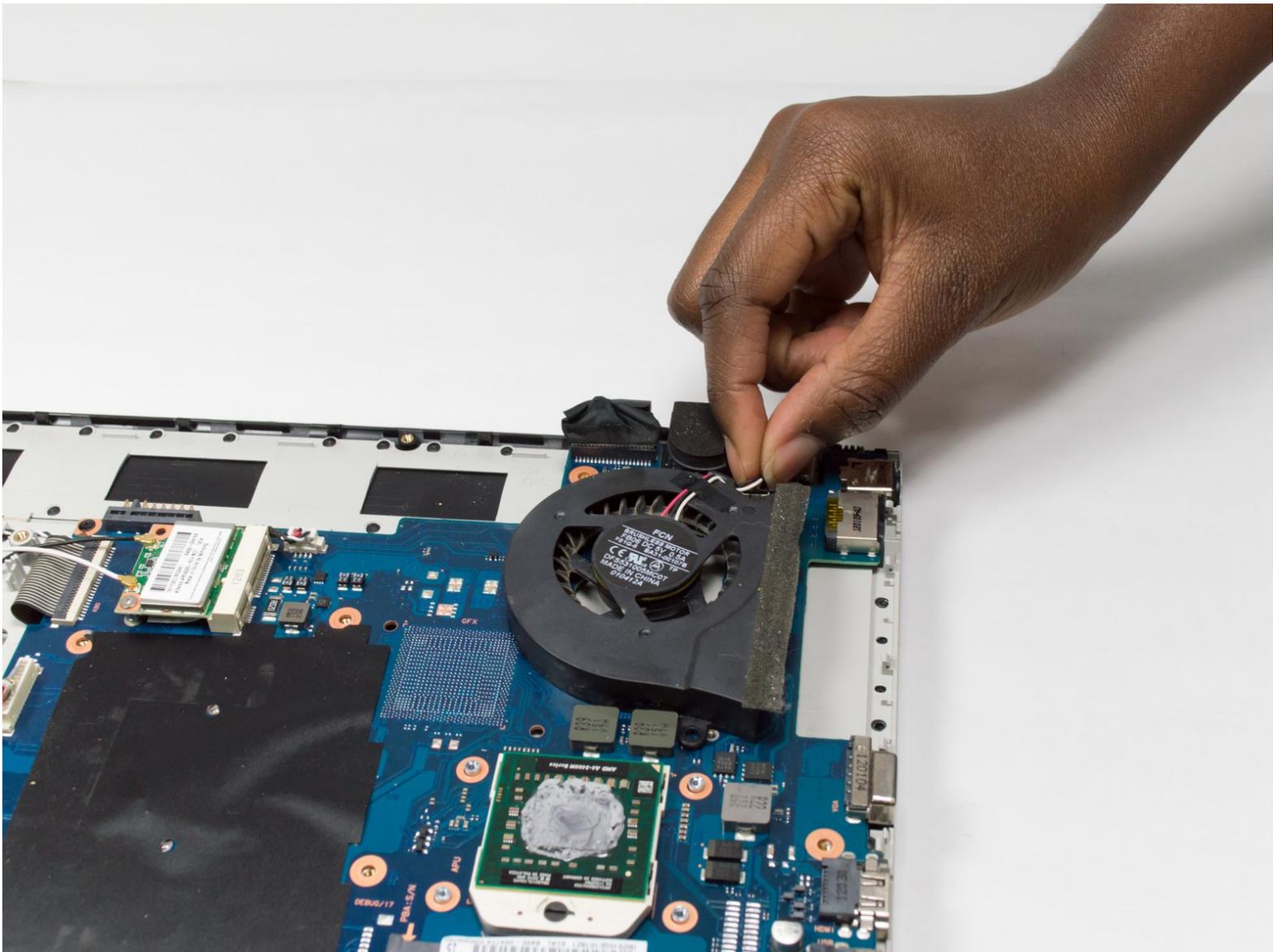




# Samsung NP305E5A-A03US Fan Replacement

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

Written By: Kris Stobbe



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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](#).

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### TOOLS:

