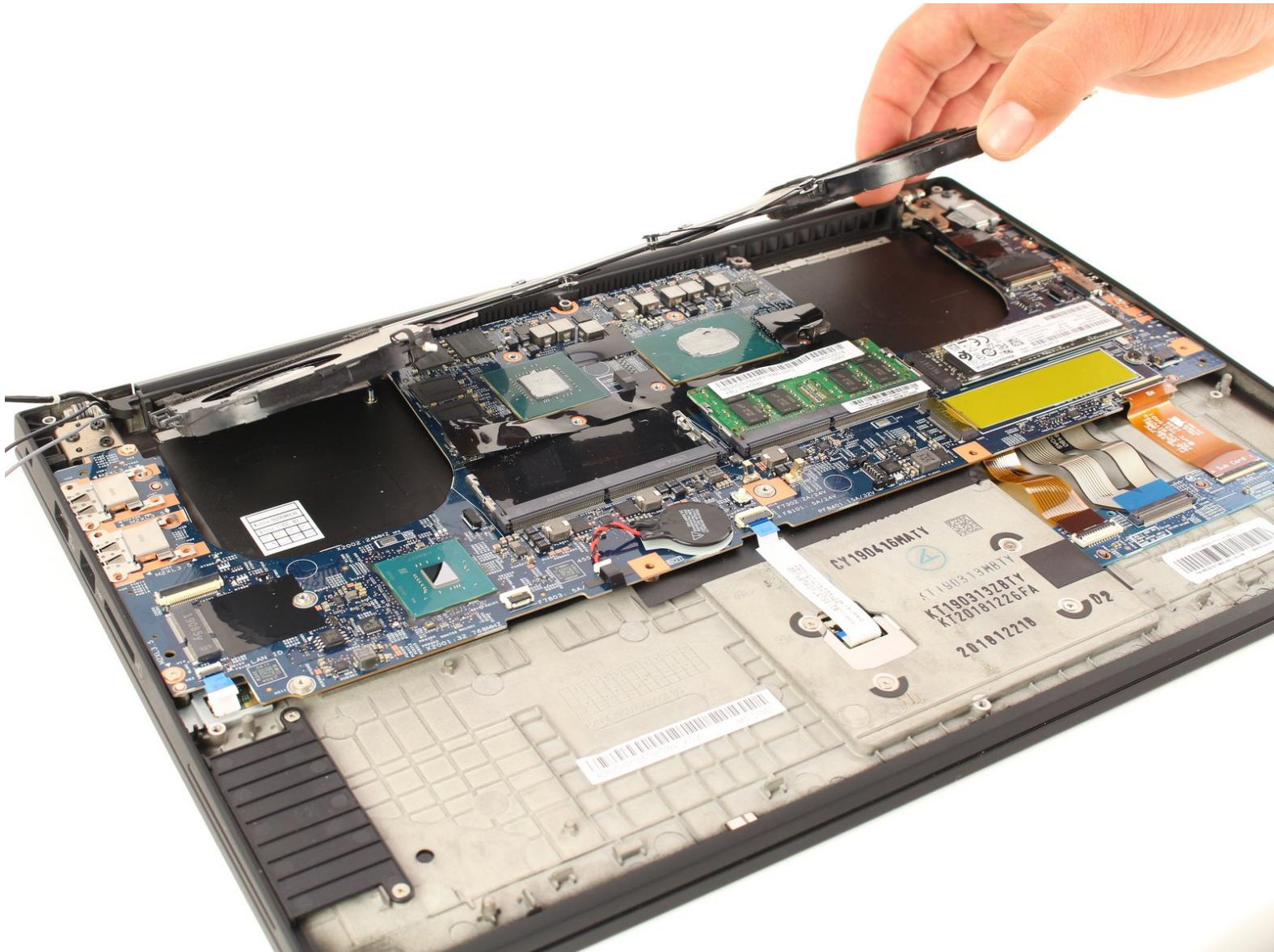




# Lenovo ThinkPad X1 Extreme Fan Replacement

This guide will take you step by step through the process of replacing the Lenovo ThinkPad X1 Extreme fan.

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## INTRODUCTION

If your Lenovo ThinkPad X1 Gen 1 Extreme (model number 20MF-000LUS used in this guide) is overheating or making clicking noises, use this guide to remove the fan.

