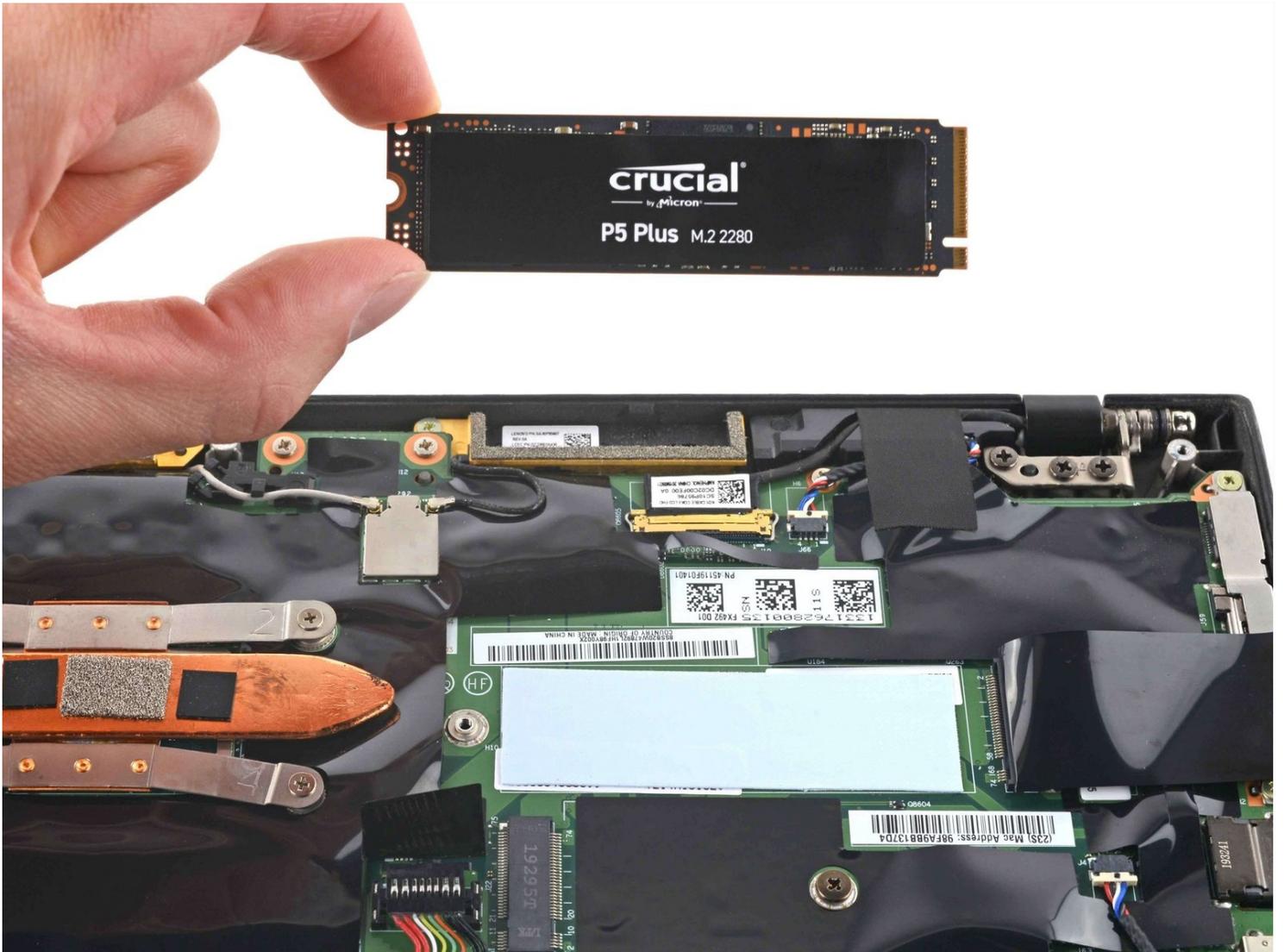




# Lenovo ThinkPad X1 Carbon 7th Gen SSD Replacement

Use this guide to upgrade or replace the M.2...

Written By: Chayton Ritter



## INTRODUCTION

Use this guide to upgrade or replace the M.2 solid-state drive (SSD) in a Lenovo ThinkPad X1 Carbon 7th Gen laptop. This laptop is **only compatible with NVME SSDs**, and is therefore not compatible with SATA SSDs.

**Before you perform this repair**, back up your existing SSD if possible. If you are replacing the SSD where your operating system is installed, familiarize yourself with a disk cloning utility so you'll be ready to migrate your data to the new SSD.

Finally, be sure to **completely power off and unplug** your laptop. Make sure the laptop is not in standby, sleep, or hibernation mode.

