



# Acer Aspire E1-470P-6659 Cooling Fan Replacement

If you have problems with the laptop heating...

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# INTRODUCTION

If you have problems with the laptop heating up, or the cooling fans need to be replaced or repaired, use this guide to remove and replace your laptop's cooling fans.

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## TOOLS:

[Spudger](#) (1)

[iFixit Opening Tool](#) (1)

[Phillips #0 Screwdriver](#) (1)

[Phillips #000 Screwdriver](#) (1)

[Tweezers](#) (1)

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## Step 1 — Battery



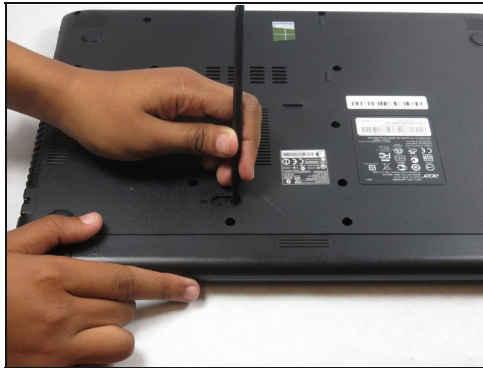
- Turn off the laptop and disconnect all device cords.

## Step 2



- Flip the laptop over so the bottom is facing you.

## Step 3



- Use your finger or a spudger to pull the battery release switch.

