



HP OMEN 15-dc0030nr Thermal Paste Replacement

This guide covers all HP OMEN 15." laptops produced in 2018.

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 **TOOLS:**

- **Phillips #1 Screwdriver** (1)
- **Arctic Silver Thermal Paste** (1)

Step 1 — Removing the back cover



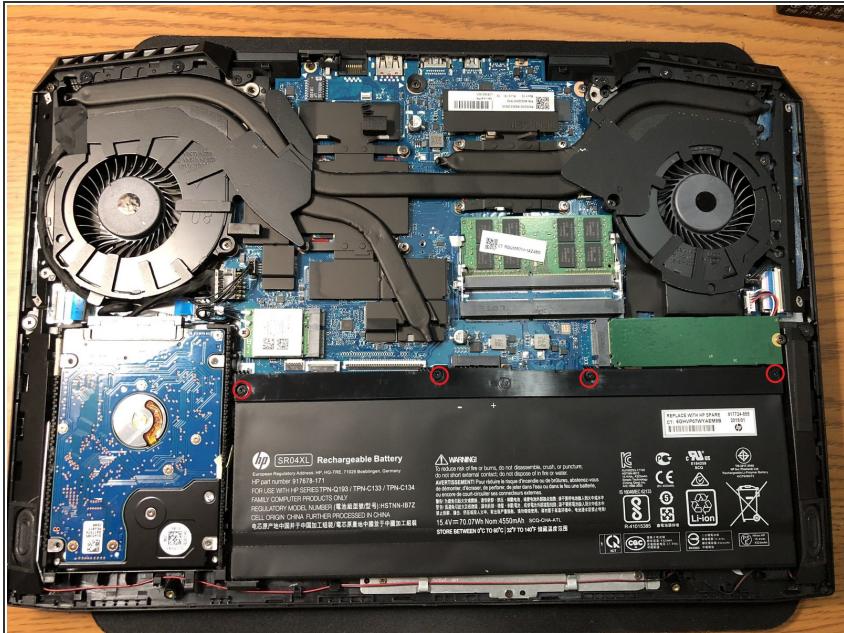
- Remove the six back screws from the laptop. You will need a P1 screwdriver.

Step 2 — Removing the back cover



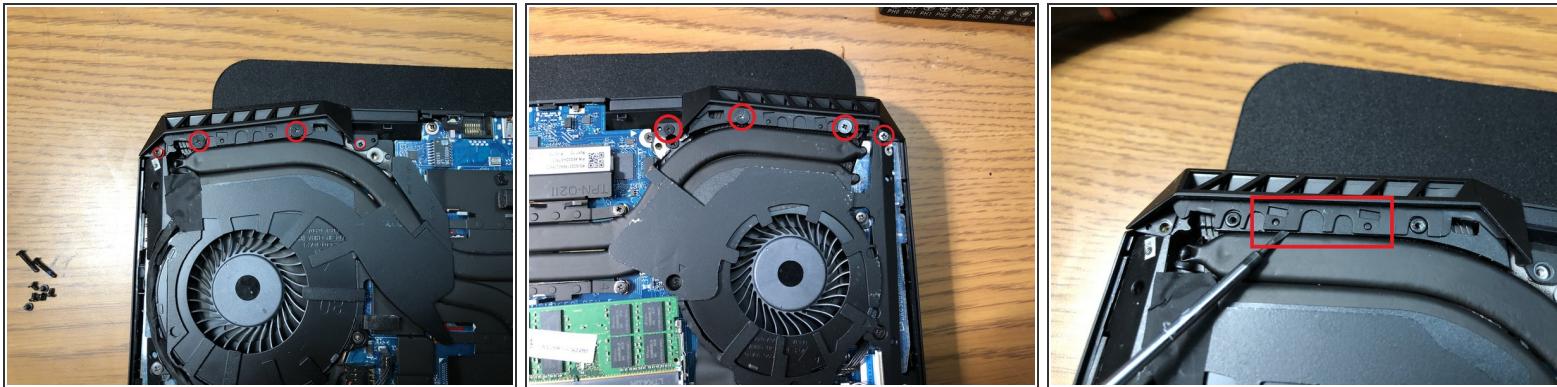
- Grasp the back cover where the hinges are for the display. Pull upwards from the laptop, you will need to use some force the very first time you open it.

Step 3 — Removing the battery



- Remove the 4 screws holding the battery in place. Once removed, pull up on the plastic bar connected to the battery.

