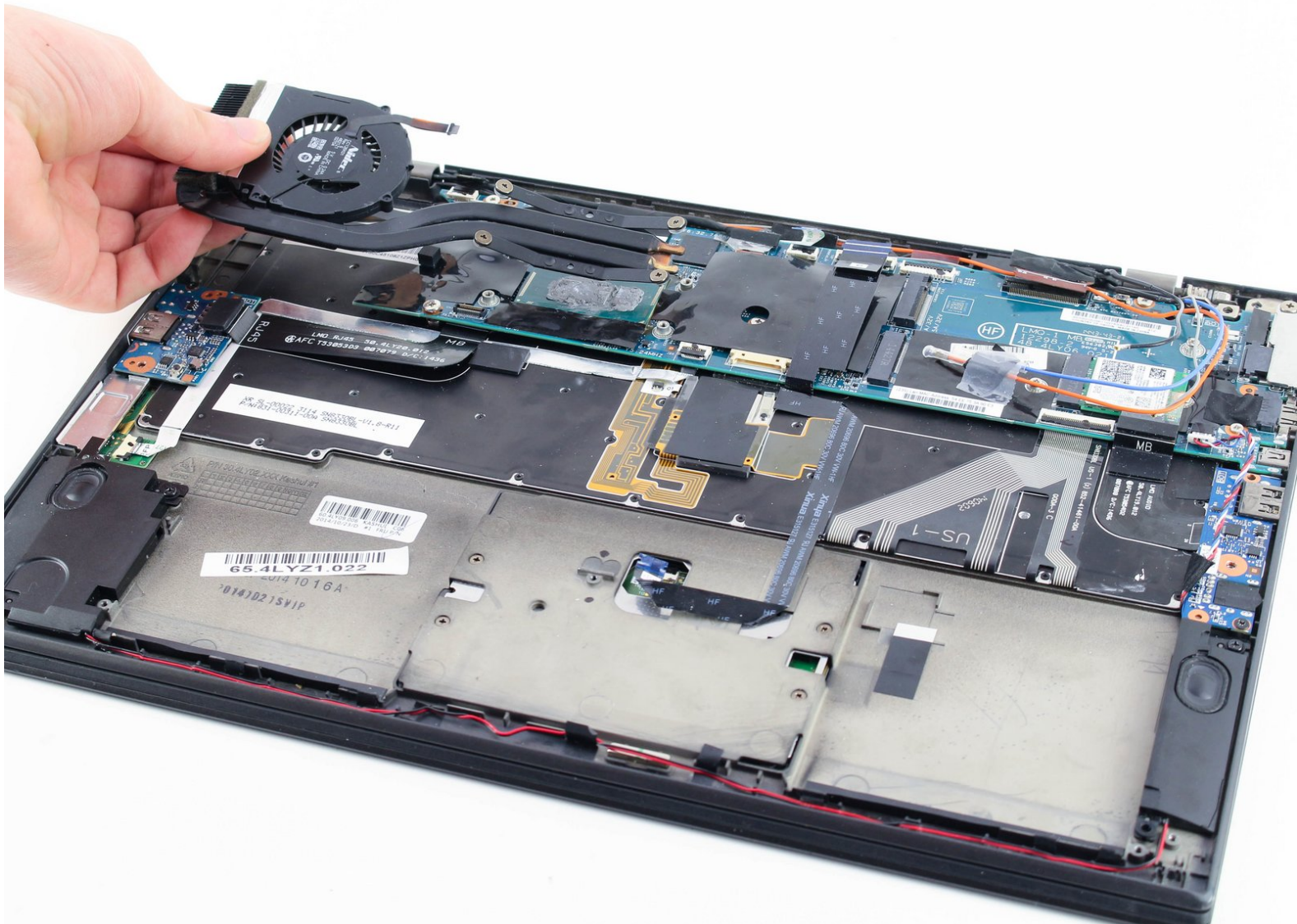




Lenovo ThinkPad X1 Carbon (2nd Gen) Fan Replacement

Use this guide to replace the fan on your Lenovo ThinkPad X1 Carbon (2nd Gen).

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INTRODUCTION

If your Lenovo ThinkPad X1 Carbon (2nd Gen) randomly shuts off after getting hot, use this guide to replace the fan.

The fan cools down the computer and prevents the computer from overheating.