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

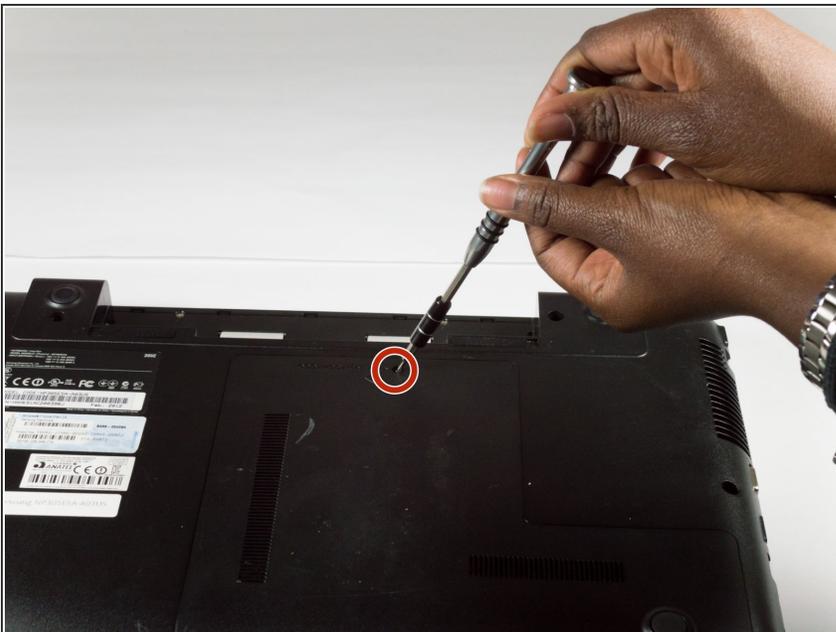
### Step 3



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

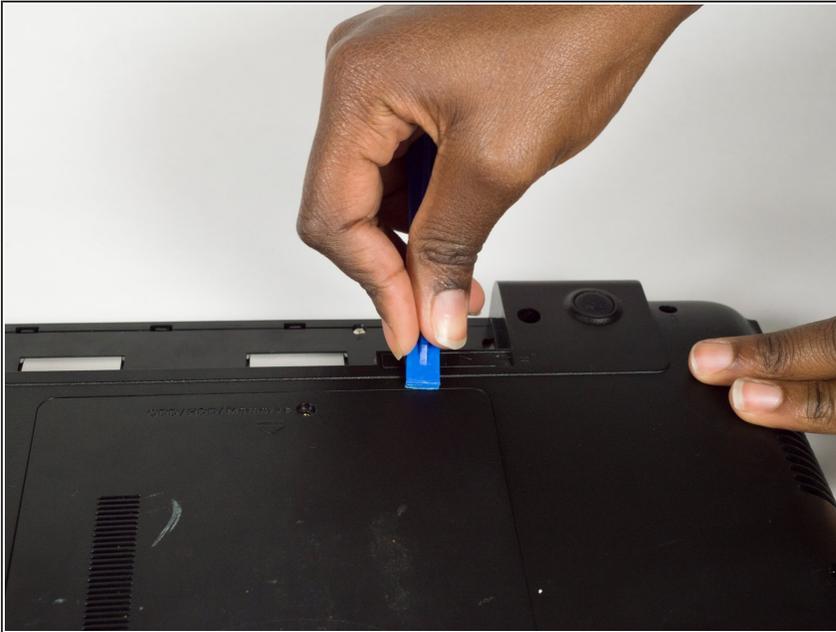
 If you are discarding the battery, please do not throw it away in the trash. Instead find a local battery recycling facility that will not damage the environment.

### Step 4 — Hard Drive



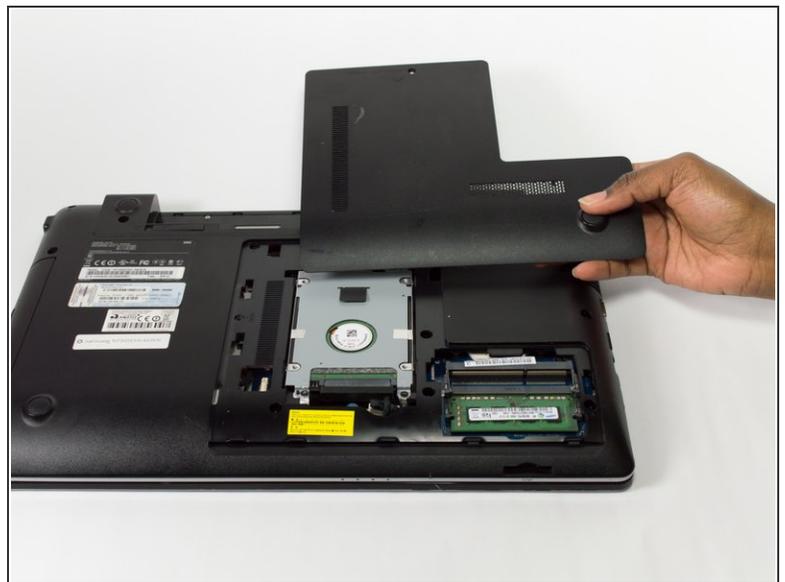
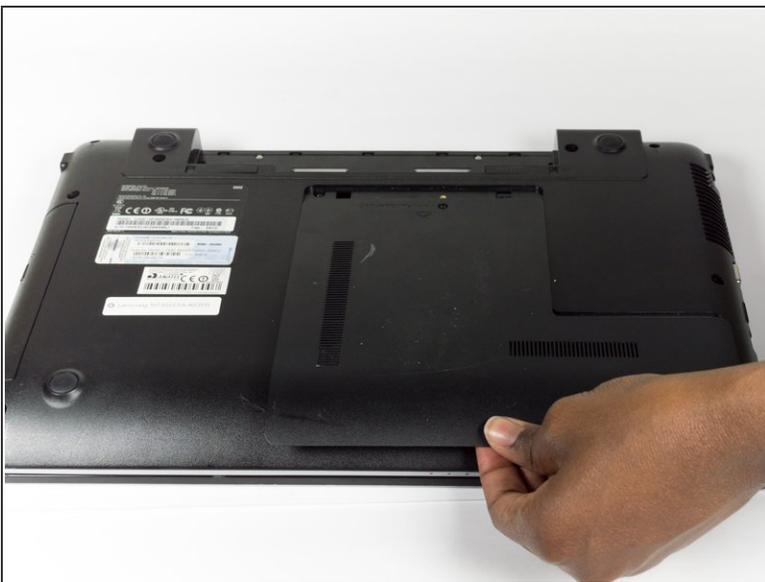
- Unscrew the 3.5mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.