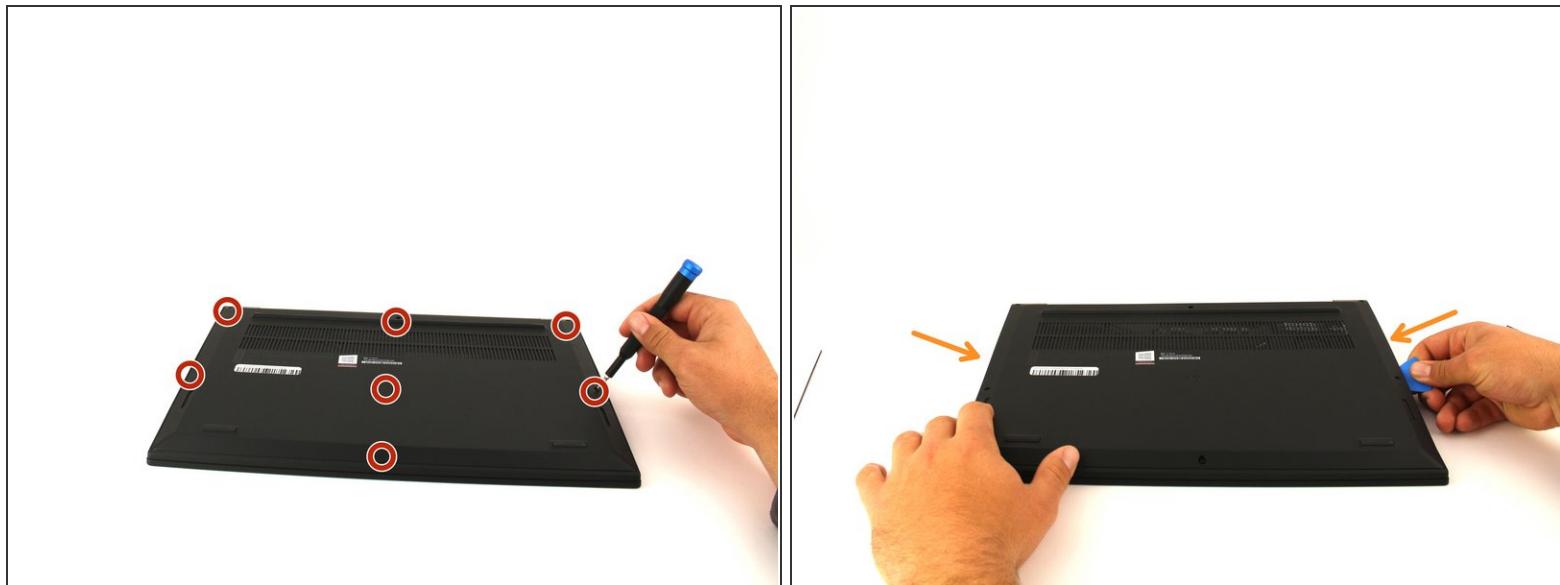
While this laptop has been noted to get quite hot and loud, this should typically only occur when charging or using high intensity applications. The laptop should not be overheating when idle.

Keep in mind that an entire replacement of the fan may not be necessary, as the problem could potentially be built up dust or a foreign object. If this is the case, removing the fan and cleaning it out with compressed air could solve the issue.

## TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [Tweezers](#) (1)

## Step 1 — Battery



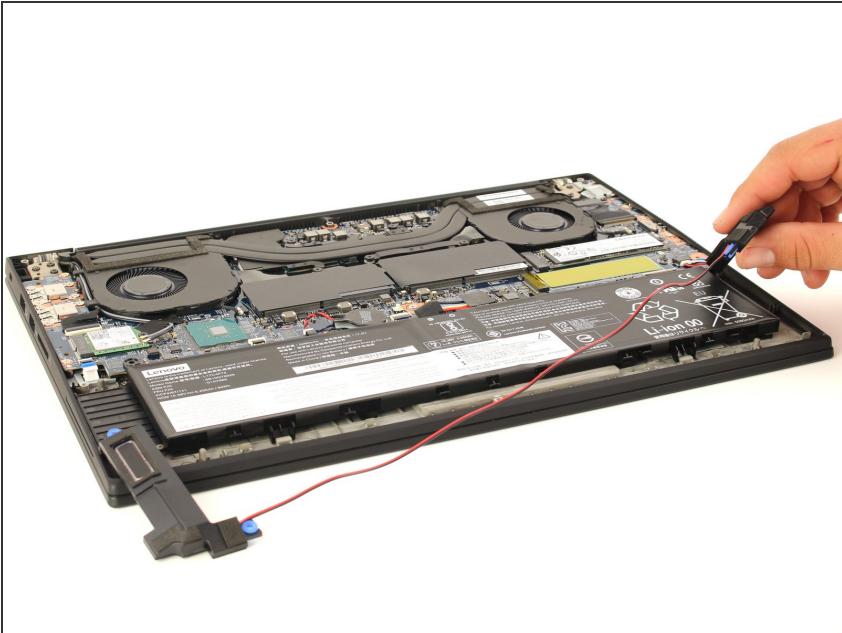
- Orient the laptop so that it is bottom up, and the track pad is closest to you.
- Unscrew the seven cover screws with a Phillips #00 head screwdriver. These screws will loosen, but will stay attached to the cover.
- Slide the blue opening pick along the side of the laptop and pry off the one clip on each side.
- The cover should easily come off.