Before using this guide, check to make sure that nothing is [covering the fan](#). The blocked fan may be the reason the computer is overheating. Also, use a dust removal spray to carefully [clean out the vent](#). The cause of overheating may be the dust blocking the computer's air flow. Cleaning the vent can prevent the need of replacing the fan.

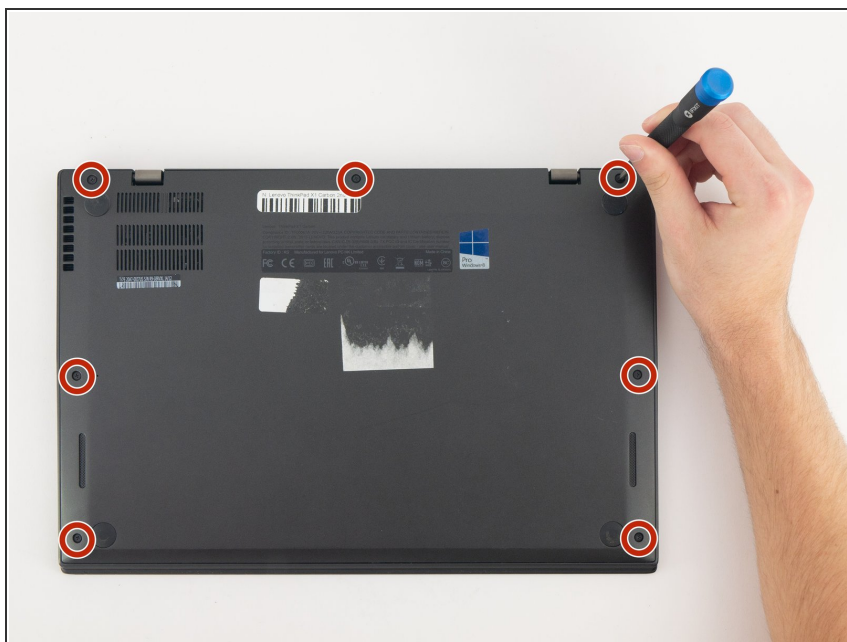
Before you begin, make sure your computer is off.



TOOLS:

- [Phillips #0 Screwdriver](#) (1)
 - [iFixit Opening Tool](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
 - [Phillips #1 Screwdriver](#) (1)
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Step 1 — Back Cover



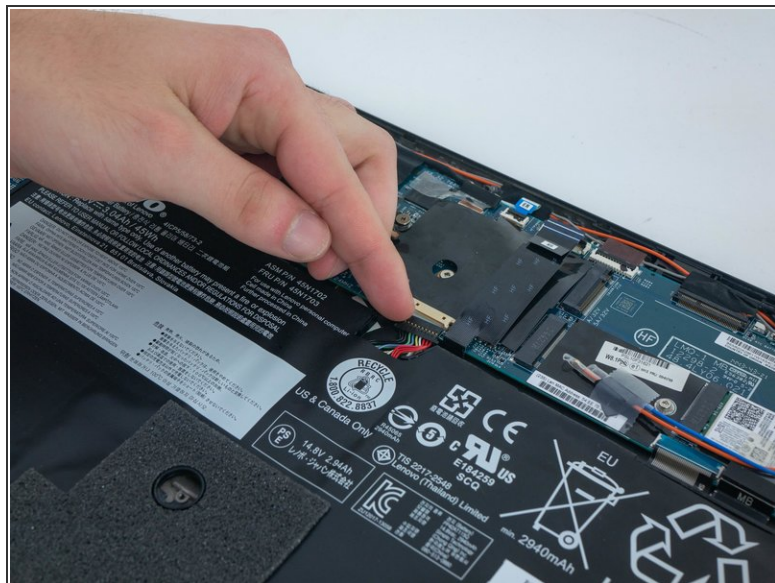
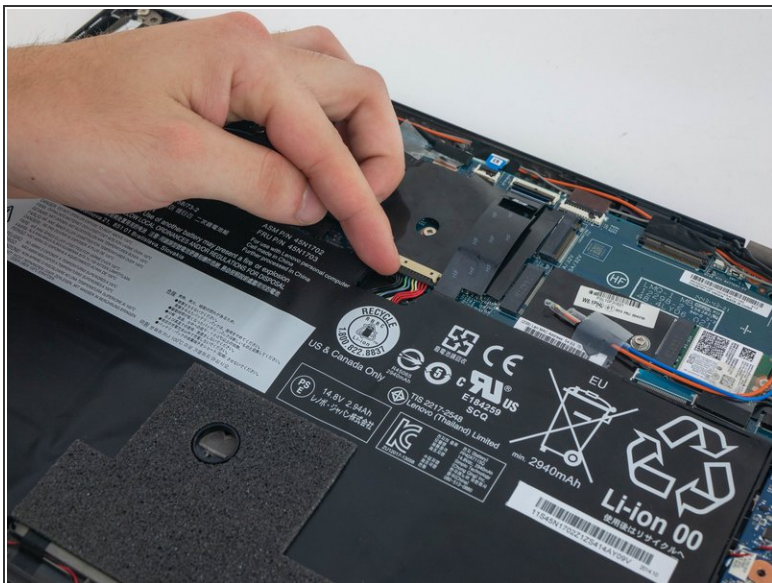
- Using a Phillips #0 screwdriver, remove the seven 7mm screws holding the back cover onto your computer.

