



---

## INTRODUCTION

In this guide, we will be showing you how to replace the Heat-Sink Assembly.

---

### TOOLS:

- [Pro Tech Toolkit](#) (1)
-

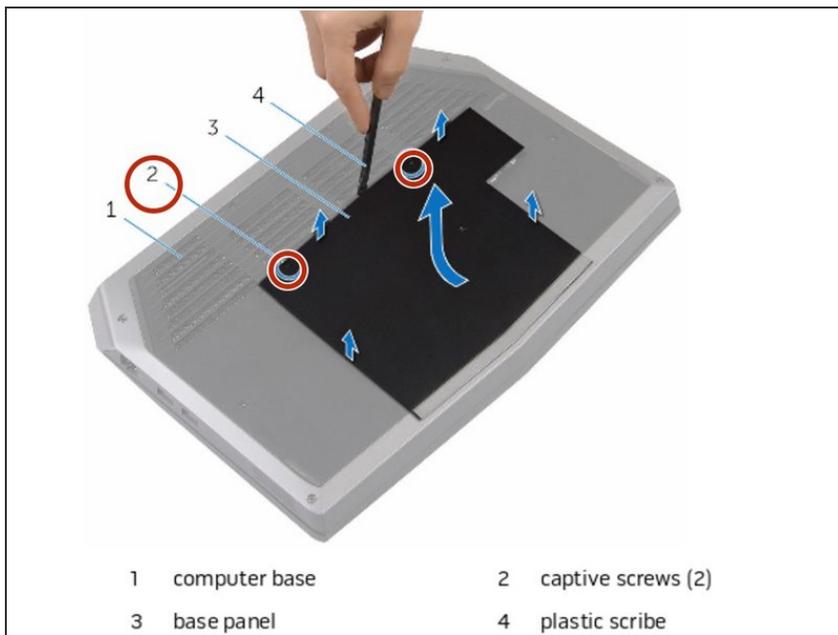
## Step 1 — Turning Over the PC



**⚠ WARNING:** Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before Working Inside Your Computer](#). After working inside your computer, follow the instructions in [After Working Inside Your Computer](#). For more safety best practices, see the regulatory compliance home page.

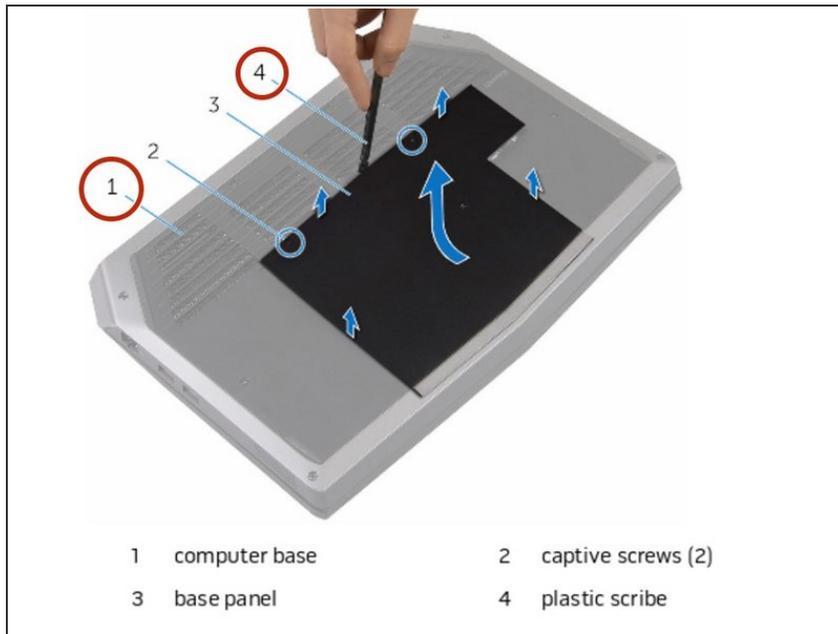
- Close the display and turn the computer over.

## Step 2 — Loosen the screws



- Loosen the captive screws that secure the base panel to the computer base.

### Step 3 — Releasing the Tabs



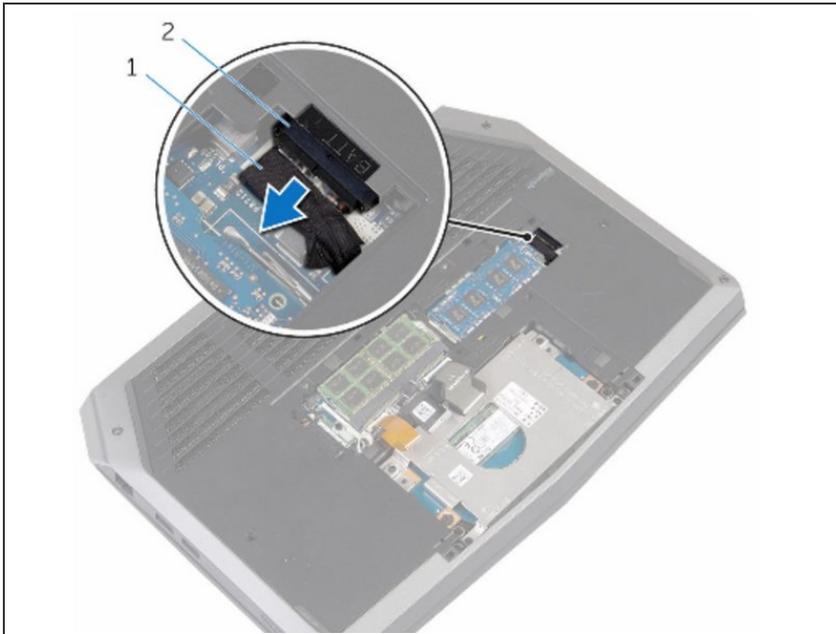
- Using a plastic scribe, gently release the tabs that secure the base panel to the computer base.

### Step 4 — Disconnecting the Battery Cable



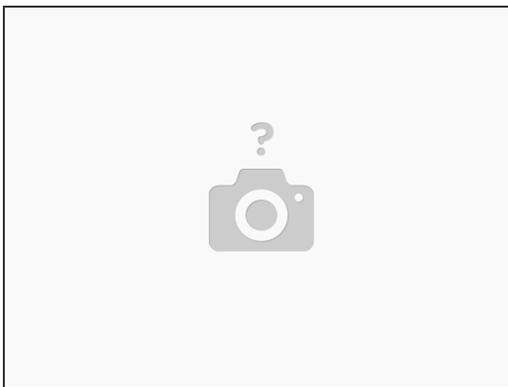
- Disconnect the battery cable from the battery-cable connector.
- Turn the computer over.

## Step 5 — Power Button



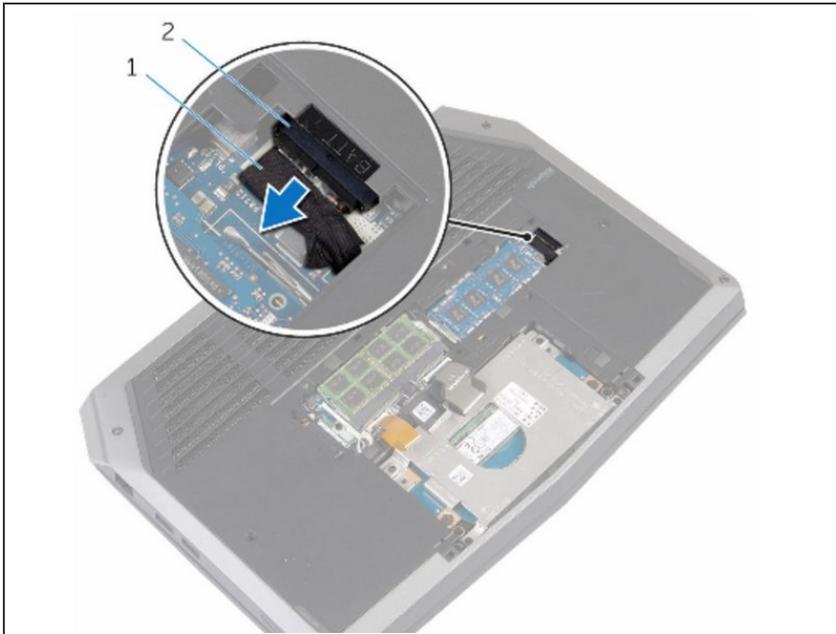
- Press and hold the power button for 5 seconds to ground the system board.

## Step 6 — Connect the Battery Cable



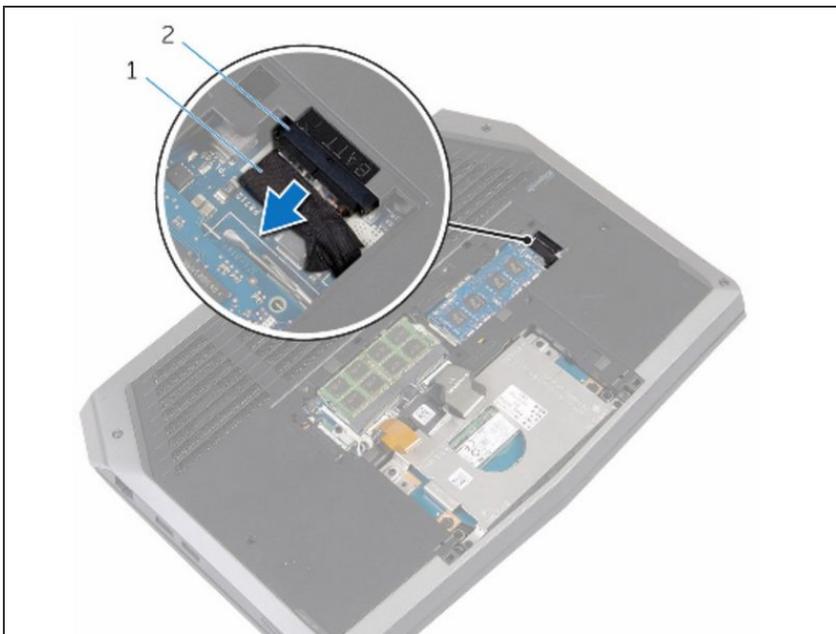
- Connect the battery cable to the battery-cable connector.