Step 4 — Removing the heatsink cover



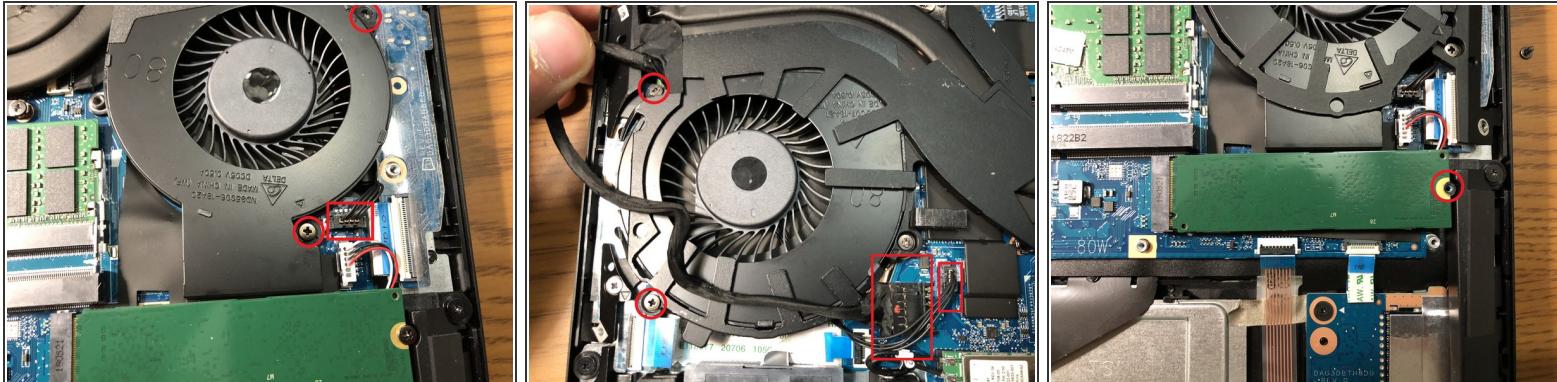
- Remove the four screws from the cover. Insert a flathead screwdriver or a razor blade to lift the cover off the plastic nubs that hold it in place.

Step 5 — Removing the fan and heatsink covers



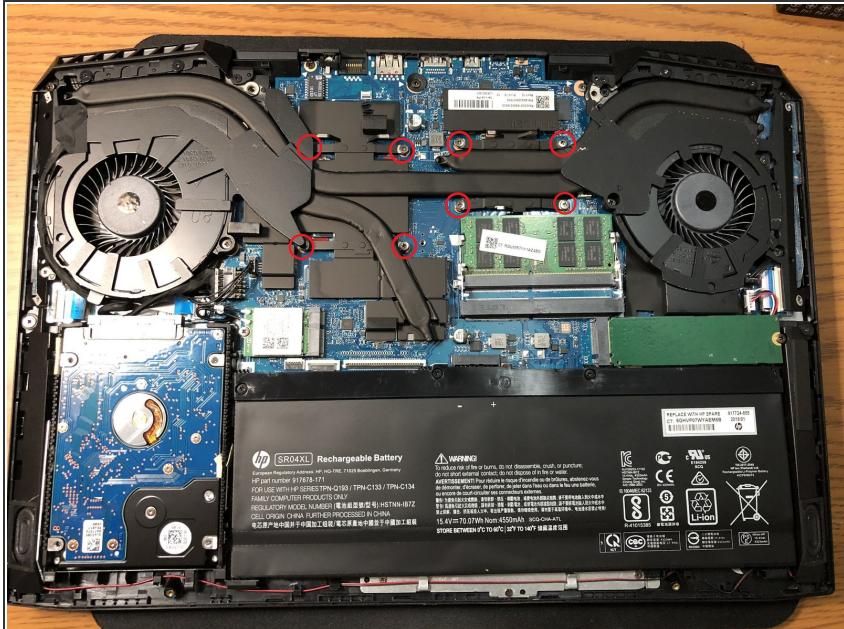
- Remove the screws from the metal cover, lift away from the fan.

Step 6 — Removing the fans



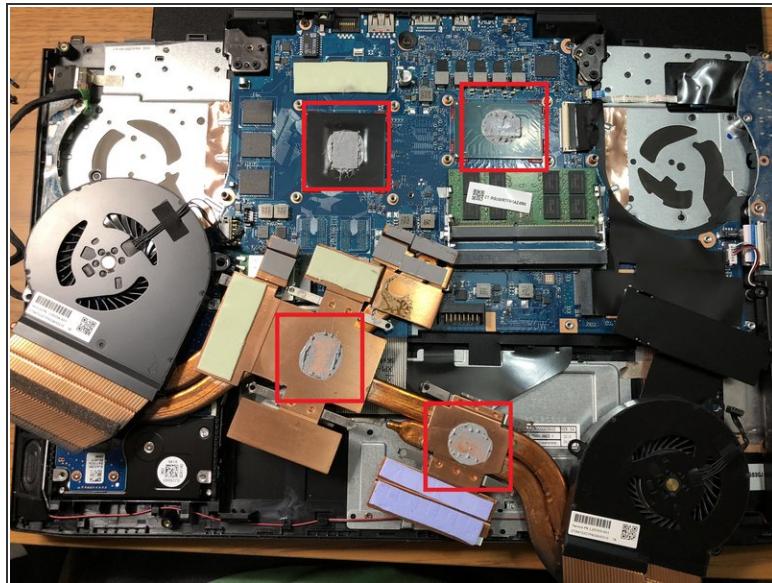
- Remove the two screws from both fans. Disconnect the connectors. Do not pull cooling system away yet.
- Remove your SSD by taking the one screw out. Lift straight up, and the SSD will come out.

