



Lenovo ThinkPad X1 Carbon 6th Gen Fan Replacement

This guide details how to replace the fan in a Lenovo ThinkPad X1 Carbon 6th Gen.

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INTRODUCTION

This guide will cover how to remove and replace the fan in the Lenovo ThinkPad X1 Carbon 6th Gen. This may be necessary if you need to access the fan for cleaning, or if you need to replace a broken or faulty fan. It is important for your fan to work properly because it prevents overheating which may damage your laptop. If you are having trouble with your computer fan, consult our [troubleshooting page](#). Before beginning, be sure to power off your laptop and disconnect it from any power source.

TOOLS:

- [Phillips #0 Screwdriver \(1\)](#)
- [iFixit Opening Tools \(1\)](#)
- [iFixit Opening Picks set of 6 \(1\)](#)
- [Nylon Tipped Tweezers \(1\)](#)

Step 1 — Back Cover



- Use a Phillips #0 screwdriver to loosen the five screws that secure the back cover to the laptop.
- The screws do not completely come off from the back cover. Loosen until the screws are completely loose.

Step 2



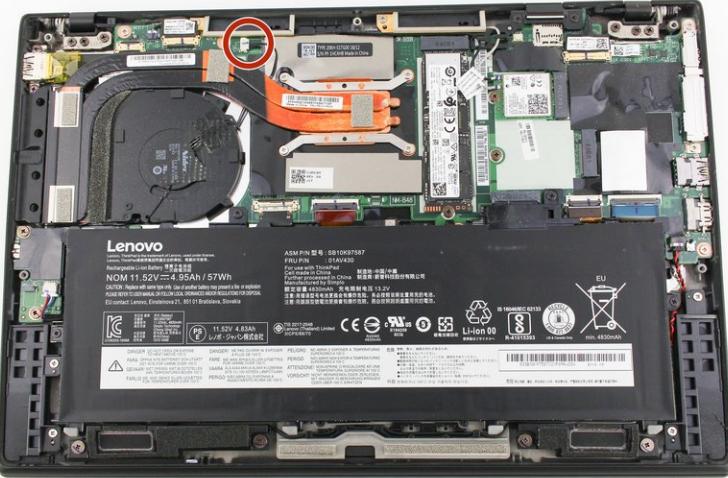
- Use a Jimmy to lift the cover directly up off of the locating pins.
- Though a metal opening tool is shown in the image, we recommend using plastic opening tools to minimize any cosmetic damage.
- Once the case is lifted enough using the tool, grab the cover and take it the rest of the way off.
- If you encounter resistance when lifting the cover, revisit the screws to see if any of them are still threaded on to the device.

