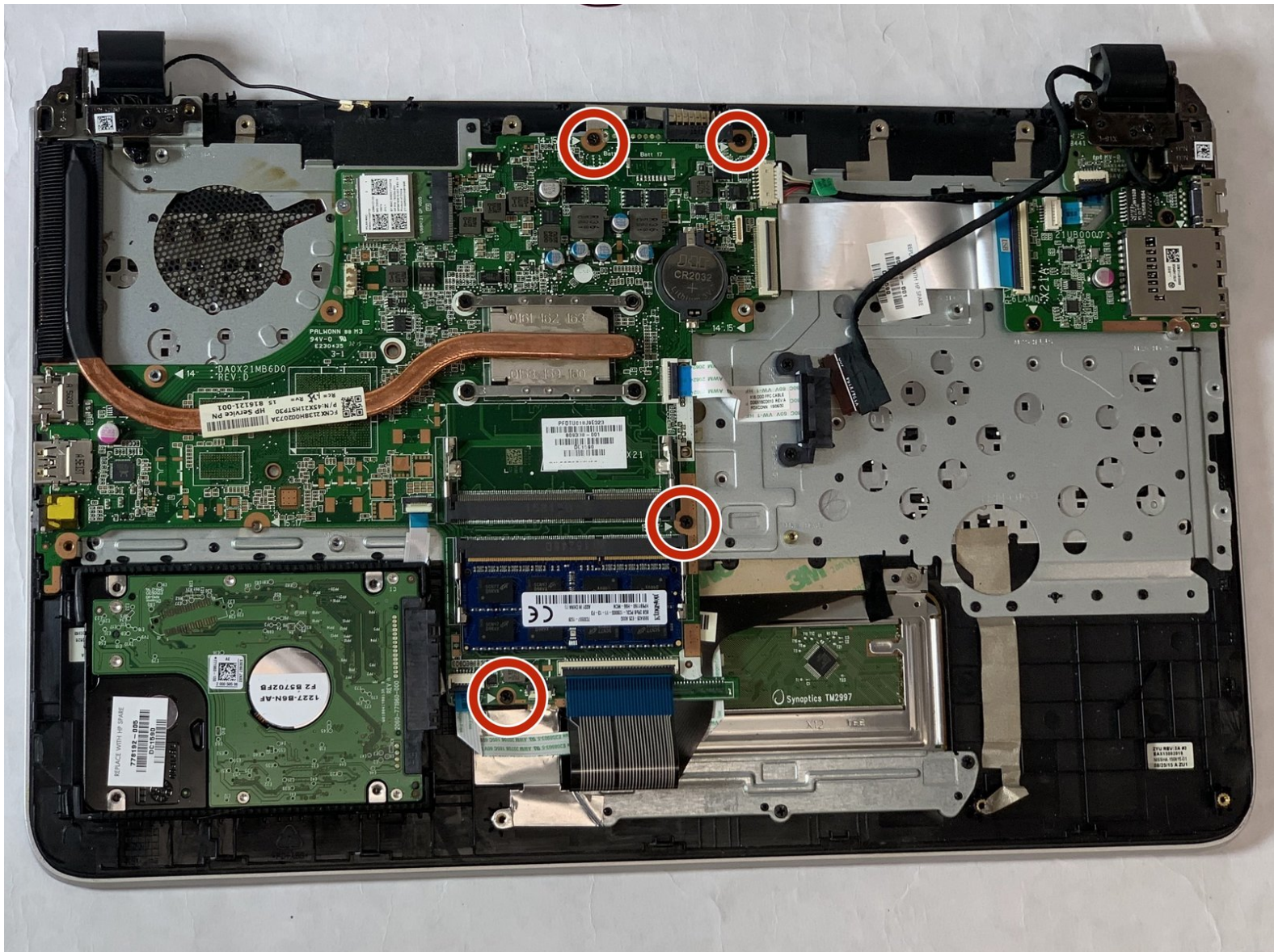




# HP Pavilion 15-AB153NR Motherboard Replacement

This guide will cover how to remove and replace the motherboard for the HP Pavilion 15-AB153NR laptop.

Written By: Christopher Hoffman



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## INTRODUCTION

The motherboard should be replaced if the laptop will not turn on with the charger plugged in. To avoid damaging electronic components, use a static discharge wrist strap. The only skill needed to complete this project is knowing how to use a screwdriver. With twenty minutes and a new motherboard, you can repair your computer for a fraction of the cost of replacing it.



