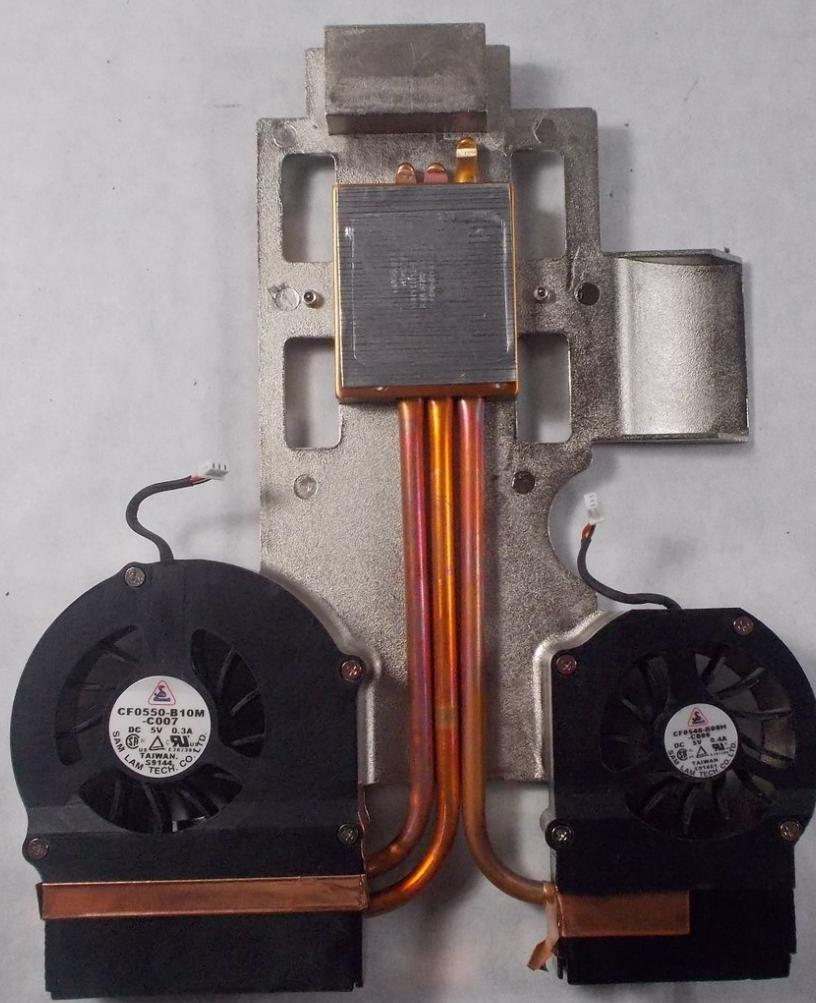




# HP Pavilion ze5000 Primary Fan Replacement

This guide will show how to replace the primary fans located inside the device

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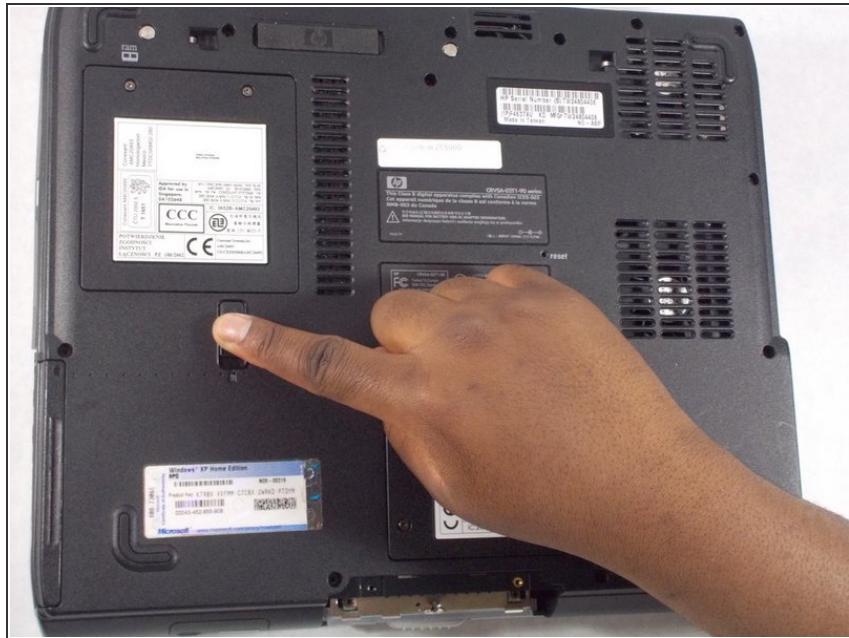
## INTRODUCTION

This guide will explain how to replace the primary fans of the device. There is another fan located in the northern section of the interior of the device that this repair guide will not cover. This guide deals with the more involved sections of the device.

### TOOLS:

- **Phillips #0 Screwdriver** (1)
- **Tweezers** (1)
- **Spudger** (1)
- **Phillips #1 Screwdriver** (1)
- **Phillips #00 Screwdriver** (1)

## Step 1 — Battery



- Push up on the arrow-shaped switch.

## Step 2



- While still holding the switch up, remove the battery.

