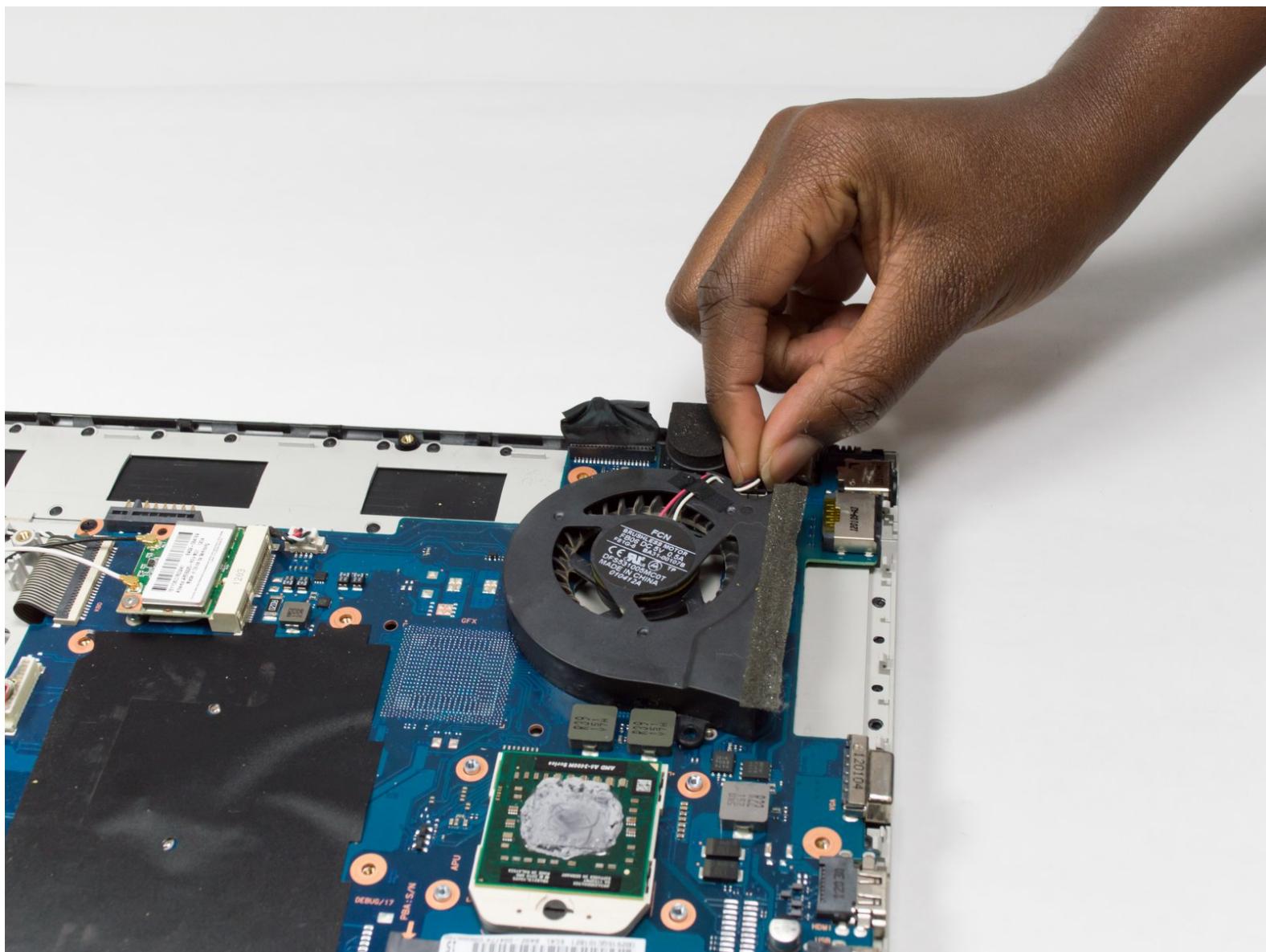




# Samsung NP305E5A-A03US Fan Replacement

This guide will help you through the process of replacing a malfunctioning fan.

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## INTRODUCTION

This guide will help you replace your fan. You may want to use this guide if your computer's fan [stops running](#).

### **TOOLS:**

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

## Step 1 — Battery



*(i)* Be sure to power down your laptop before replacing your battery.

- Turn your laptop upside down so that the battery component is facing you.