## Step 7 — Aligning the tabs



- Align the tabs on the base panel with the slots on the computer base and snap the base panel into place.

## Step 8 — Tighten the screws



- Tighten the captive screws that secure the base panel to the computer base.

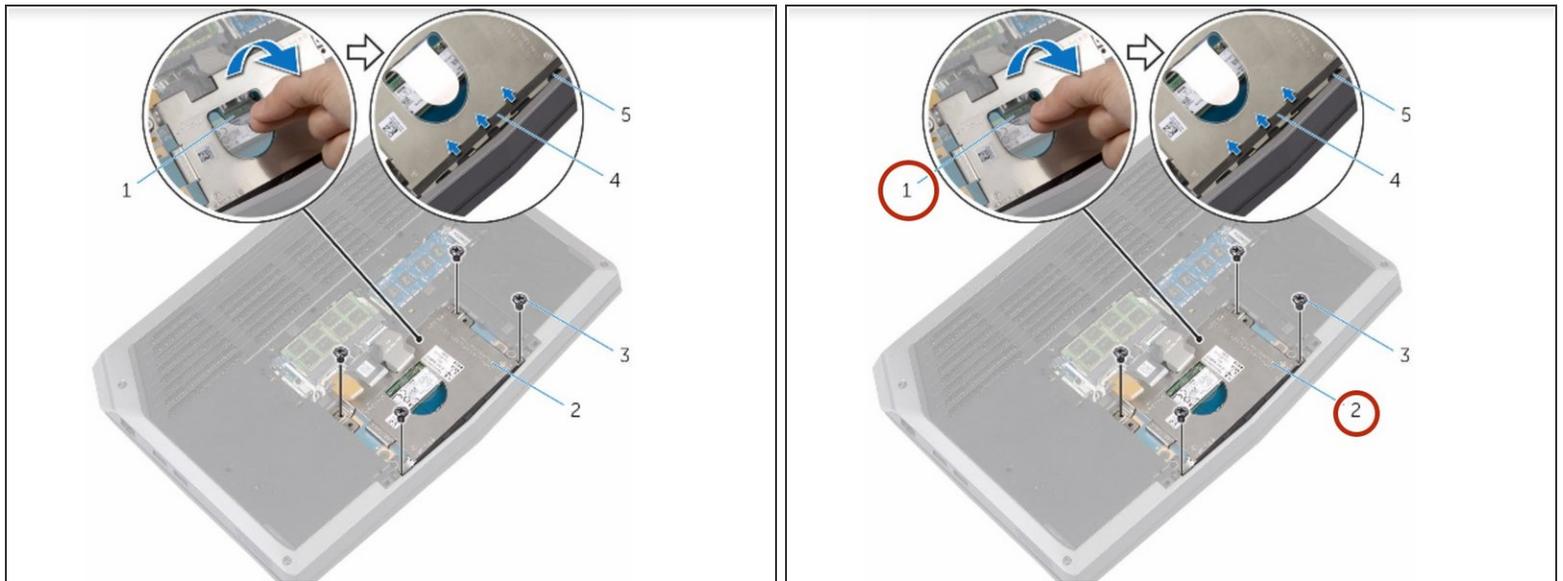
## Step 9 — Removing the Screws



**⚠ WARNING:** Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before Working Inside Your Computer](#). After working inside your computer, follow the instructions in [After Working Inside Your Computer](#).

- Remove the screws that secure the solid-state drive bracket to the solid-state drive assembly.

## Step 10 — Peel off Computer Base Tabs



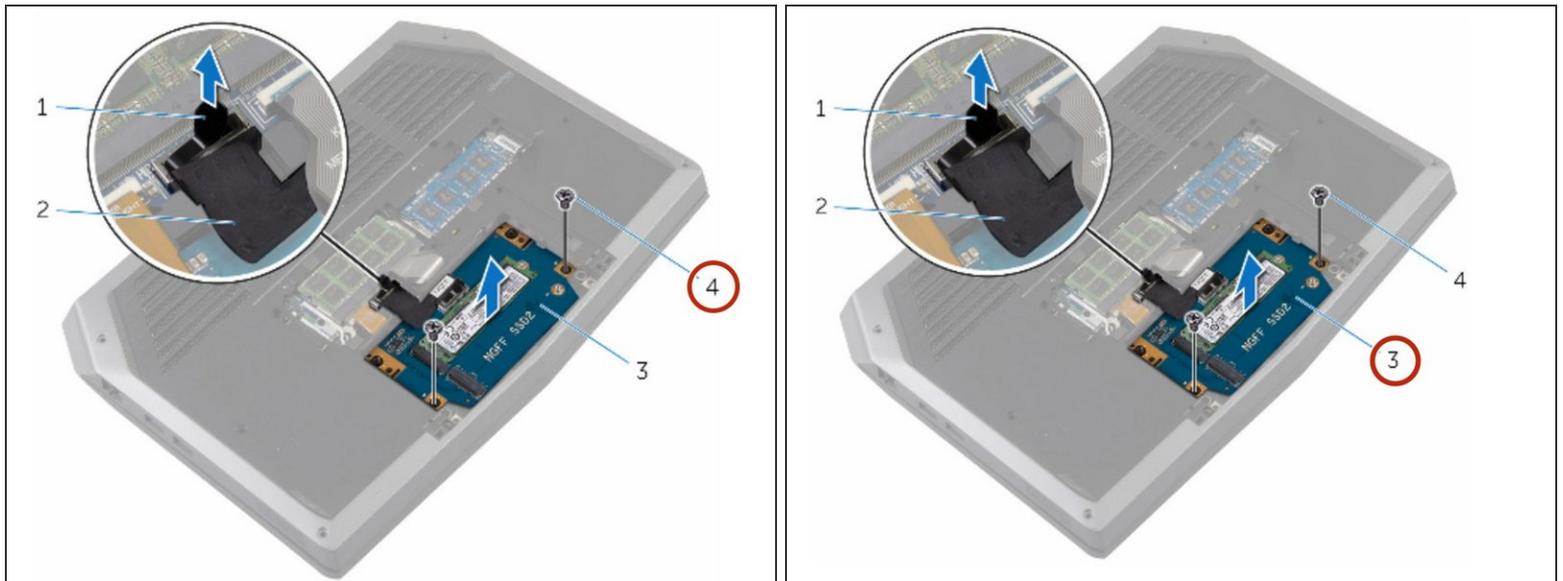
- Using the pull tab, pivot the solid-state drive bracket and peel off the bracket from the tabs on the computer base.

## Step 11 — Disconnecting the Solid-State Drive Cable



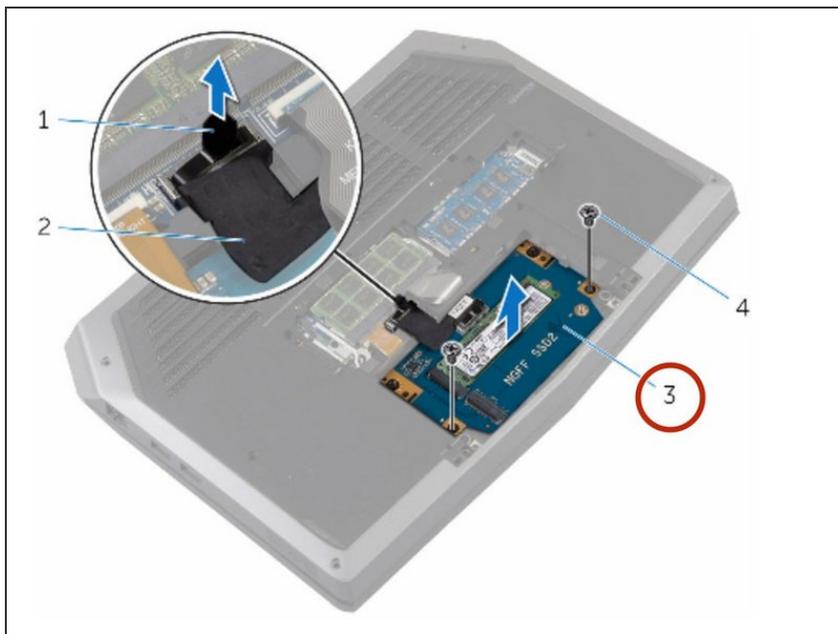
- Using the pull tab, disconnect the solid-state drive cable from the system board.

## Step 12 — Removing the Solid-State Drive



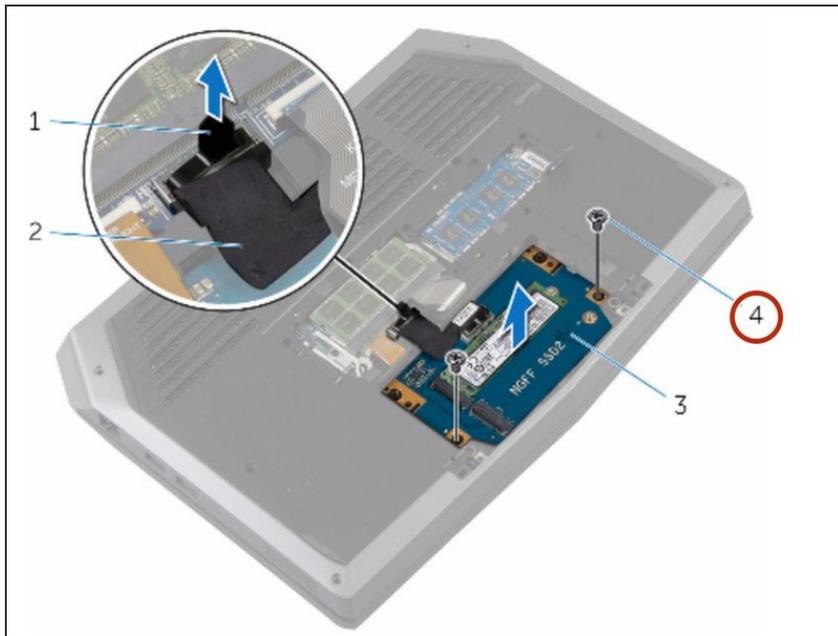
- Remove the screws that secure the solid-state drive assembly to the computer base.

