



## INTRODUCTION

The heat sink would need to be replaced if the fan is broken. Prior to the removal of the heat sink, be sure to remove the screws in the order that they are numbered in. Also be sure to handle the heat sink with care as the copper wire is very sensitive.

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### TOOLS:

- [T5 Torx Screwdriver](#) (1)
  - [iFixit Opening Tools](#) (1)
  - [Metal Spudger](#) (1)
  - [Phillips #0 Screwdriver](#) (1)
  - [Tweezers](#) (1)
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## Step 1 — Back Panel



- ⓘ Ensure that the laptop is off so you do not shock yourself.

## Step 2



- Use the T5 Torx screwdriver to remove the ten 1mm screws located around the back cover.

### Step 3



- Remove the two rubber pads nearest to you using the metal spudger.

### Step 4



- Use the Phillips #0 screwdriver to remove the two 4mm screws that are under the rubber pads.

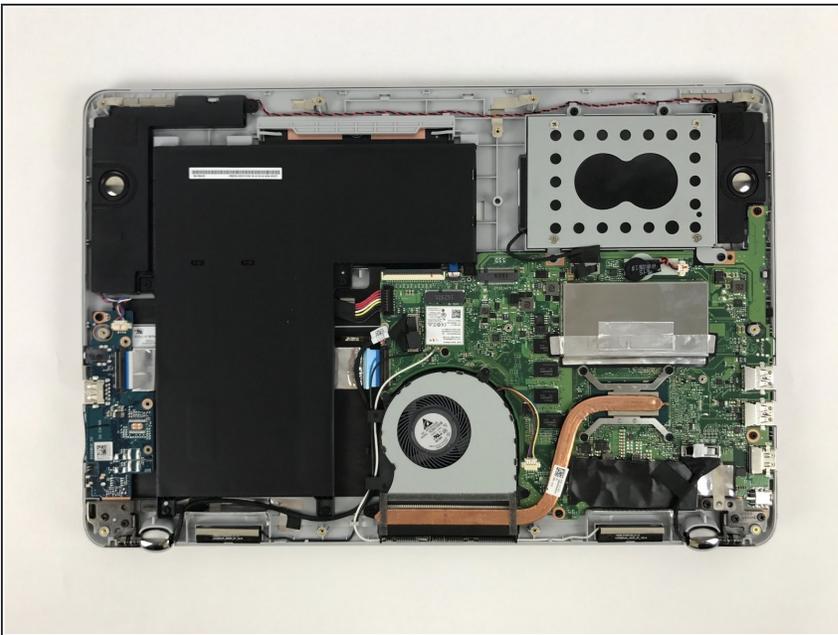
## Step 5



- Insert any of the plastic opening tools into the seam to separate the back cover (it is recommended to start at the corner of the hinges). If you did it right, then the cover should pop off.

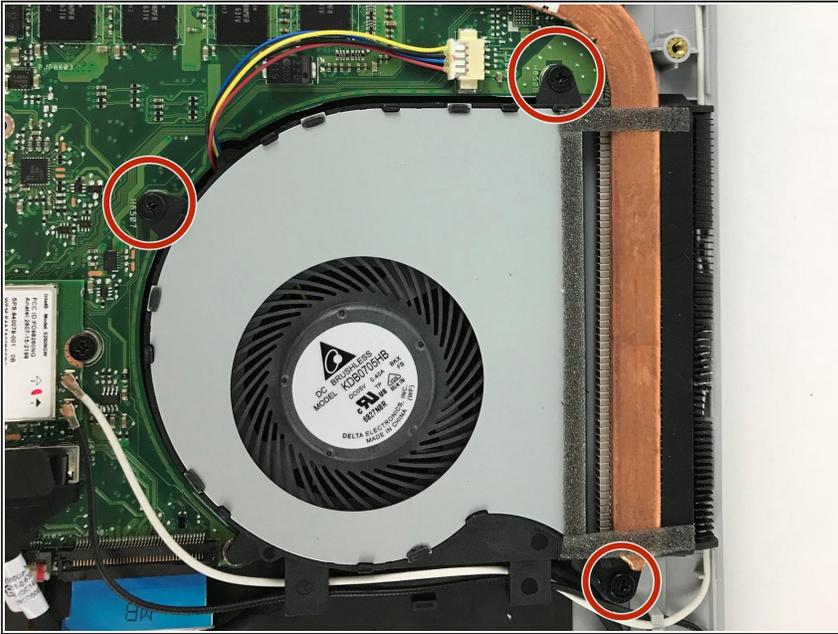
 Be careful as you may damage the tabs.

