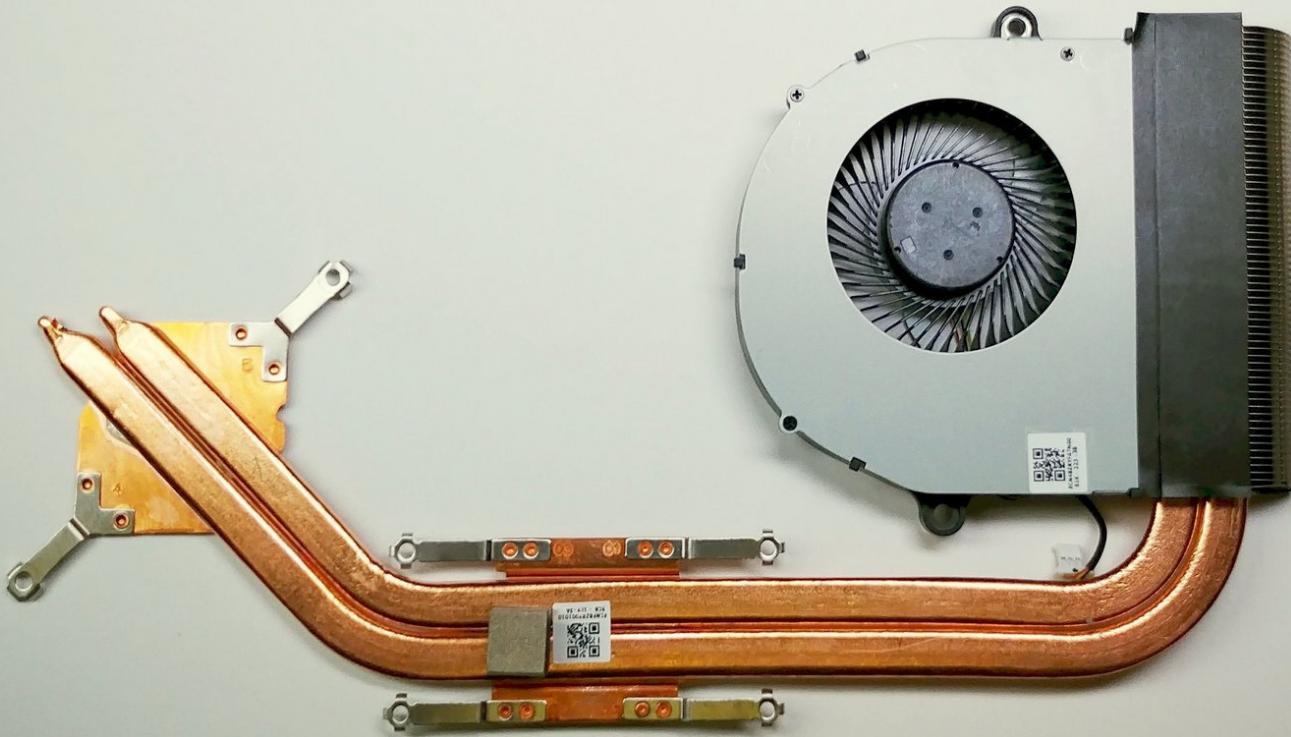




# Acer Aspire V5-591G-75KE Fan and Heatsink Replacement

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.

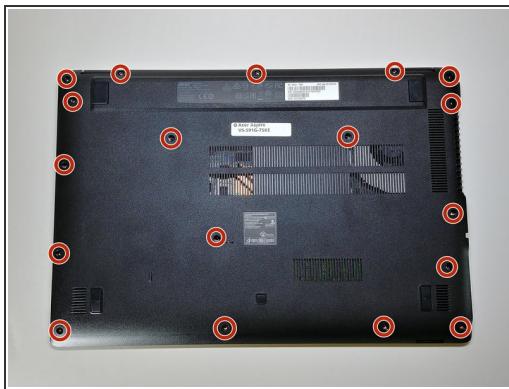
### TOOLS:

