Lenovo ThinkPad X1 Extreme Charging Port Replacement

This will guide you through the process of replacing the charging port of the Lenovo Thinkpad X1 Extreme Gen 1.

Written By: Addy Botao Liu
INTRODUCTION

This guide will lead you through the steps to replace the charging port on the Lenovo ThinkPad X1 Extreme Generation 1. The charging port is how you plug your charger in to charge your device. Oftentimes the device will fail to charge if the charging port is damaged.

Check the charging port for dust and debris, as well as testing other chargers before beginning the steps of removal to confirm that you have a faulty charging port.

The removal of the charging port requires you to first remove the battery, then proceed to strip plastic covering from a set of wires. Make sure the device is turned off before you begin these steps.

TOOLS:
- Phillips #00 Screwdriver (1)
- iFixit Opening Picks (Set of 6) (1)
- Tweezers (1)
- iFixit Opening Tool (1)

PARTS:
- Lenovo ThinkPad P1 and X1 Extreme Replacement Battery (1)
Step 1 — Back Cover

Be sure to power off and unplug your device before you begin your repair.

- 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.
- Remove the back cover from the device.

Step 2 — 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 3

- 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 4

- Loosen the five screws connecting the fan to the motherboard using a Philips #00 head screwdriver.

These screws will not come out and will stay connected to the fan.

Step 5

- Gently disconnect the two cables located on right and left side of the fan.

To identify these, they are labeled "FANR1" and FANL2" on the motherboard.

- Lift the fan up and out and remove it from the device.
Step 6 — Charging Port

- Using the Phillips #00 screwdriver, remove the two screws on the cover of the charging port.

Step 7

- Disconnect the charging port cable from the motherboard.

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