## Step 5



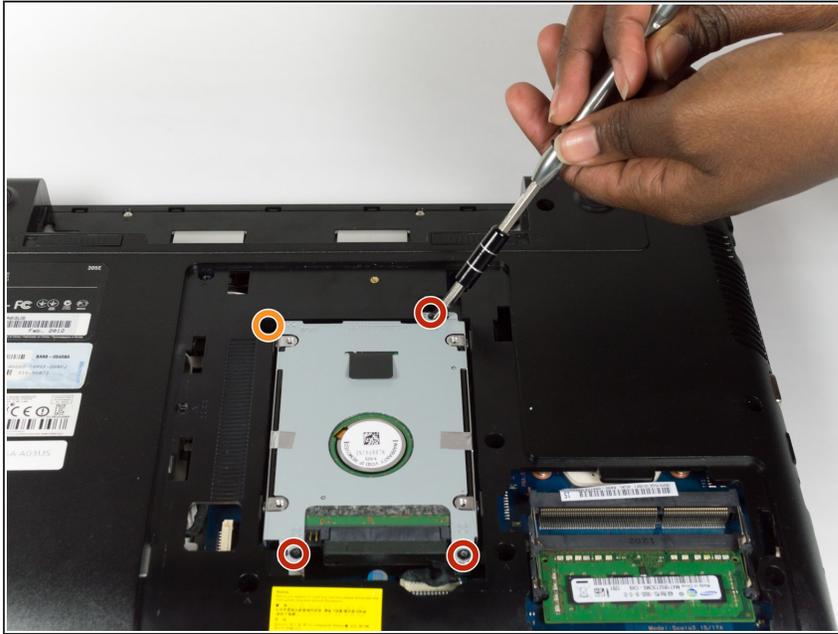
- Wedge the plastic opening tool between the L-shaped back panel to slide the panel off.
- ⓘ Note this may take force. If you have difficulties using the plastic opening tool, try to use your hands to pull the panel off.

## Step 6



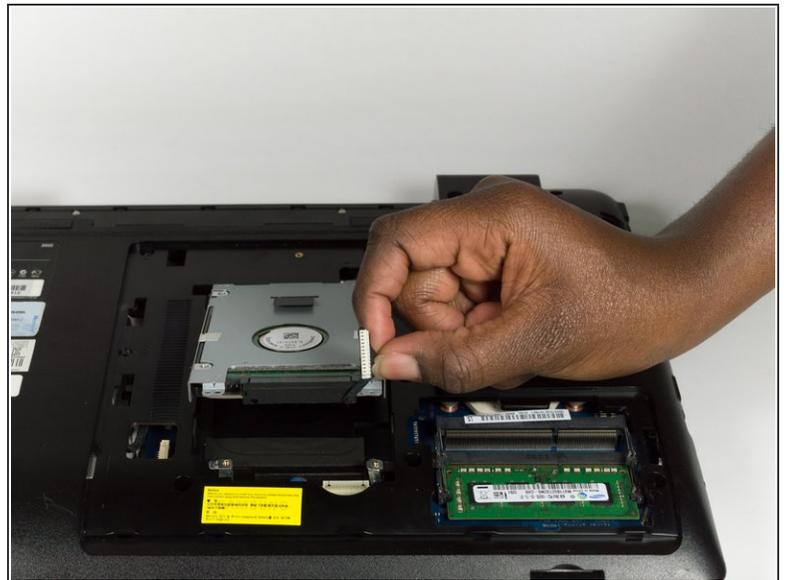
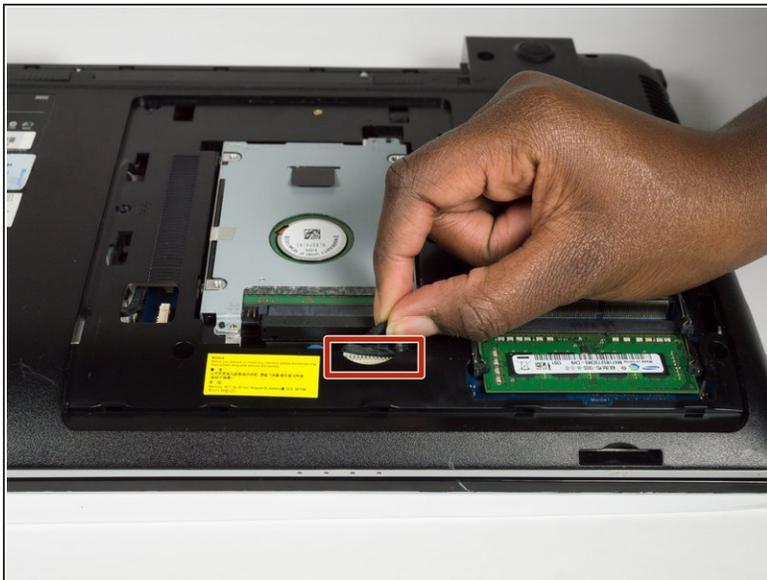
- Pull the panel towards you to remove the panel.