## Step 2

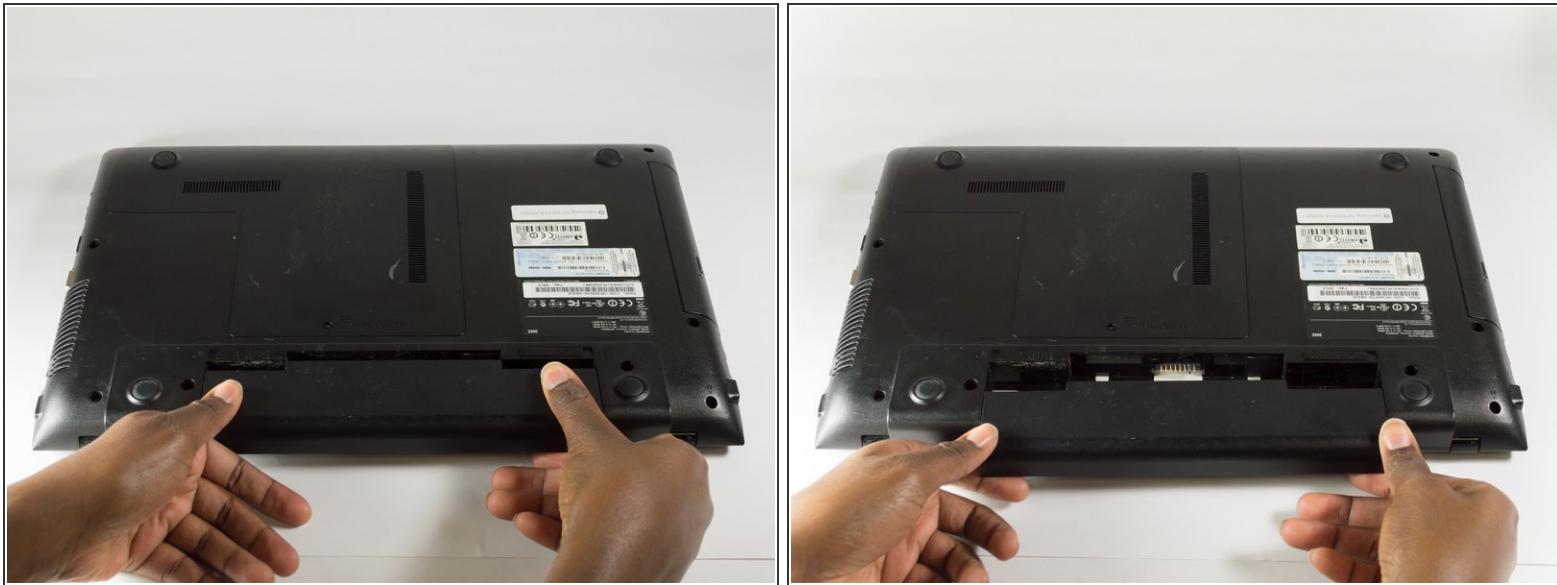


- Place your thumbs on the lock tabs.

- Slide the tabs with your thumbs in an outward direction (in the direction of the arrows).

*(i)* You should hear a click when you properly slide the tabs all the way.

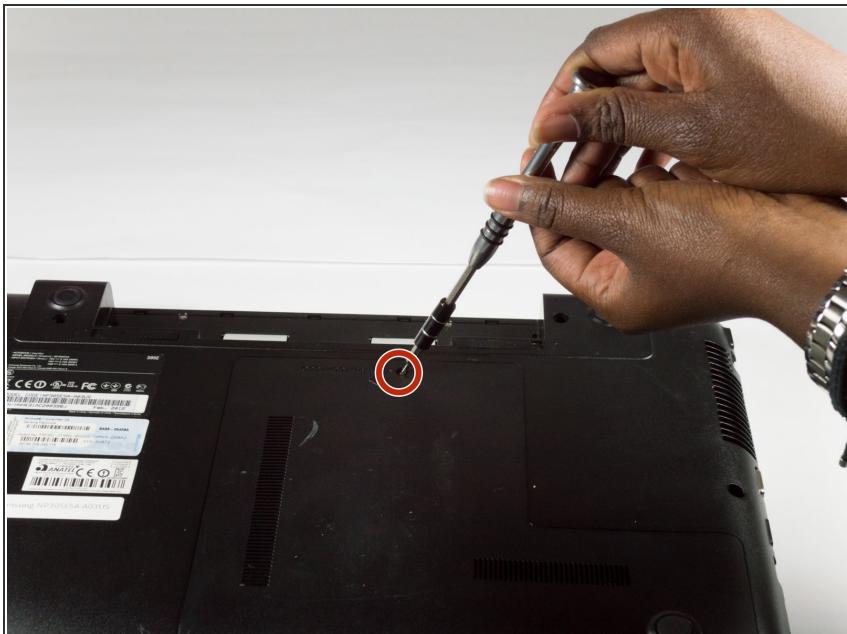
## Step 3



- Pull the battery out of the laptop towards yourself to safely remove the battery.

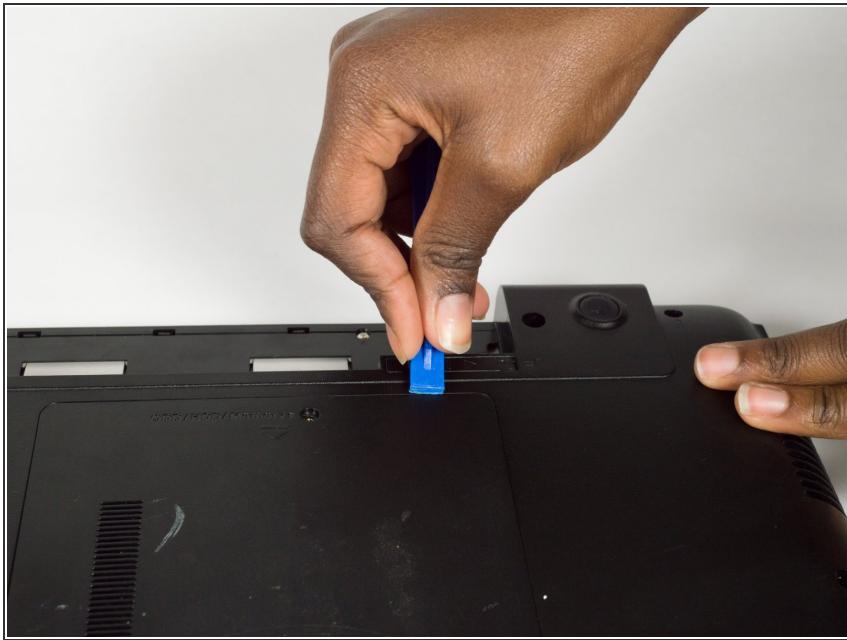
**⚠** If you are discarding the battery, please do not throw it away in the trash. Instead find a local battery recycling facility that will not damage the environment.

