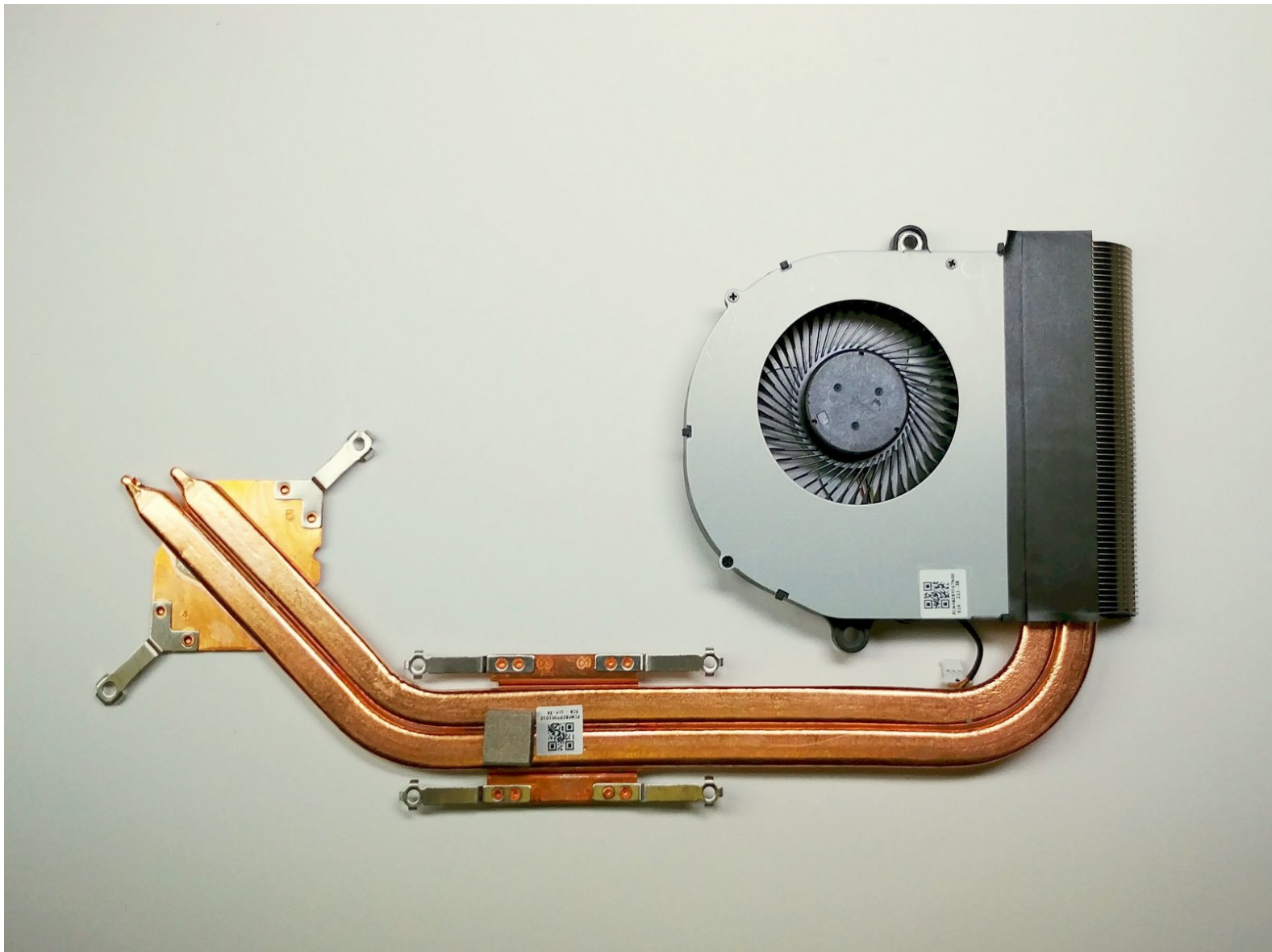




# Acer Aspire V5-591G-75KE Fan and Heatsink Replacement

This guide will show the user how to remove the fan and heat-sink, as well as removing and re-applying thermal compound.