## Step 7



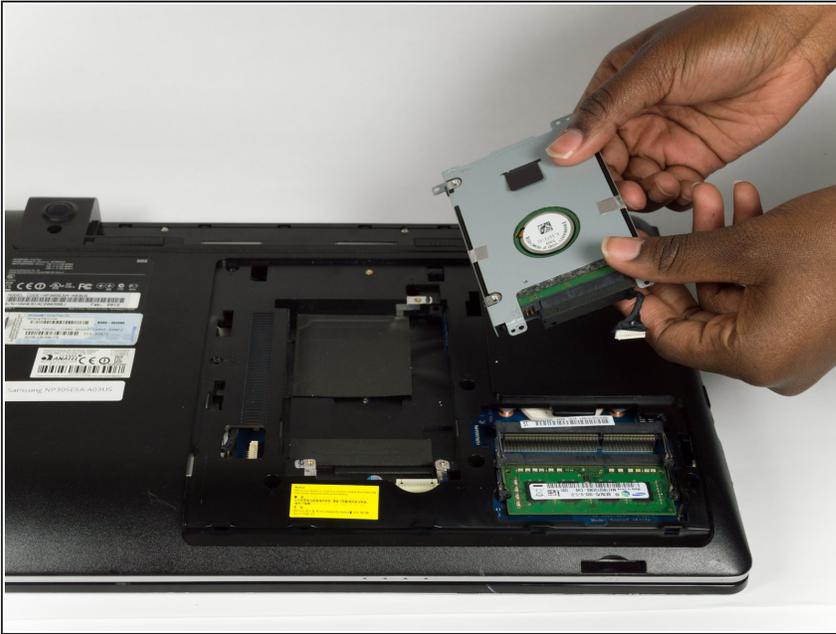
- Unscrew the three 3.5mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.
- Unscrew the one 4.45mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.

## Step 8



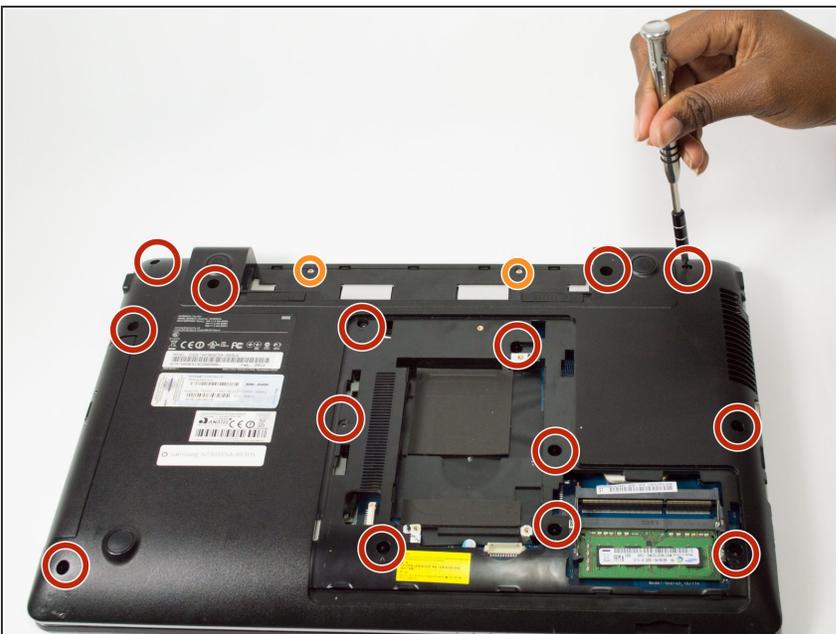
- Pull the cord that connects the Hard Drive to the Motherboard to disconnect it.