### TOOLS:

- [Phillips #1 Screwdriver](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [Phillips #0 Screwdriver](#) (1)

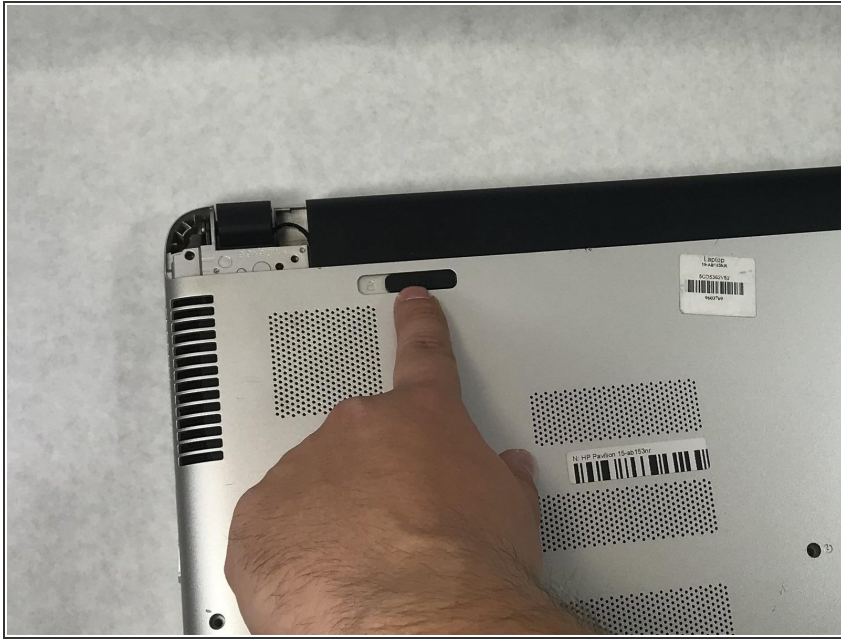


### PARTS:

- [HP 809338-001 Motherboard](#) (1)



## Step 1 — Battery



- ❗ Ensure computer is turned off and unplugged.
- Slide the battery lock latch on the left to unlock. Slide from left to right to unlock.

## Step 2



- Slide the battery release latch on the right with continuous force from right to left.
- Once battery pops, you may release latch.

### Step 3



- Grab the battery, rotating upwards and away from you. This will remove the battery.

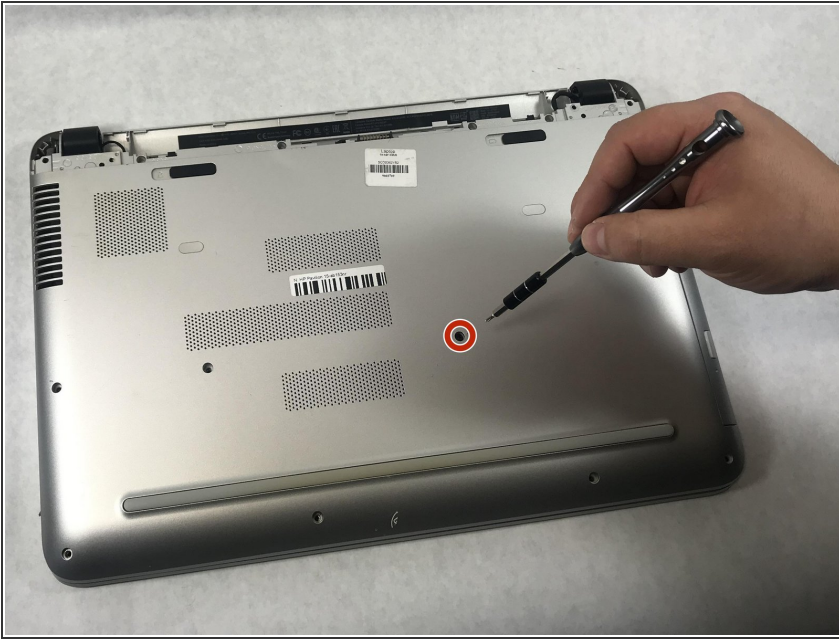
### Step 4 — CD/DVD Drive



- ⚠ Make sure computer is powered off and unplugged.
- Flip computer over so that the bottom is facing the ceiling and the hinges are farthest from you.