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## INTRODUCTION

This guide will show the user how to remove the fan and heat-sink.

Do not proceed with this guide unless you are prepared to clean and re-apply thermal compound.

For more information, please refer to the [How to Clean and Apply Thermal Compound](#) guide.



### TOOLS:

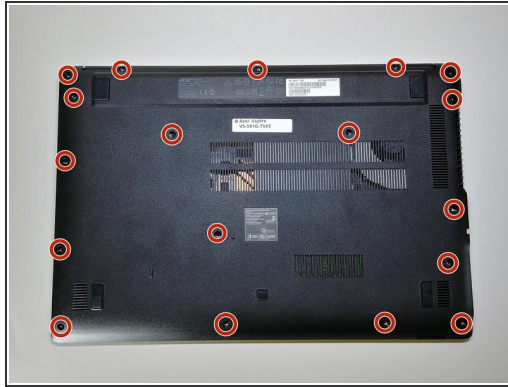
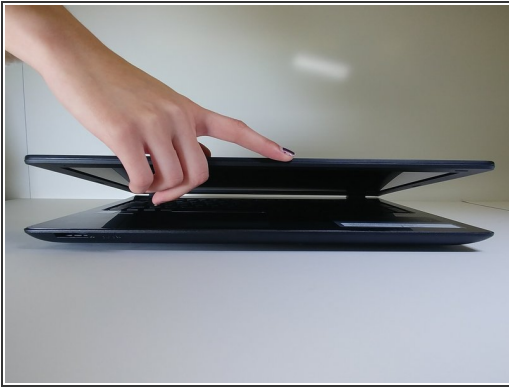
- [Phillips #1 Screwdriver](#) (1)
- [Spudger](#) (1)



### PARTS:

- [Arctic Silver Thermal Paste](#) (1)
- [Q-Tips](#) (1)
- [Plastic Cards](#) (1)
- [Isopropyl Alcohol](#) (1)

## Step 1 — Acer Aspire V5-591G-75KE Disassembly




- Close down the display and flip the device upside down.
- Use a **Phillips #1 screwdriver** to remove 18 black **10mm Phillips Head screws** in order to loosen up the protective bottom casing.

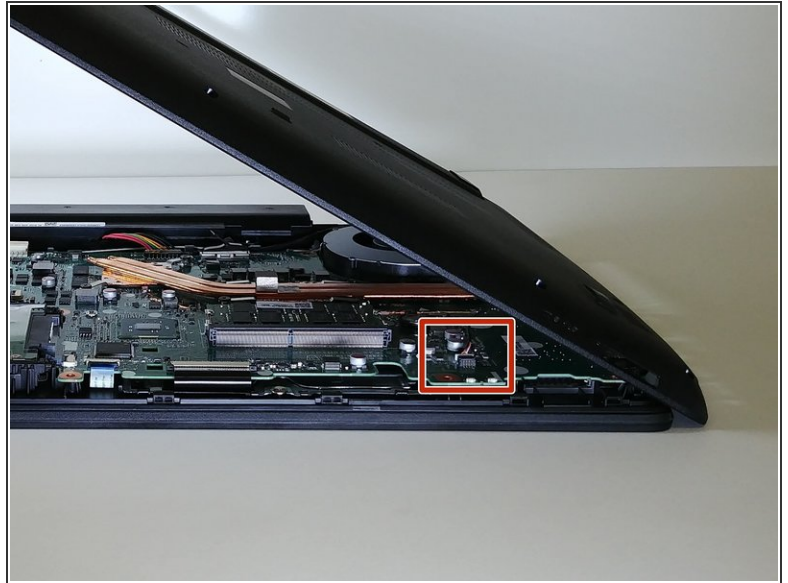
## Step 2




- With the screws removed, flip the device right-side up and open up the display.
- Run a **plastic spudger** tool along the seam of the face-plate in order to loosen up the protective bottom casing.