## Step 4 — Hard Drive



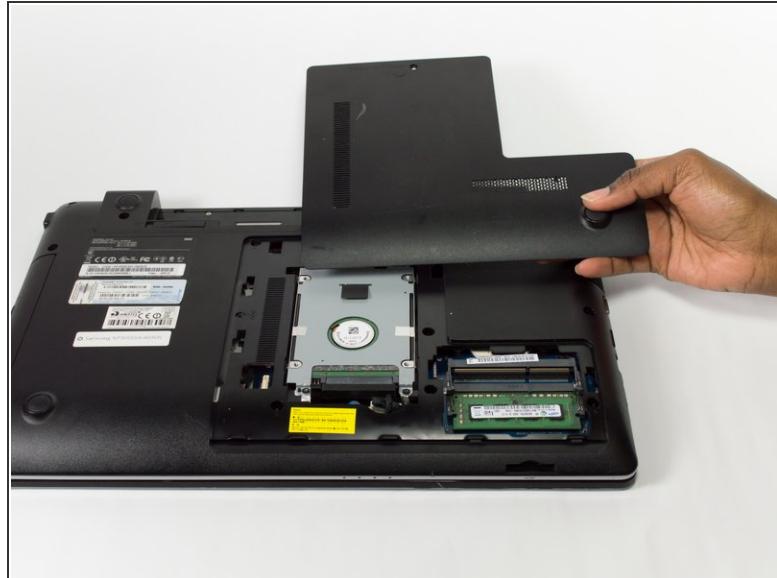
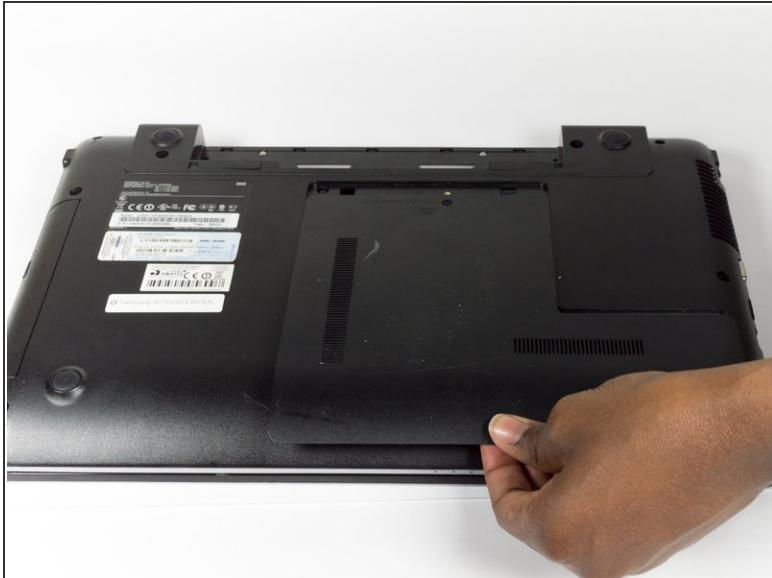
- Unscrew the 3.5mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.

## Step 5



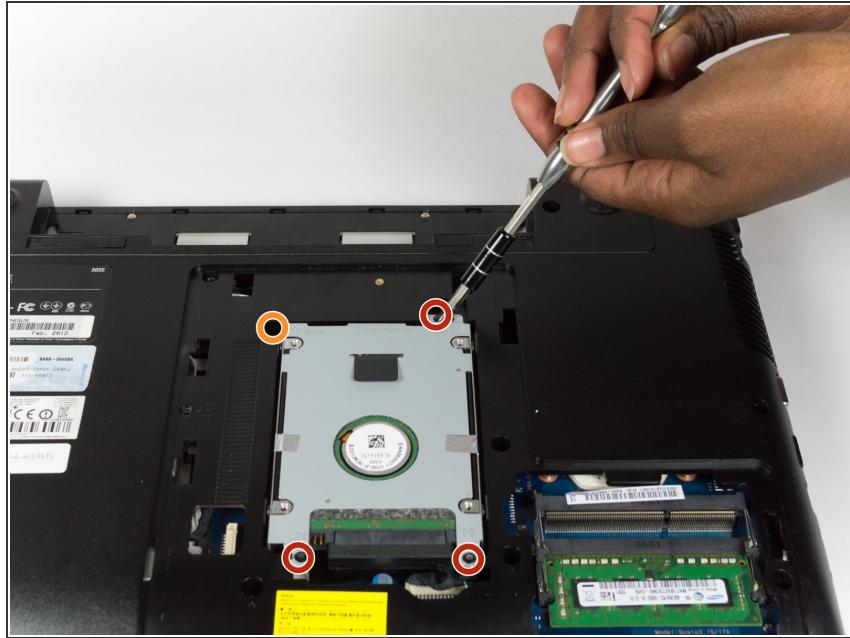
- Wedge the plastic opening tool between the L-shaped back panel to slide the panel off.
- *(i)* Note this may take force. If you have difficulties using the plastic opening tool, try to use your hands to pull the panel off.