## Step 3 — Keyboard



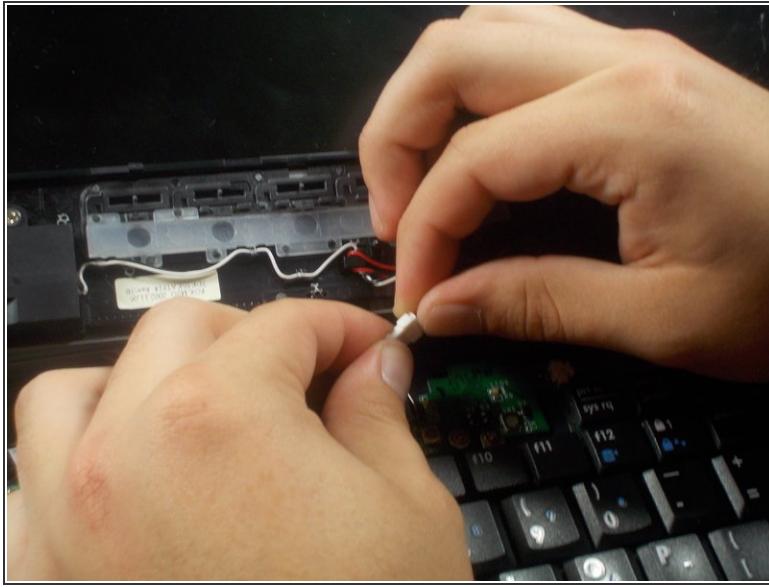
- Remove the two 5mm Phillips #0 screws from the hinges

## Step 4



- Open the device as if you were going to use the device. Using Tweezers, pry the hinges from underneath the screen
- Not much force is needed to pull the hinges off once the tweezers are properly positioned

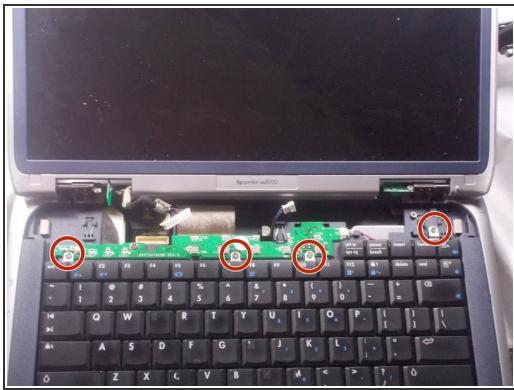
## Step 5



- Remove the wire connection by gently pulling on the fuse and connection itself.

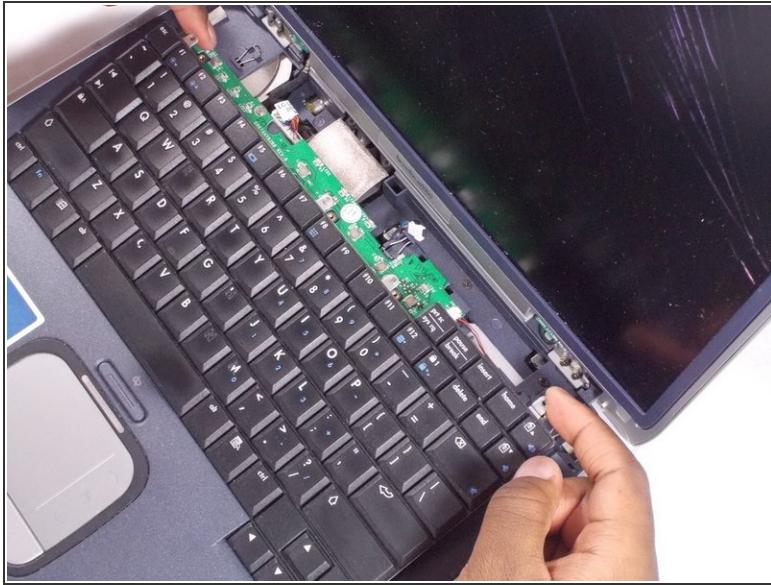
 Do not pull on the wires, as this can remove the wires from the connection, destroying the fuse.

## Step 6



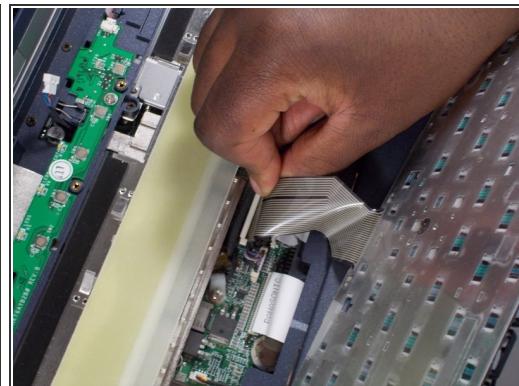
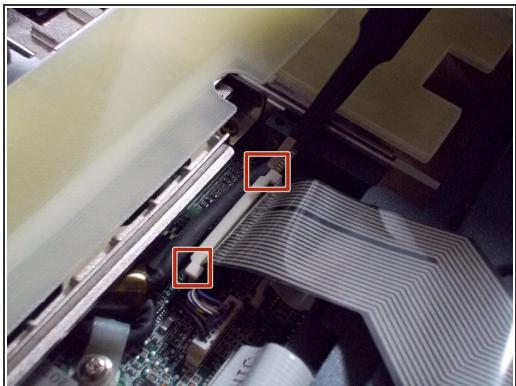
- Remove the four 4.0 mm Phillips #0 connecting the keyboard to the frame

## Step 7



- Gently lift the keyboard up from the frame so that you can see the ribbon still connected.