Step 2



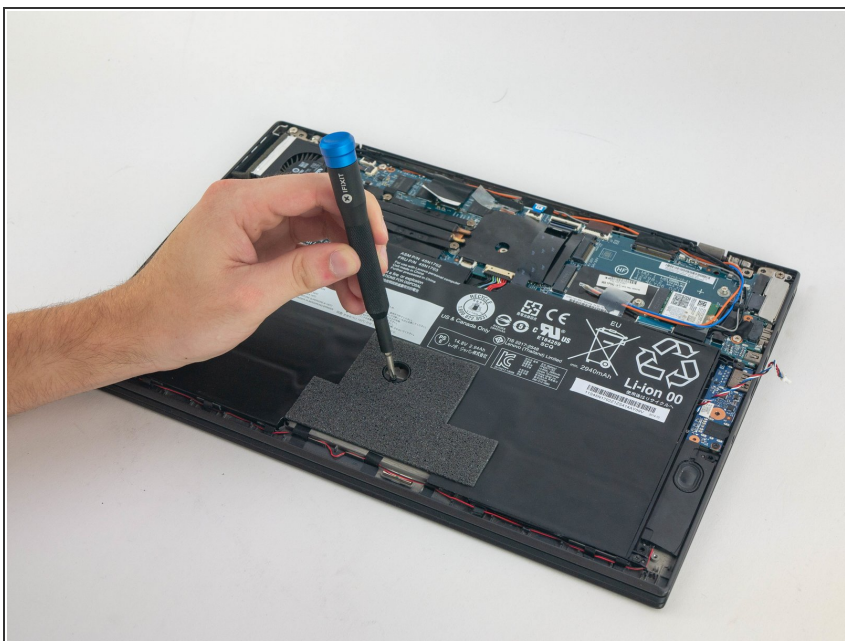
- Use a plastic opening tool or your fingers to pry off the cover.

Step 3 — Battery



- Using your fingers, disconnect the battery from the motherboard.

Step 4



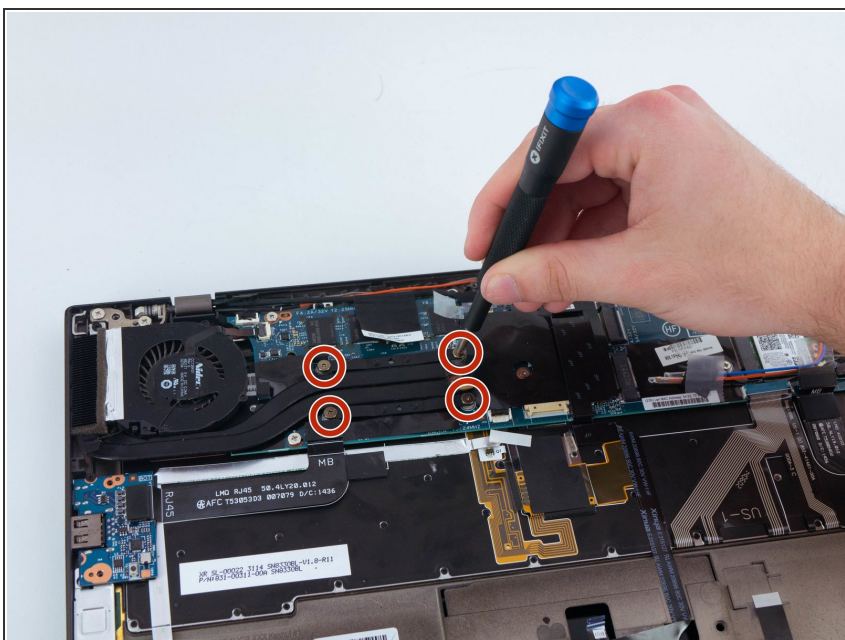
- Using a Phillips #0 screwdriver, unscrew the five 4.3mm screws attaching the battery to the computer.

