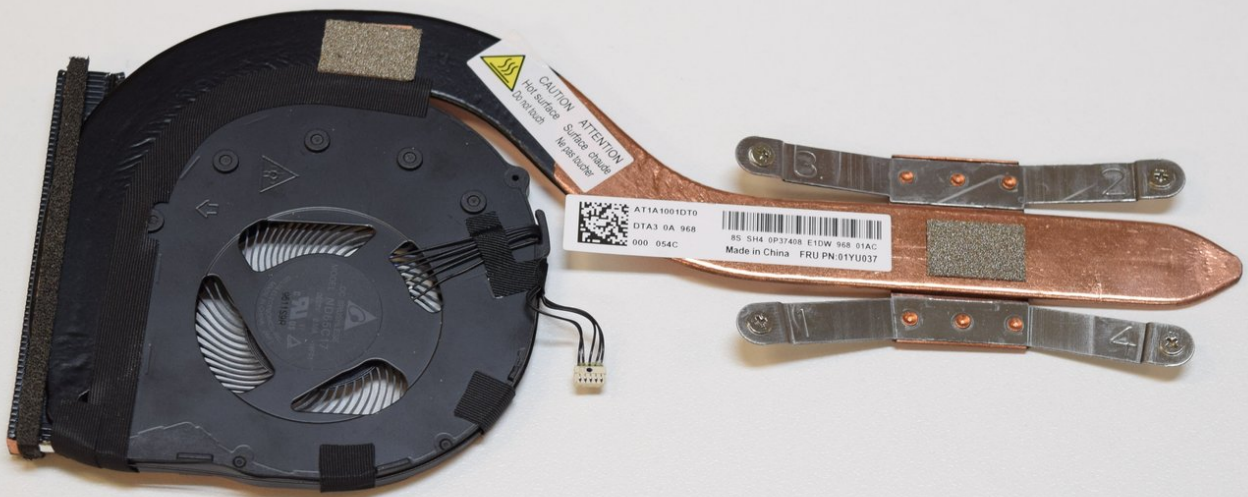




Lenovo ThinkPad X1 Carbon 7th Gen Thermal Fan Assembly Replacement

In the guide you will learn how to remove and...

Written By: Jaxon Haws



INTRODUCTION

In the guide you will learn how to remove and replace the thermal fan assembly in the Lenovo ThinkPad X1 Carbon 7th Gen.

Damage to the computer can cause the fan to stop working, causing the computer to over heat, risking damage to the other components.

Before attempting any guide, ensure you shutdown and unplug your device.



TOOLS:

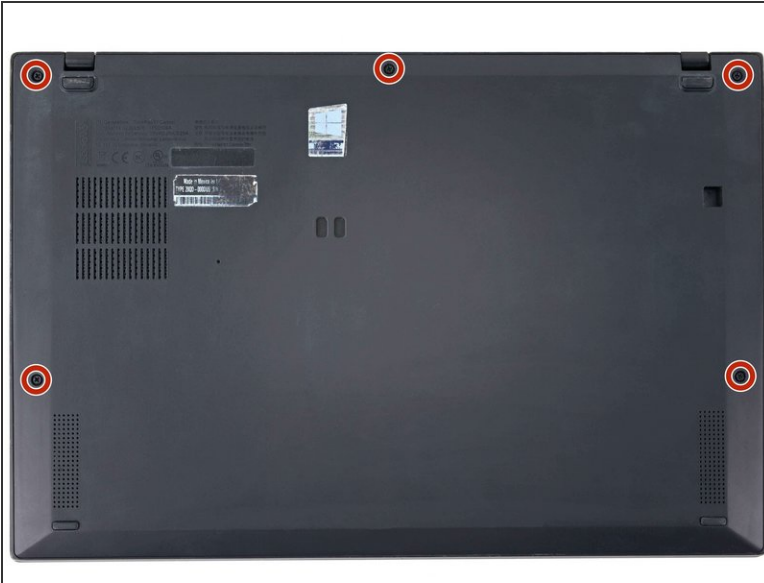
- [1 x Opening Picks](#) (1)
- [Spudger](#) (1)
- [Tweezers](#) (1)
- [Phillips #0 Screwdriver](#) (1)
- [iFixit Opening Tool](#) (1)



PARTS:

- [Lenovo ThinkPad X1 Carbon 7th Gen Fan and Heatsink Assembly](#) (1)

Step 1 — Back cover removal



- Use a Phillips #1 screwdriver to loosen the five captive screws securing the back cover.