## Step 6



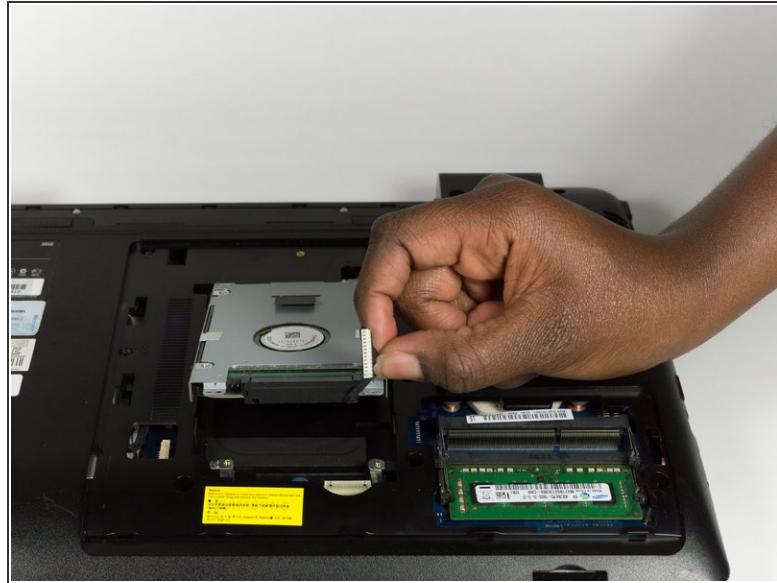
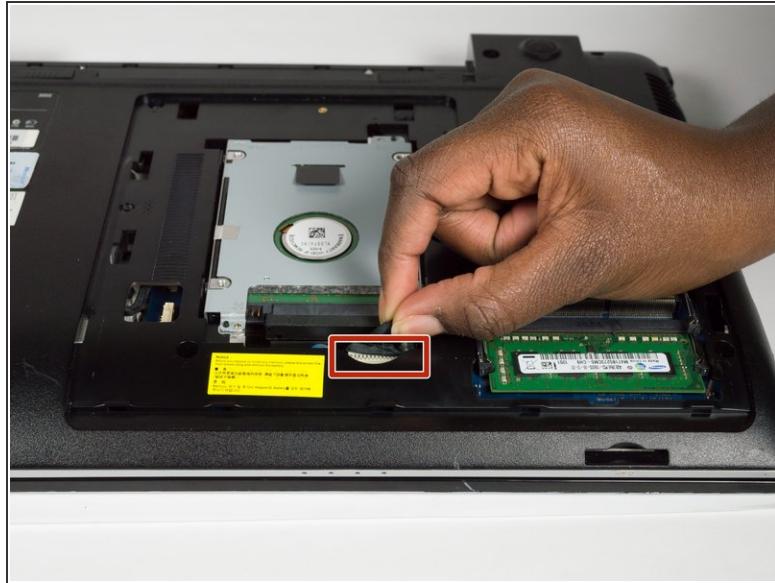
- Pull the panel towards you to remove the panel.

## Step 7



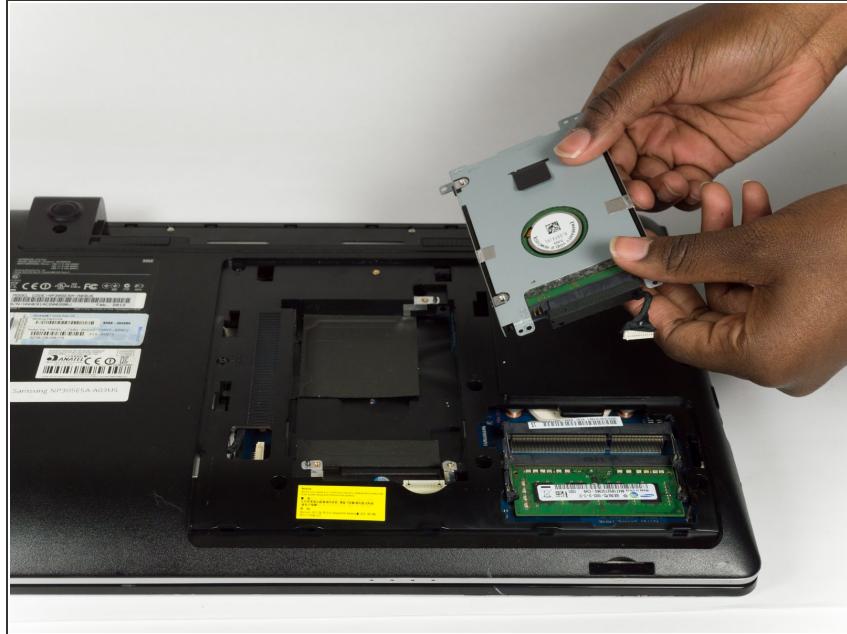
- Unscrew the three 3.5mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.
- Unscrew the one 4.45mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.

