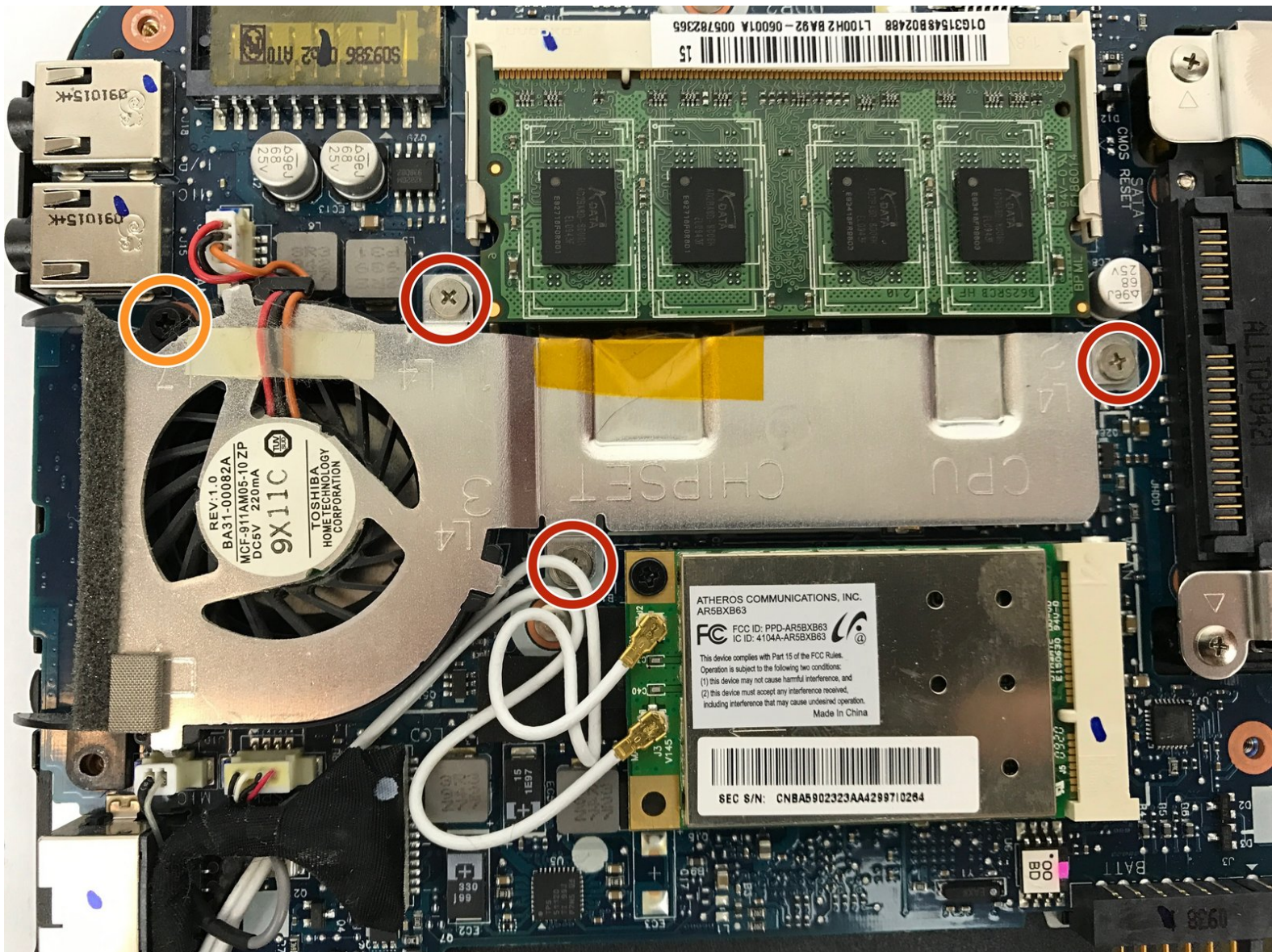




Samsung NP N310 HAA2US Cooling Fan Replacement

This guide will walk the user through replacing the cooling fan.

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INTRODUCTION

If the laptop is making noises, it may have something caught in the fan. These are often tiny particles that are hard to reach. It can be fix by taking the fan out and cleaning it with compressed air or replacing it with a new fan.




TOOLS:

- [Phillips #1 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
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Step 1 — Battery



 Make sure the laptop is powered off, and unplugged before removing the battery.

- Slide the battery switch to the unlock symbol, and the battery will pop up.
- Remove the battery.

Step 2 — Back Panel



- Locate, and unscrew the 11 Phillips 8mm back cover screws, and 1 Phillips 5mm screw on the RAM cover. Use a #1 Philips screw driver to remove the screws.