Step 3 — Fan



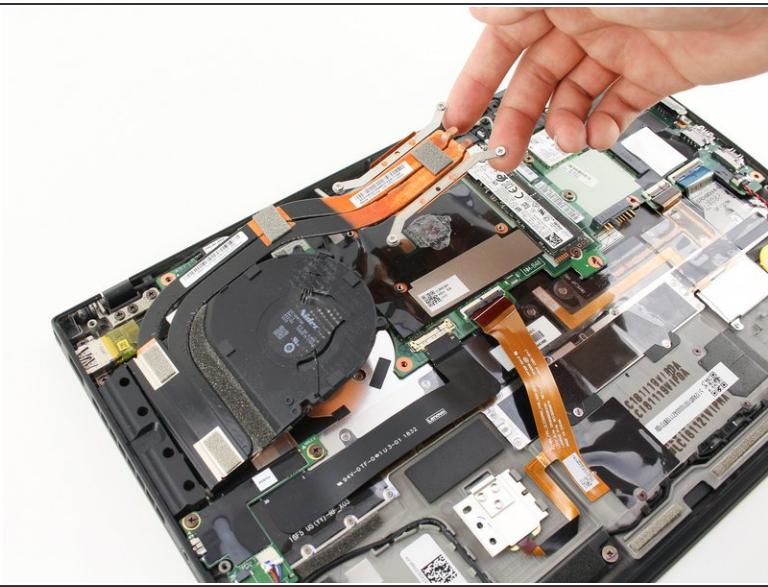
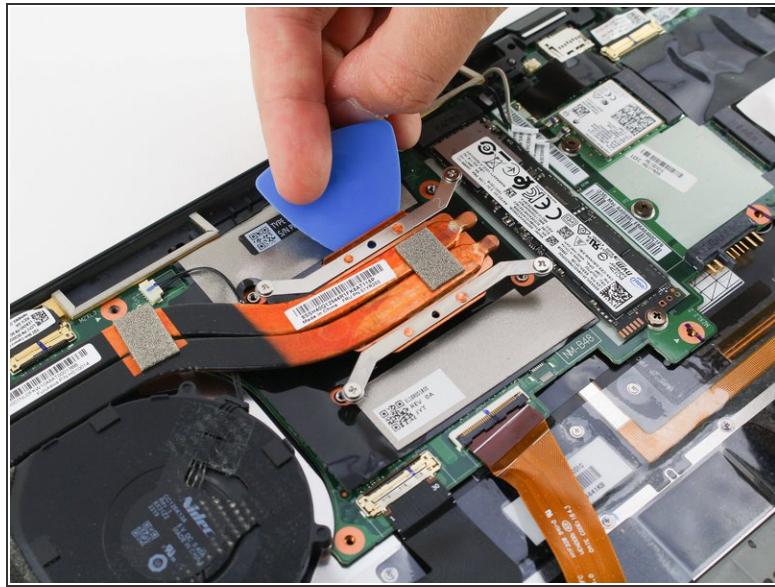
- Use a Phillips #0 screwdriver to loosen the four screws that secure the fan to the motherboard.
- The screws do not completely come off from the fan mount. Loosen until the screws are completely loose.

Step 4



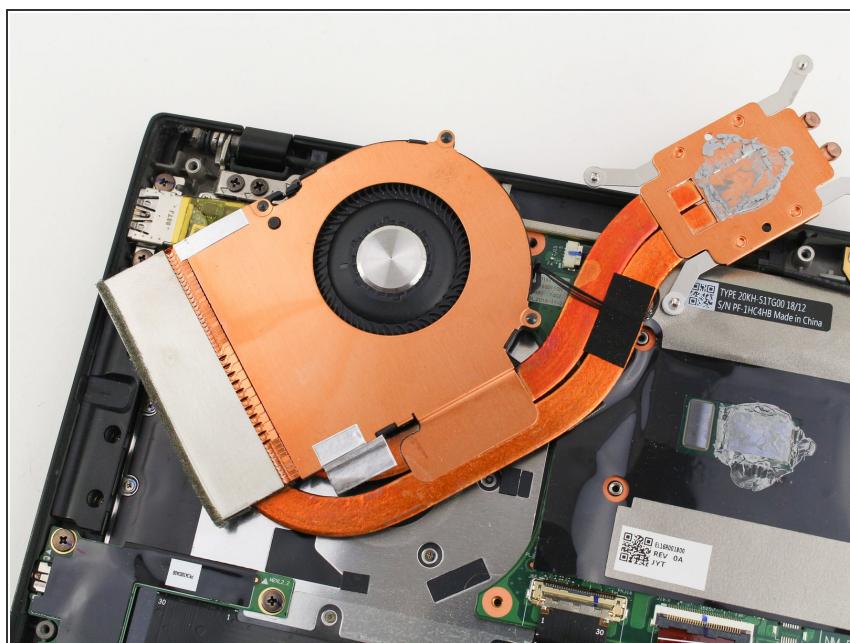
- Use nylon tipped tweezers, or your fingers, to gently pull the fan's power cable towards the SSD, disconnecting it from the pins.
- Be sure to pull on all of the cables at the same time.

Step 5



- Use a plastic opening pick to lift the fan mount.
- Use your fingers to gently pull the fan diagonally away from where it is connected.

Step 6



- Turn the fan over to expose the interior.
- If necessary, clean out the fan or wipe away and replace the thermal paste.

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