



# Lenovo Thinkpad x230 laptop keyboard/fan Replacement

Written By: Laptop



 **TOOLS:**

- Essential Electronics Toolkit (1)

## Step 1 — How to Replace Laptop Keyboard and fan



- 1. Open the battery clasp and remove the battery
- 2. Remove the two screws that hold the keyboard
- 3. Use a crowbar to push the keyboard away from the bottom of the keyboard and unplug the keyboard cable
- 4. Remove the cover of memory and remove it
- 5. Remove the remaining screws, open the clasp of fingerprint module, and lift the wrist bracket from
- 6. Unplug the line of wireless card and remove it and SSD
- 7. Remove the remaining cables and screws, pull out the pull rope, and then remove the storage hard disk
- 8. Lift the screen frame from the center and remove the laptop screen

## Step 2 — Part 2



- 9.Unplug the speaker cable and remove the Bluetooth module
- 10.Remove the motherboard screws, remove the clasp of DC Jack, and remove the screws of VGA
- 11.Lift the motherboard from the left
- 12.Erase the hardened silicone grease and apply a little of new grease.
- 13.Follow 1 to 4 of the screws to fix the heat sink. Remember to install the fan's cable
- 14.Fix the right side of the DC Jack first(the screws of motherboard are the same size, it can be mixed)

## Step 3 — Installation Tips:



- 1. According to the dismantling method, reversely install each part.
- 2. Sort out the cable to prevent the keyboard from popping up after the installation
- 3. Gray and black lines are the two antennas of the wireless card and
- 4. Fix the wrist bracket below first
- 5. Fix the upper part of the keyboard and then pull down the keyboard
- In addition to the screws on the hard disk cover, all black screws can be mixed After all parts are installed, try to start it

Get the best quality keyboard from [laptop.gemwon.com](http://laptop.gemwon.com) and follow the steps to replace it.