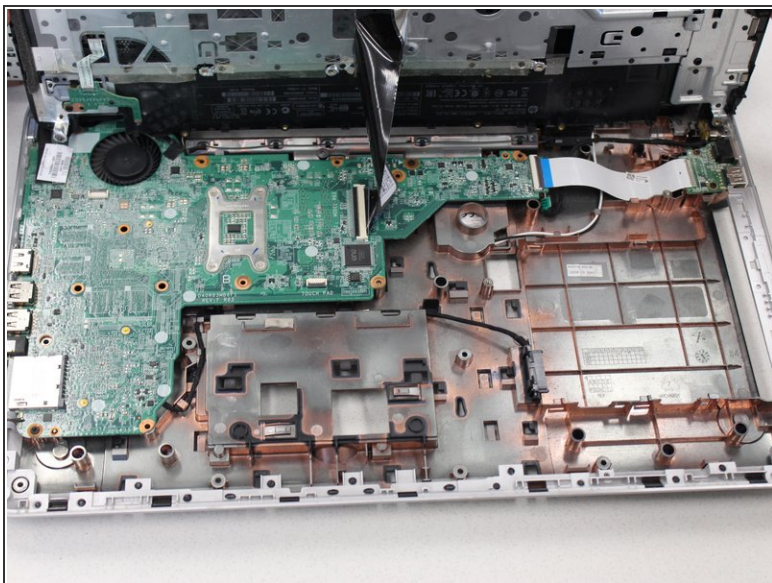
## Step 12



- Place wedge tool in-between the front panel and the cover underneath the keyboard
- Use wedge tool to pop the two covers apart.
- ⓘ This may require some force.



## Step 13



- Remove the motherboard using your hands
- ⓘ The motherboard is large green portion located inside the device

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