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

### PARTS:

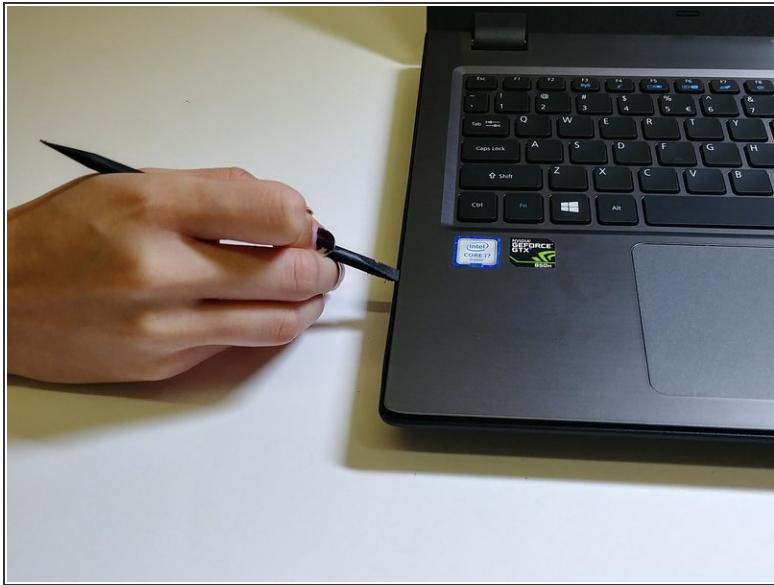
- Arctic Silver Thermal Paste (1)
- Q-Tips (1)
- Plastic Cards (1)
- Isopropyl Alcohol (1)