Step 7 — Removing the heatsink



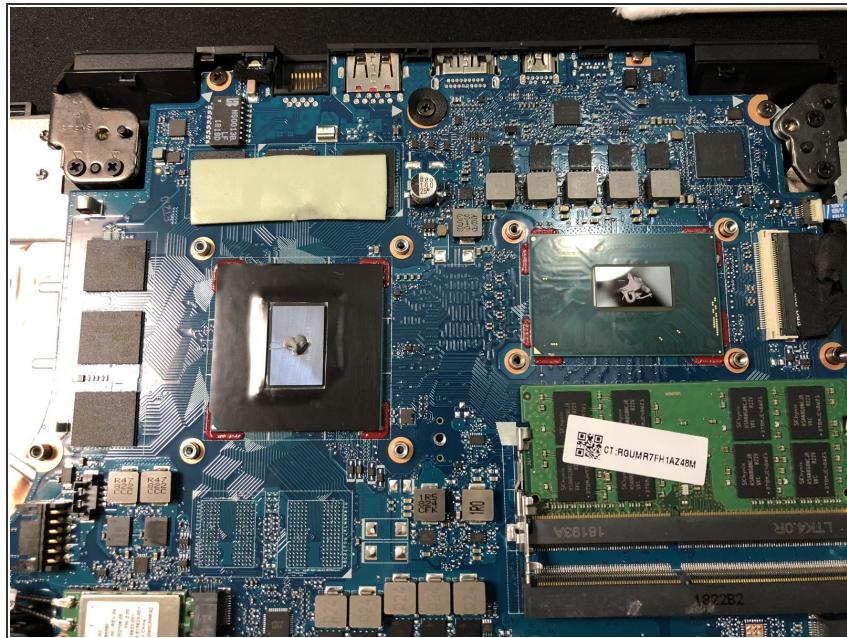
- Remove the 8 screws holding the heatsink to the dies. Note that you need to remove the fan covers first.

Step 8 — Cleaning the heatsink and dies



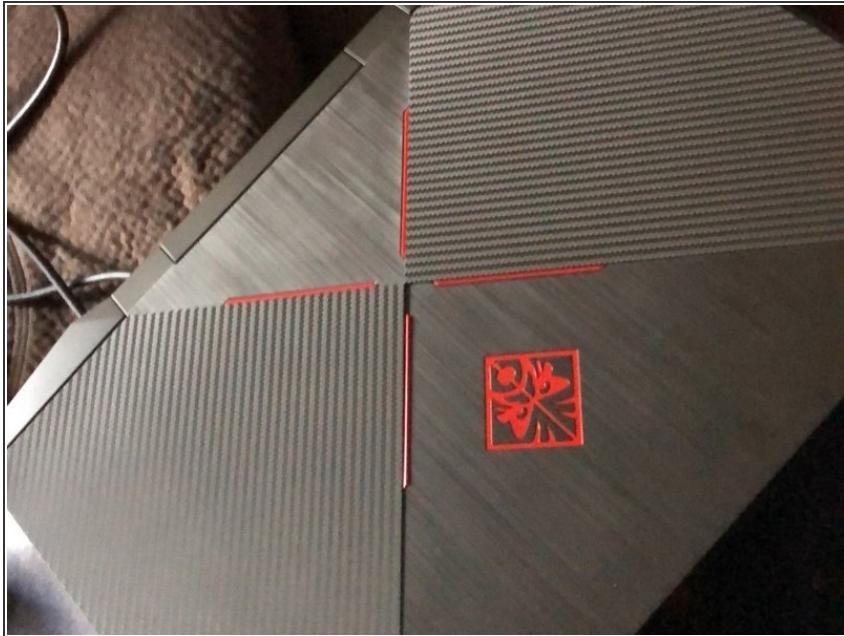
- Clean these off with a paper towel, and 91% alcohol.

Step 9 — Adding thermal paste



- I used Arctic MX-4 for these step for its thermal properties, and it was hanging around in my desk. You can use any thermal paste that you would like, just use the same process.
- Drop a pea sized drop on each die. As long as your paste is not electrically conductive, do not worry if you put a little too much on.
- You'll know if you have put the right amount of thermal paste if your temperatures are lower/you are not thermal throttling anymore.

Step 10 — Reassembling the laptop



- Now that you've added the thermal paste, go back through this guide, retracing your steps until you've completely reassembled your laptop.
- Fire up MSI Afterburner, Intel Extreme Tuning Utility OMEN Command Center, or your favorite monitoring program and check your temps/thermal throttling while gaming.
- Now my temperatures have gone down about 5 degrees centigrade during gaming, and about 10 degrees on idle.
- The biggest improvement is that your OMEN will no longer thermal throttle. I have noticed a 20-40fps improvement in all of the games I play, including Overwatch, H1Z1, League of Legends, Counter-Strike, and BeamNG.Drive.

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