## Step 13 — Lifting the Solid-State Assembly



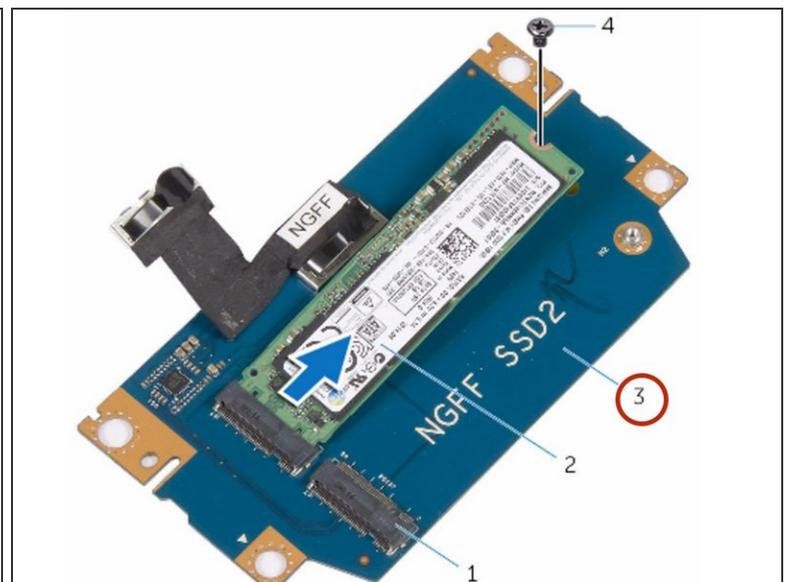
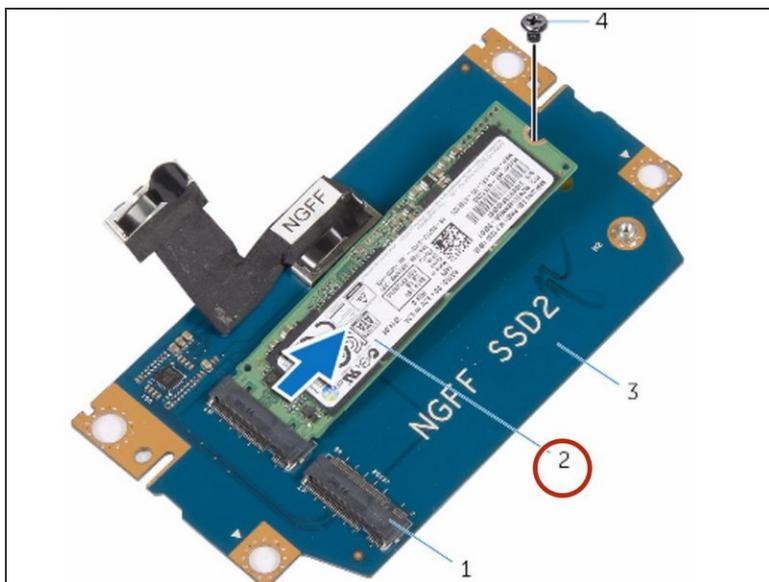
- Lift the solid-state drive assembly off the computer base.

## Step 14 — Remove the Screw



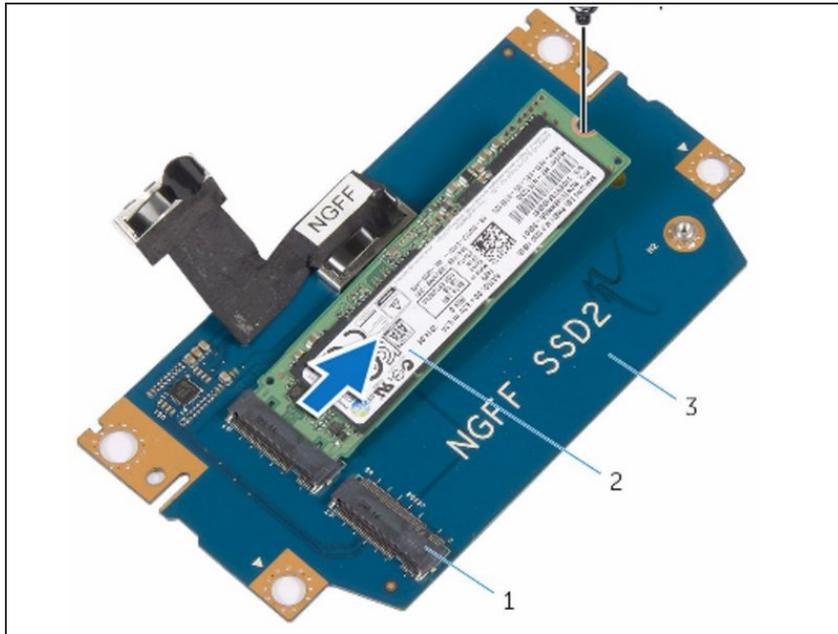
- Remove the screw that secures the solid-state drive to the solid-state drive assembly.

## Step 15 — Lift the Solid-State Assembly.



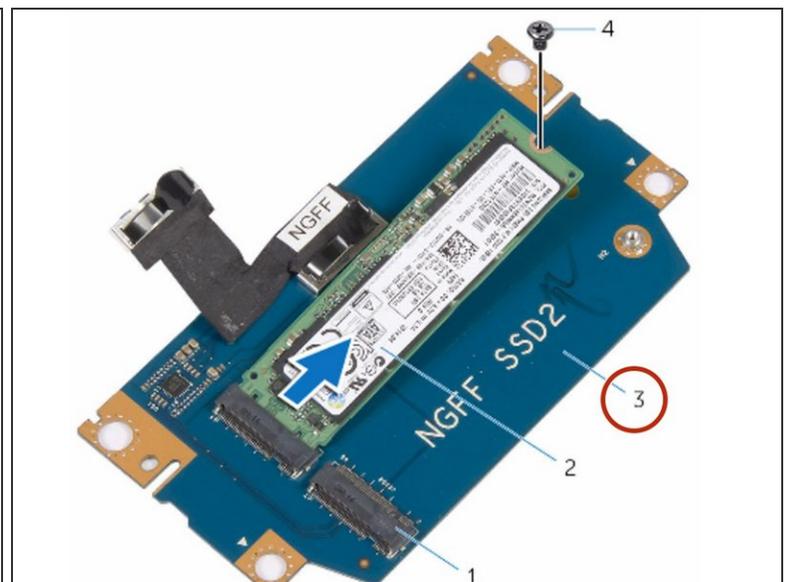
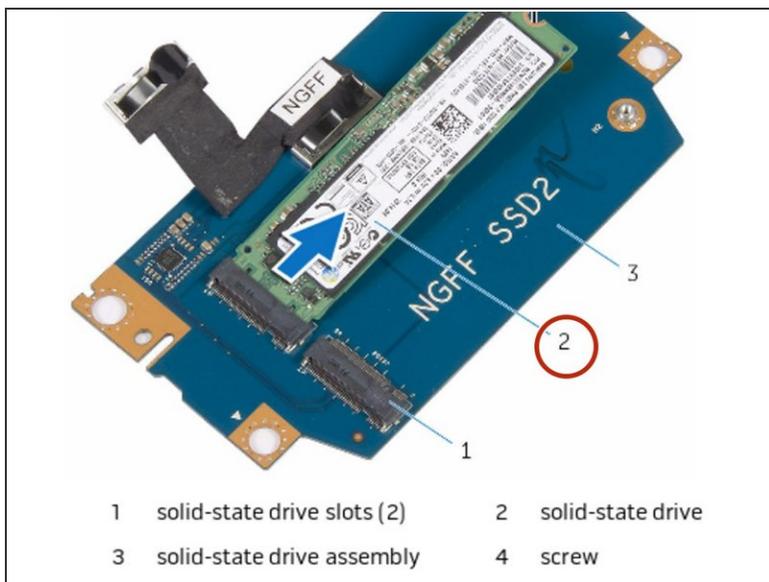
- Slide and lift the solid-state drive off the solid-state drive assembly.

## Step 16 — The New Solid-State Drive



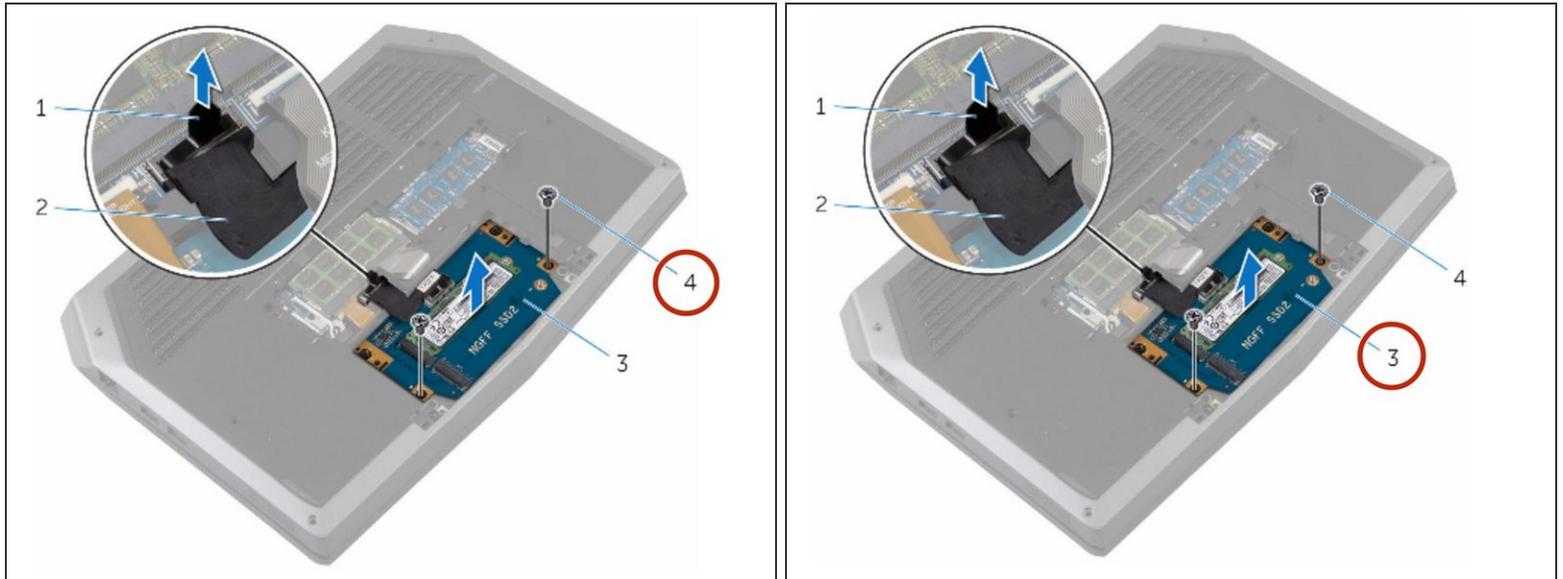
- Slide the **NEW** solid-state drive into the slot on the solid-state drive assembly.