 *Popping sounds are normal, but forceful prying can damage delicate components. Be especially careful near the USB and HDMI ports.*

## Step 3



- Close the display down once more, and flip the laptop upside down, with the hinge facing away from you.

 *Do not yank the bottom casing off. There is a small speaker wire that connects it to the motherboard.*

- Taking note of the small speaker wire, gently **lift only the left side** of the bottom casing.



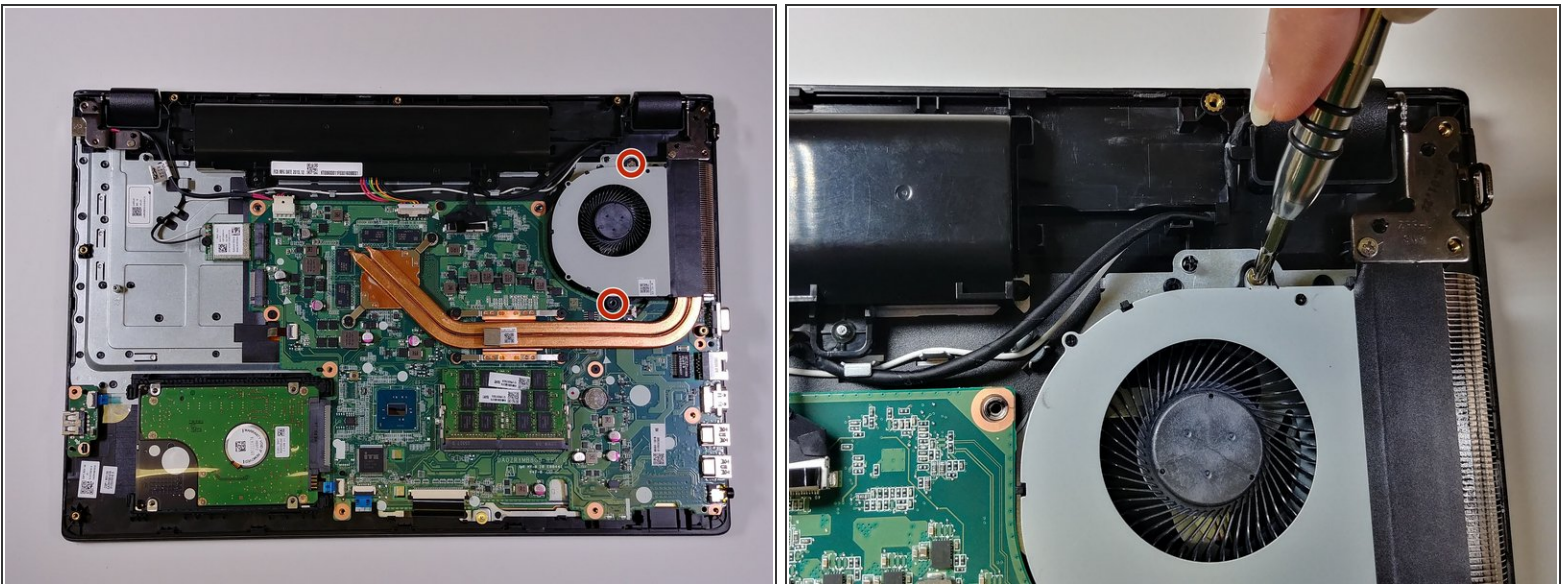
## Step 4



- Using a pair of **blunt tweezers**, push on the tabs of the small white connector to separate it from the motherboard.