## Step 8

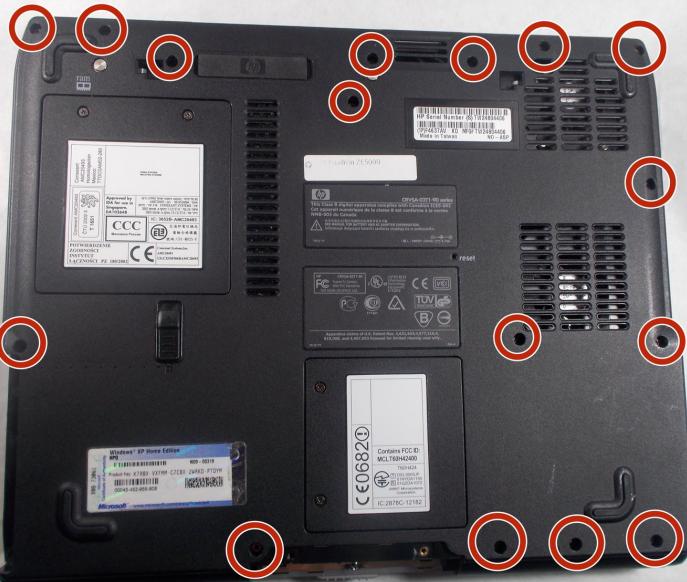


- Remove the ribbon by gently pulling up the ends of the white receiver it is inserted in to.

***i*** You may need to use tweezers for this part.

***i*** During reassembly, when inserting the ribbon, you will hear a quiet, clicking sound when pushing down on the ends of the receiver. Hearing this ensures the ribbon is in place.

## Step 9 — Primary Fan



- Remove sixteen 5.0 mm Phillips #1 screws from the underside of the device

## Step 10



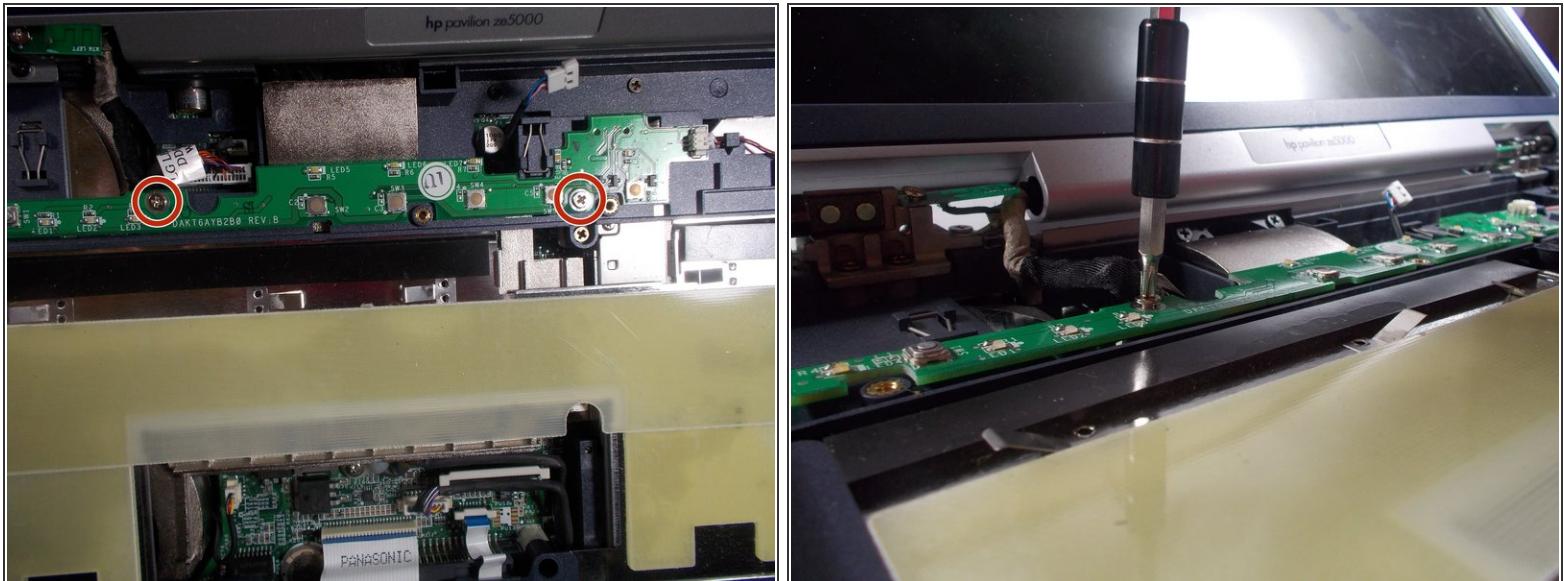
- Remove the one 5.0 mm Phillips #1 screw underneath the battery home