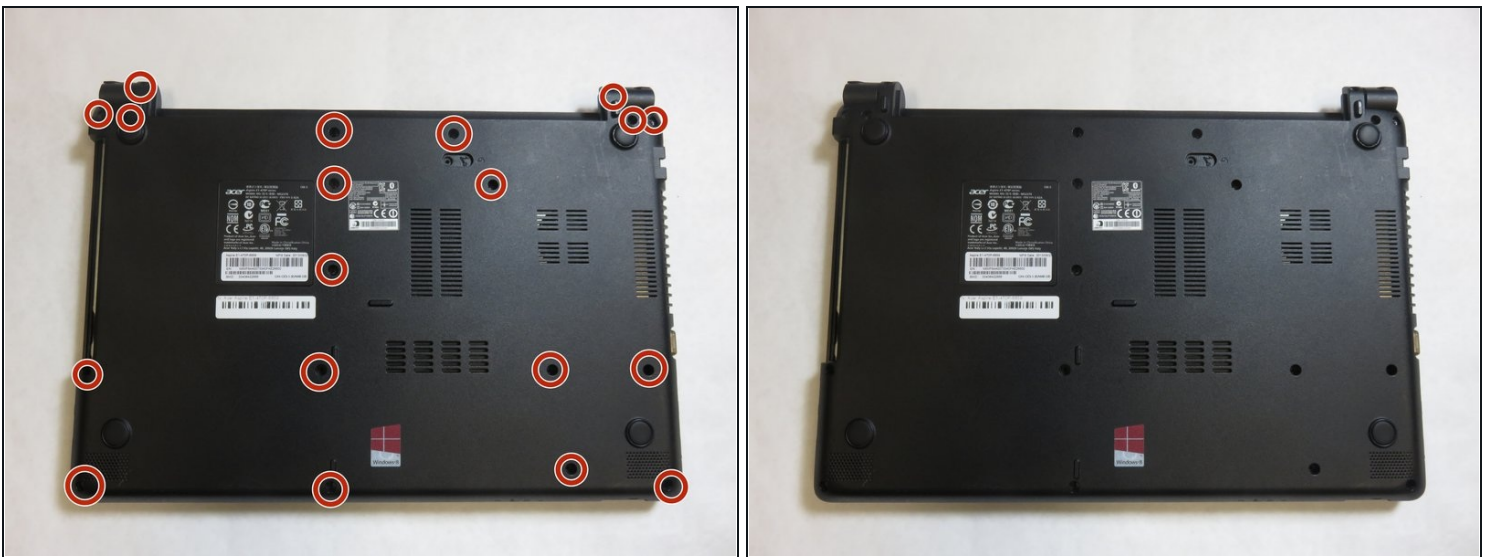


## Step 4



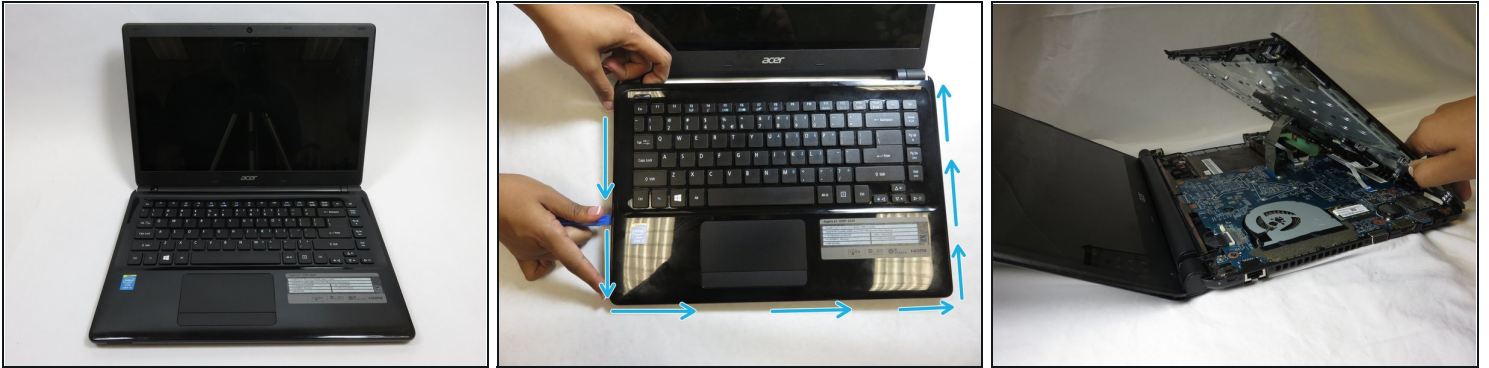
- Remove the battery from the laptop.

## Step 5 — Hard Drive



- Remove nineteen screws from the back panel using a Phillips #0 Screwdriver .

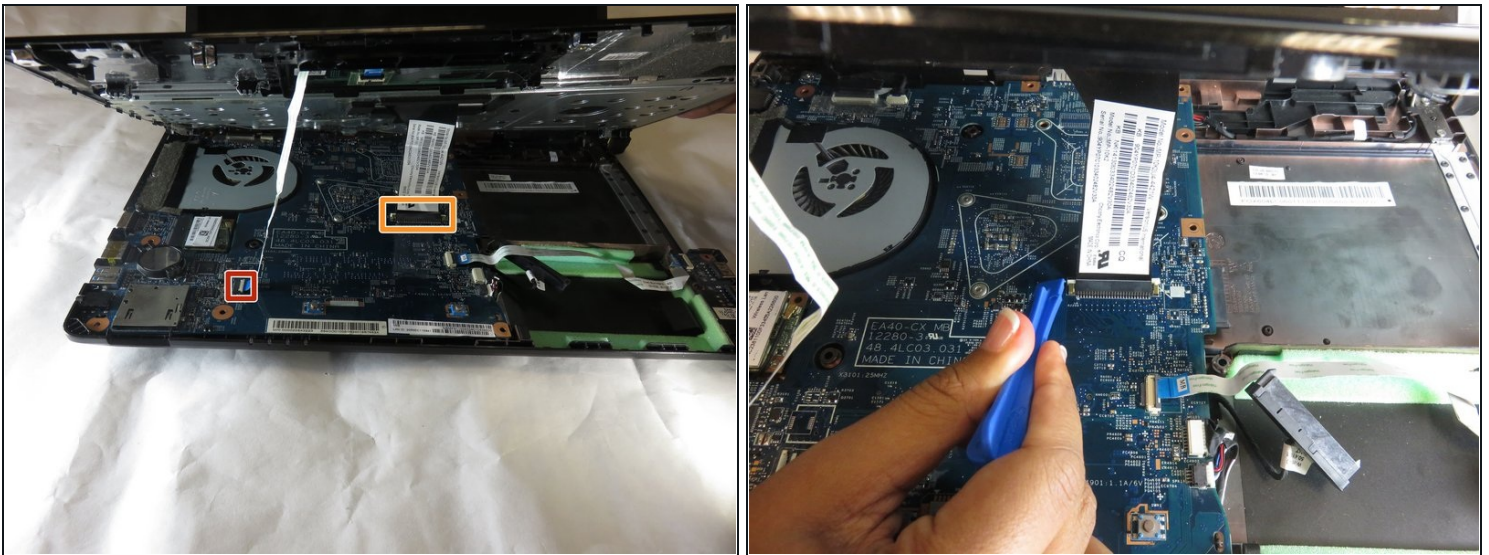
## Step 6



- Run the plastic opening tool across from one corner to another along the edge.
- Separate the keyboard panel gently.