Step 2 — Insert an opening pick



- Insert an opening pick at a 45° angle between the back cover and frame near the rear middle screw.
- Pry up on the pick to release the clips securing the back cover to the frame.
 - ⓘ You will hear several clicks while prying up.

Step 3 — Remove the back cover

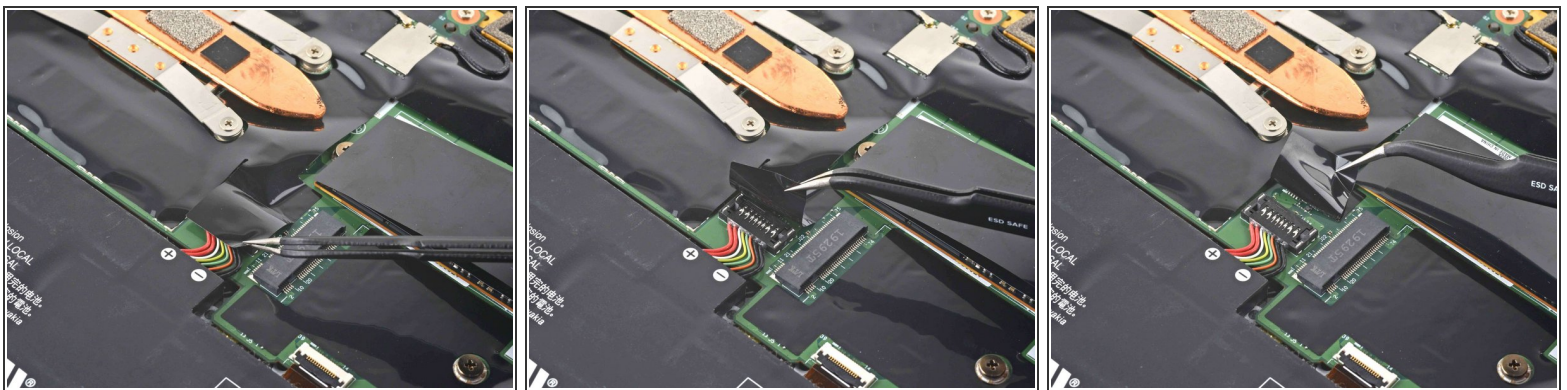


- Lift the back cover up and remove it from the chassis.

❗ You will hear several clicks while lifting up.

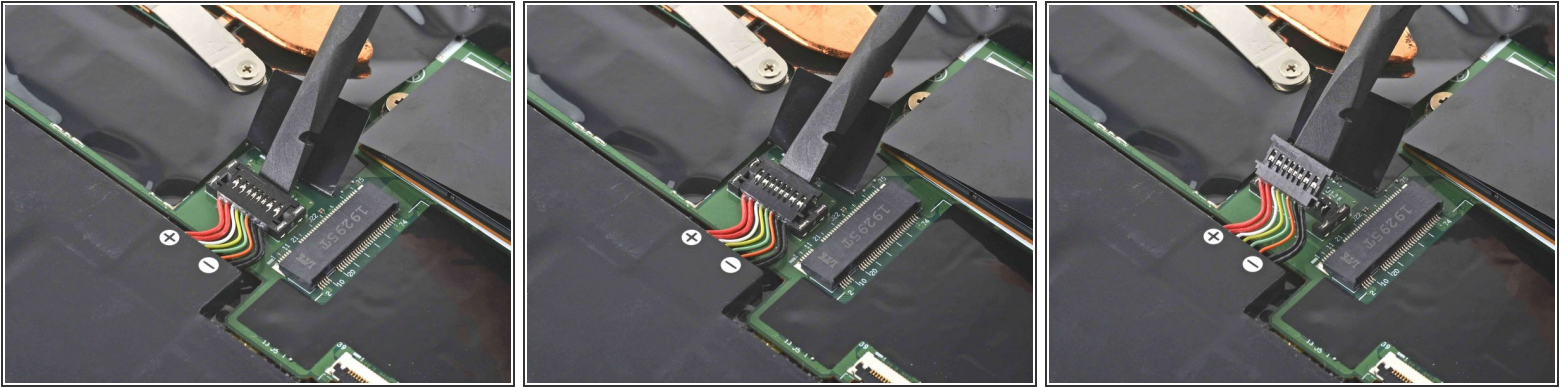
- ★ During reassembly, this is a good point to power on your laptop and test all functions before sealing it up. Be sure to power your laptop back down before you continue working.