## Step 11



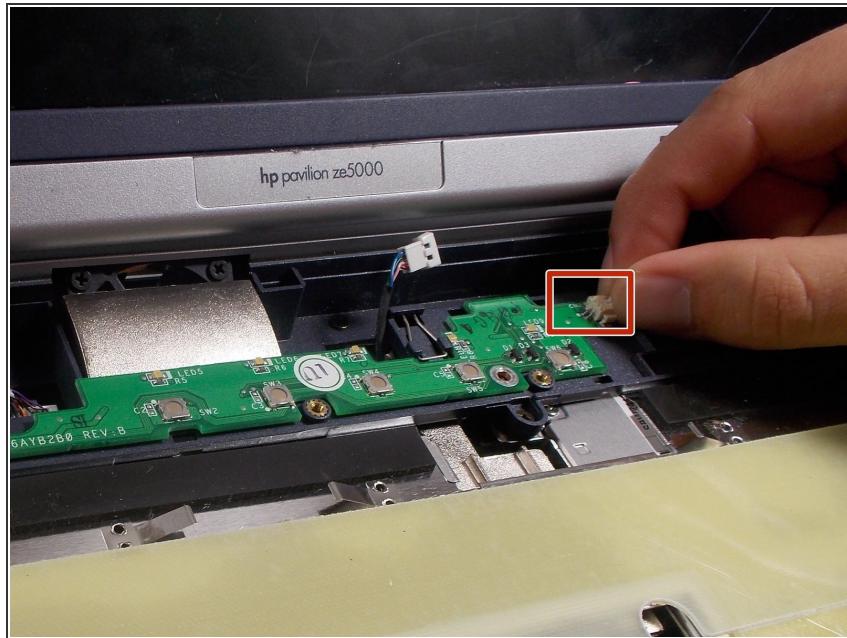
- Remove the additional four 5.0 mm Phillips #1 screws from the hinge of the device

## Step 12



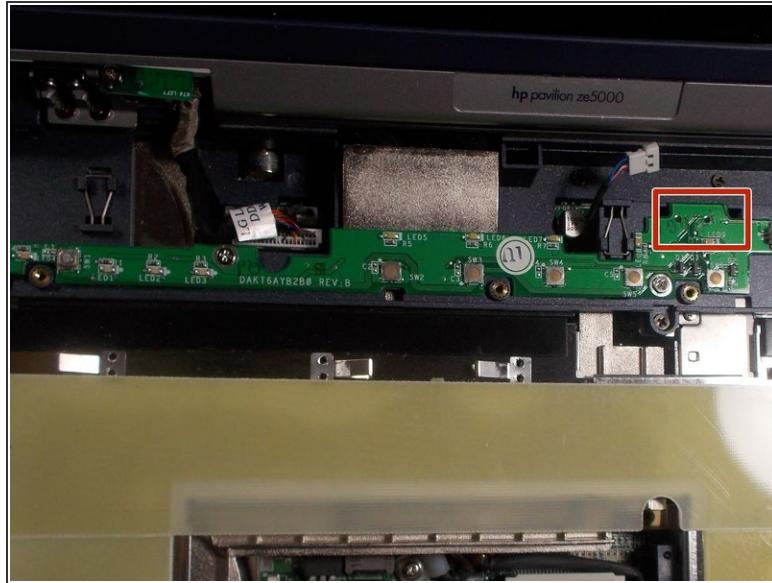
- Remove the two 4.0 mm Phillips #0 screws attached to the circuit board above the keyboard

## Step 13



- Gently remove the disconnection to the right of the circuit board

## Step 14

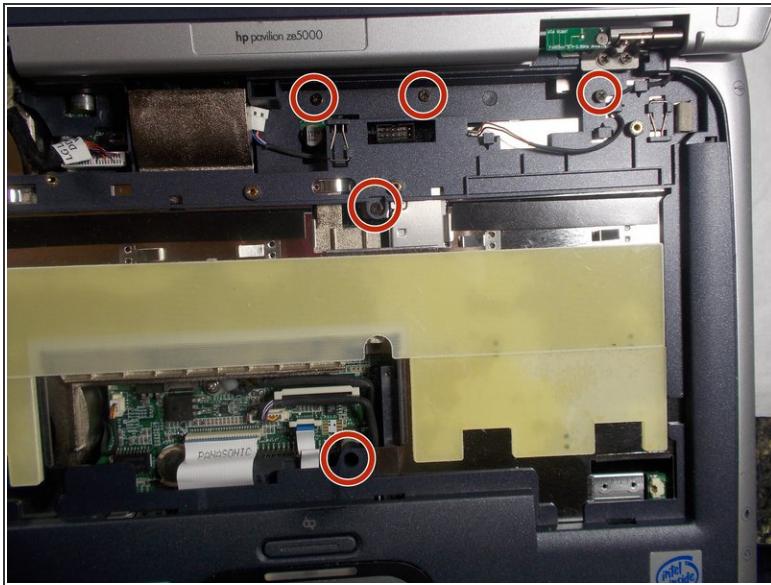


- Take the circuit board off by pulling up on the right side of the circuit board

*(i)* The board is plugged in to the device at this location still, but the outlet is hidden.

