



Asus ROG Zephyrus S (GX531GS-AH76) Upgrades

How to dismantle the ROG Zephyrus S so that you can upgrade components, clean the fans and repaste the chips if you want (I wont be just yet).

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This document was generated on 2019-10-06 06:05:15 AM (MST).

INTRODUCTION

This is a very simple Teardown/Repair/ Upgrade, whatever you want to call it. But for the people who are new to repair like me, I'm going to break it down like Barney The Purple Dinosaur was teaching it to kindergardners. I'm doing this on the GX531GS but the disassembly is very similar on all of the Asus Zephyrus gaming laptops with the forward placed keyboard.

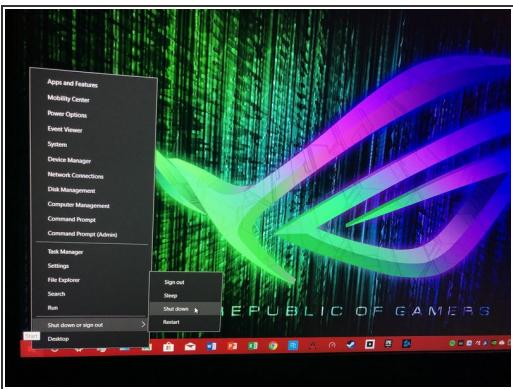
TOOLS:

- Anti-Static Brush (1)
- Phillips #0 Screwdriver (1)
- T5 Torx Screwdriver (1)
- iFixit Opening Tools (1)
- Anti-Static Wrist Strap (1)

PARTS:

- Samsung 970 Evo-1Tb (1)
M.2 2280 NVME SSD
- Corsair Vengeance Laptop Memory-16Gb (1)
DDR4 SDRAM, 2666mhz, SODIMM

Step 1 — Prepare Laptop, Tools and New Components



- First, unplug anything that is plugged into the ports of the laptop.
- Next, Shut Down the laptop completely.
- Make sure you have the tools you need and make sure you have space to work unobstructed.

Step 2 — Remove Fan Cover



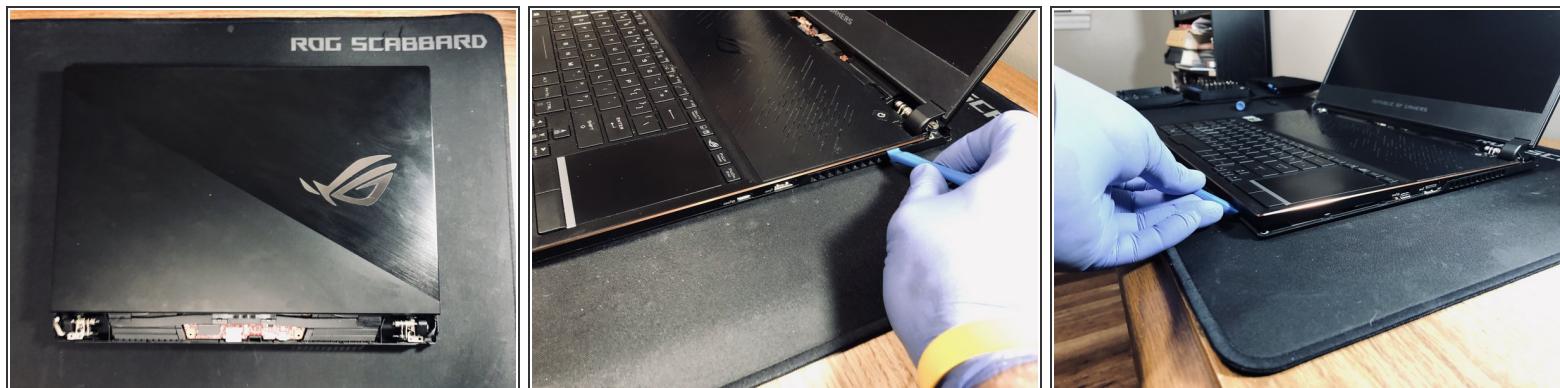
- Next, flip your laptop upside down and remove the 2 sets of screws highlighted in yellow with your Phillips 0 screwdriver, There are 2 sets of 2.
- Then open the laptop to roughly 45 degrees and place it on its side as shown. From this position you can wiggle the dust cover off.
- If you are having trouble then open or close the lid a little further. When you have it in the right position it will require no force, it will slide right off.