## Step 5



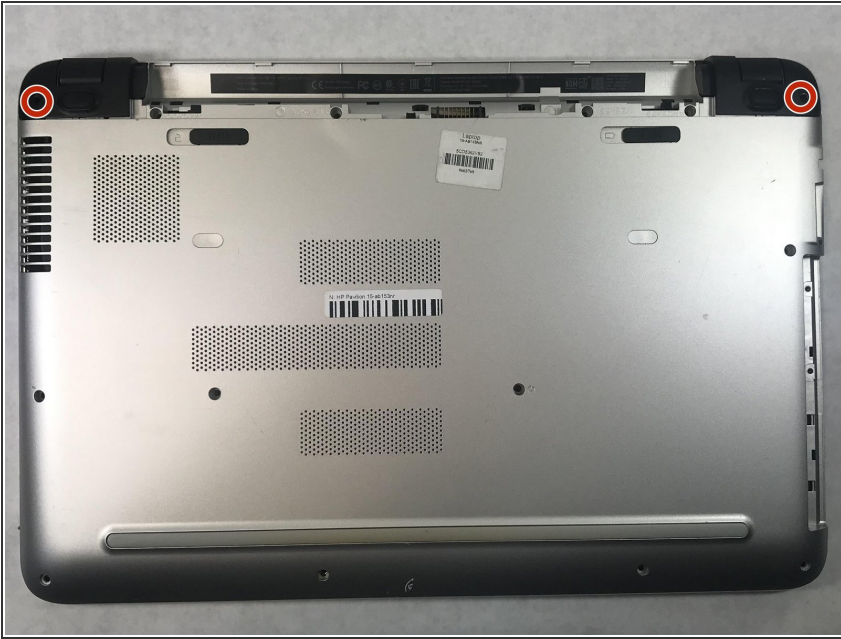
- Using the Phillips #000 screwdriver, remove the 7 mm screw on the middle right.
- ⓘ There is an icon that looks like a CD stamped into the back panel near this screw.

## Step 6



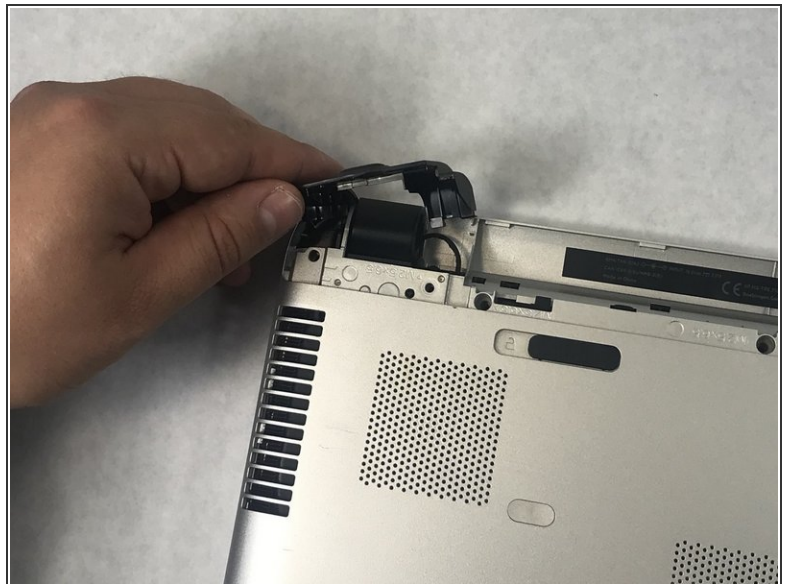
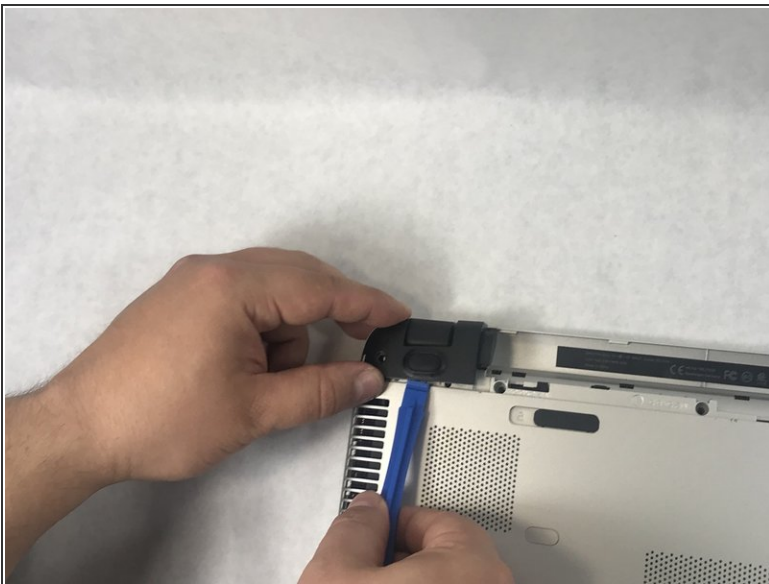
- Slide the drive out from the right side of the device.

## Step 7 — Bottom Case Cover



- Using the Phillips #1 screwdriver, remove the two 12mm screws located on the hinge covers.