**⚠** Pulling on the right side can snap the circuit board, so it is essential you pull on this side only

## Step 15



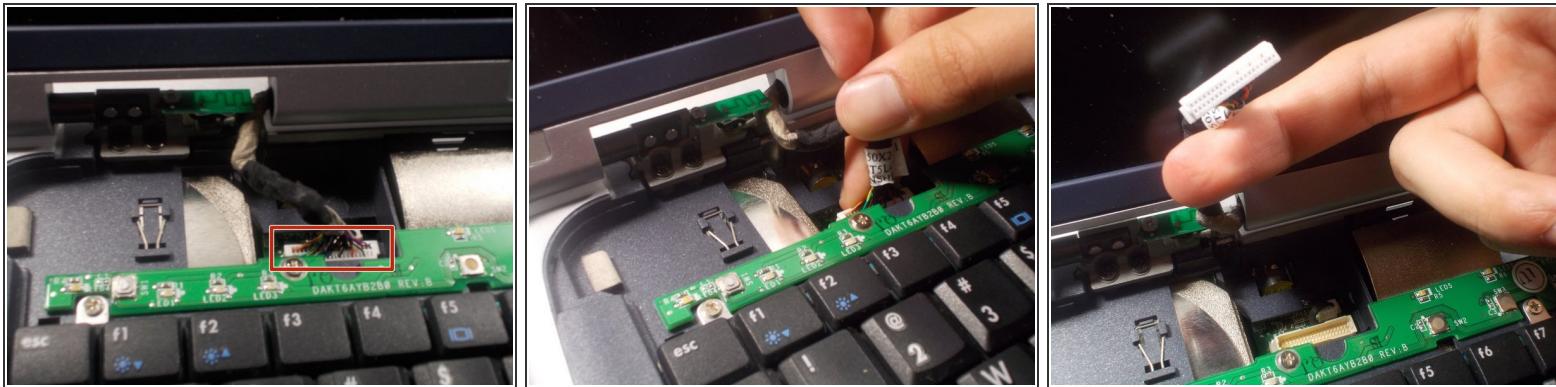
- Remove the five 5.0 mm Phillips #1 screws from underneath the keyboard

## Step 16



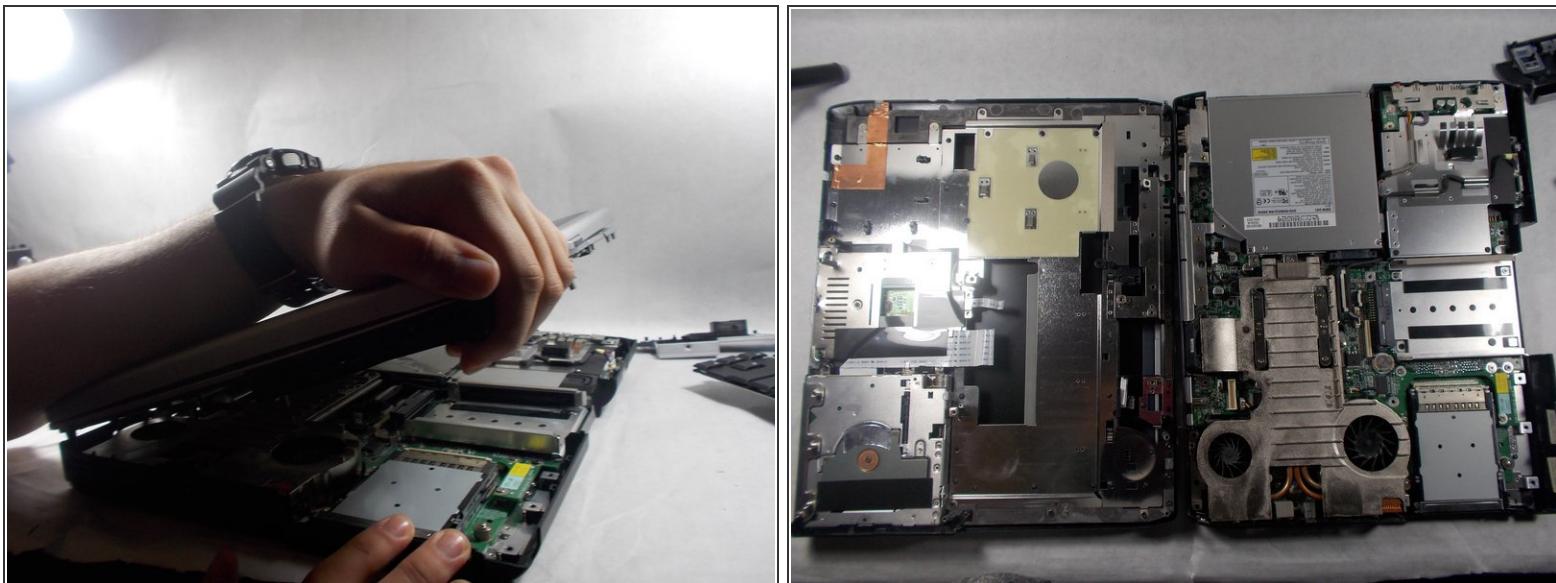
- Disconnect the ribbons from the circuit board underneath the keyboard housing unit