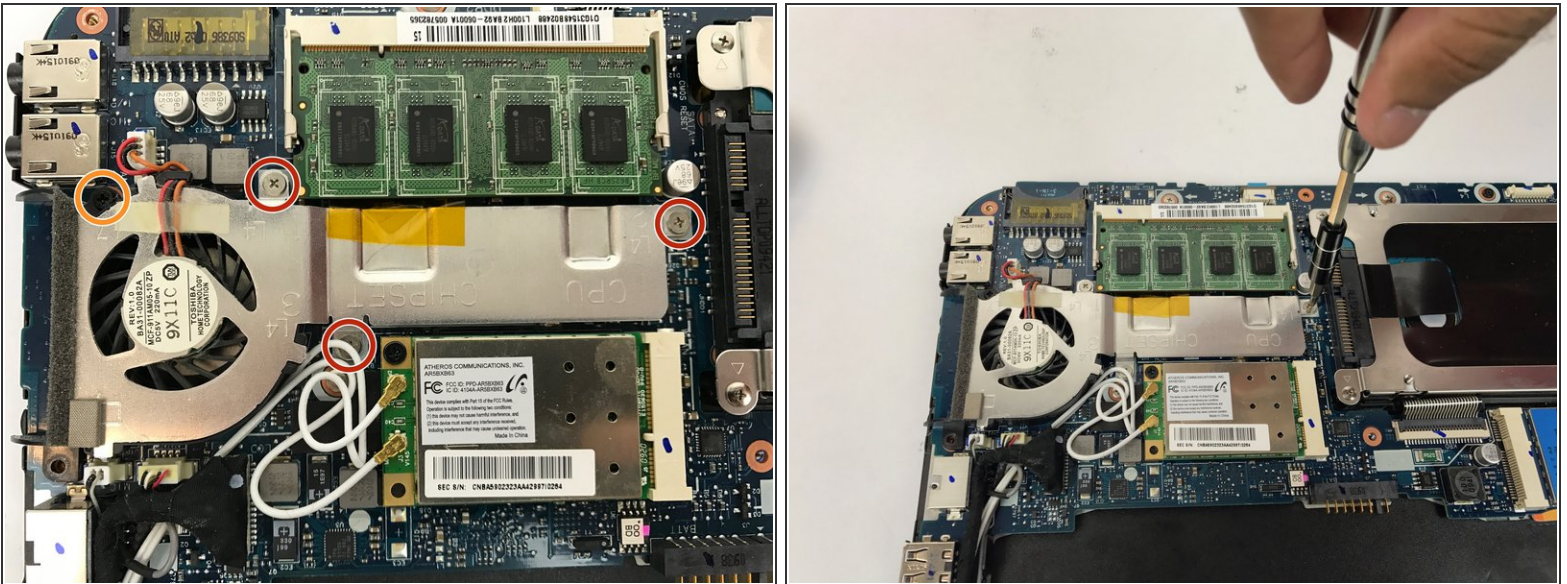
 If there are rubber pads covering the screws, use a spudger to remove the rubber pads.

Step 3



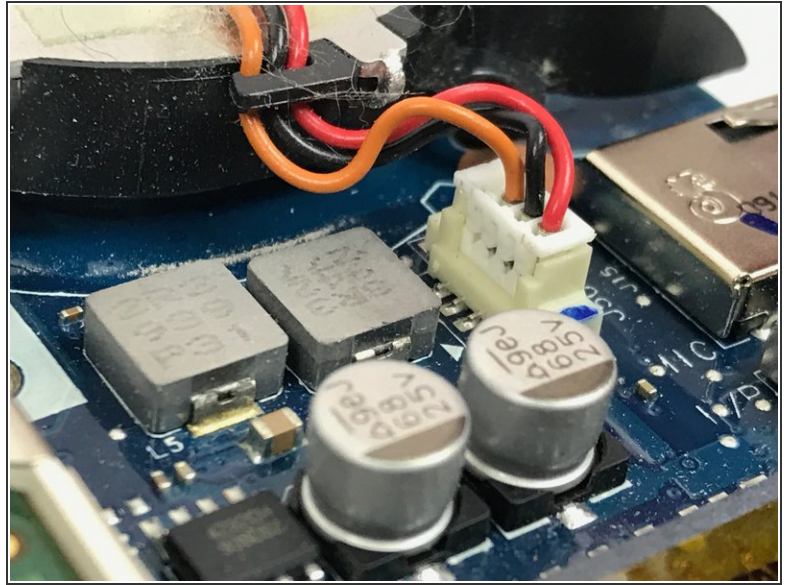
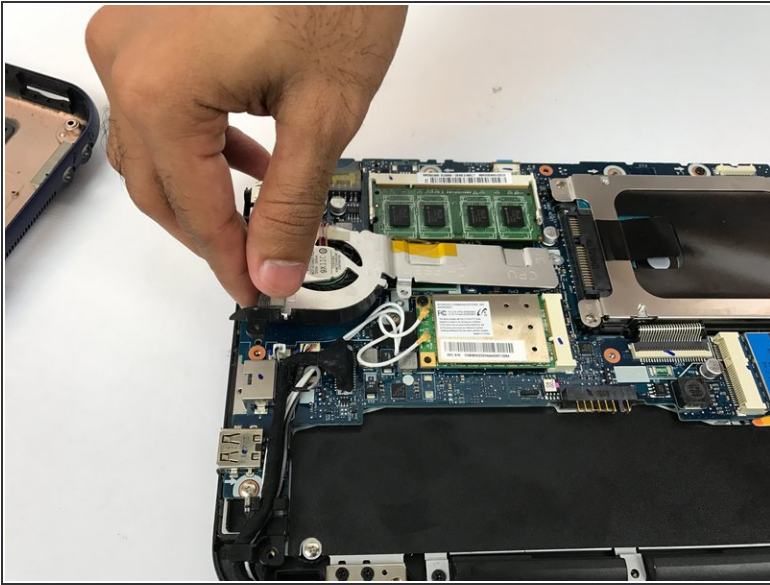
- Insert the plastic opening tool in the break between the back panel, and the keyboard.
- Drag the opening tool around the edge to separate it.
- Pull the back panel off of the laptop.

Step 4 — Cooling Fan



- Remove the 3 Phillips 4.5mm silver screws on the fan. Use a size 1 Phillips screwdriver
- Remove the 1 Phillips 8mm black screw on the fan. Use a size 1 Phillips screwdriver.

Step 5



- Lift the fan up, and remove the yellow tape.
- Unplug the fan cable.

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