## Step 8



- Lift the corner covers off of the computer using a prying tool.



## Step 9



- Remove the six 6.5mm screws using a Phillips #1 screwdriver that are located near the top of the laptop.

## Step 10



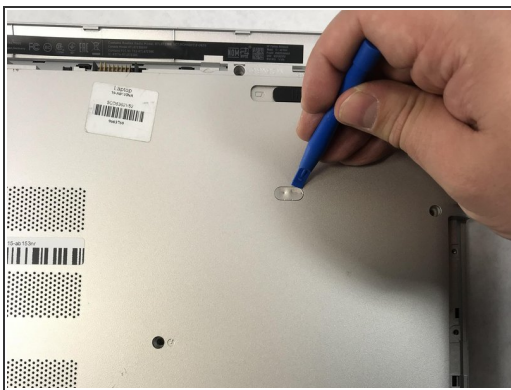
- Remove the remaining seven 6.5mm screws using a Phillips #1 screwdriver that are securing the back cover.

## Step 11



- Use the Phillips #0 screwdriver to remove the two 2mm screws.

## Step 12




- Use prying tools to pry the covers off of the screwholes.
- Using the Phillips #1 screwdriver, remove the two 6.5mm screws.



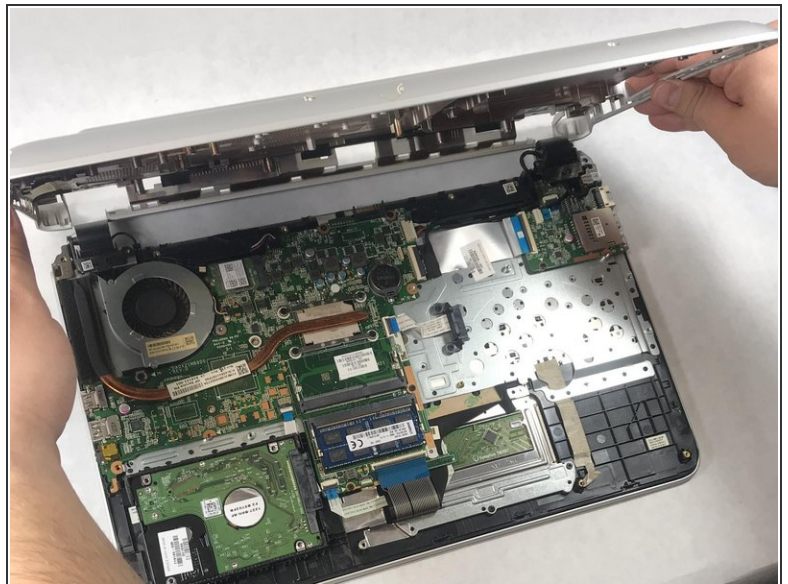
## Step 13



 Be mindful of sharp edges on computer while using prying tools.

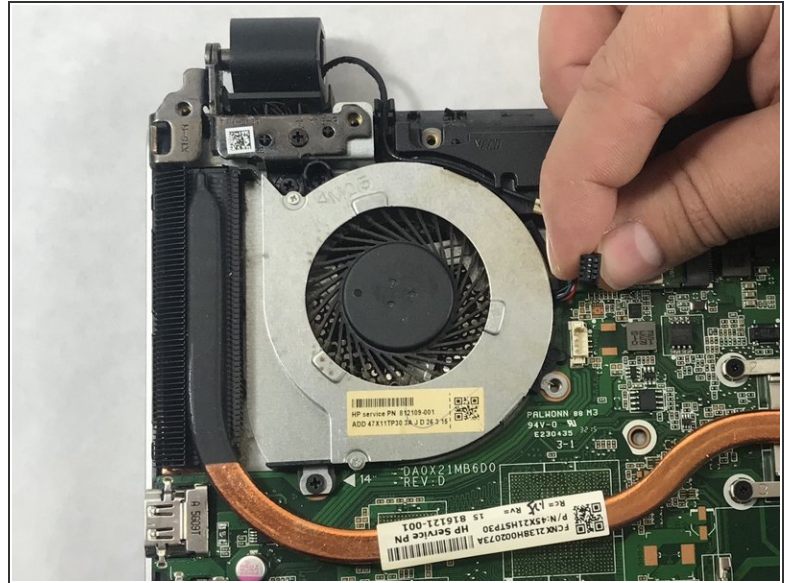
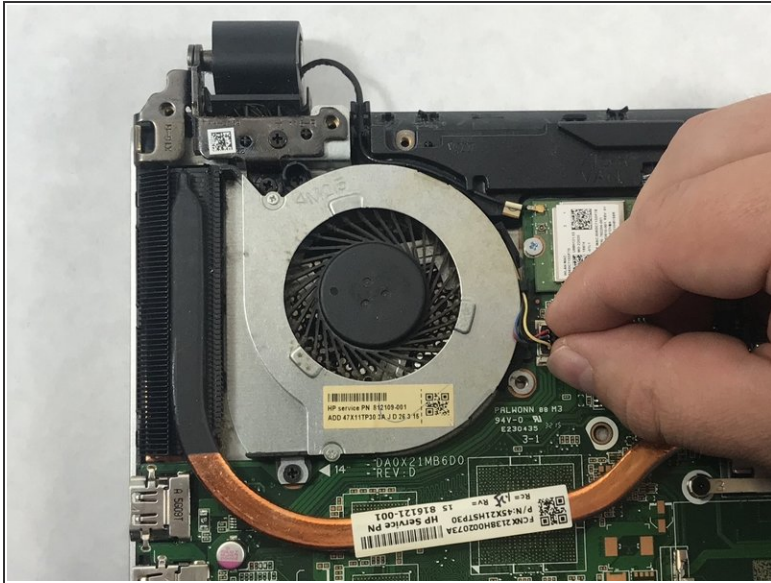
- Flip computer over and open so that the screen is facing you.
- Starting at the bottom right corner, insert the prying tool and lift upwards to loosen the back panel.
- Continue down all sides and corners of the device.