## Step 8



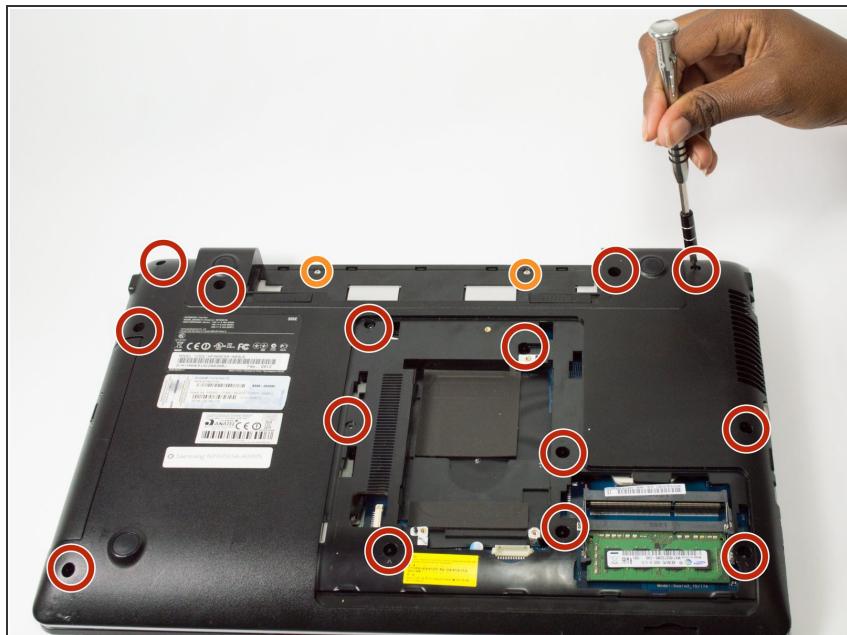
- Pull the cord that connects the Hard Drive to the Motherboard to disconnect it.

## Step 9



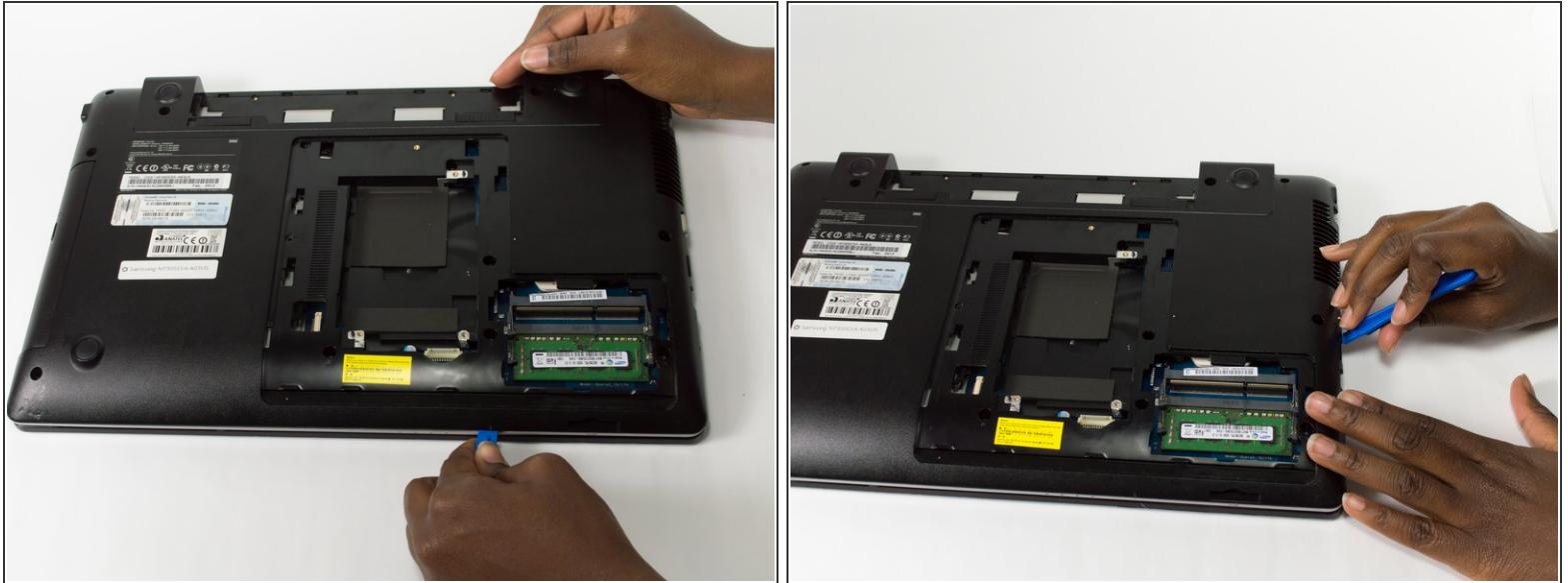
- Remove the Hard Drive by lifting it towards you.

## Step 10 — Optical Drive



- Unscrew the fourteen 9.5mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.
- Unscrew the two 3.5mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.

