Lenovo ThinkPad X1 Carbon 7th Gen Fingerprint Scanner Replacement

How to replace the fingerprint scanner in a Lenovo Thinkpad X1 Carbon 7th Gen.

Written By: Jaxon Haws

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INTRODUCTION

If your Lenovo ThinkPad X1 Carbon 7th Generation does not respond when you use the fingerprint scanner, use this repair guide to replace it.

A functional fingerprint scanner allows the user to log into their device or access private information without entering a password or pin. Though it is not required for the laptop to function, it is a feature that provides easy and smooth accessibility to the device.

Make sure to use non-metallic equipment to follow the guide.

TOOLS:

- iFixit Opening Tools (1)
- Phillips #0 Screwdriver (1)

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Step 1 — Back Panel

⚠ You MUST go to BIOS settings (F1 on startup) and disable the built-in battery. Disconnect laptop from power source to avoid electric shocks.

● Flip the laptop over on a flat surface with the back panel facing up.

● Remove five 5mm Phillips #0 screws from the edge of the back panel.

● Insert an opening tool between the back panel and edge. Maneuver the tool around the panel, disconnecting the clips holding the panel in place.
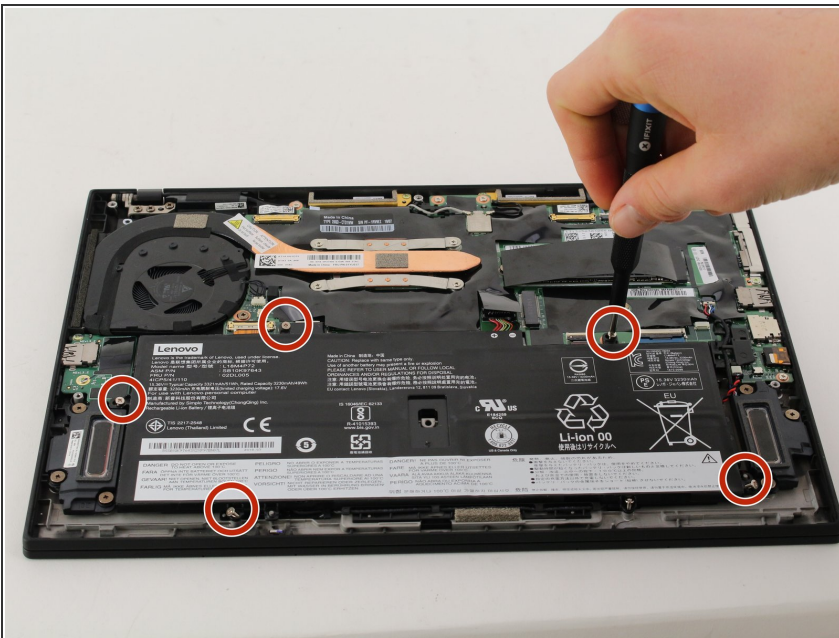
Step 2

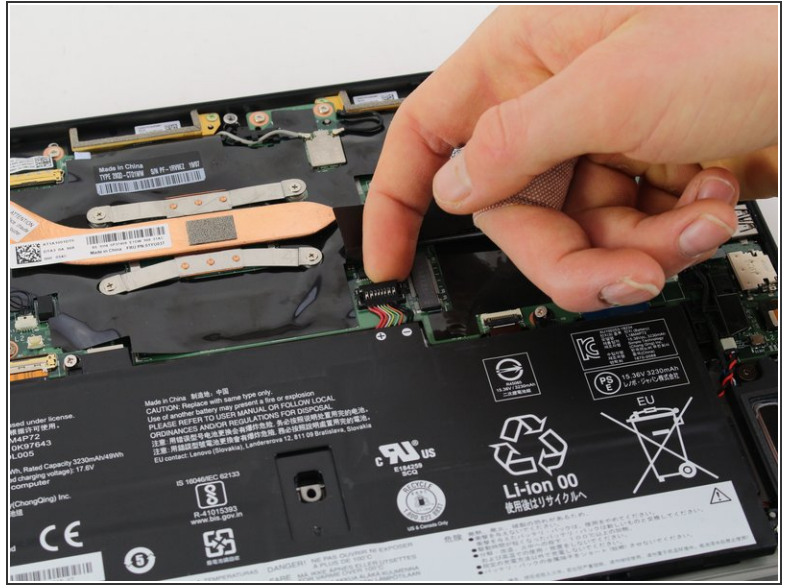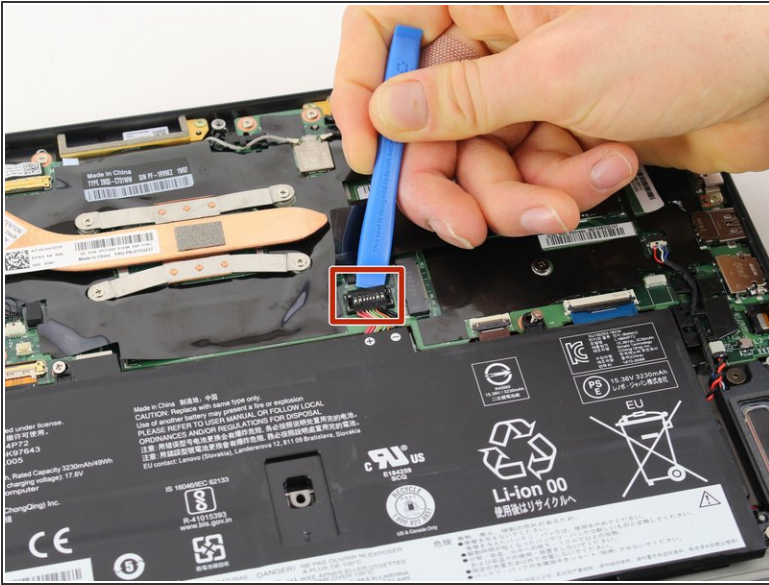- Lift the back panel away from the device, exposing the internals.