## Step 14



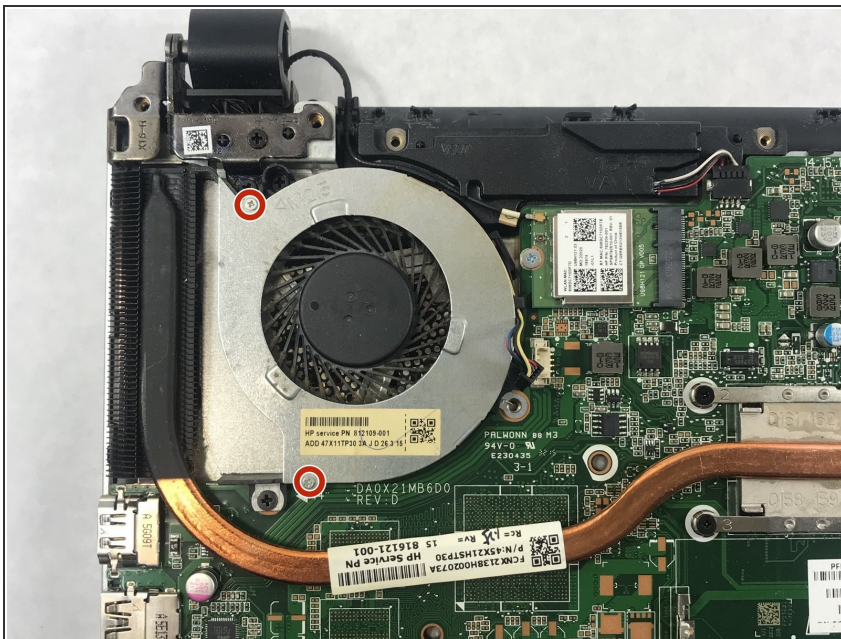
- Flip laptop back over so that the bottom is facing up
- After all sides are loosened, remove the back panel from the device.

## Step 15 — Cooling Fan



- Disconnect fan cable from the motherboard.