## Step 9



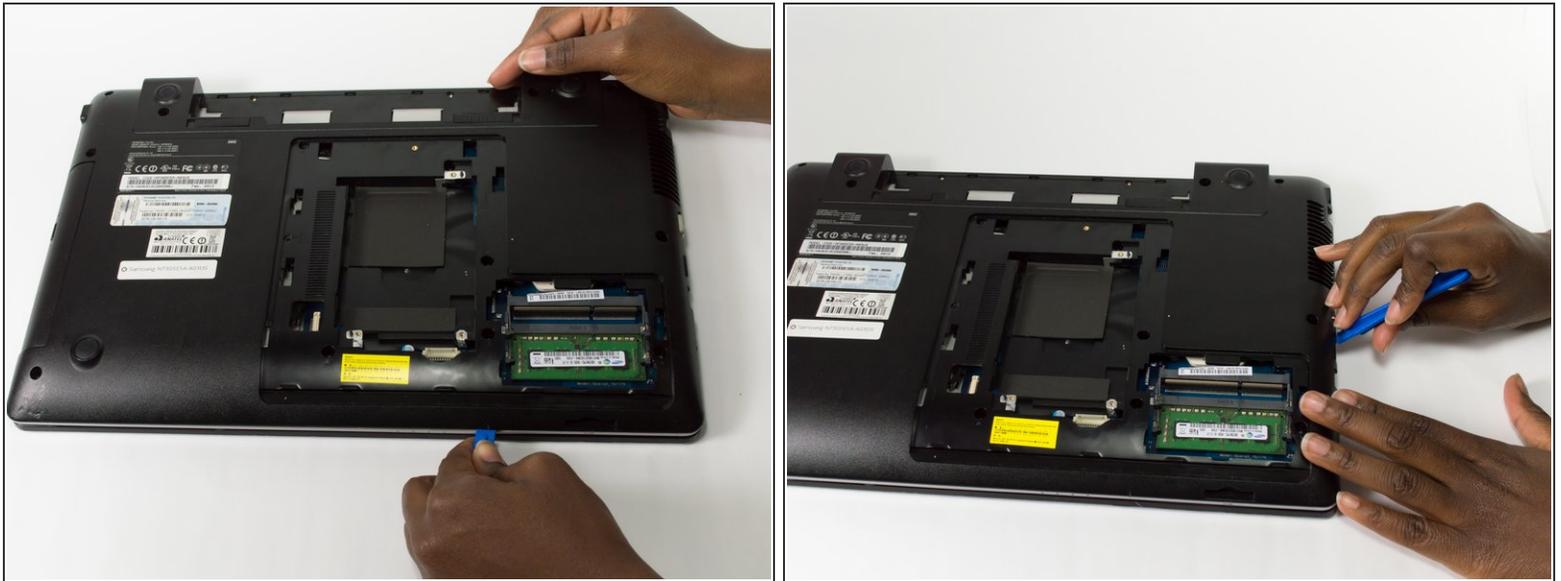
- Remove the Hard Drive by lifting it towards you.

## Step 10 — Optical Drive



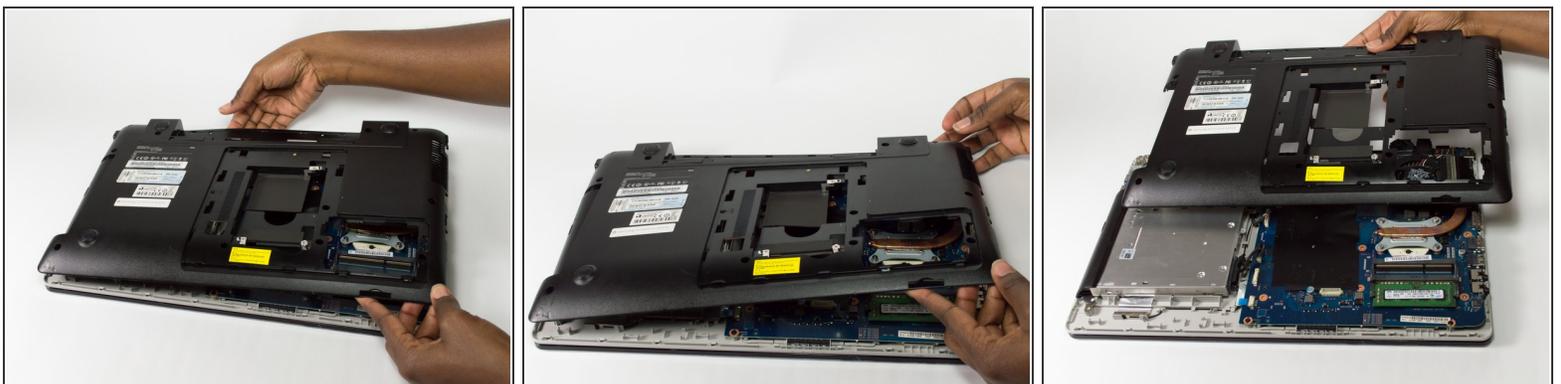
- Unscrew the fourteen 9.5mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.
- Unscrew the two 3.5mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.