Step 4 — Battery disconnect



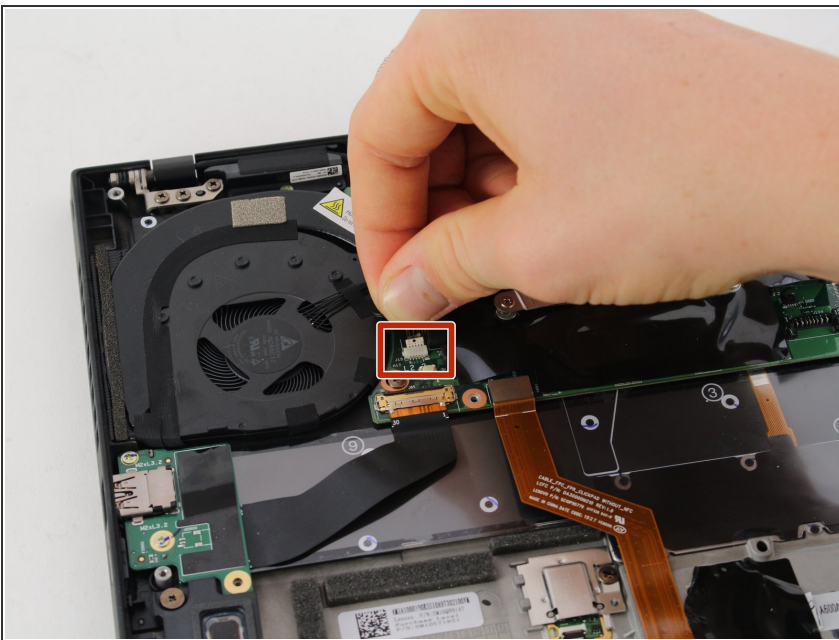
- Use tweezers or your fingers to peel back the plastic shield covering the battery connector.

Step 5 — Disconnect the battery



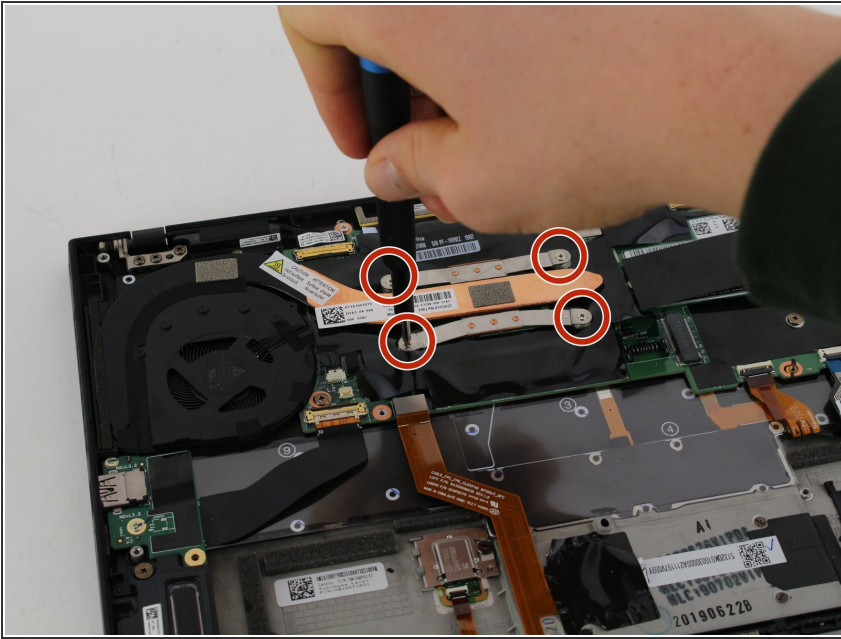
- Use the flat end of a spudger to pry up on and disconnect the battery cable.