*(i) The entire bottom casing should lift with no resistance. If there is too much resistance, verify you removed all the screws, and run the plastic spudger tool around the face-plate again.*

## Step 5 — Fan and Heatsink

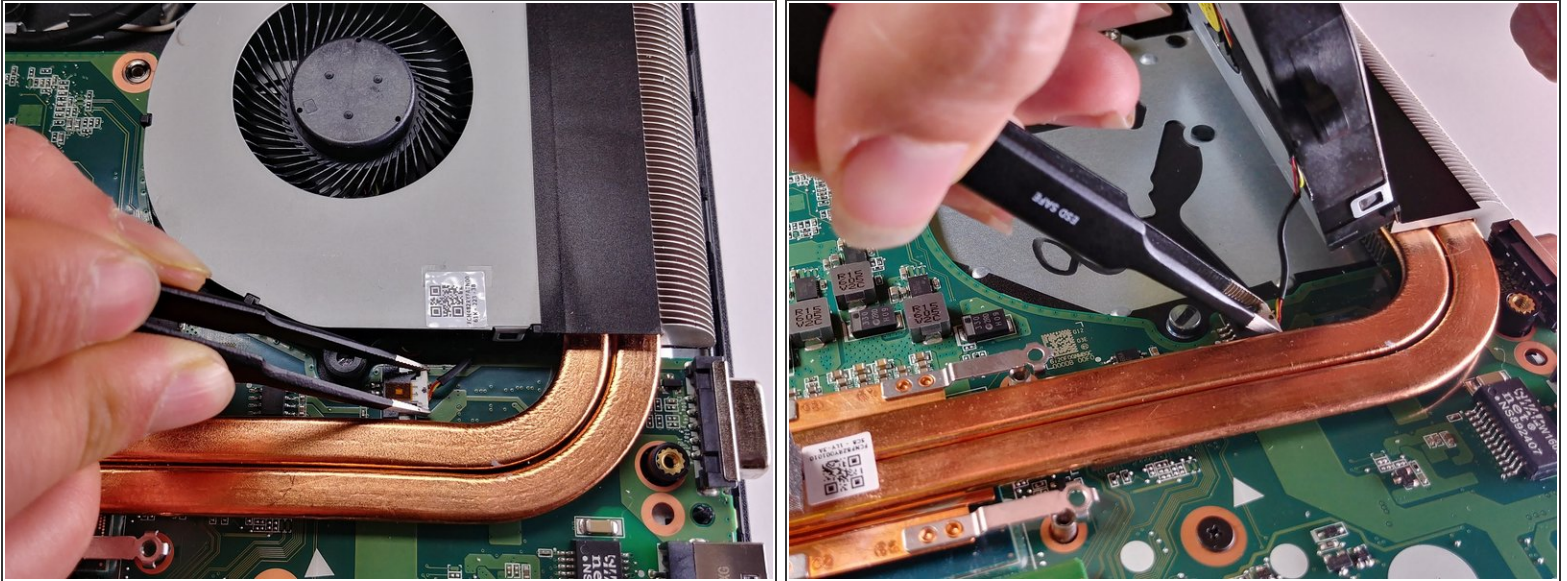


- Use a **Phillips Head size #1 screwdriver** to remove the two silver-colored **10mm Phillips Head screws** securing the fan to the motherboard.