## 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.

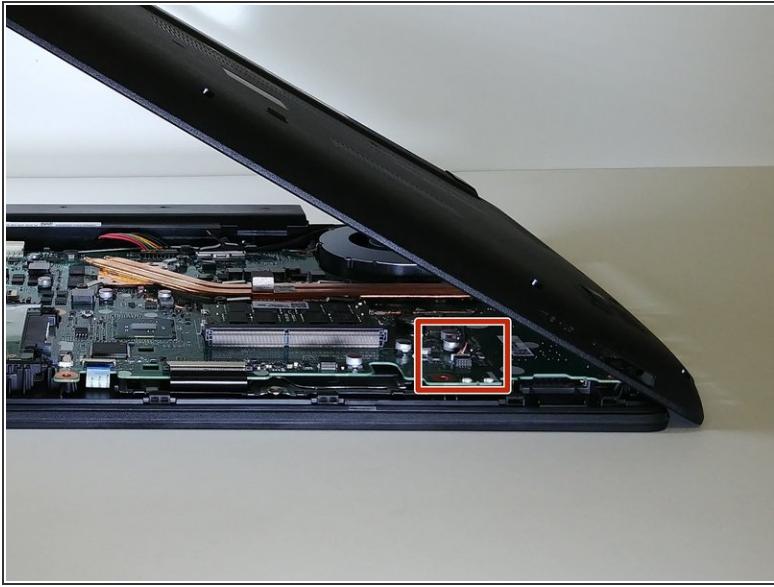
## Step 2



- 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.*

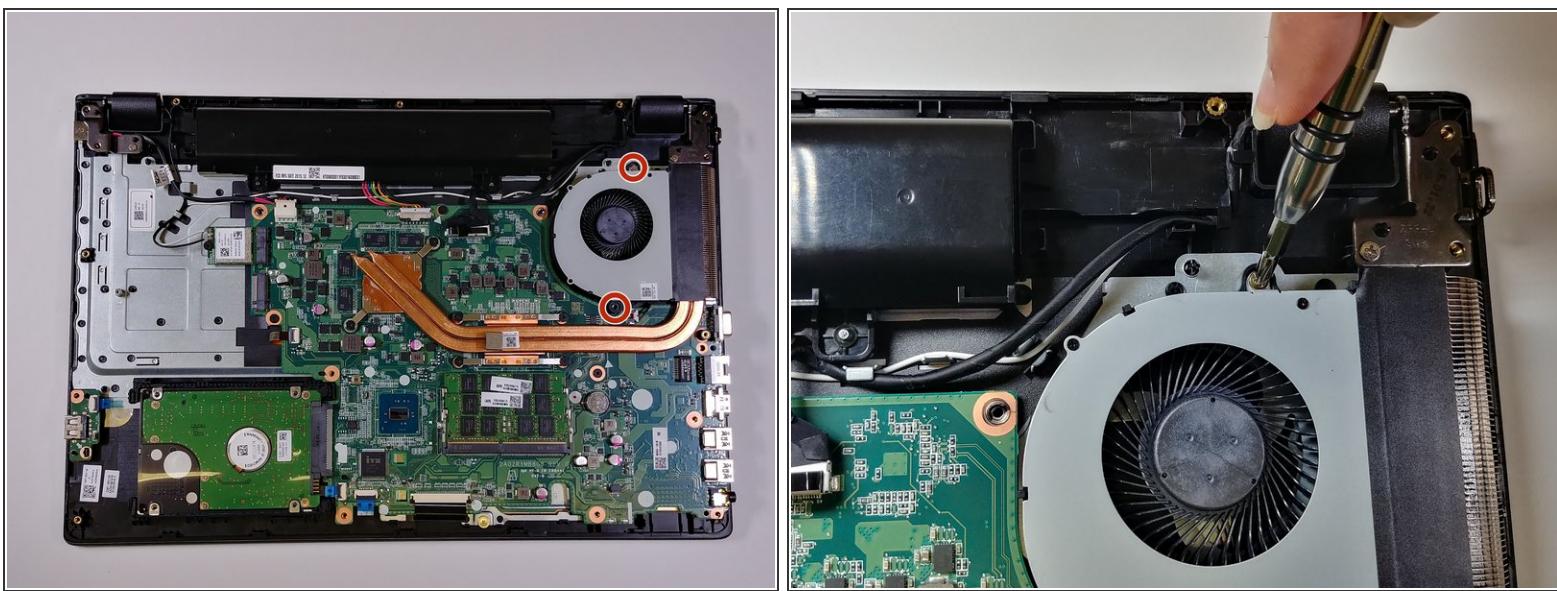
- Taking note of the small speaker wire, gently **lift only the left side** of the bottom casing.