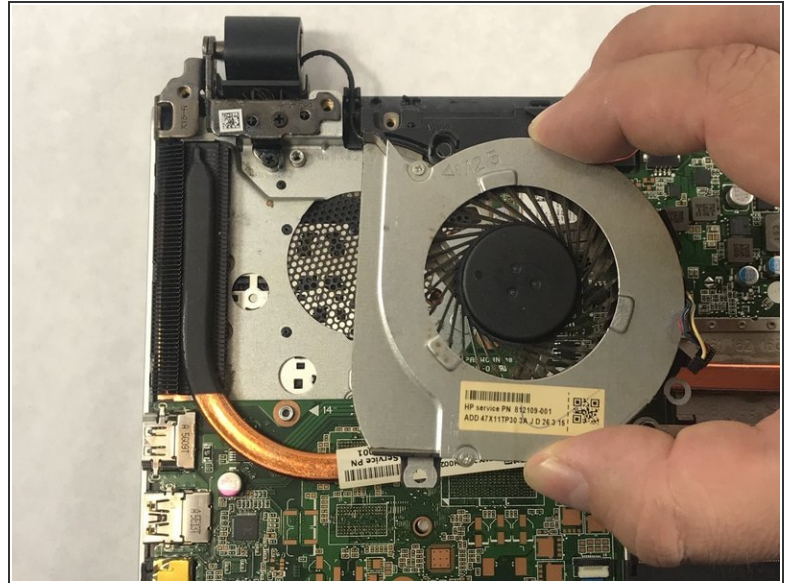
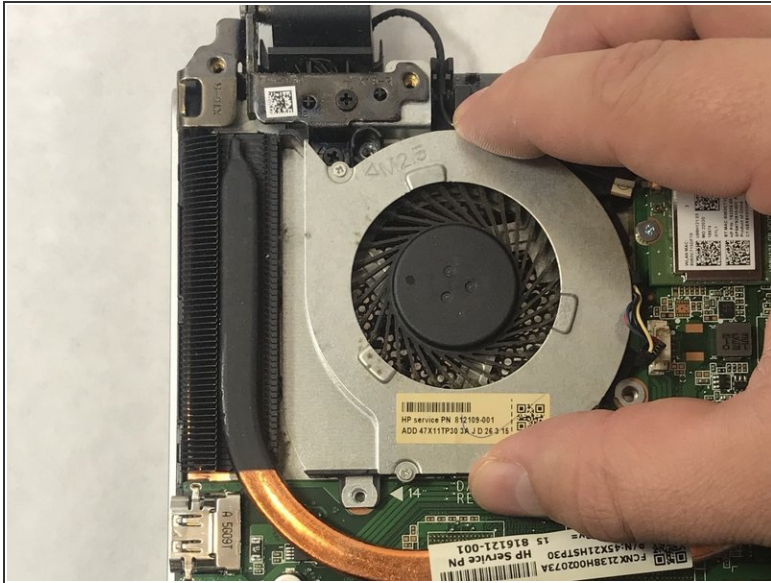
## Step 16



- Remove both 3mm screws connected to the fan using Phillips #1 screwdriver.

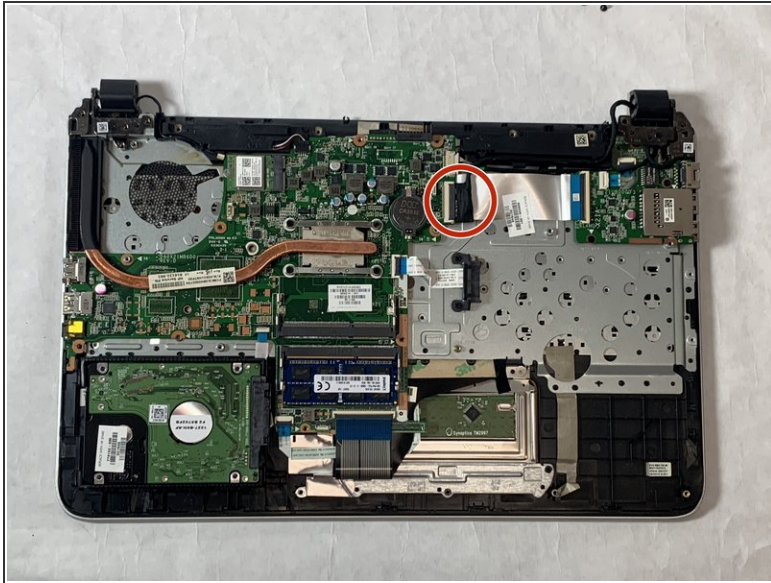



## Step 17



- Remove the fan from the computer.