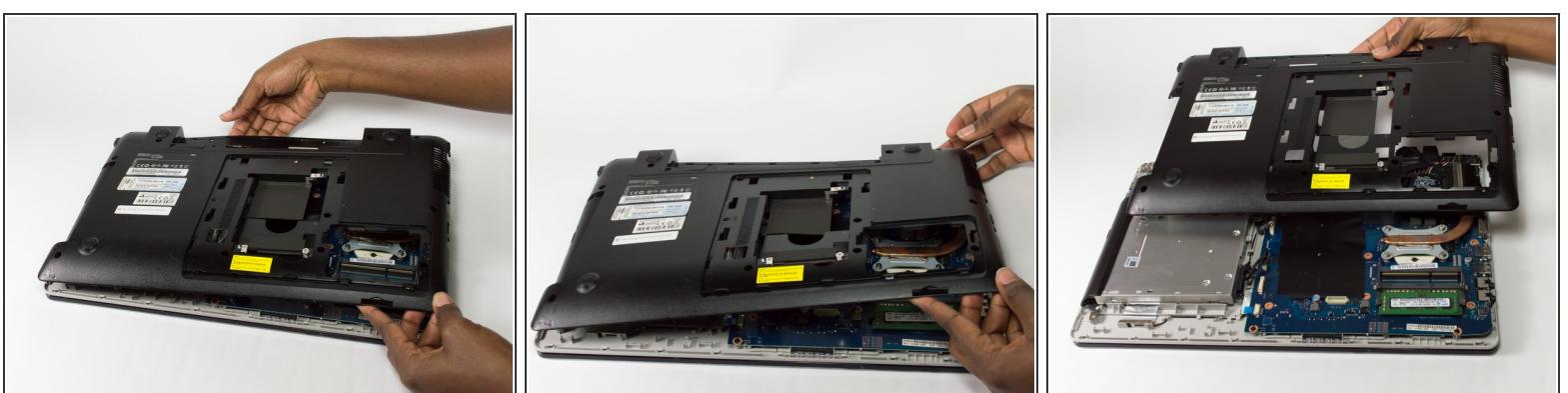
## Step 11



- Insert the plastic opening tool between the seam of the back panel and the laptop.
- Slide the plastic opening tool along the seam to loosen the back panel from the laptop.

*(i)* It may be difficult to slide the plastic opening tool along the seam, so you may have to apply some force.

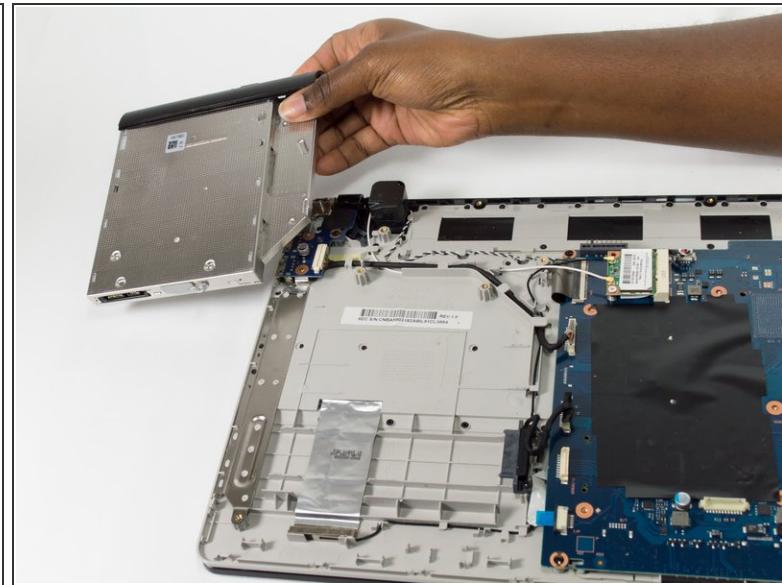
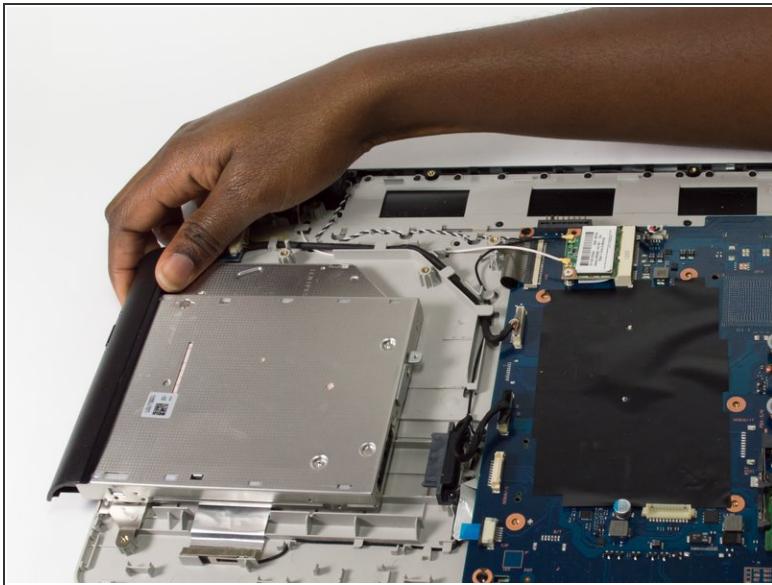
## Step 12



- Remove the Back Panel by lifting it towards you.