## Step 11



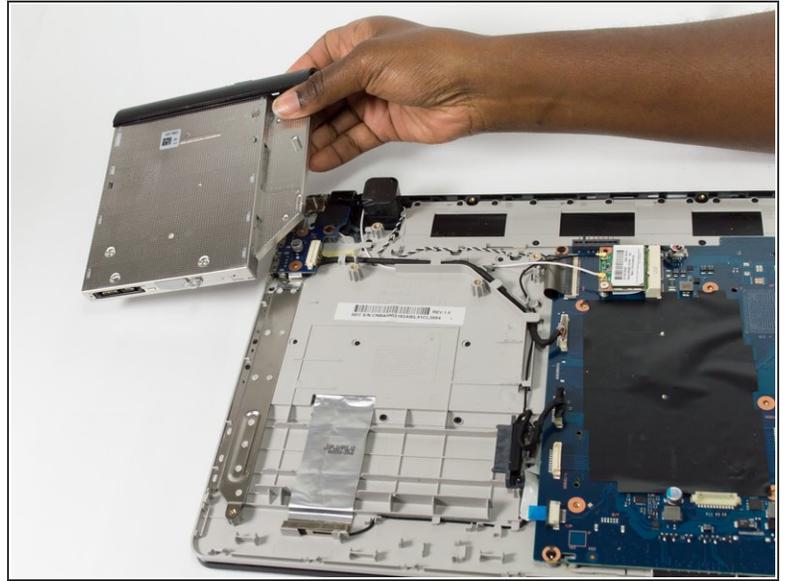
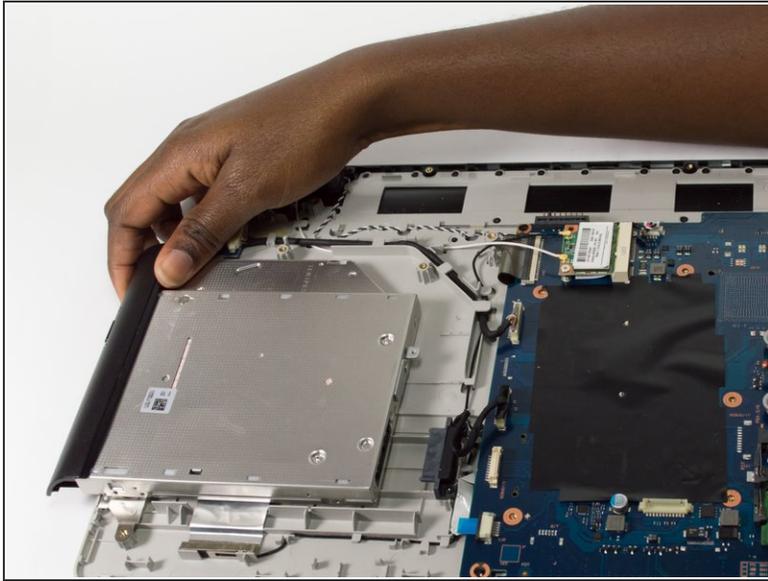
- Insert the plastic opening tool between the seam of the back panel and the laptop.
- Slide the plastic opening tool along the seam to loosen the back panel from the laptop.
- ⓘ It may be difficult to slide the plastic opening tool along the seam, so you may have to apply some force.

## Step 12



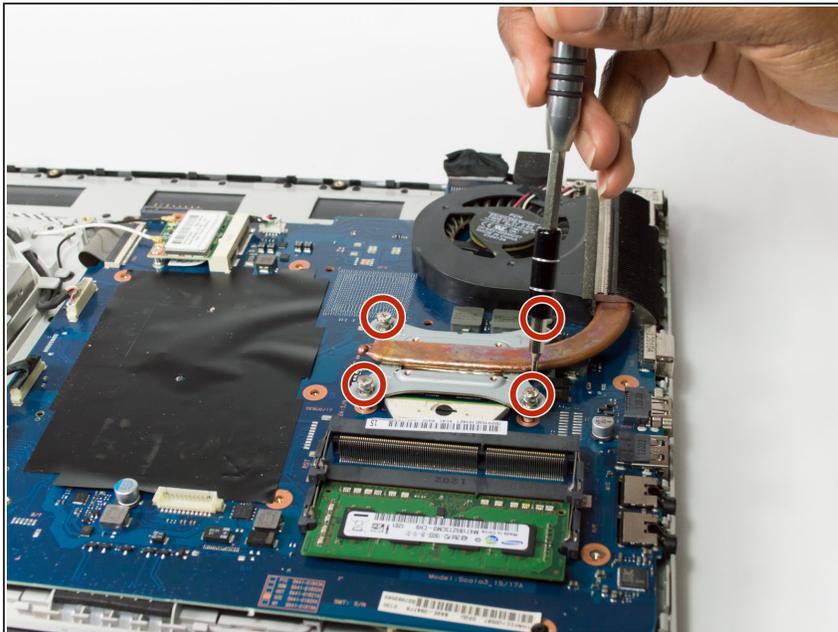
- Remove the Back Panel by lifting it towards you.
- ⓘ It may take some force to remove the Back Panel.