- When reassembling, prioritize the tabs on the side that does not have any screws. This ensures that the tabs do not break.
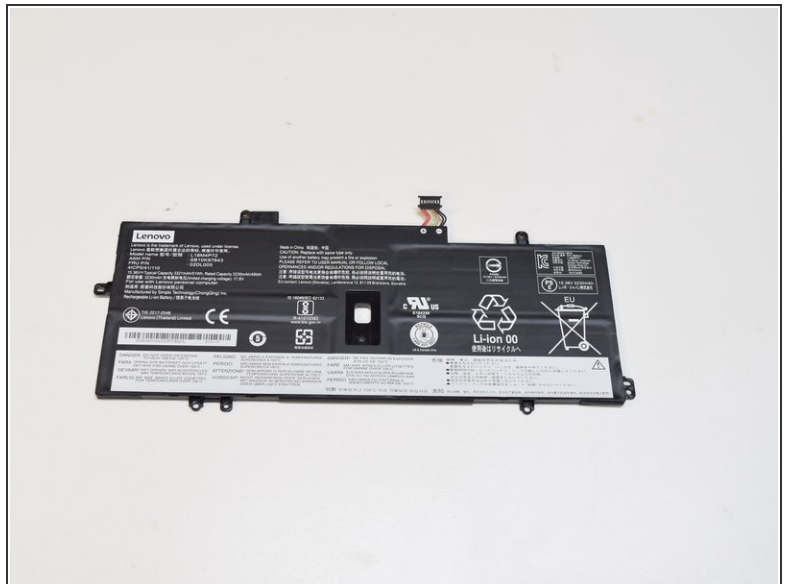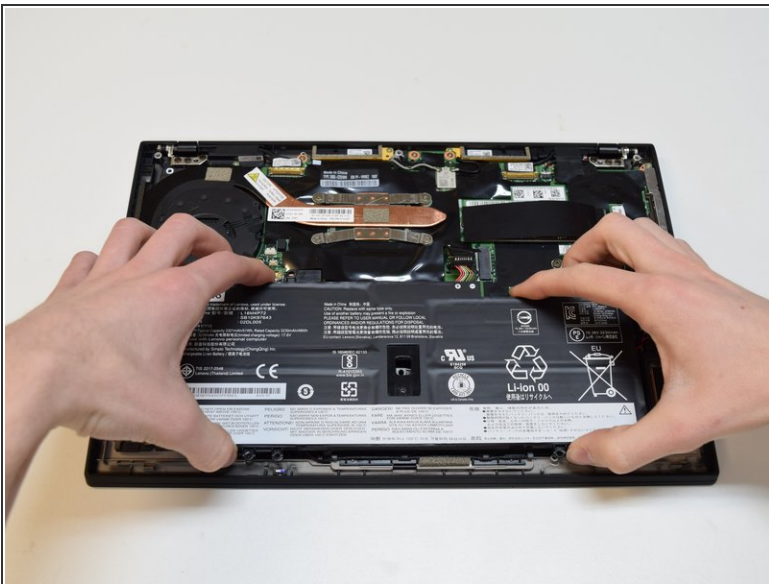
Step 3 — Battery