## Step 17 — Screw Replacement



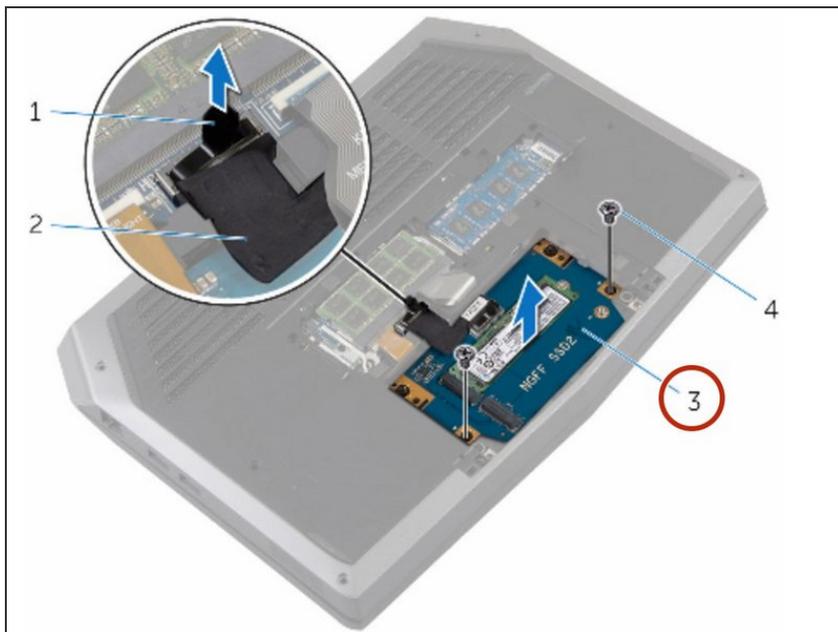
- Replace the screw that secures the solid-state drive to the solid-state drive assembly.

## Step 18 — Align the Screws



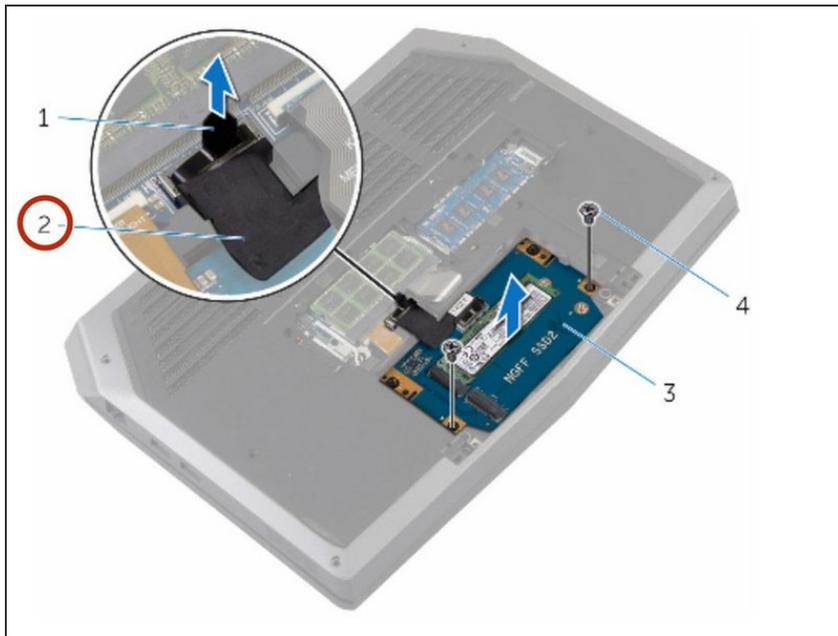
- Align the screw holes on the solid-state drive assembly with the screw holes on the computer base.

## Step 19 — Replace the Screws



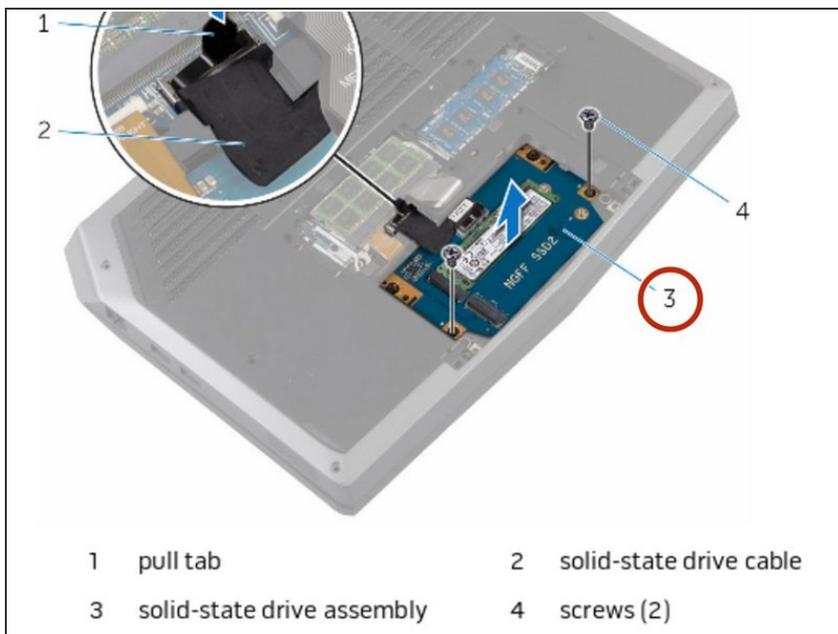
- Replace the screws that secure the solid-state drive assembly to the computer base.

## Step 20 — Connect the Cable to the System Board



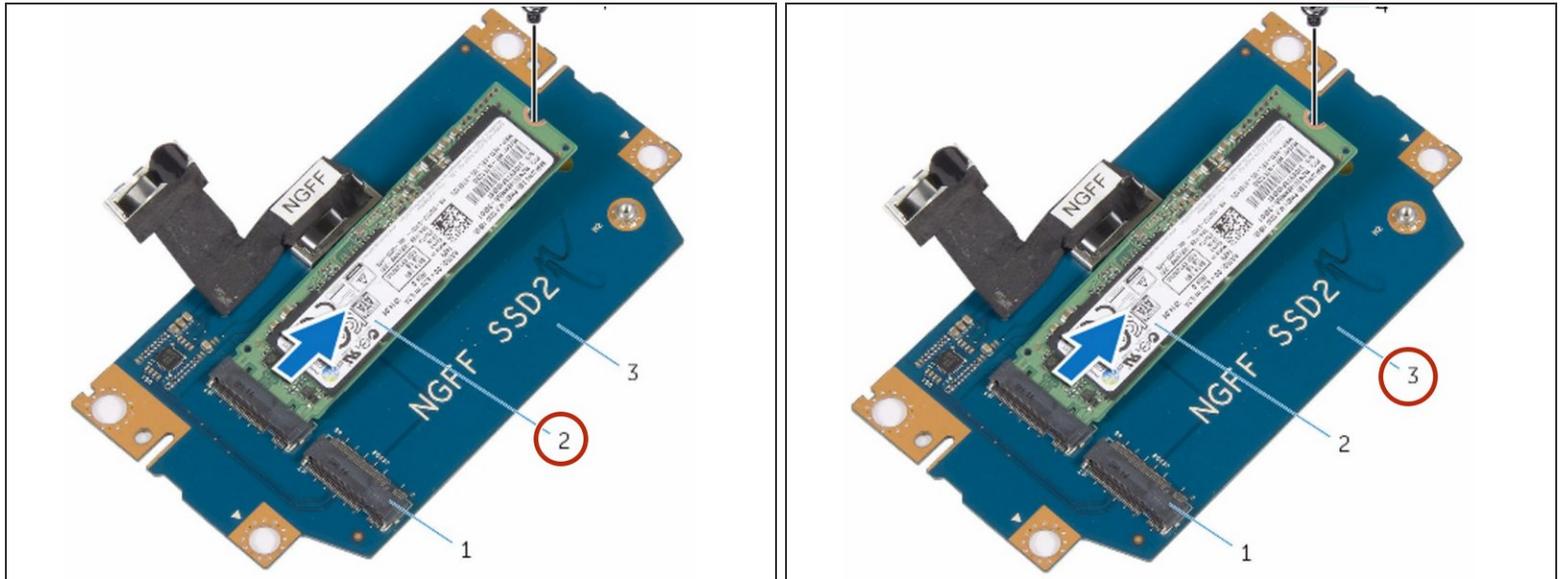
- Connect the solid-state drive cable to the system board.