## Step 6 — Heat Sink



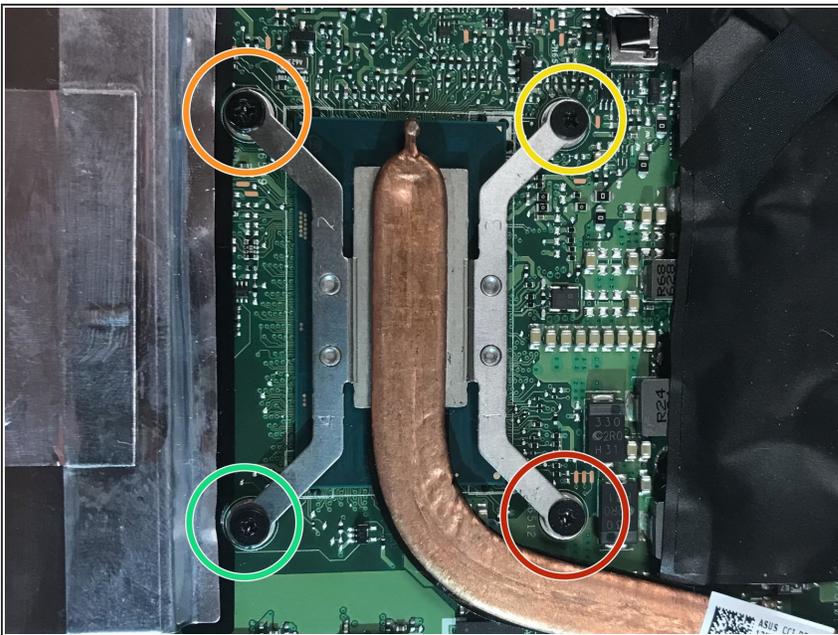
- Once the back cover is removed, have the laptop facing upside down with the hinges facing nearest to you.

## Step 7



- Using a Phillips #0 screwdriver, remove the three black 4mm screws located around the heat sink fan.