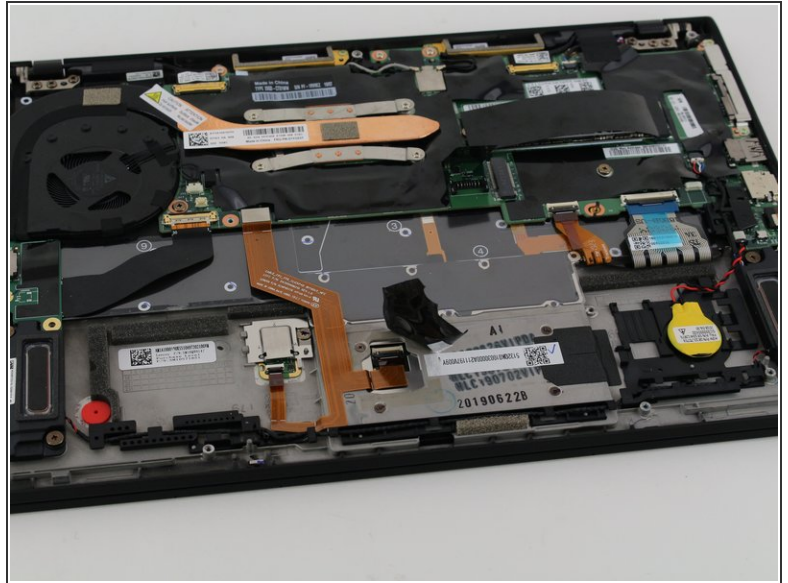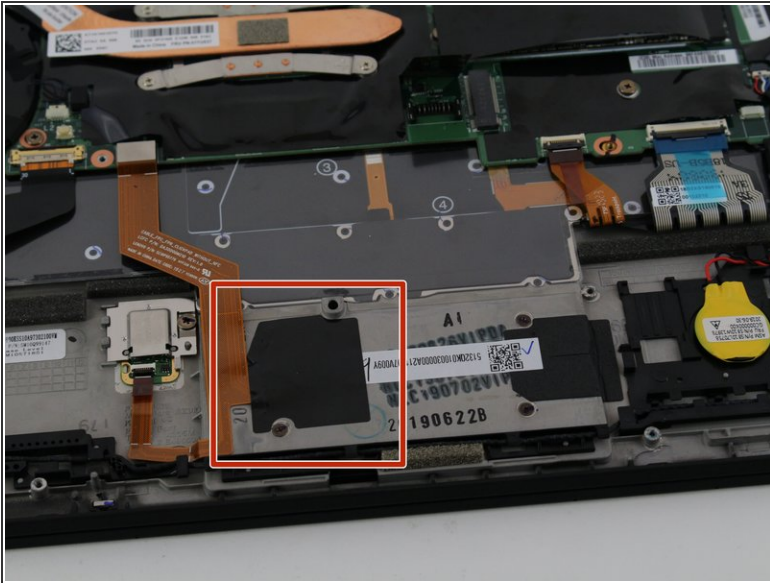- Remove five 5mm Phillips #0 screws from the edges of the battery.

Step 4

- Remove the connector between the battery and the motherboard by using an opening tool to initially lift the back end of the connector up.

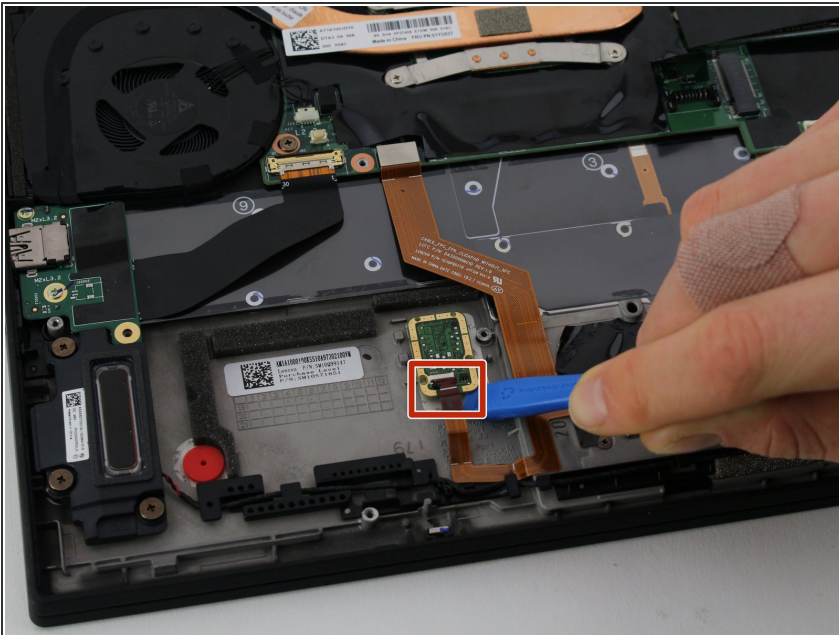⚠️ Avoid metal tweezers to remove the connector as metal to metal contact can damage the device.