## Step 17



- Remove the connection beneath the left hinge of the device

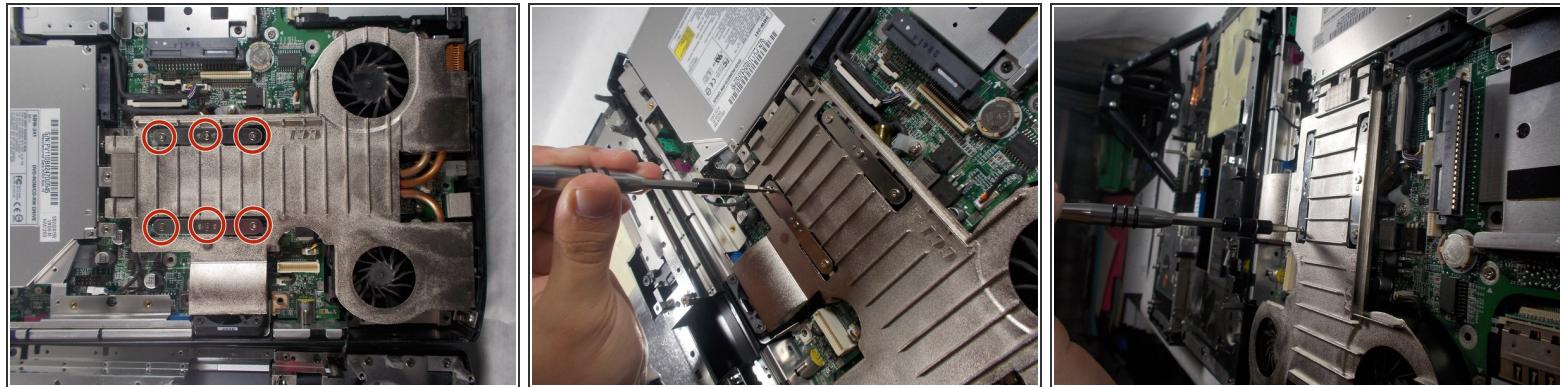
## Step 18



- Pry the device apart to expose the inside of the device

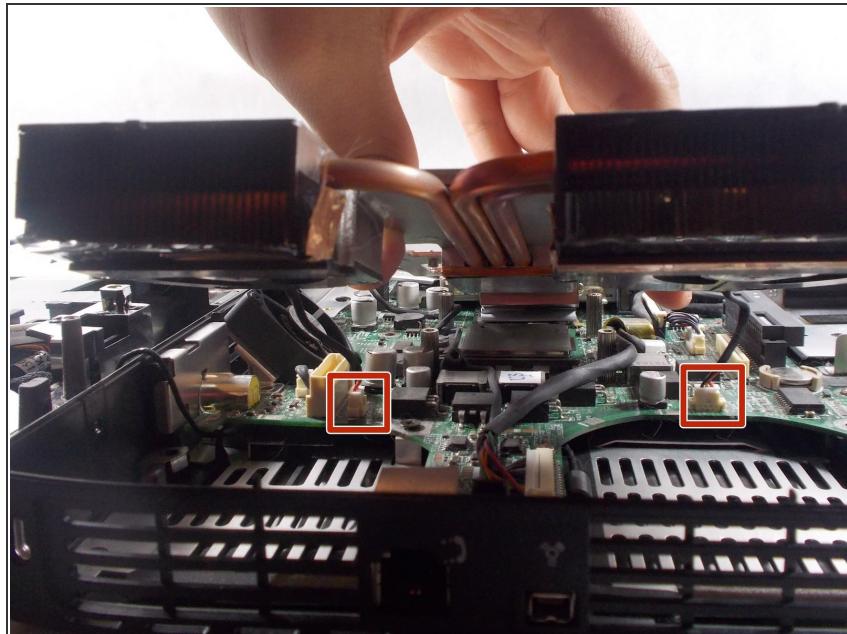
*(i)* This should be relatively easy since all connections and screws are removed. However, a spudger can be used if you are having difficulties.