## Step 21 — Align the Screw Holes



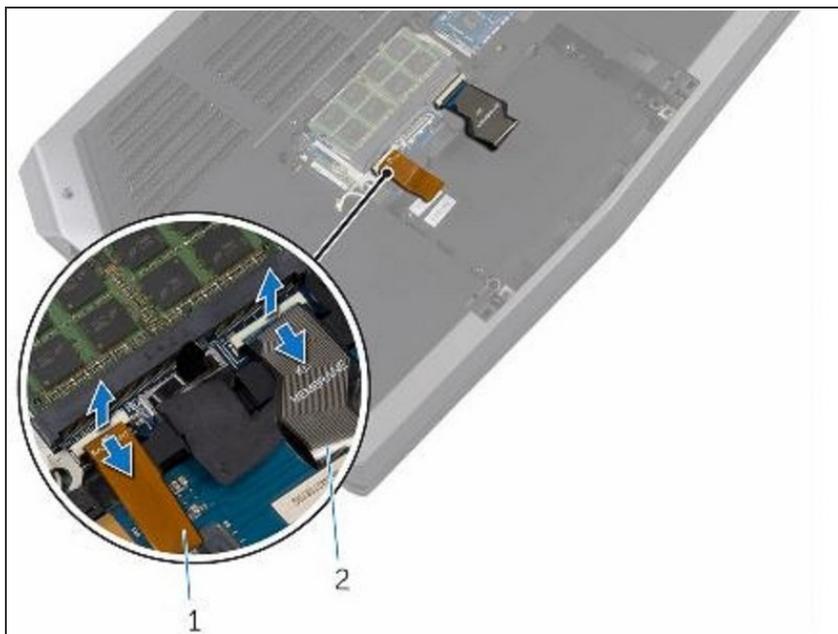
- Align the screw holes on the solid-state drive bracket with the screw holes on the solid-state drive assembly.

## Step 22 — Replace the Screws



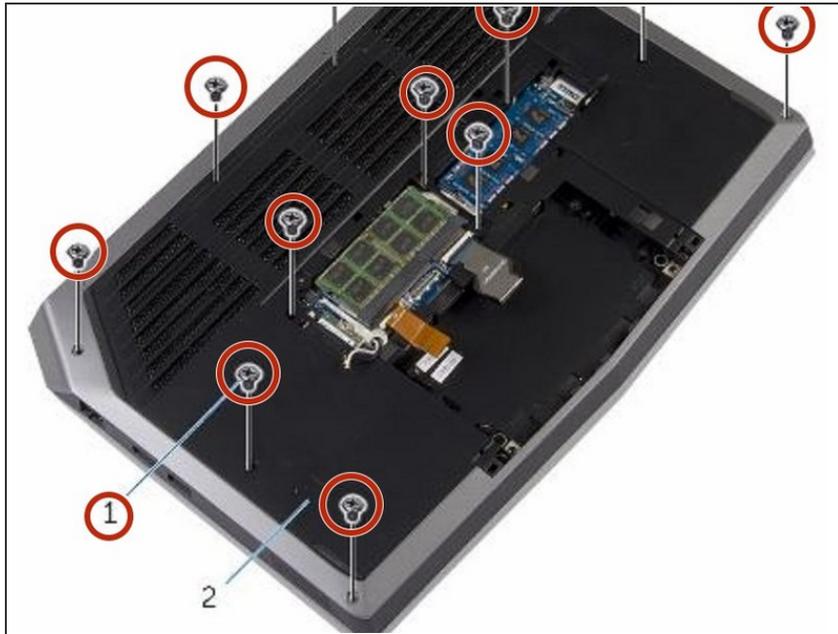
- Replace the screws that secure the solid-state drive bracket to the solid-state drive assembly.

## Step 23 — Lifting the Latches



- Lift the latches and disconnect the keyboard and keyboard-backlight cables from the system board.

## Step 24 — Remove the Screws



- Remove the screws that secure the palm-rest assembly to the computer base.

## Step 25 — Lift the Computer Base



- Lift the computer base slightly and push the release tabs on the palm-rest assembly until it pops out.

## Step 26 — Turning the Computer Over



- Turn the computer over and open the display as far as possible.

## Step 27 — Prying the Palm-Rest Assembly



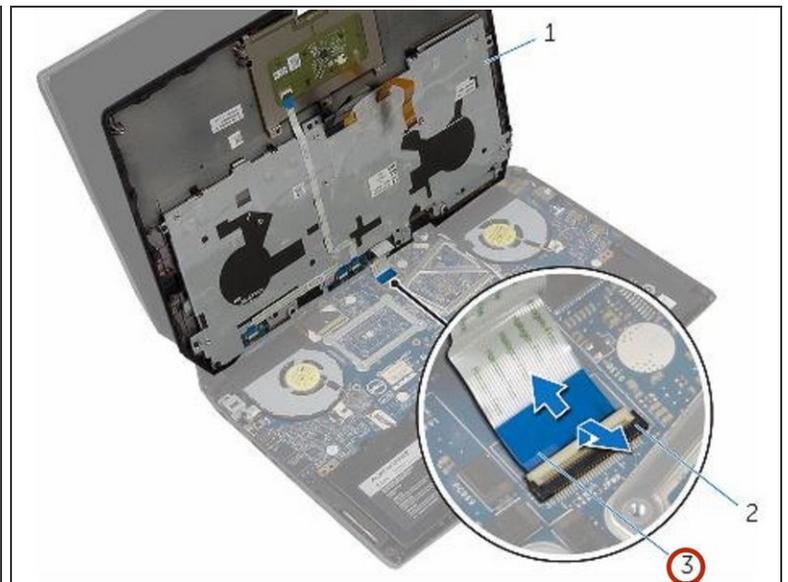
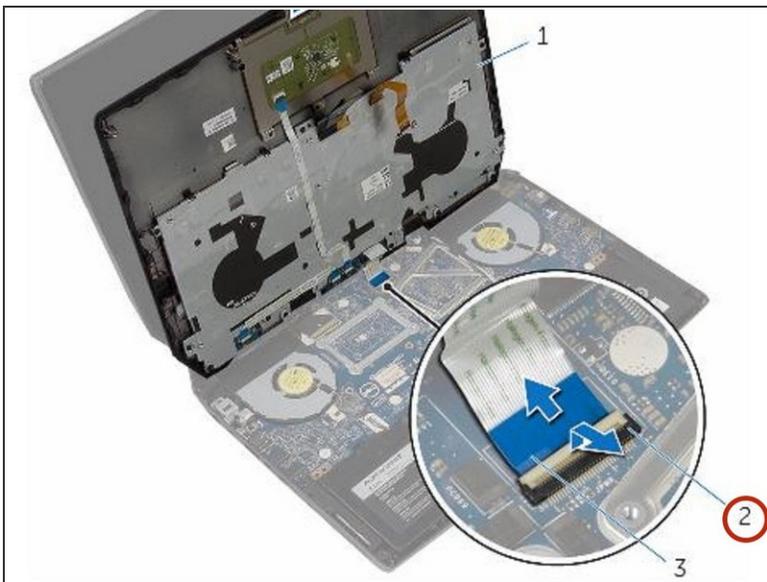
- Using a plastic scribe, pry up along the edges of the palm-rest assembly.

## Step 28 — Lift the Palm-Rest Assembly



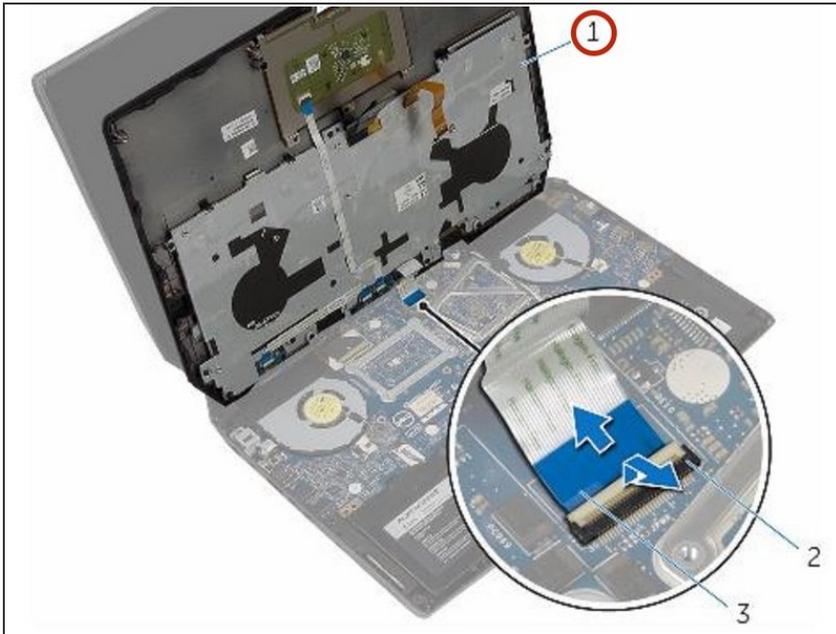
- Gently lift the palm-rest assembly and turn it over.

## Step 29 — Lift the Connector Latch



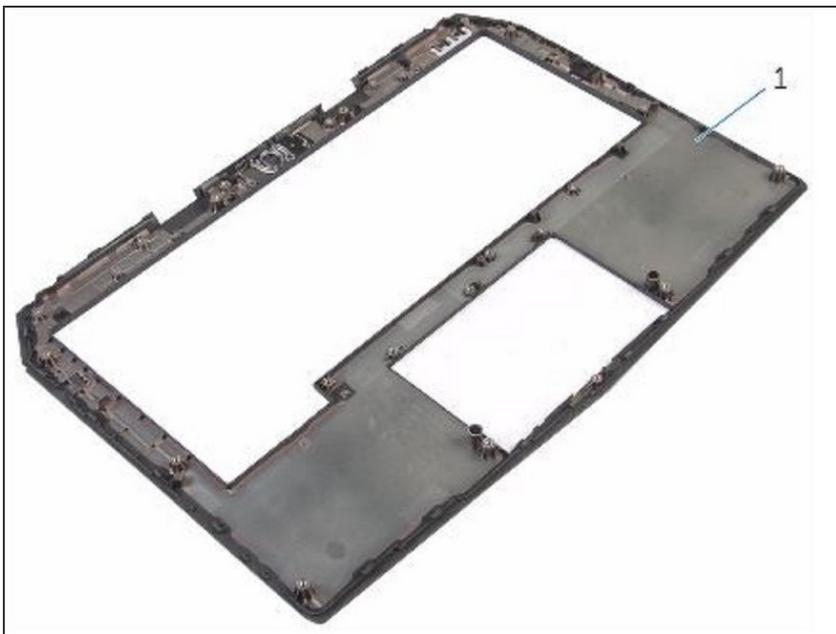
- Lift the connector latch and disconnect the power-button board cable from the system board.