## Step 13



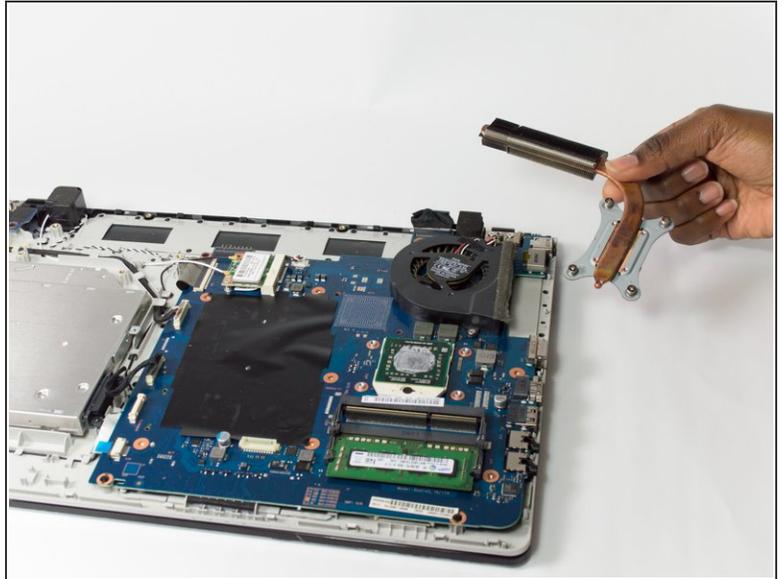
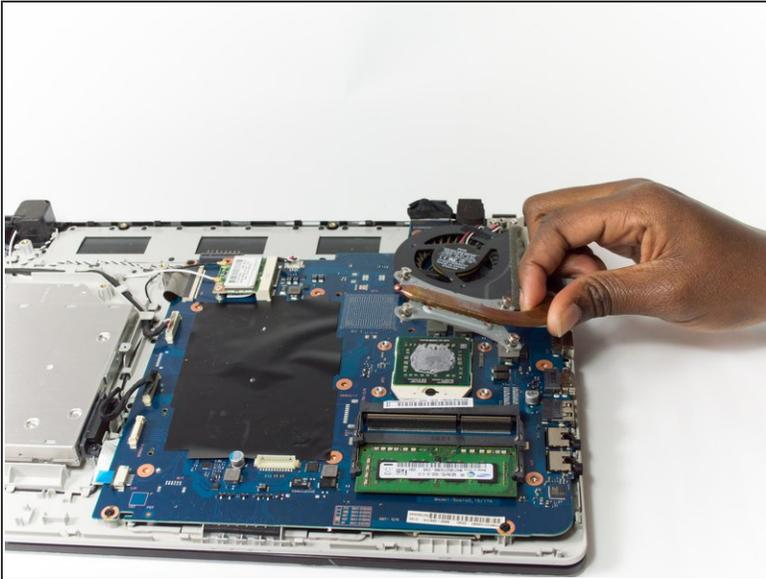
- Remove the Optical Drive by sliding it away from the laptop.