## Step 19



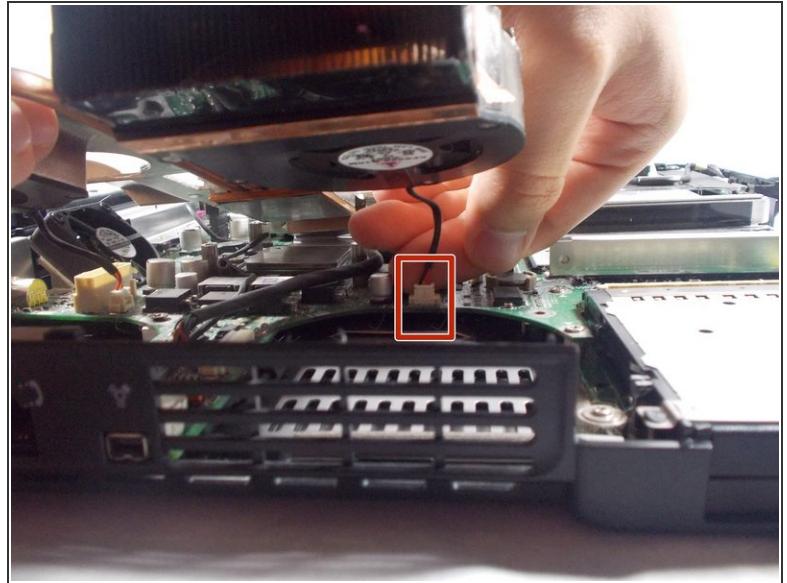
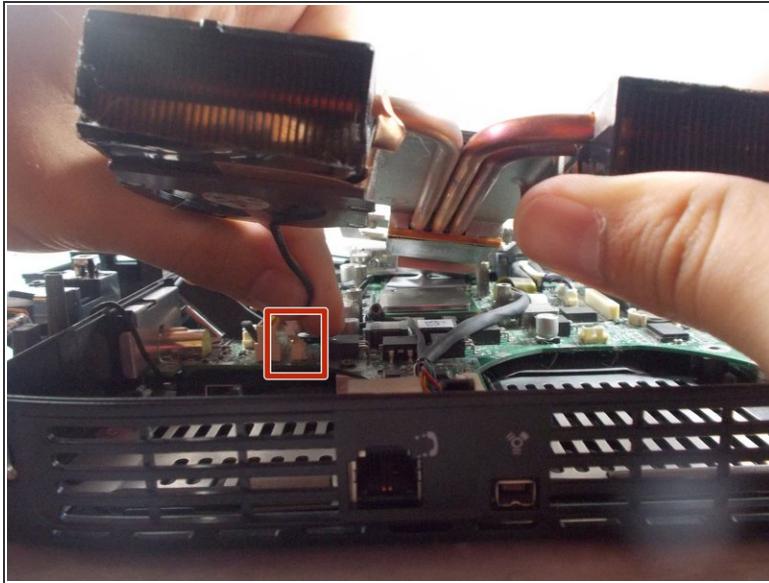
- Remove the latches securing the fan housing unit by unscrewing the six 4.0 mm Phillips #0 screws

## Step 20



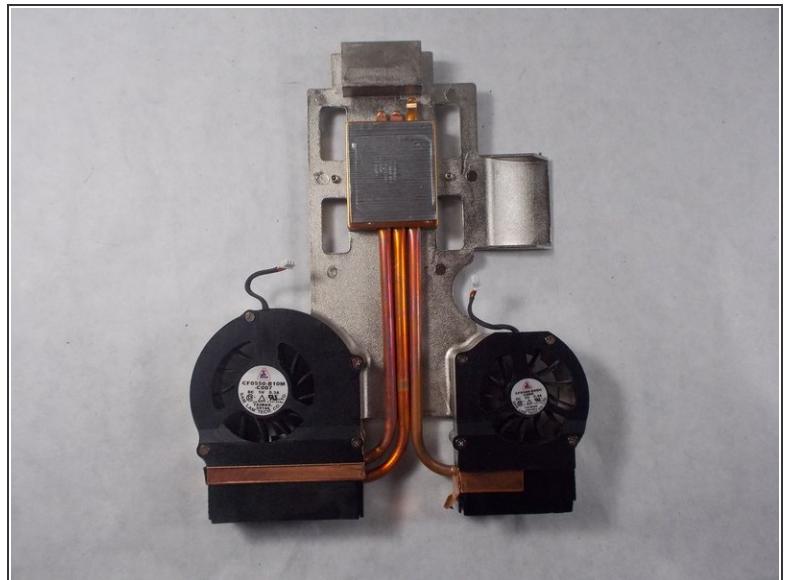
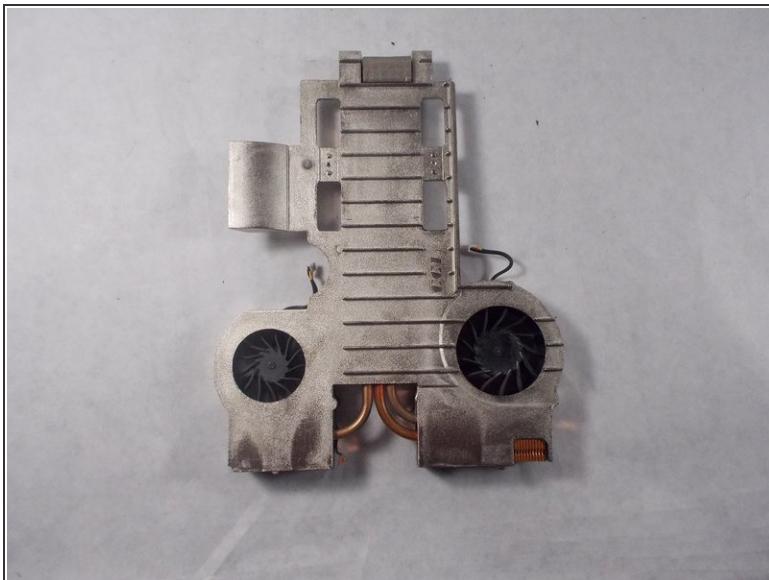
- Lift the housing unit a few inches from the device to expose the two small connections.

