



# Lenovo ThinkPad Edge E420s Keyboard Replacement

Replacing the keyboard in a Lenovo ThinkPad Edge E420s.

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## INTRODUCTION

If you need to replace the keyboard, use this guide to access and remove the keyboard from this device. For this guide you will need a plastic opening tool, a Phillips #0 and Phillips #00 screwdriver. This repair may be needed either as a prerequisite to replacing other parts or in order to fix issues such as frequent, but irregular crashes, error messages, or disappearing or scrambled files.

## TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [Phillips #0 Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)

## Step 1 — Hard Drive



! There is no external access to the battery. Please make sure the battery has been drained or disabled through BIOS before beginning.

- Flip the device over.

## Step 2



- Use a Phillips #00 screwdriver to remove one M2 x 3mm screw from the side of the device.

## Step 3



- Swing the cover out slightly like a hinge.
- Pull the cover directly away from the case towards the base of the laptop.
- Lift the cover up and away from the device to remove it.

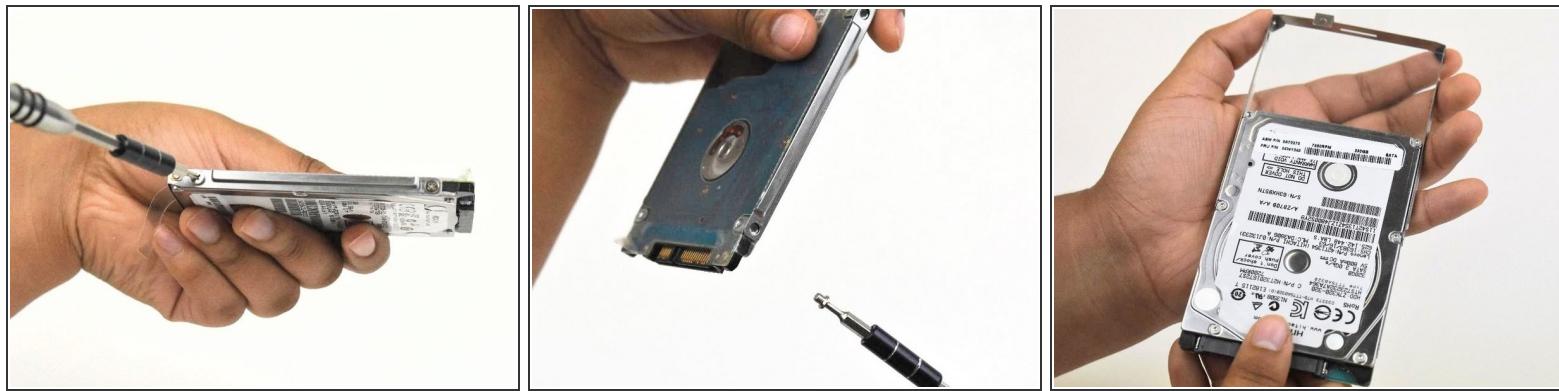
*(i)* You may hear a slight pop when you pull the cover off.

## Step 4



- Use the clear tab to slide the hard drive out of the device.

## Step 5



- To replace the hard drive, remove the four M2 × 4mm wafer-headed screws on the sides of the hard drive case using a Phillips #00 screwdriver.
- Slide the old hard drive directly out.

*(i)* When reassembling, make sure the hard drive is securely in the case before beginning.