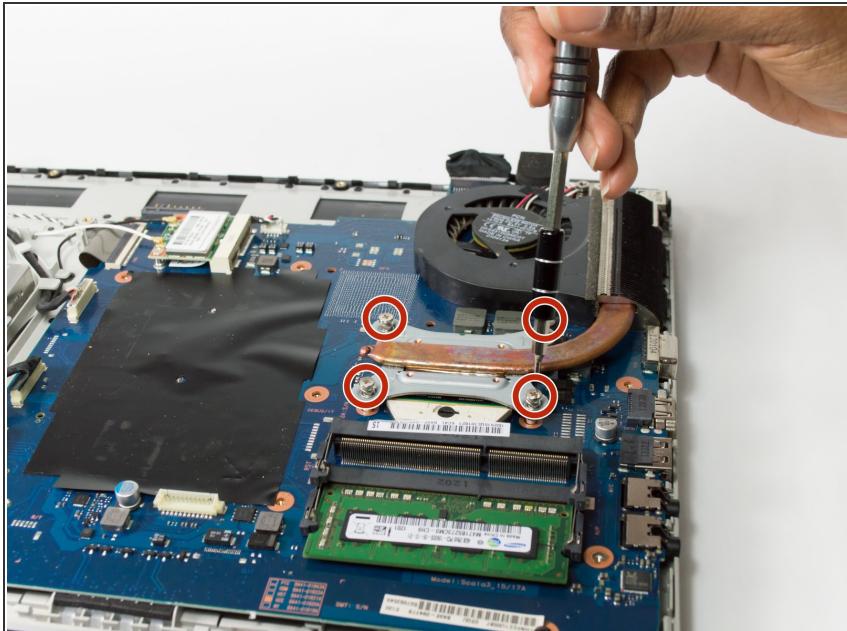
*(i)* It may take some force to remove the Back Panel.

## Step 13



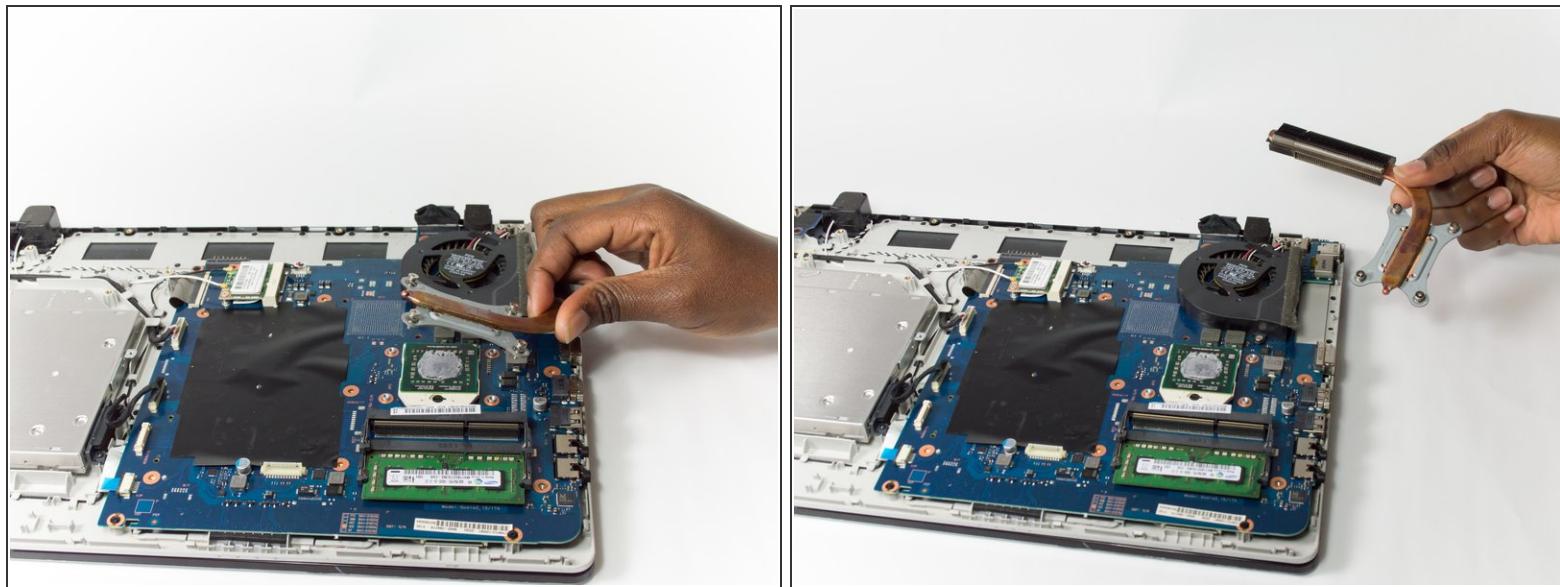
- Remove the Optical Drive by sliding it away from the laptop.