⚠ Lift the keyboard slowly from the laptop but do not lift completely because there are ribbon cables attached.

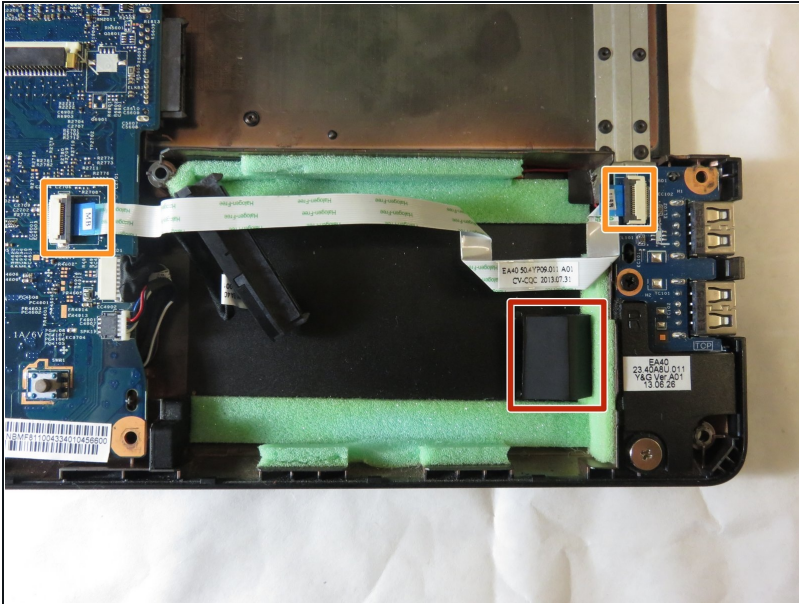
## Step 7



- Disconnect the two keyboard assembly ribbon cables from motherboard.
- To release small ribbon cable, use spudger or fingers to flip gray bar along edge over.
- To release larger ribbon cable, use pry tool or spudger to slide white plastic clip forward.



## Step 8



- Pull up the release tab beside the hard drive.
- Disconnect portion of ribbon cable that is covering the hard drive.

⚠ Handle the ribbon carefully.  
Do not break the metal contact.

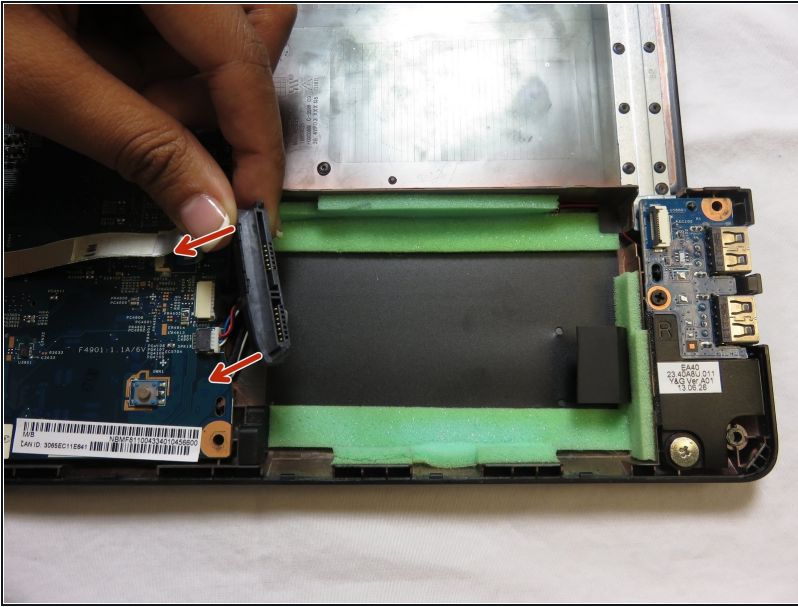
- ★ While reconnecting the ribbon after replacing a new hard drive, face the blue side with a label up. Make sure the black line beside the sticker is not crooked, so that the ribbon is tight.

## Step 9



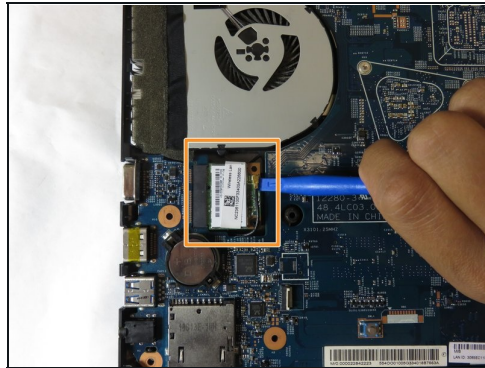
- Remove the hard drive screw using Phillips #0 Screwdriver.