## Step 18 — Speaker

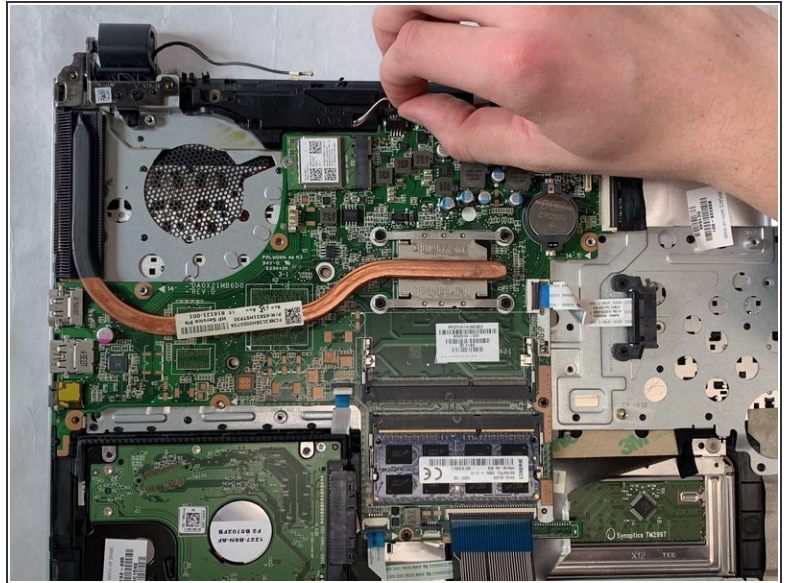
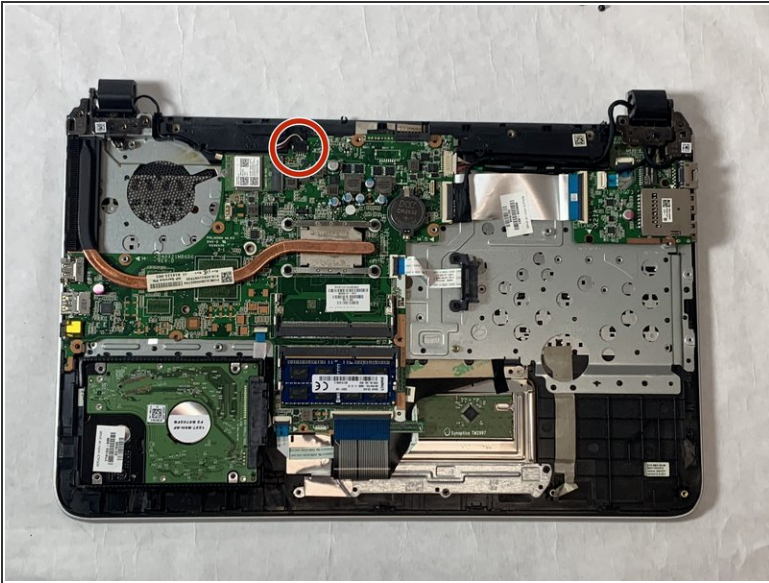


 Disconnect wiring harnesses by gently applying pressure to the plastic clip. Do not pull on the wires.

- Disconnect the wiring harness that is routed through the speaker from the motherboard.
- Remove the wiring harness from the groove in the speaker.



## Step 19



- Disconnect the speaker wiring from the motherboard.
- ⓘ If this clip is too difficult to remove by hand, tweezers or pliers can be used to gently initiate separation.

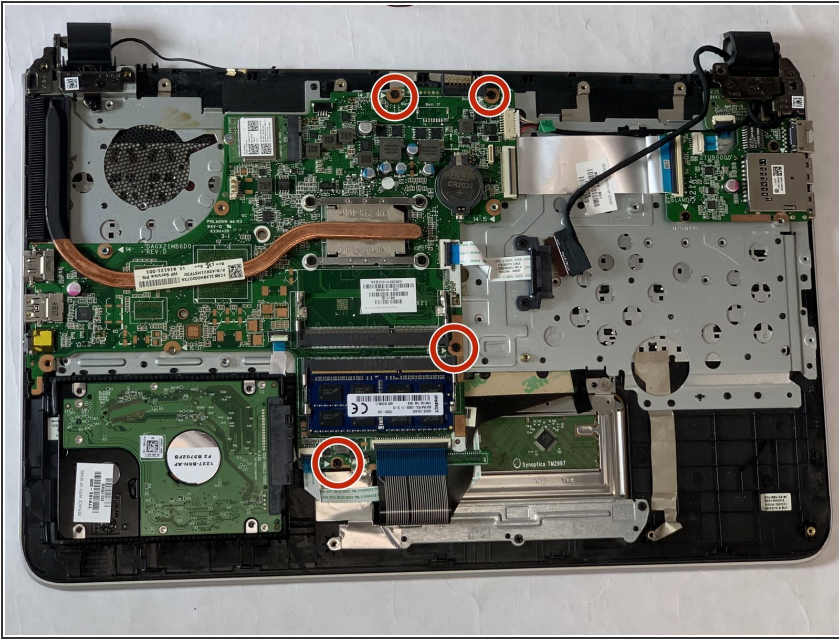
## Step 20



- Remove the speakers.