Step 3 — Screws, Screws, Screws



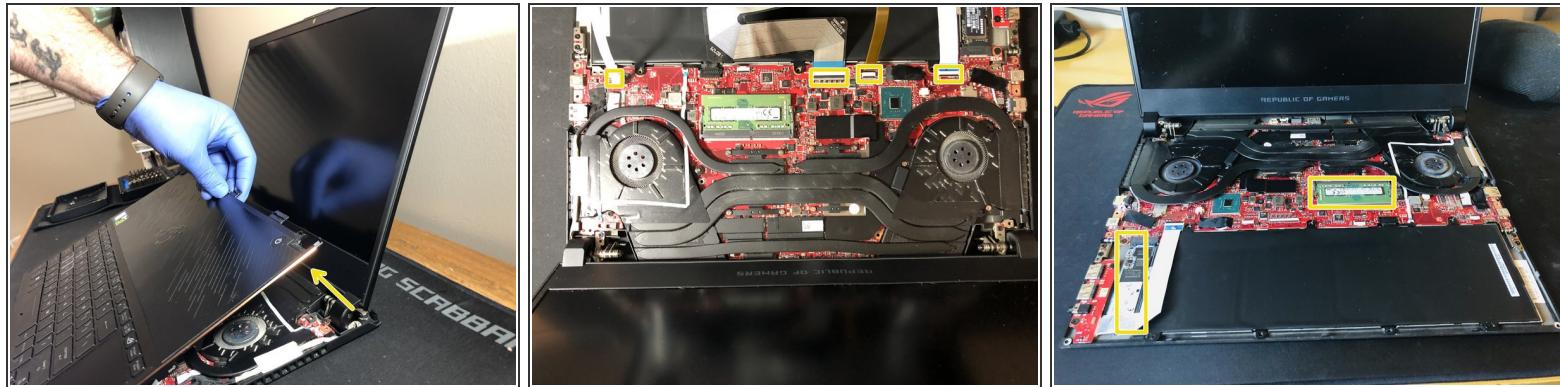
- Now remove the 13 Philips 0 screws marked in yellow .
 - Make sure you only remove the screws that are circled. There are a few that are not circled and do not need to be removed.
- Next remove the 6 T5 Torx screws circled in orange
- flip the laptop over and you are going to gently pry the hinge cover off.
- Once loose, carefully disconnect the 2 cables marked in yellow that are attaching it to the motherboard.

Step 4 — Keyboard Removal



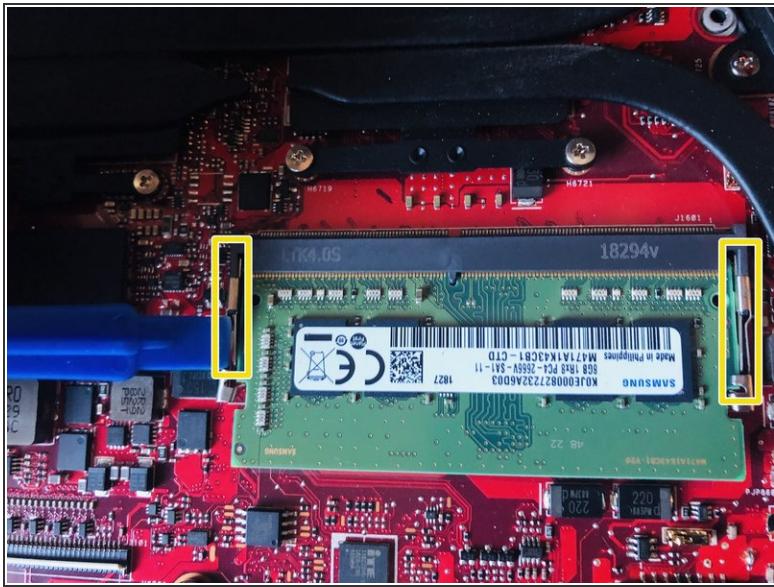
- It should now look like this.
- Now flip open the lid. Use your opening tool to pry apart the seam shown.
 - Work your way around the seam until it is loose all the way around but do not lift the keyboard off yet.