*(i) There are two screw holes, but you might only find one screw.*



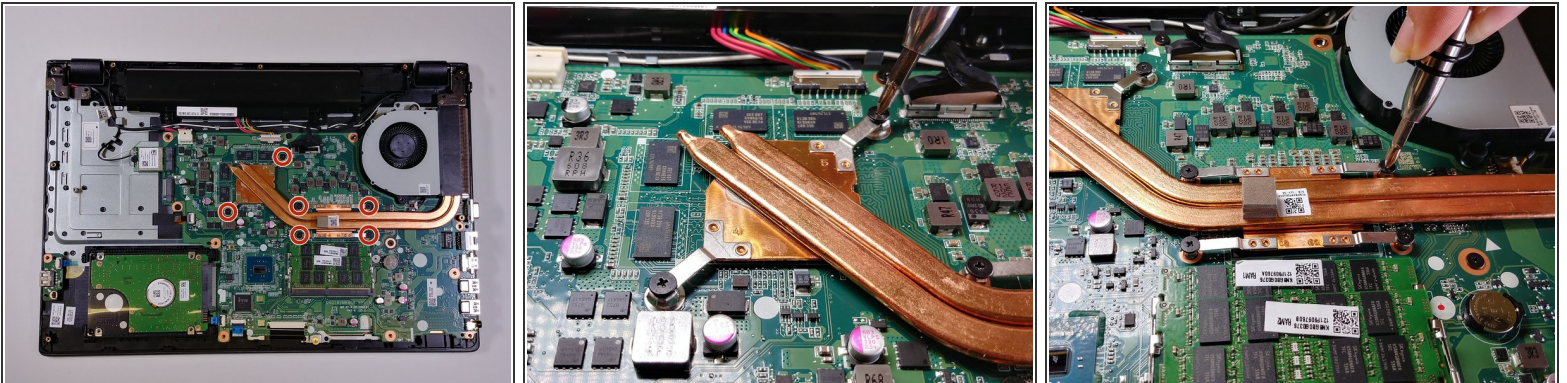
## Step 6



- Use a pair of blunt tweezers to gently push on the 3-pin connector. This disconnects the fan from the motherboard.

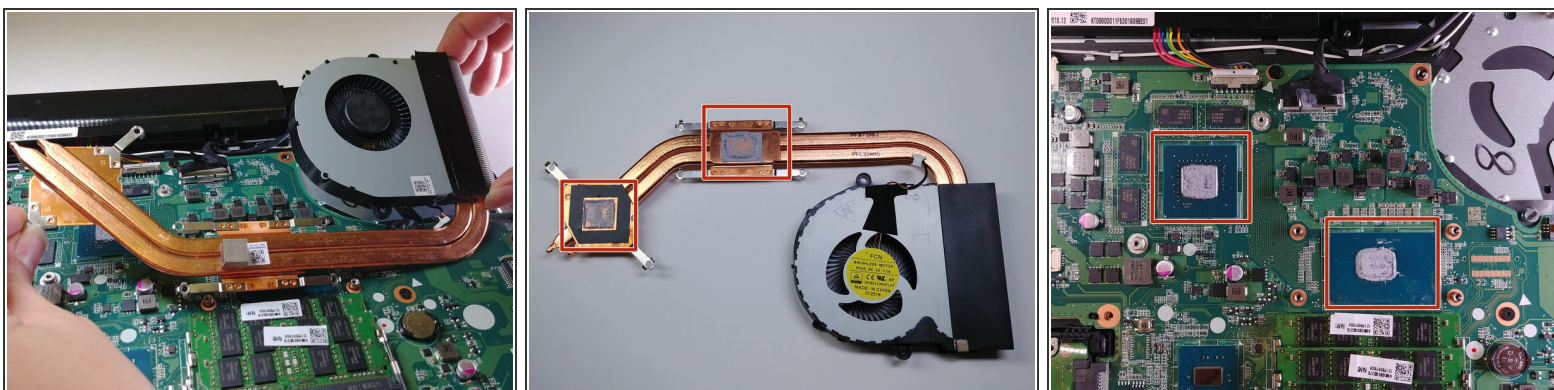
*(i) You can lift up the fan if you need additional space to remove the connector.*

## Step 7



- Use a **Phillips #1 screwdriver** to remove 6 black **10mm Phillips Head screws** that connect the copper heat-sink to the motherboard.

## Step 8



- ⚠** Once you separate the heat-sink from the motherboard, you will need to [clean and re-apply thermal compound](#). Do not proceed unless you are prepared and you have the necessary materials.
- Using both hands, gently lift the heat-sink and fan components from the motherboard.
  - i** Old thermal compound can dry up and adhere the heat-sink to the motherboard like glue. This may make removing the fan and heat-sink difficult.
  - ⚠** Do not re-seat the fan and heat-sink without cleaning and re-applying the thermal compound. For more information, please refer to this [guide](#).

You can follow the steps in reverse to reassemble your device, but you should not re-seat the heat sink and fan without cleaning and re-applying the thermal compound.