## Step 14 — Fan



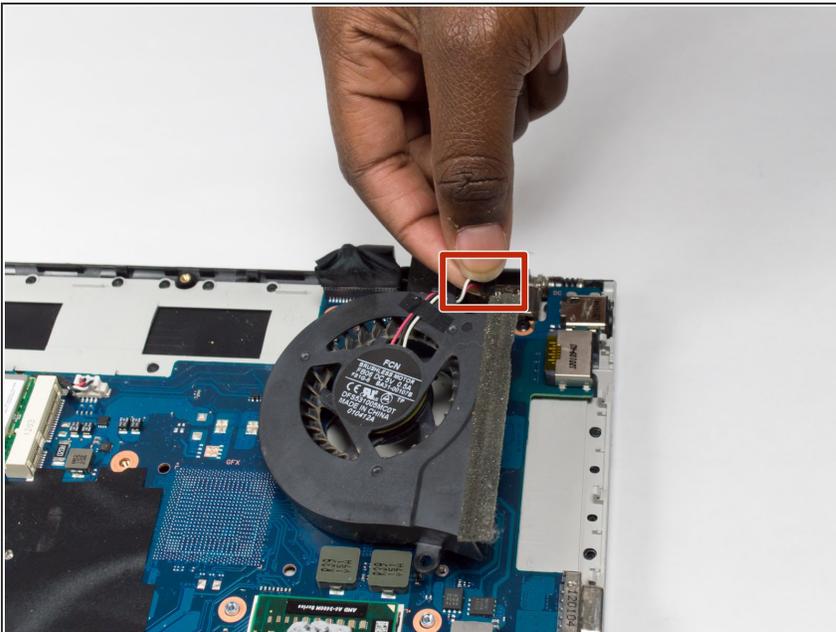
- Unscrew the four 8.9mm screws using a Phillips J0 Screwdriver by rotating the screwdriver in the counter clockwise direction.
- ⓘ The screws will only loosen to the point to where you can remove the vent, so you will not be able to fully remove the screws.

## Step 15



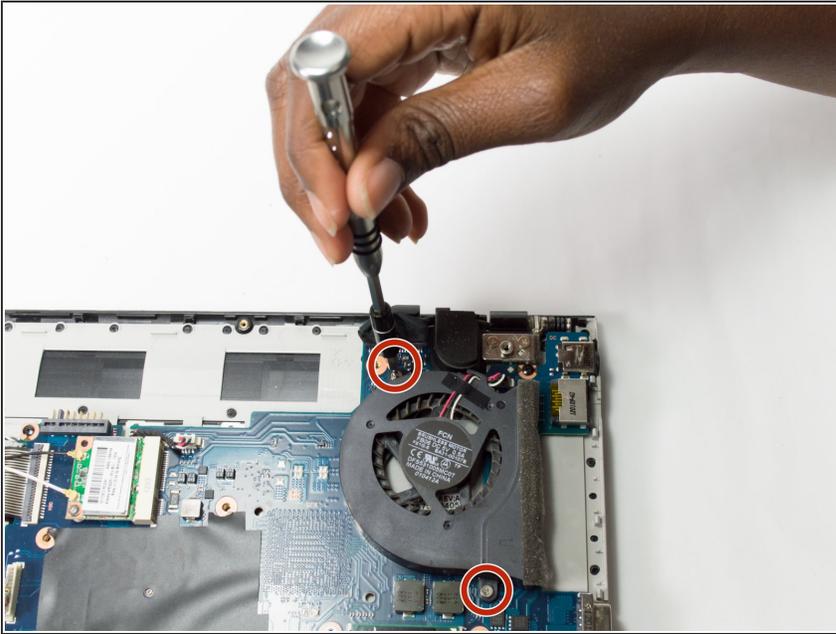
- Remove the vent by lifting it away from the laptop.

## Step 16



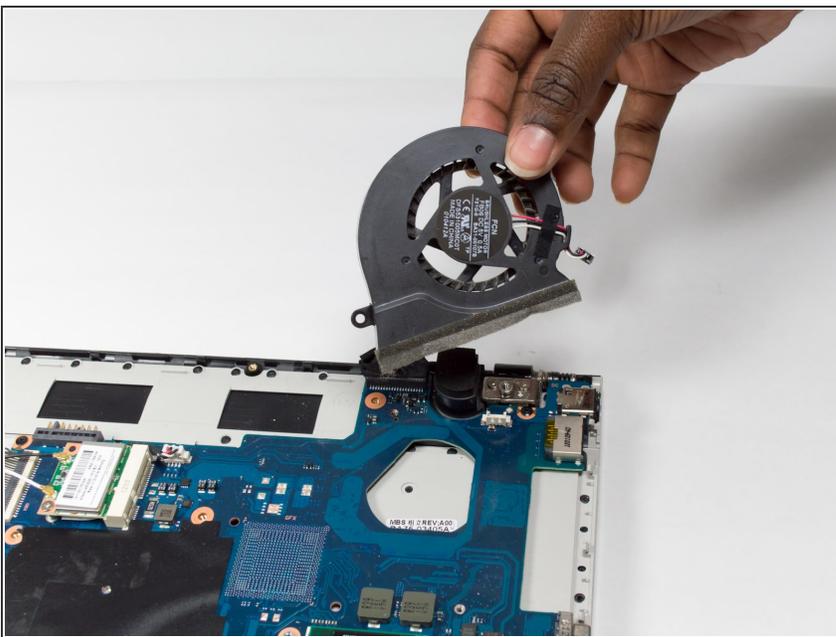
- Pull the cord that connects the Fan to the Motherboard to disconnect it.

## 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.