## Step 30 — Lift the Palm-Rest Assembly



- Lift the palm-rest assembly off the computer base.

## Step 31 — Removing



- Remove the keyboard.
- Remove the power-button board.
- Remove the status-light board.
- Remove the Touchpad.

## Step 32 — Replacement



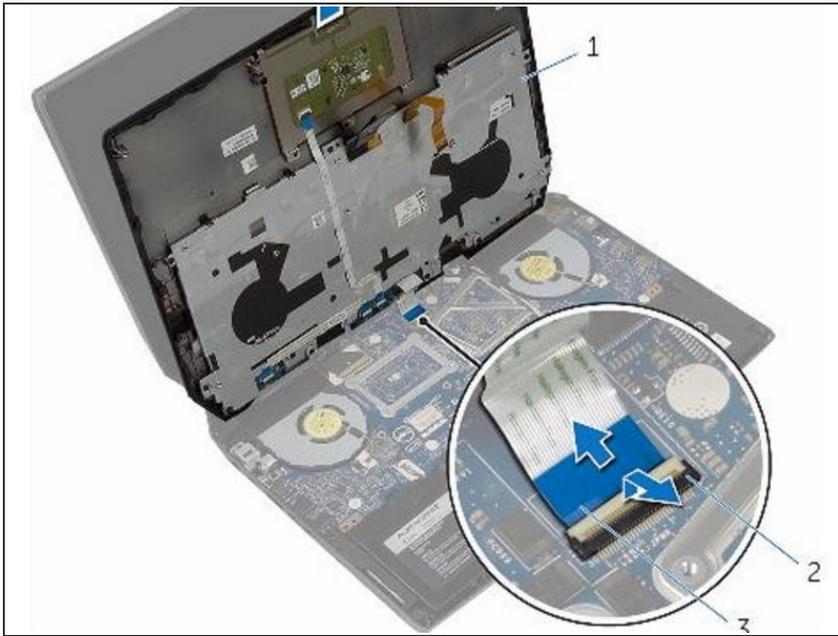
- Replace the touchpad.
- Replace the status-light board.
- Replace the power-button board.
- Replace the keyboard.

## Step 33 — Connecting the Power-Button Board Cable



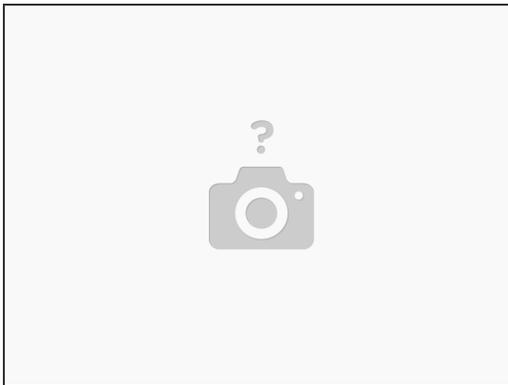
- Connect the power-button board cable to the system board.

## Step 34 — Align the Palm-Rest Assembly



- Align the palm-rest assembly on the computer base and snap it into place.

## Step 35 — Close the Display



- Close the display and turn the computer over.

## Step 36 — Replace the Screws



- Replace the screws that secure the palm-rest assembly to the computer base.

## Step 37 — Connect the Keyboard Cable



- Connect the keyboard cable and the keyboard-backlight cable to the system board.

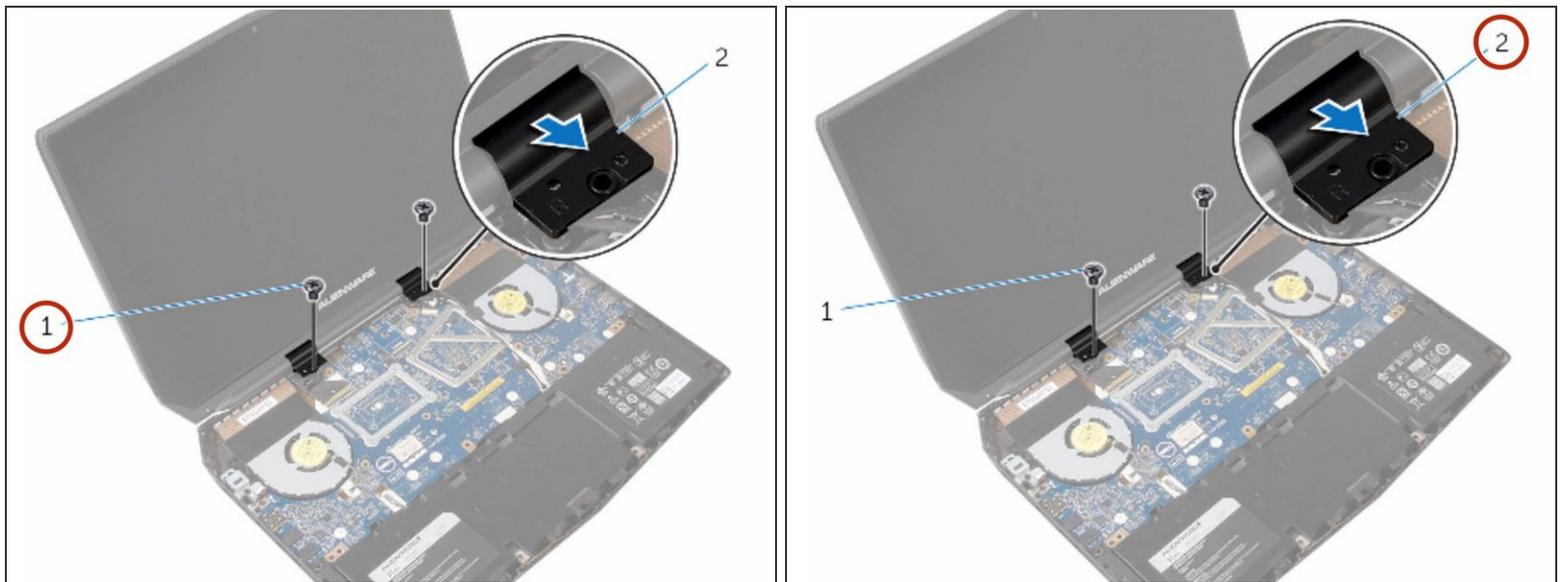
## Step 38 — Open the Display



**⚠ WARNING:** Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before Working Inside Your Computer](#). After working inside your computer, follow the instructions in [Before Working Inside Your Computer](#).

- Open the display as far as possible.

## Step 39 — Remove the Screws



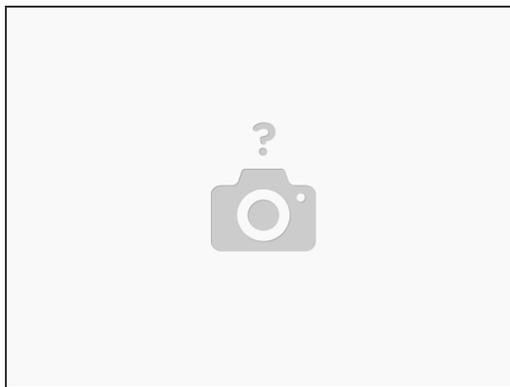
- Remove the screws that secure the hinge caps to the display hinges.

## Step 40 — Lifting the Hinge Caps



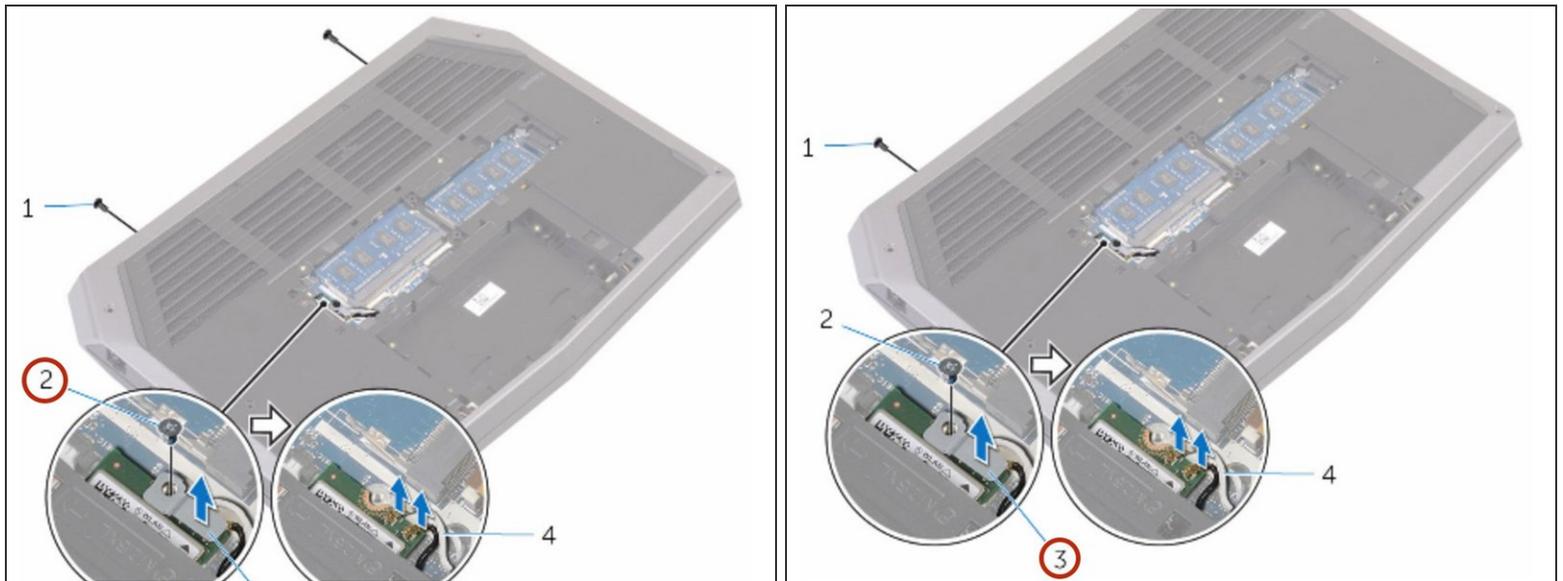
- Slide and lift the hinge caps off the display hinges.