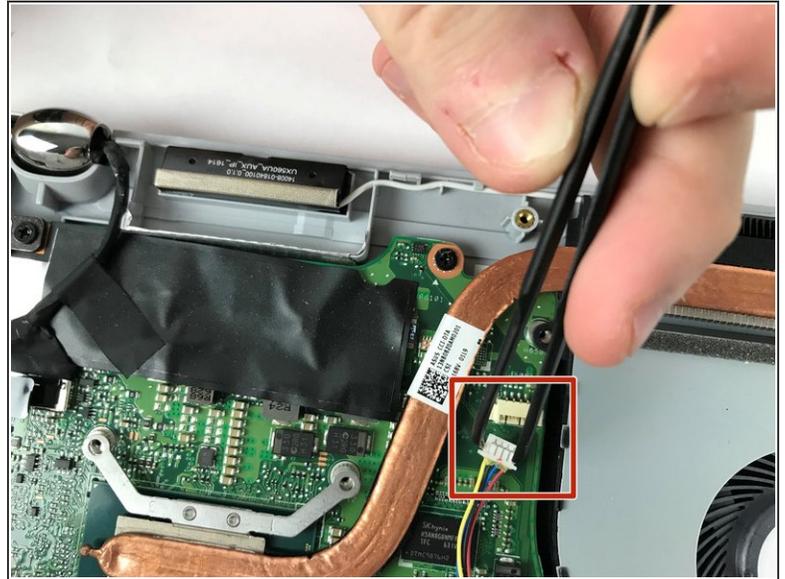
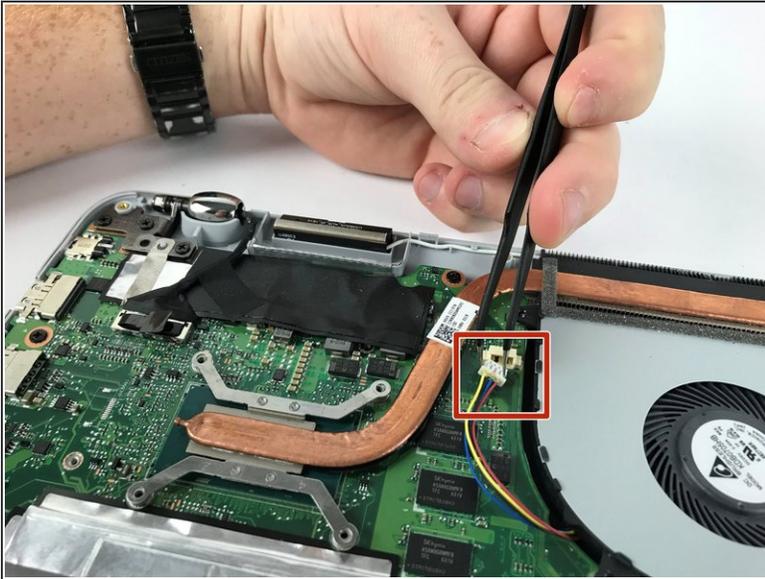
## Step 8



- Using the same screwdriver, remove the four 4mm black screws around the copper lining
- First remove the screw in the red circle.
- Then remove the screw in the orange circle.
- Next remove the screw in the yellow circle.
- Finally, remove the screw in the green circle.

**i** For this step, it helps to remove the screws in this order to prevent damage to the heat sink.

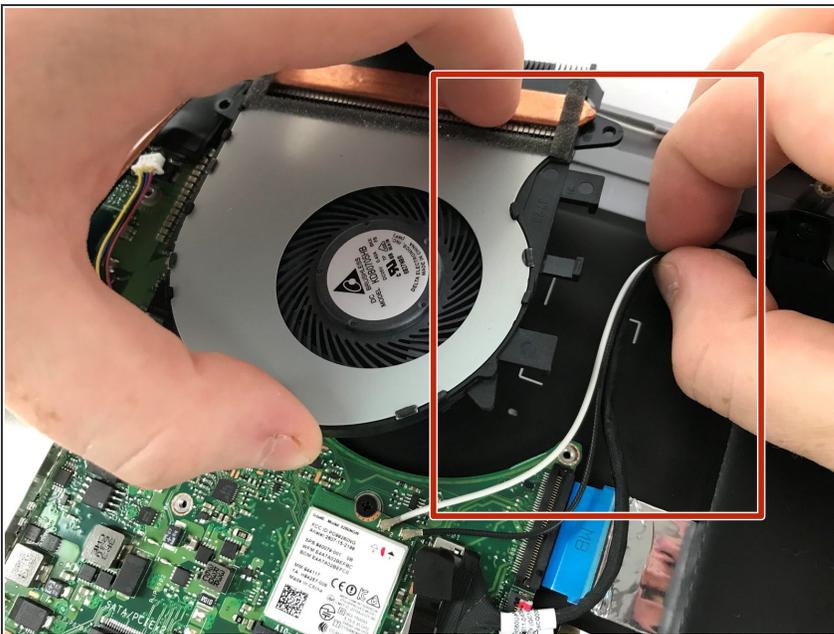
## Step 9



- Use a pair of tweezers to pull and disconnect the cable located to the right of the heat sink fan.

⚠ Take caution when removing the cable. Damaging the cable will stop the part from working.

## Step 10



- Carefully unravel the cables (two black and one white) to the left of the heat sink fan.

## Step 11



- Remove the heat sink from the device.

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