## Step 2



- Use a Phillips #00 head screwdriver to remove the four, 4mm screws above the battery.

## Step 3



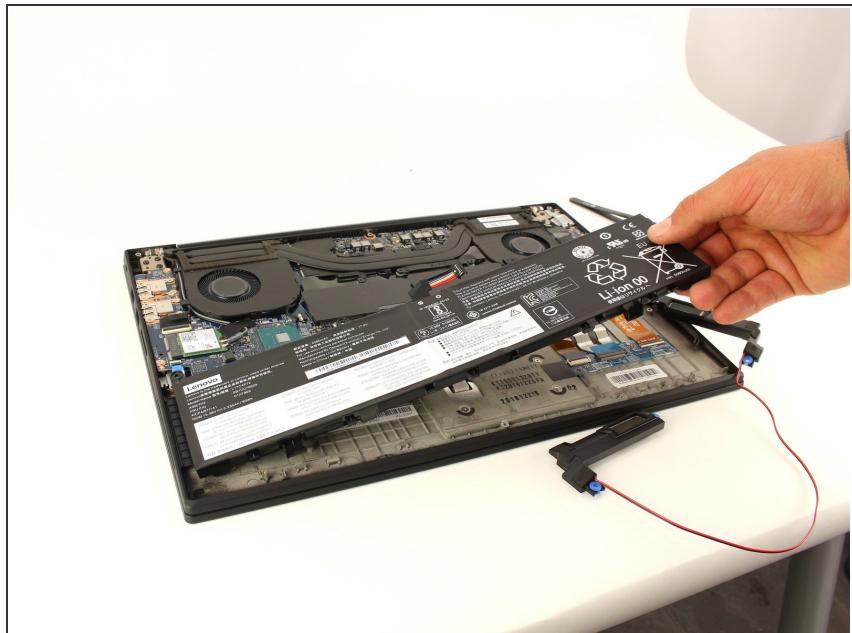
- Lift the connector to the left of the battery out of its pegs, and unwind the cable from the front of the battery.
- Set the connector out of the way of the battery.

## Step 4



- Using tweezers, peel the plastic cover off the connector.
- Lift the clip on top of the connector, push towards the right of the computer and lift up carefully.
- After the connector is removed, check to see that it is labeled "Bat 1" on the motherboard, underneath the connector.

## Step 5



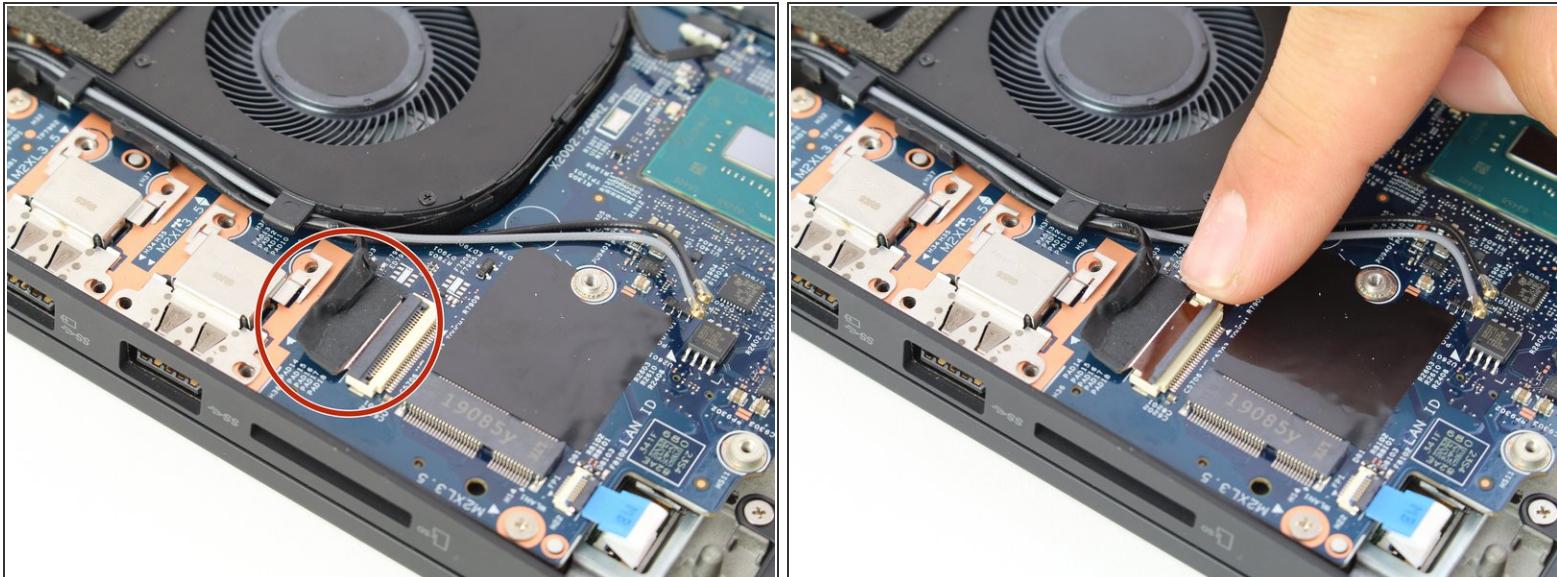
- Lift the battery out of the frame and remove it from the device.