### TOOLS:

- 1 x Opening Picks (1)
- Phillips #1 Screwdriver (1)
- Spudger (1)
- Tweezers (1)

### PARTS:

- Crucial P3 NVMe PCIe M.2 2280SS SSD (1)
- Crucial P3 Plus NVMe PCIe M.2 2280SS SSD (1)
- Crucial P5 Plus PCIe M.2 2280SS SSD (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



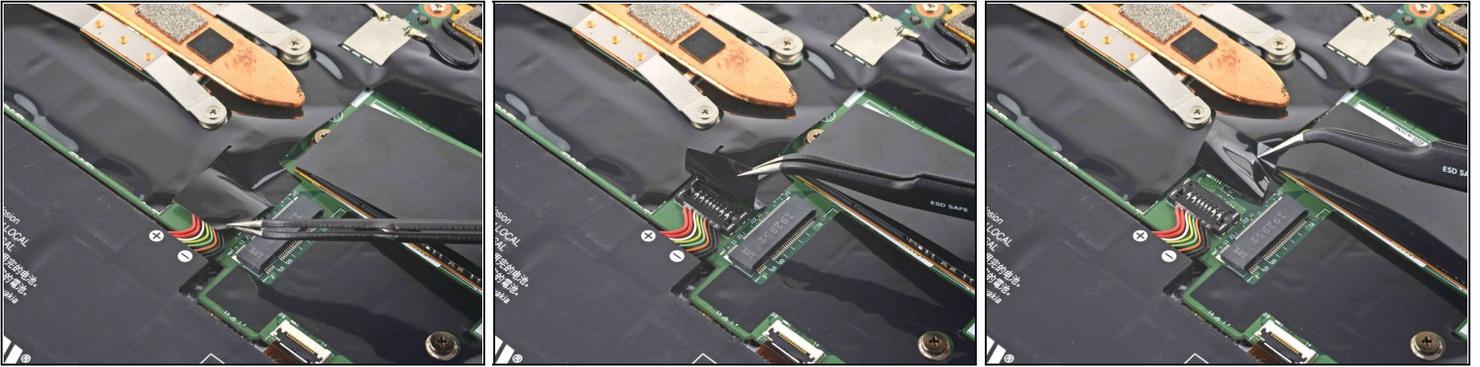
- Insert an opening pick at a 45° angle between the back cover and frame near the rear middle screw.
- Pry up on the pick to release the clips securing the back cover to the frame.
  - ⓘ You will hear several clicks while prying up.

## Step 3 — Remove the back cover



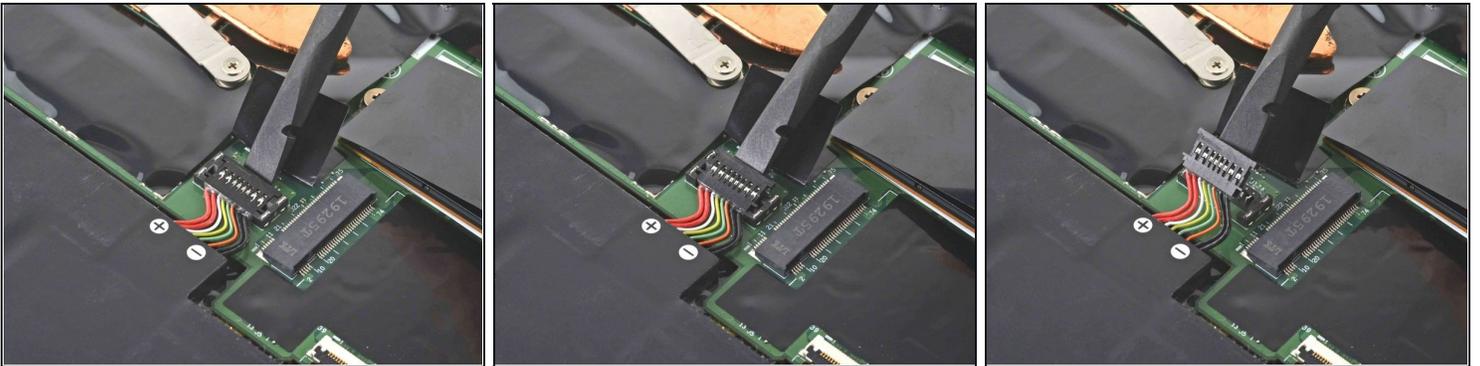
- Lift the back cover up and remove it from the chassis.
  - ⓘ You will hear several clicks while lifting up.
- ☑ During reassembly, this is a good point to power on your laptop and test all functions before sealing it up. Be sure to power your laptop back down before you continue working.

## 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 — SSD removal



- Use [tweezers](#) or your fingers to peel back the plastic shield covering the SSD.

## Step 7



- Use a Phillips screwdriver to remove the 2.9 mm screw securing the SSD to the motherboard.

## Step 8 — Remove the SSD



- Grip the edges of the SSD near the screw indent.
- Lift the SSD up to separate it from the thermal pad.  
**⚠ Do not lift more than 5 mm or the SSD and socket may be damaged.**
- ⓘ If the thermal pad is clean and intact, carefully peel it off and transfer it to the replacement SSD.
- Gently pull to remove the SSD.

---

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

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

Repair didn't go as planned? Try some [basic troubleshooting](#), or ask our [Lenovo ThinkPad X1 Carbon Answers community](#) for help.