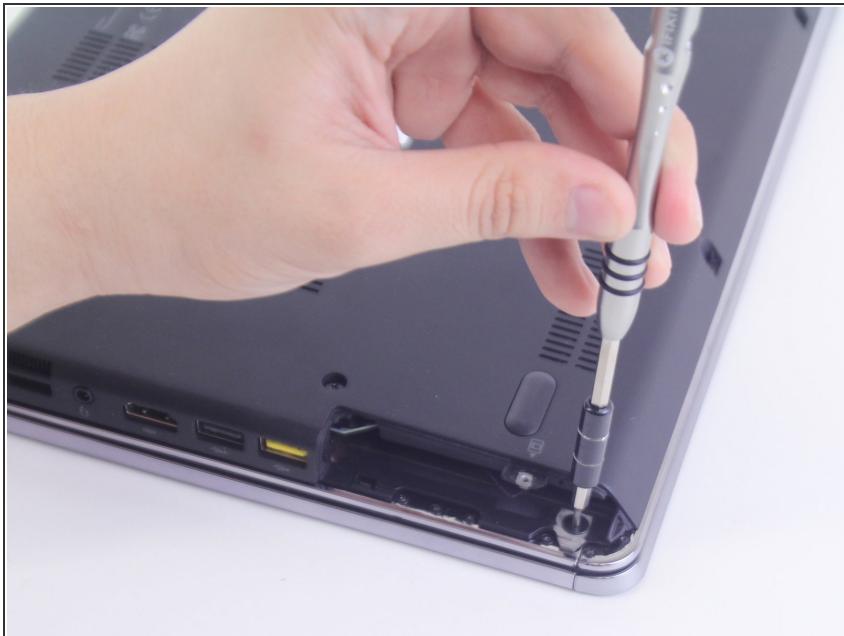
## Step 6 — Top Case



- Use a Phillips #0 screwdriver to remove eight M2 × 3 mm screws near the front opening and scattered across the bottom of the laptop.
- Remove three M2x3 mm screws using a Phillips #00 screwdriver from the base of the laptop near the opening.

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## Step 7



- Remove the M3 x 2mm screw from the hole left by the hard drive using a Phillips #00 screwdriver.

## Step 8



- Flip over the device.
- Open the device normally.

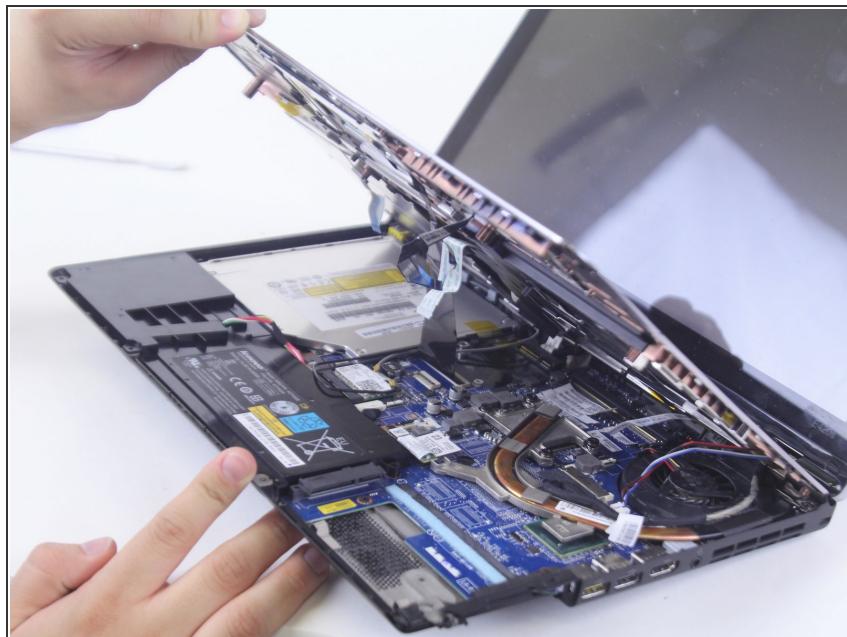
## Step 9



- Wedge the plastic opening tool between the upper and lower halves of the lower case.
- Lift the end of the opening tool slowly until the case separates.