## Step 41 — Close the Display



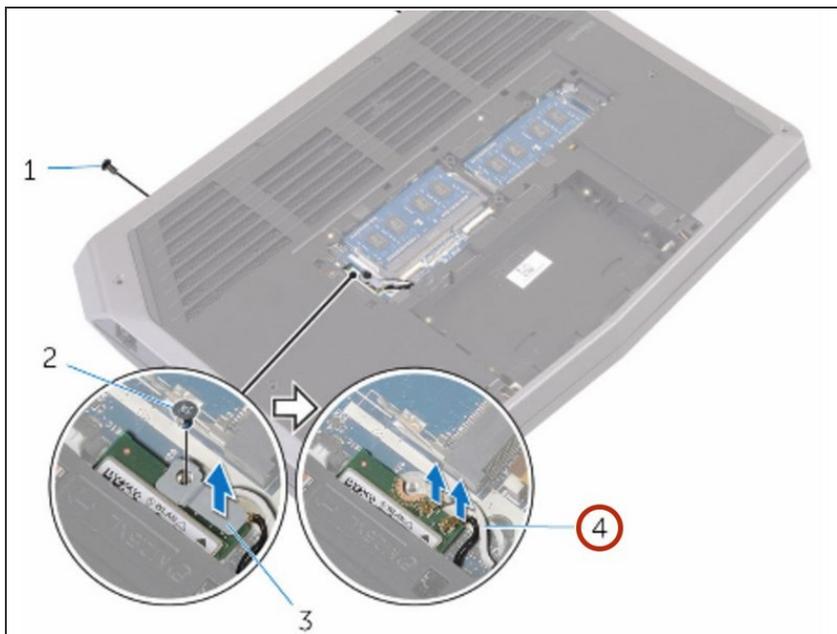
- Close the display and turn the computer over.

## Step 42 — Remove the Screw



- Remove the screw that secures the wireless-card bracket to the wireless card.

## Step 43 — Disconnect the Antenna Cables



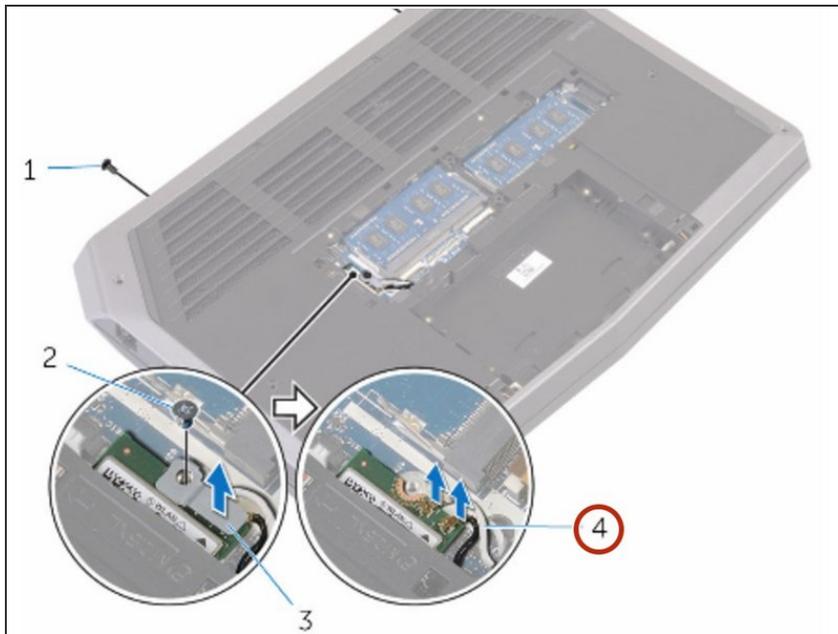
- Disconnect the antenna cables from the wireless card.

## Step 44 — Turn the Computer Over



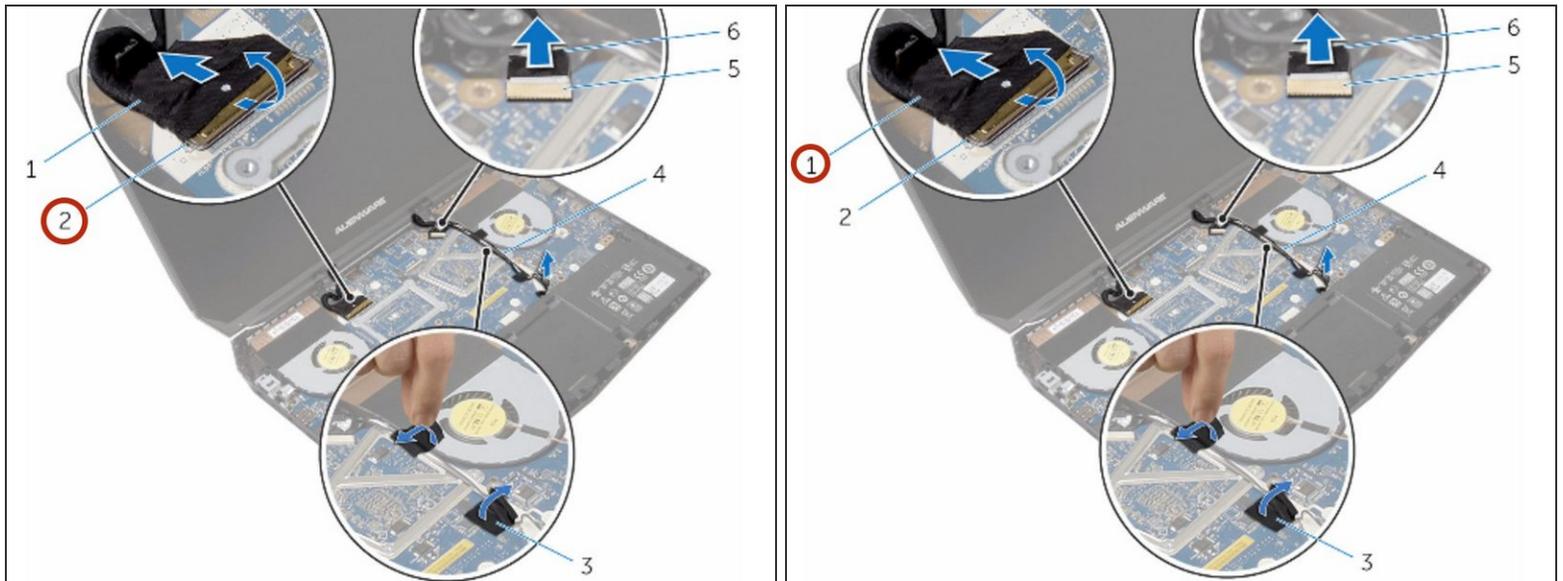
- Turn the computer over and open the display.

## Step 45 — Remove the Antenna Cables



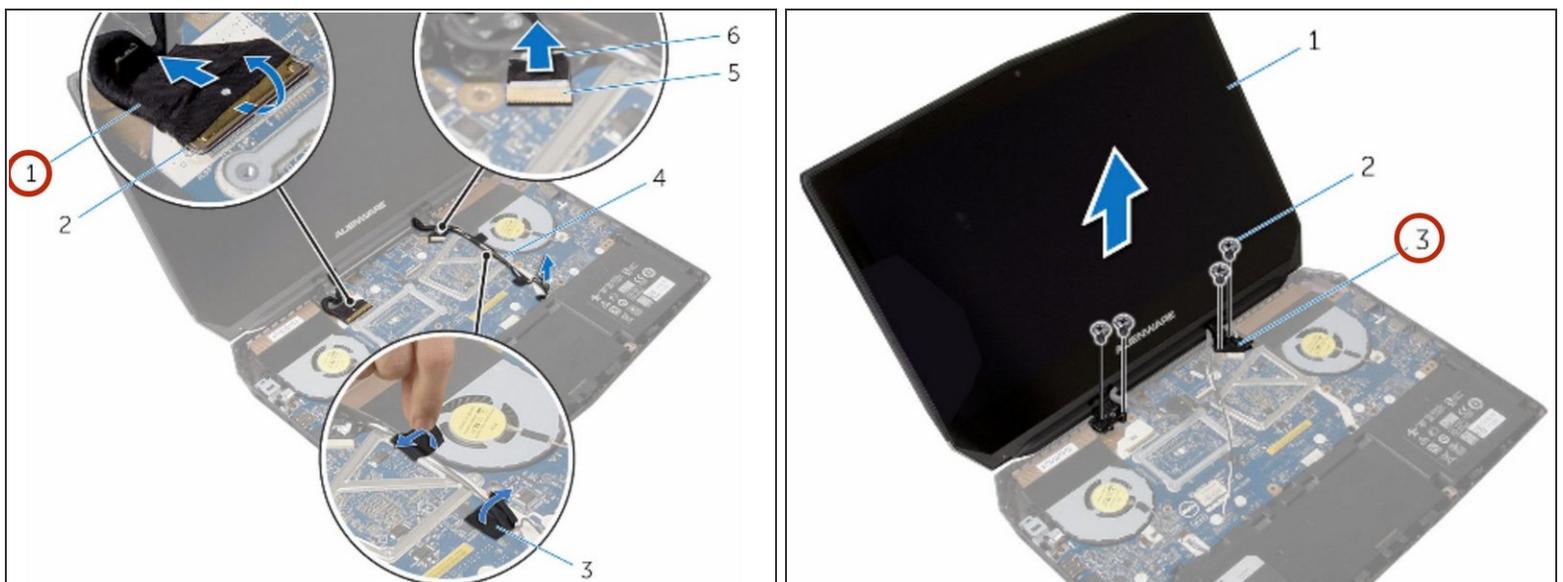
- Remove the antenna cables from the routing guides on the display hinges.