## Step 10



- Pull the hard drive out gently. Be aware that it is connected to the adapter.
- Gently remove adapter by pulling on both ends simultaneously to separate it from the hard drive.

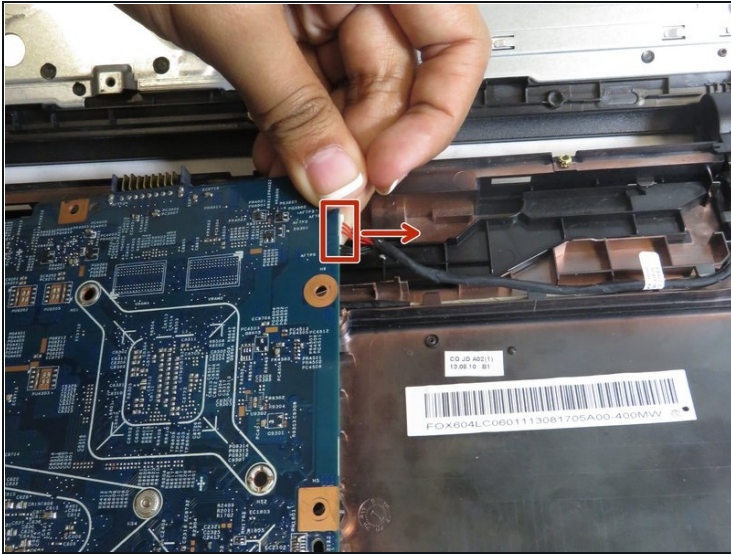
## Step 11 — Motherboard



- Remove additional screws that can be found on the motherboard.
- Remove the green wifi card from motherboard.
- Use spudger to disconnect the fan and motherboard from laptop.



## Step 12



- Remove the cable attached to motherboard.
- Gently lift and remove the motherboard from the laptop.

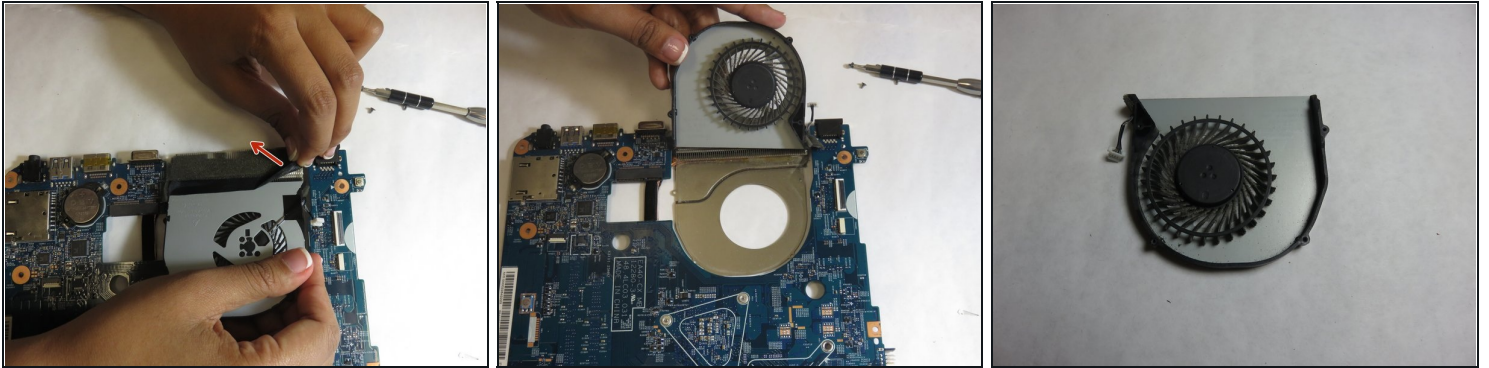
## Step 13 — Cooling Fan



- Flip the motherboard and fan piece over.
- Remove the four screws using the Phillips #000 Screwdriver.



## Step 14



- Flip the motherboard over and slowly remove the tape holding the cooling fan down.
  - Use a spudger to remove the top of the fan from the base of the fan.
  - Remove the cooling fan component from both the tape and the motherboard.
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To reassemble your device, follow these instructions in reverse order.