## Step 21



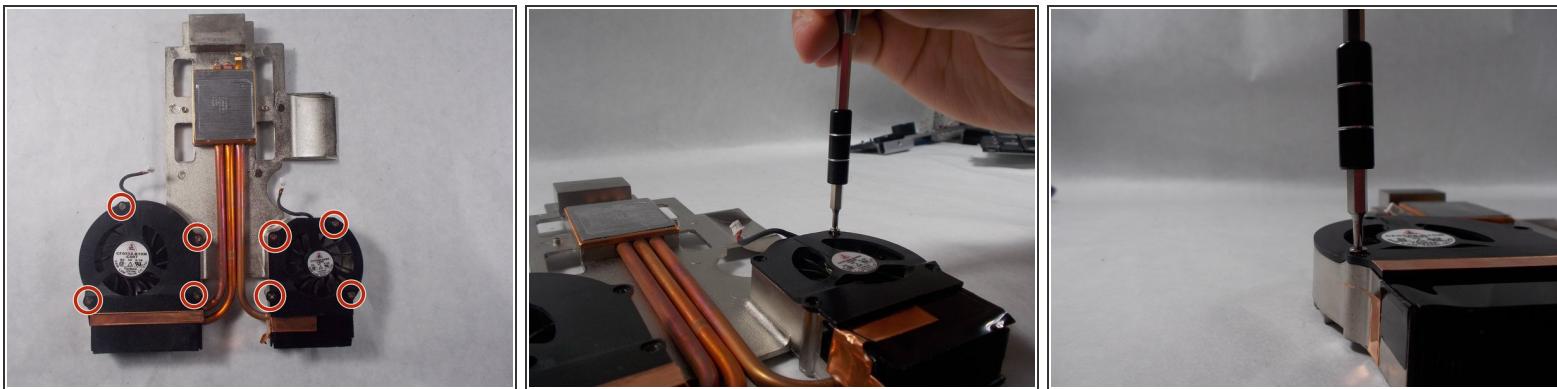
- Remove the two small connections directly above and below the fan housing unit

## Step 22



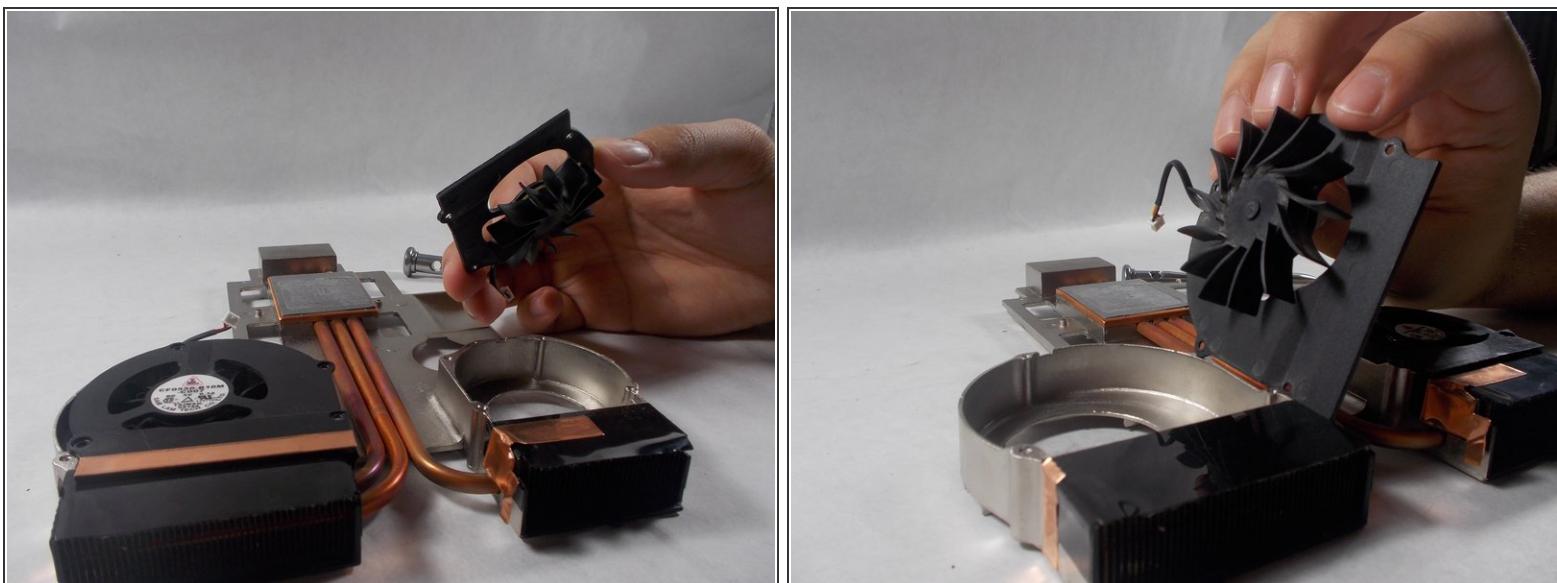
- Remove the fan housing unit and flip it over

## Step 23



- Remove the eight 3.5 mm Phillips #00 screws from the fan housing unit

## Step 24



- Remove both or whichever fan needs to be replaced

*(i)* There should be bronze electric tape on the fan housing unit. Do not hesitate to tear the tape in order to open the housing unit

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