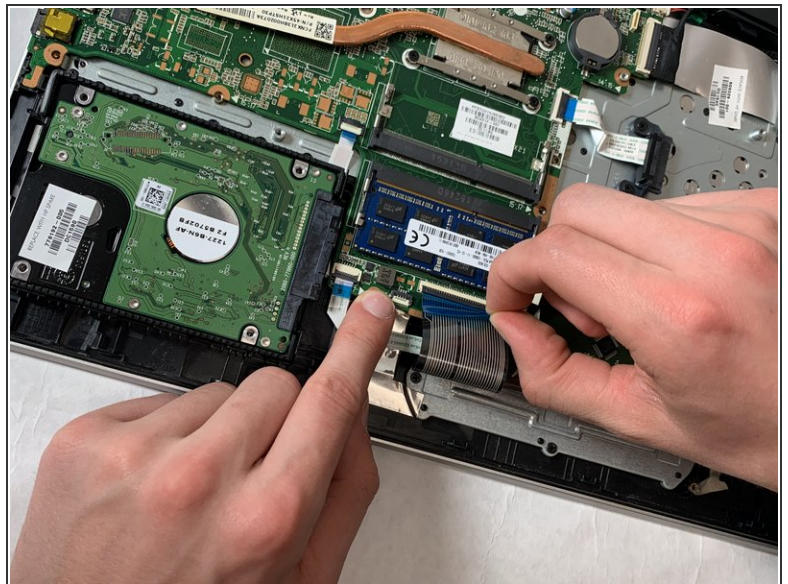
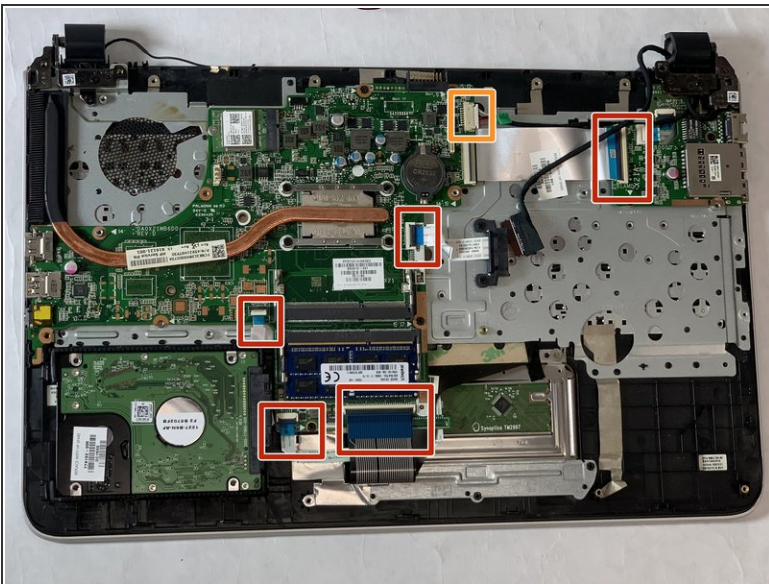


## Step 21 — Motherboard



- Use the #000 screwdriver to remove the four 6mm screws attaching the motherboard to the laptop case.

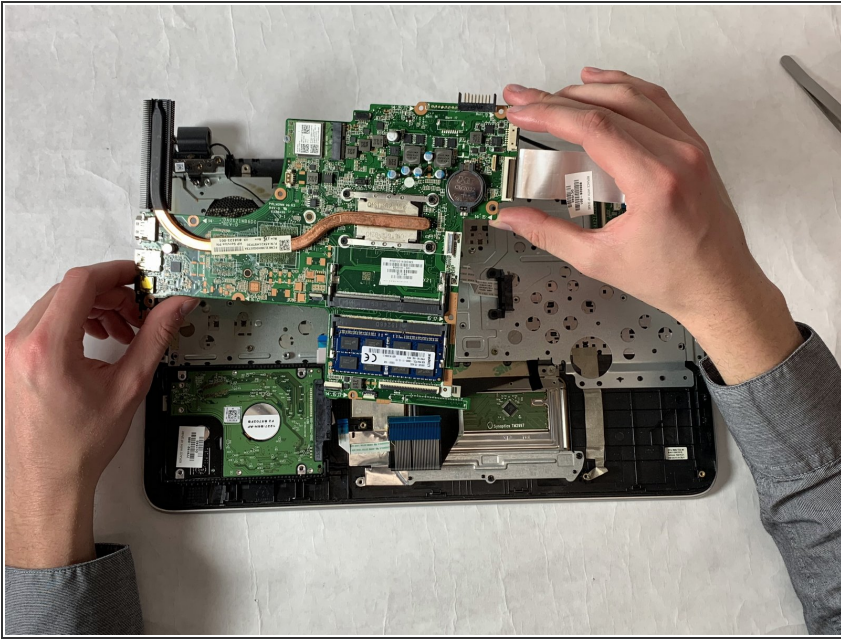
## Step 22



- ⚠ Never pull on the wires themselves to disconnect a wiring harness or ribbon.
- Unclip the wiring ribbons from the motherboard by pulling up on the blue tabs.
- Unplug the wiring harness to the screen by gently pulling the beige connector.



## Step 23



⚠ Be sure to grab the motherboard by the edges. This will reduce the risk of damaging the motherboard components.

- Remove the motherboard.

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