



# ThinkPad X1 Carbon Fan Replacement

This guide will show you how to replace the CPU fan.

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# INTRODUCTION

You will learn how to open the ThinkPad X1 Carbon and replace the CPU Fan

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## TOOLS:

- [Phillips #0 Screwdriver](#) (1)
  - [Heavy-Duty Spudger](#) (1)
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## Step 1 — Loosen Cover Screws



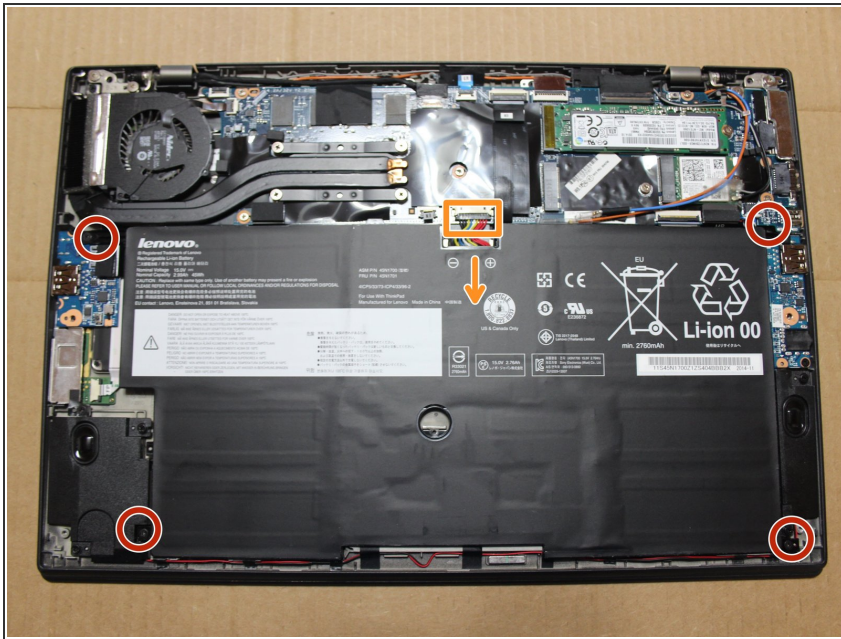
- Loosen the seven cover screws.  
They will not come out.

## Step 2 — Remove Cover



- Use spudger to pop loose cover and slide off.

## Step 3 — Disconnect Battery



- ⚠ Only use plastic to remove battery connector
- Gently remove battery connector by pushing with the spudger in the direction of the arrow.
- Remove four screws holding battery in place and remove battery.

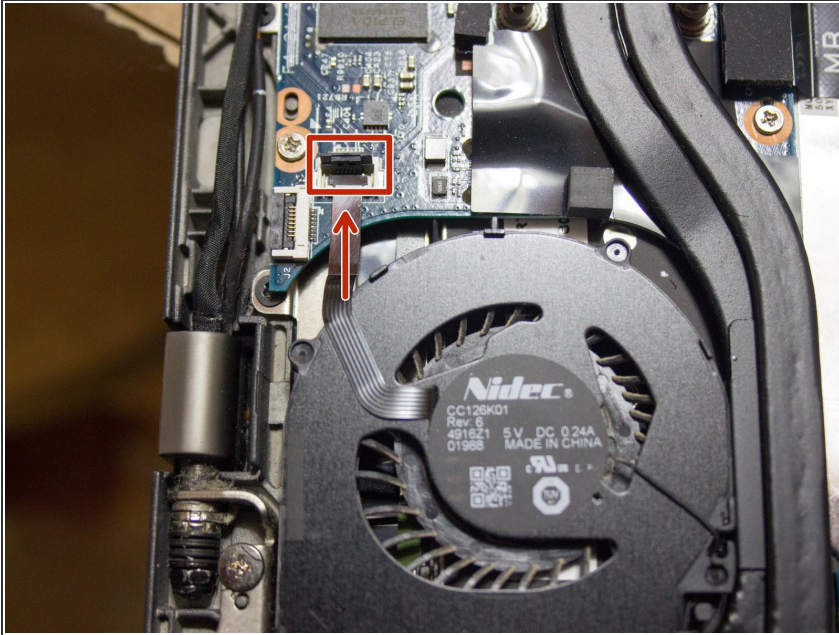
## Step 4



- The 4 perimeter screws also hold the two audio speakers in place. And there is a 5th screw dead center of the battery. The battery cable is not easy to remove, and not easy to re-connect.



## Step 5 — Disconnect Fan Cable



- Use your spudger to open the connector in the direction of the arrow. Carefully remove the ribbon cable
- ⓘ These connectors are very delicate. Use care when removing cables.

## Step 6 — Remove Fan



- Loosen screws and pull fan up and out of the case.
- ⚠ Be sure to apply heat sink paste when putting fan back on CPU

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