## Step 6 — Fan



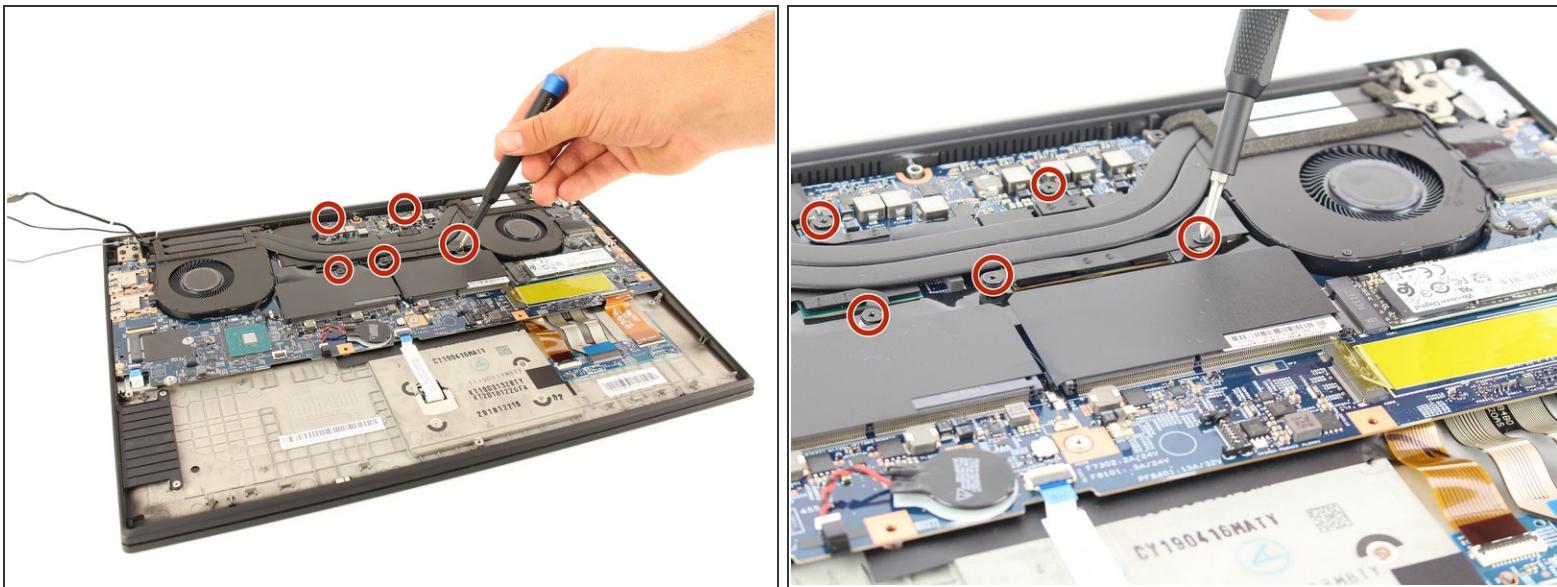
- Unscrew the 3mm screw holding down the wireless adapter using a Phillips #00 screwdriver.
- Slide the adapter out of its connector.
- Detach the black and gray cables and separate them from the frame of the fan by gently pulling upwards.

## Step 7



- Unlatch and remove the cable connecting to the frame of the fan by flipping the thin black tab up.
- Separate the cable from the frame of the fan.

## Step 8



- Loosen the five screws connecting the fan to the motherboard using a Philips #00 head screwdriver.
- *(i)* These screws will not come out and will stay connected to the fan.

## Step 9



- Gently disconnect the two cables located on right and left side of the fan.
- *(i)* To identify these, they are labeled "FANR1" and FANL2" on the motherboard.
- Lift the fan up and out and remove it from the device.

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