## Step 14 — Fan



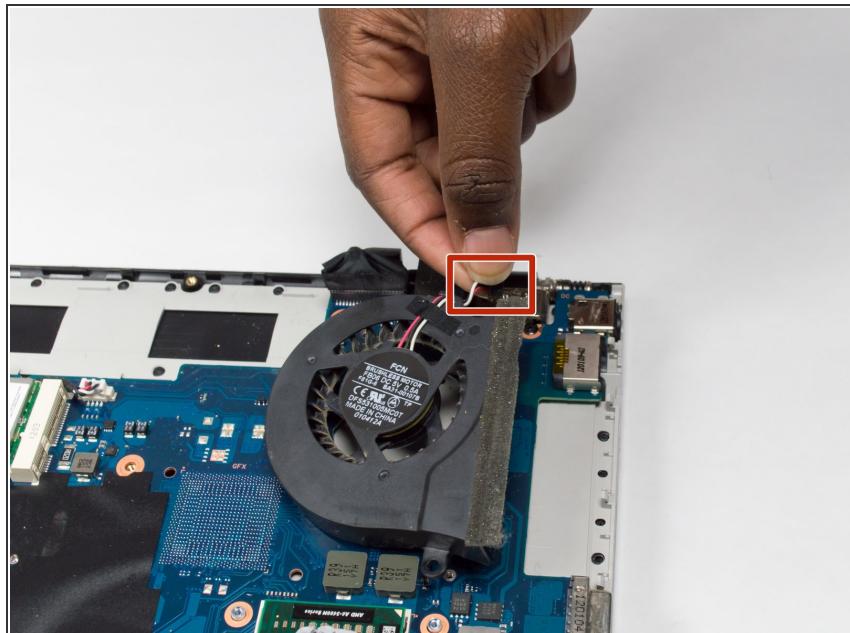
- Unscrew the four 8.9mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.
- *i* The screws will only loosen to the point to where you can remove the vent, so you will not be able to fully remove the screws.

## Step 15



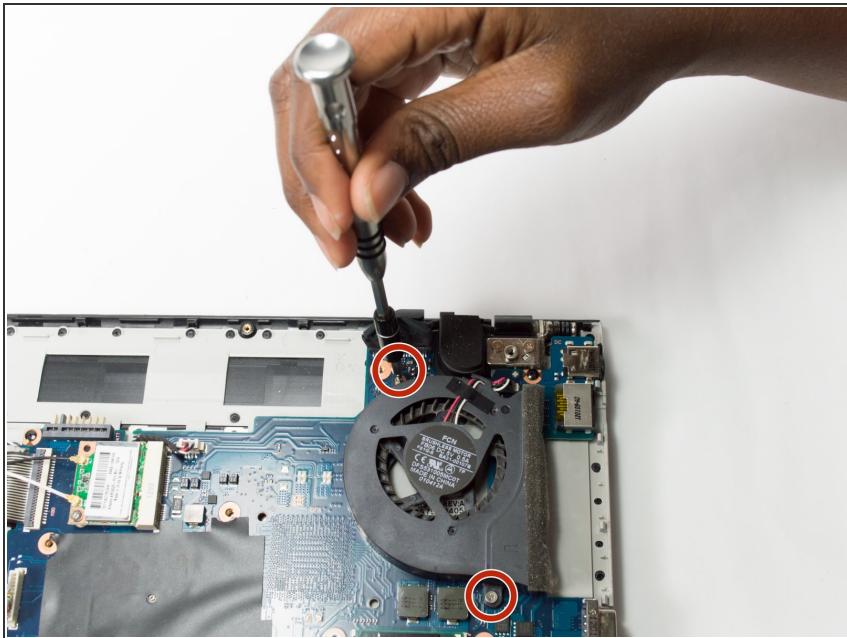
- Remove the vent by lifting it away from the laptop.

## Step 16



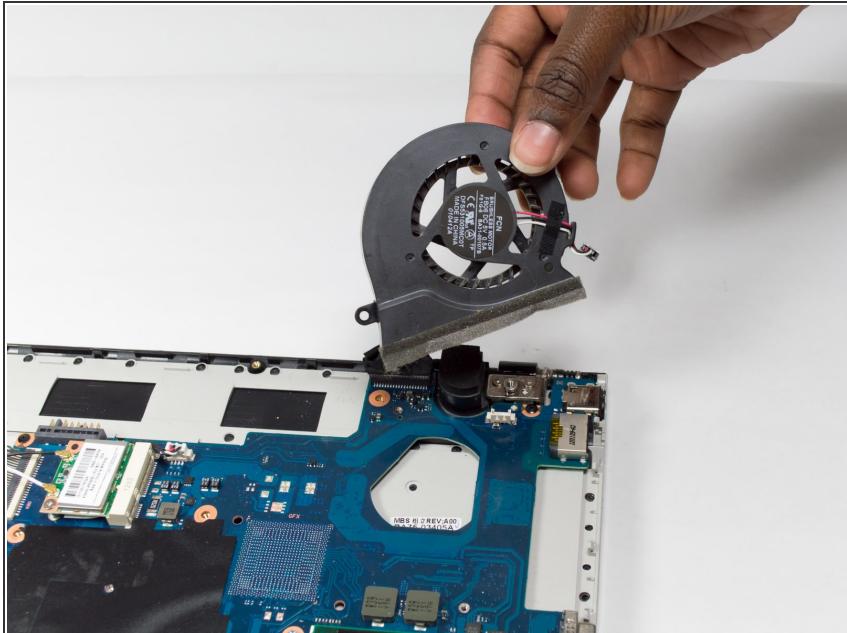
- Pull the cord that connects the Fan to the Motherboard to disconnect it.

## Step 17



- Unscrew the two 4.45mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.

## Step 18



- Remove the Fan by lifting it towards you.

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