Step 5

- Lift the battery straight up and out of device.

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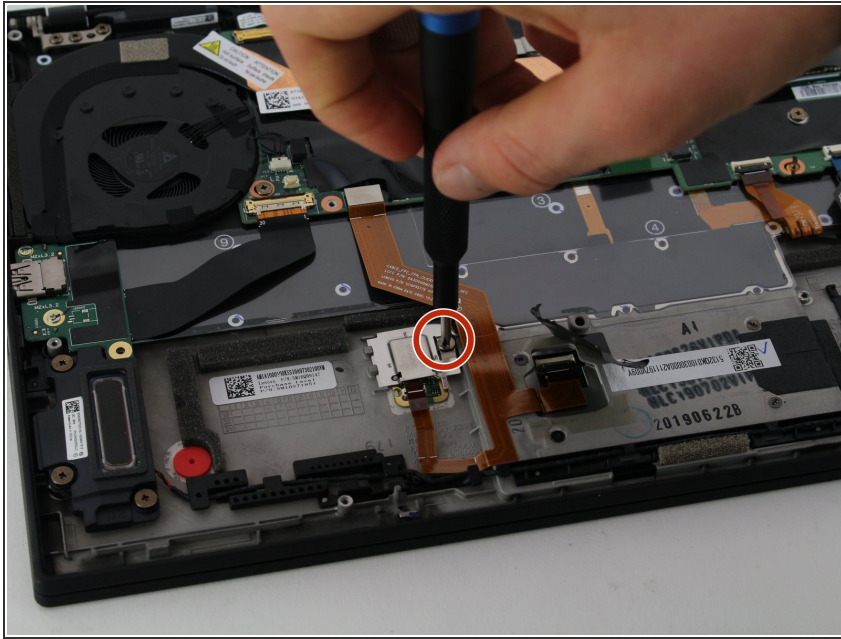## Step 6 — Fingerprint Scanner

- Peel back the black adhesive tape covering the ribbon cable connecting the trackpad and fingerprint scanner to the motherboard.
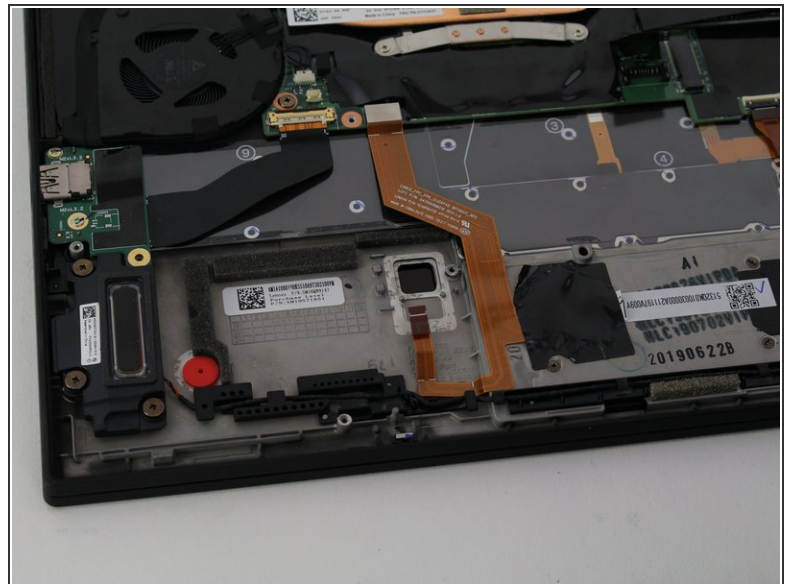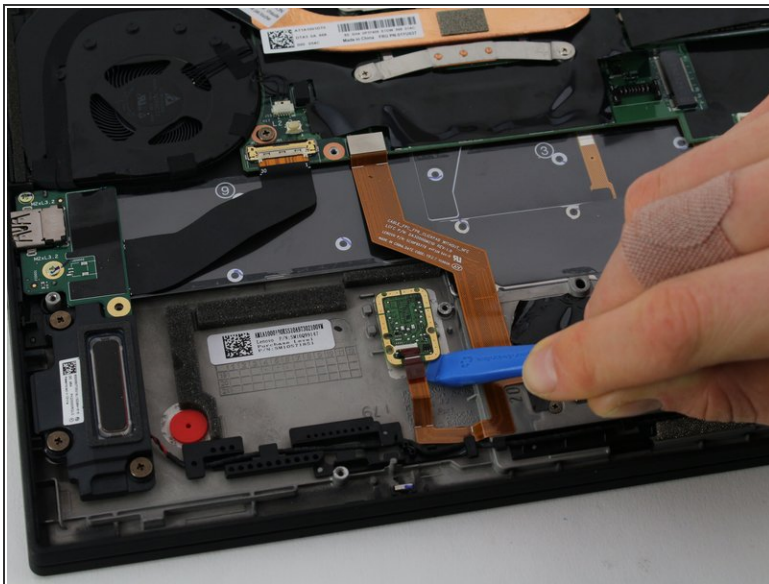
Step 7