Step 5 — Remove Keyboard



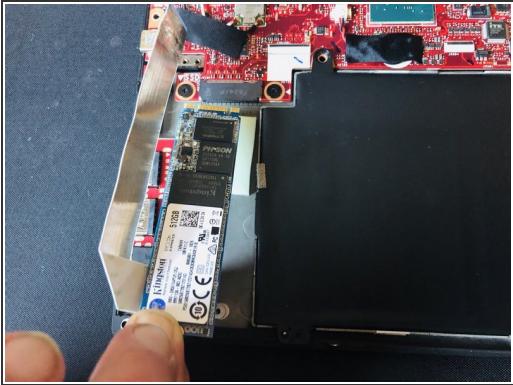
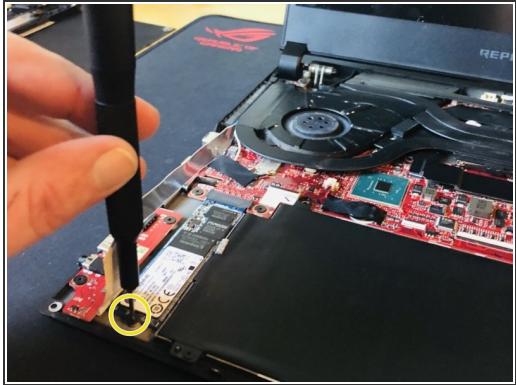
- Very carefully lift the keyboard from the side closest to the screen while not pulling the attaching cables too tight
- Once you have space to reach in, then you can unclip the 4 cables from their connectors marked with yellow boxes here and then set the entire keyboard assembly to the side.
- Your laptop should look like this now.
 - The yellow box on the left is around the SSD and the one on the right is the RAM.

Step 6 — Remove the Old RAM



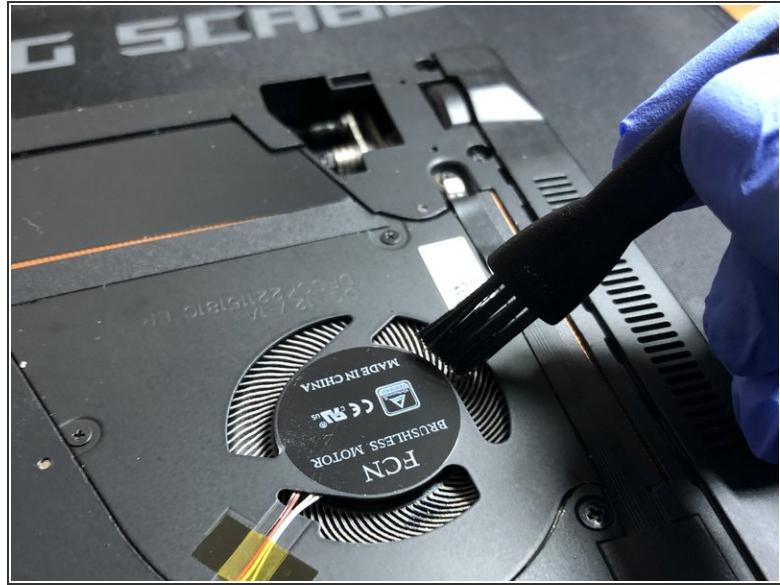
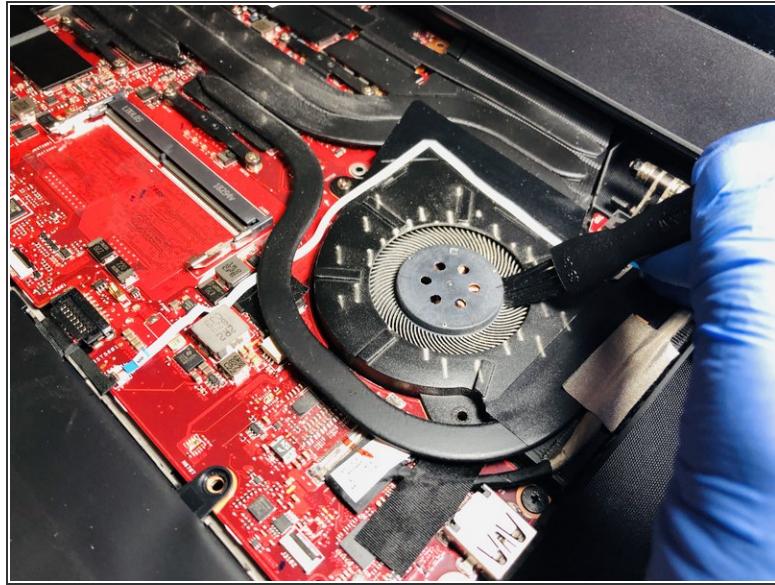
- Push the retaining clip on each side of the RAM module to the left and right away from it. This will release the RAM and it will pop up at a 45 degree angle. You can now slide it out.
- Next slide your new stick of RAM in and push it down until it clicks.

Step 7 — Remove Old SSD



- Next, fold the ribbon out of the way that is covering the SSD and remove the SSD retaining screw.
- Now gently pry up on that same end until it lifts off the sticky thermal pad underneath. It doesn't take much. Once you are clear of the pad you can pull the SSD out of its M.2 socket.
- Now install your new SSD and secure it with the retaining screw.

Step 8 — Cleaning then Re-assembly



- While it is apart, clean your fans from above and underneath. Get all the dust out you can. Once done you can start putting it back together in reverse order.

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