**i** Hearing a small popping or cracking noise during this step is normal

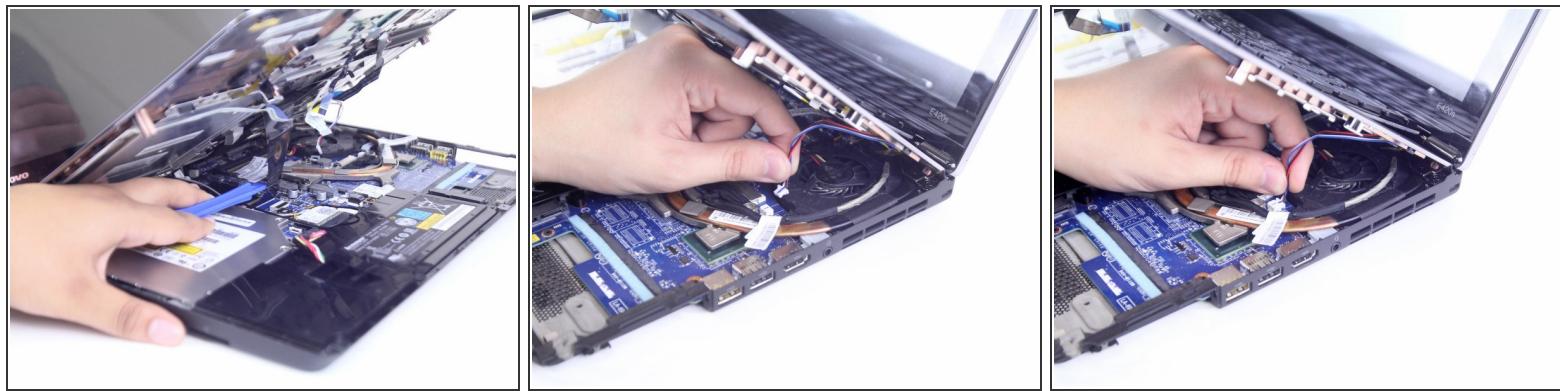
## Step 10



- Lift the upper half of the case up slowly.

**⚠** Be sure not to yank any of the wires connected to the case as this could damage them.

## Step 11



- Locate and disconnect the 4 ribbon wires from the top case.
- Locate and disconnect the two additional connecting wires.

 Some wires may be connected by a clamp. In order to remove the clamp, press upwards on the lever attached to the connector

 Be careful to not yank on the wires when disconnecting them as they are easily damaged.

## Step 12



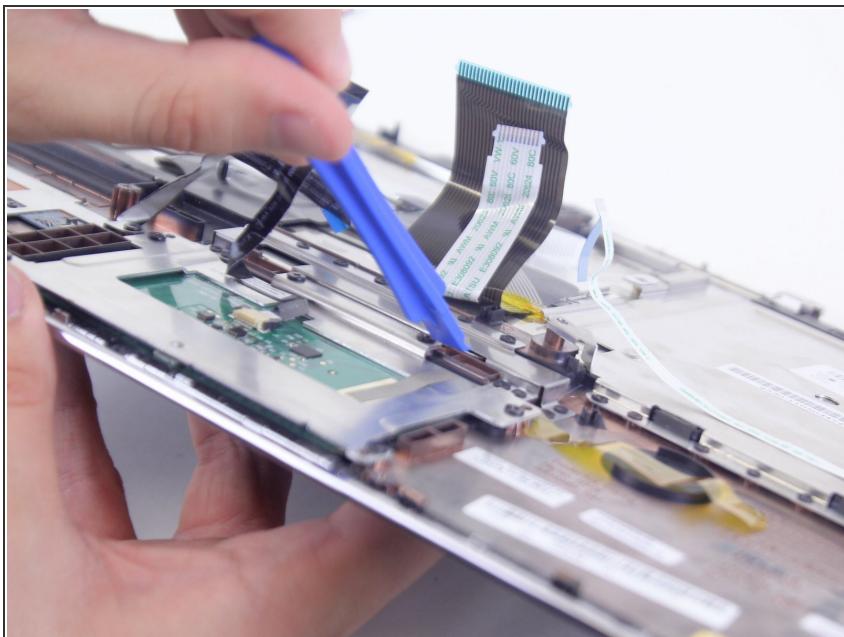
- Lift the unattached case away from the device and place it to the side.
-  When reassembling ensure that all parts of the case are properly aligned.

## Step 13 — Keyboard



- Take the top case and turn it over so you can see the back of the keyboard.

## Step 14



- Use a plastic opening tool to push out the metal spacers holding the keyboard in place.

*ⓘ* After the metal spacers have been disconnected, the keyboard may simply fall out. If not, apply a small amount of pressure to pop it off.

## Step 15



- Lift the keyboard away from the rest of the case.

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