## Step 4



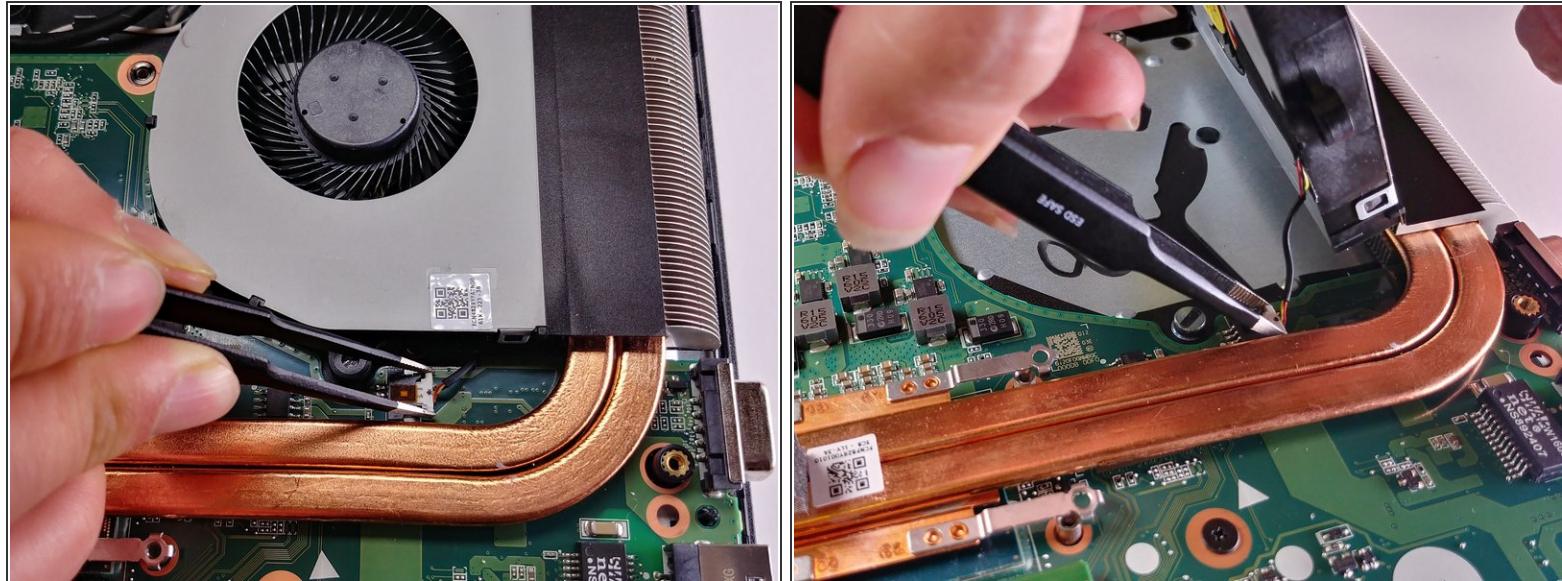
- Using a pair of **blunt tweezers**, push on the tabs of the small white connector to separate it from the motherboard.
- (i) The entire bottom casing should lift with no resistance. If there is too much resistance, verify you removed all the screws, and run the plastic spudger tool around the face-plate 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.

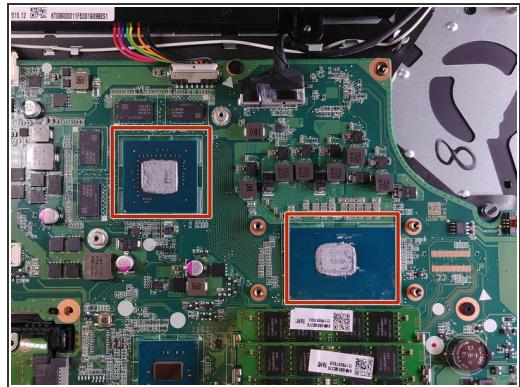
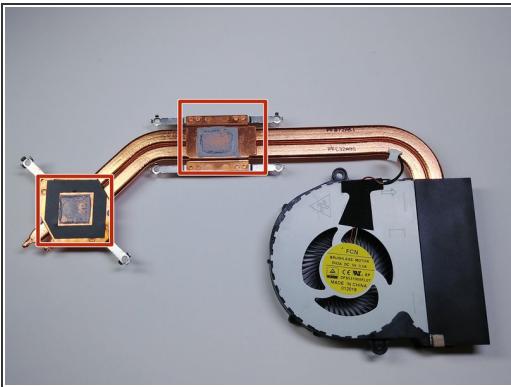
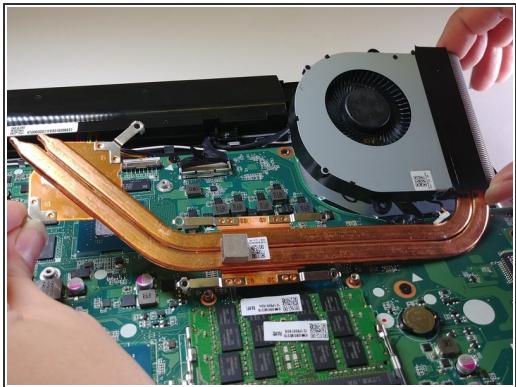
*(i) You can lift up the fan if you need additional space to remove the connector.*

## 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.