Step 5



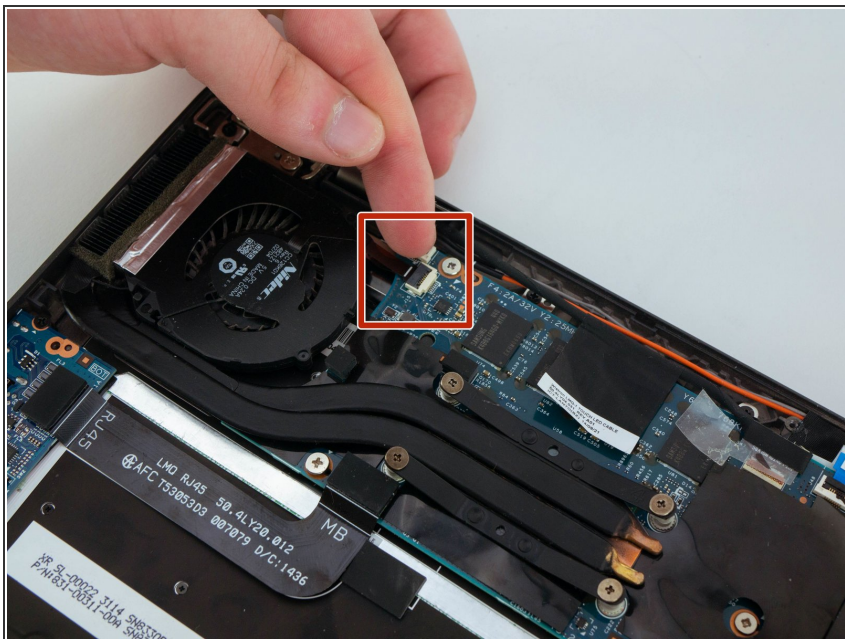
- Remove the battery by pulling it directly towards you.

Step 6 — Fan



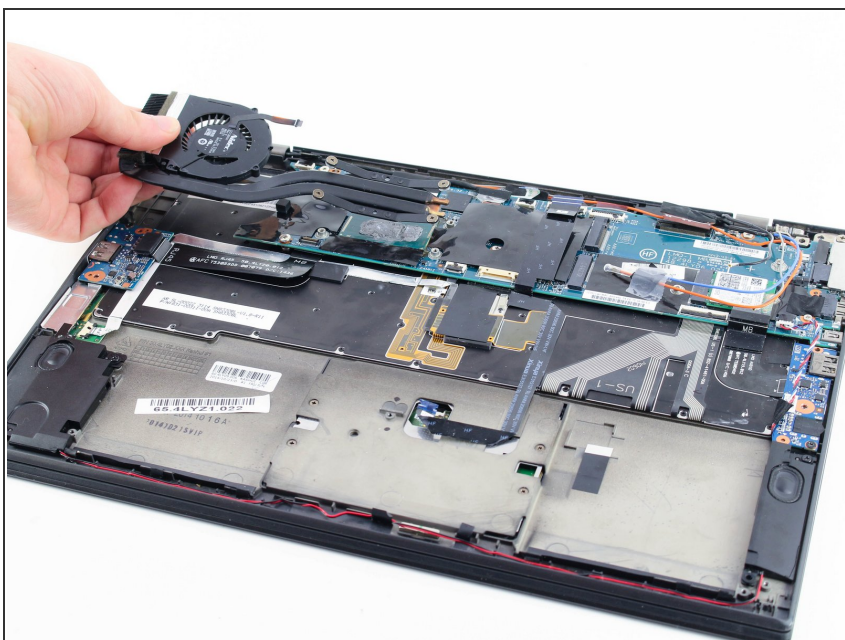
- Use a Phillips #1 screwdriver to undo the four 5 mm screws attached to the heat sink.

Step 7



- Undo the black clasp that holds the ribbon cable, attached to the fan, in place and disconnect the ribbon cable.

Step 8



- Remove the fan by lifting it directly up.

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