Step 6 — Thermal Fan Assembly



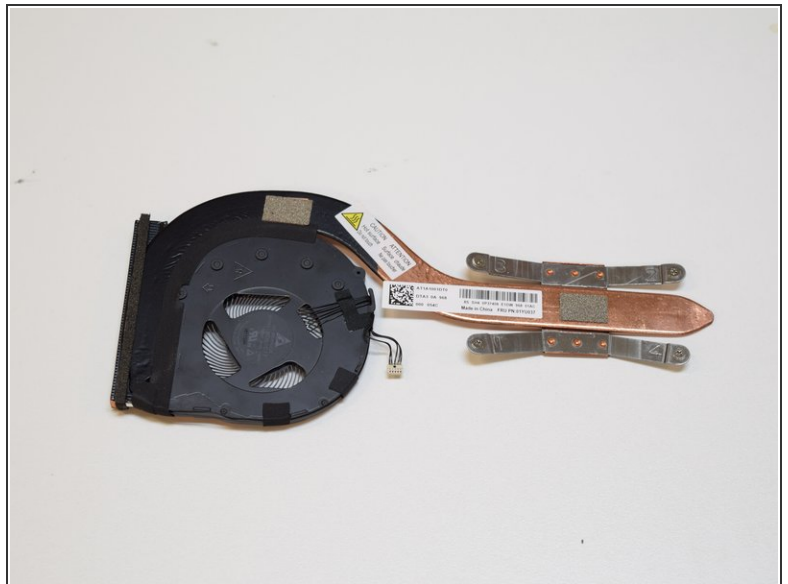
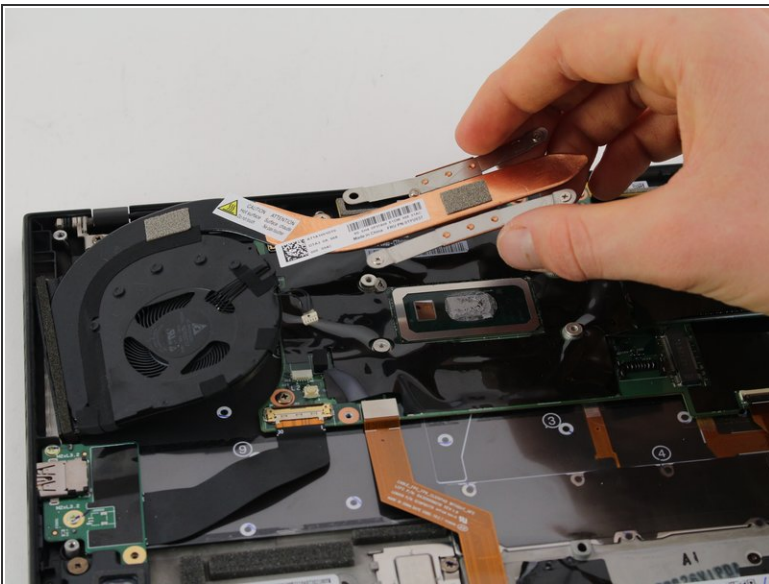
- Grab the thermal fan assembly connector with your fingers and gently pull upwards to disconnect it from the motherboard.

Step 7



- Remove four 3mm Phillips #0 heat sink screws following the numerical order engraved into the heat sink.

Step 8



- Grab the heat sink mounting brackets and lift up to remove the thermal fan assembly.

⚠ Heat sink may still be hot if laptop was recently powered off.

- ☑ When removing the heatsink, it's always good to [apply](#) a new layer of thermal paste, as it helps the heat sink pull heat away from the CPU.

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