- Unclip the connector ribbon from the fingerprint scanner by lifting upwards on the clip with an opening tool.
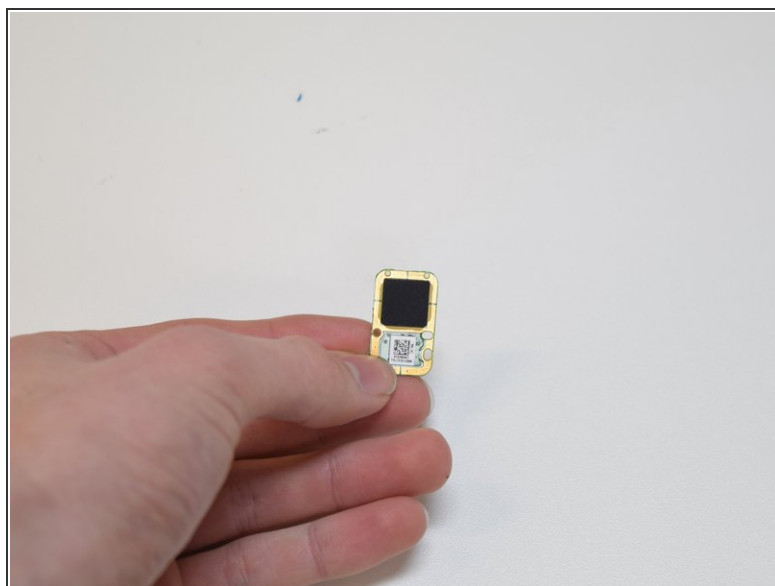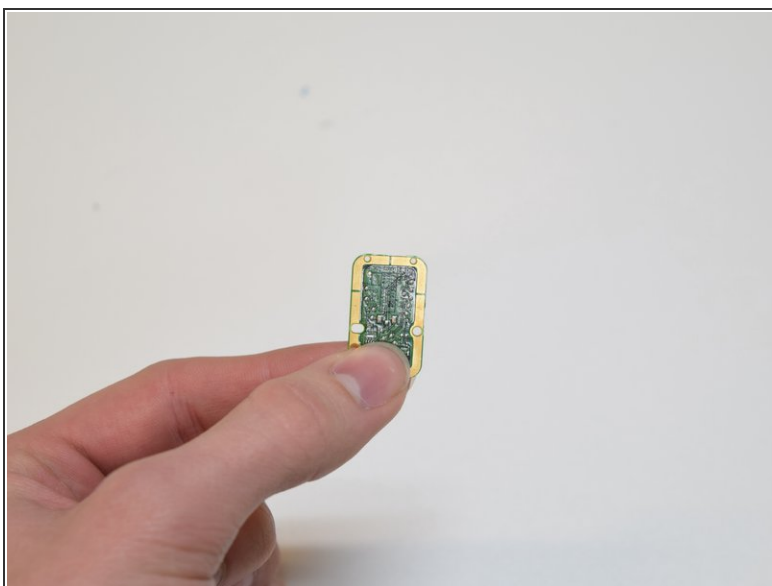
Step 8

- Remove one 3mm screw from the fingerprint scanner mounting bracket with a Phillips #0 screwdriver.

- Lift the fingerprint scanner mounting bracket upwards to remove it.

Step 9

- Using an opening tool, lift the fingerprint scanner upwards.

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Step 10

- Carefully lift the fingerprint scanner to remove from the chassis.

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

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