## Step 46 — Disconnect the Display Cable



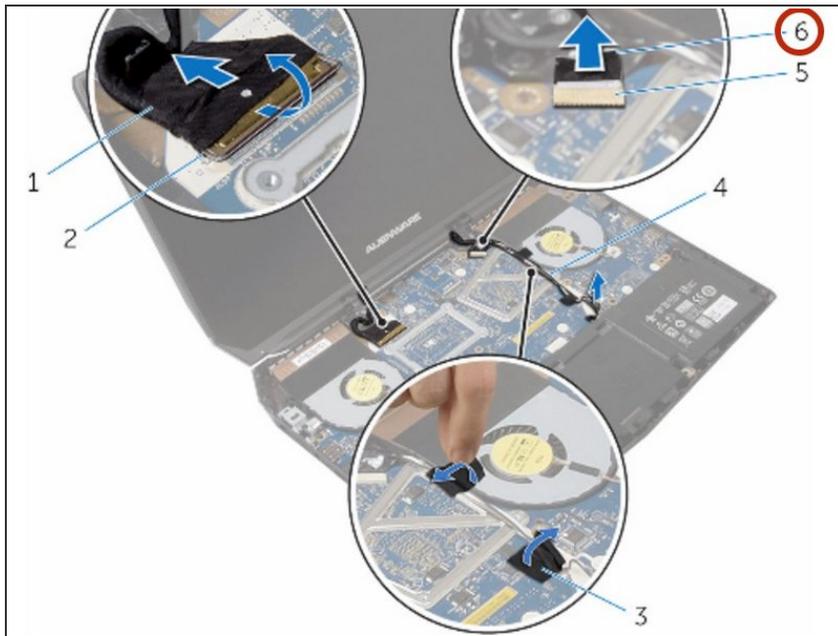
- Lift the connector latch and disconnect the display cable from the system board.

## Step 47 — Remove the Display Cable



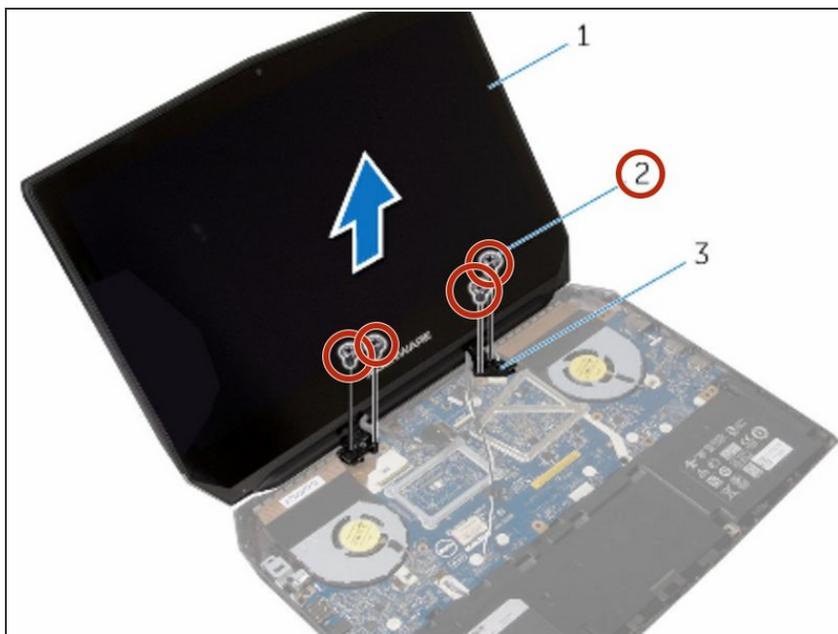
- Remove the display cable from the routing guides on the display hinges.

## Step 48 — Disconnect the Logo-Board Cable



- Disconnect the logo-board cable from the system board and remove it from the routing guides on the display hinges.

## Step 49 — Remove the Screws



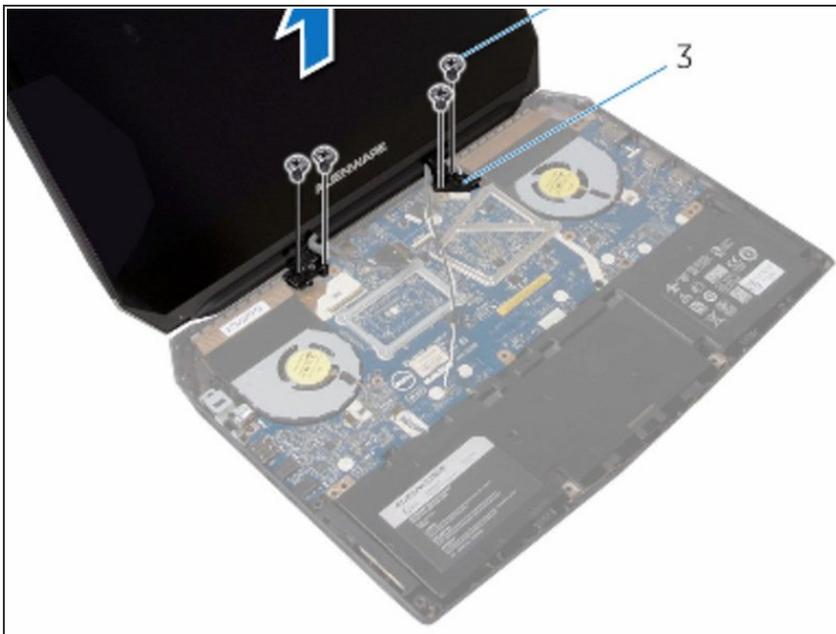
- Remove the screws that secure the display assembly to the computer base.

## Step 50 — Lifting the Display Assembly



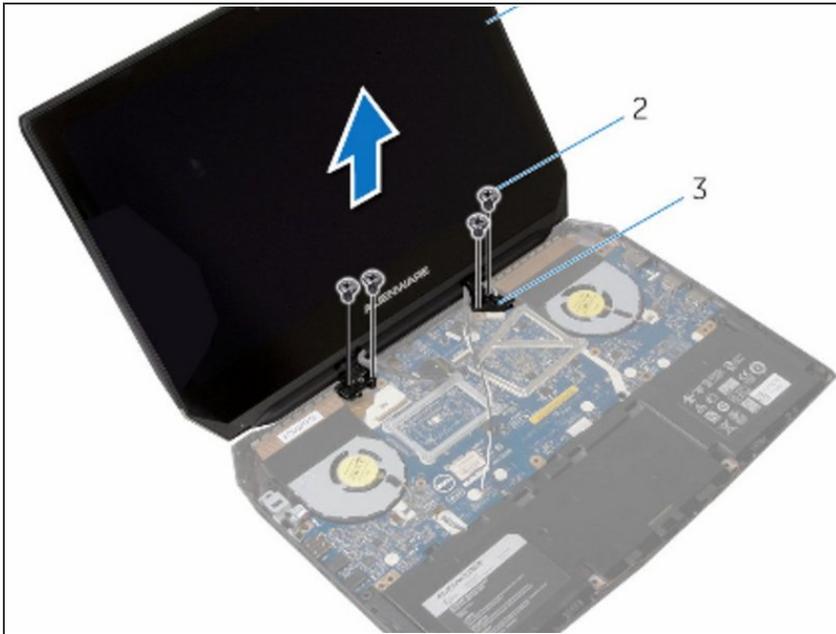
- Lift the display assembly off the computer base.

## Step 51 — Align the Screw Holes



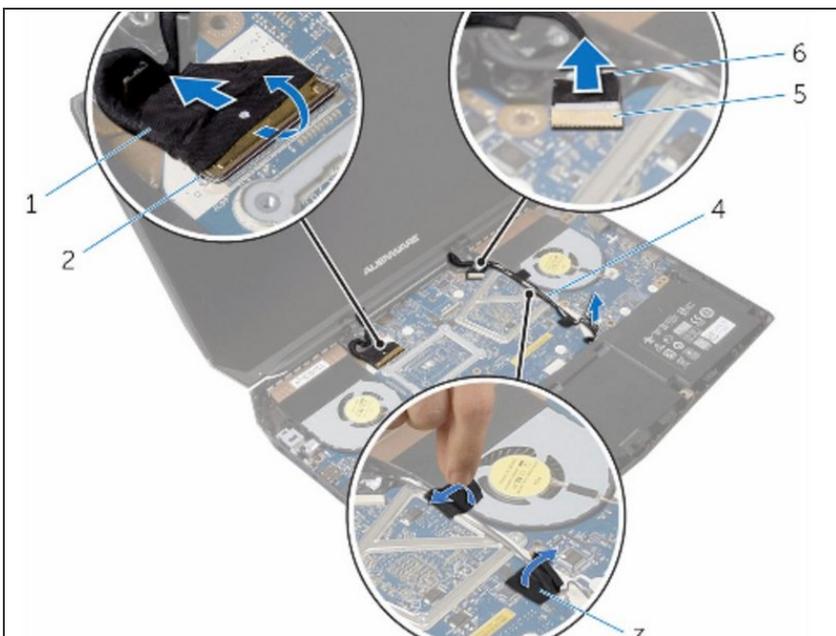
- Align the screw holes on the display hinges with the screw holes on the computer base.

## Step 52 — Replace the Screws



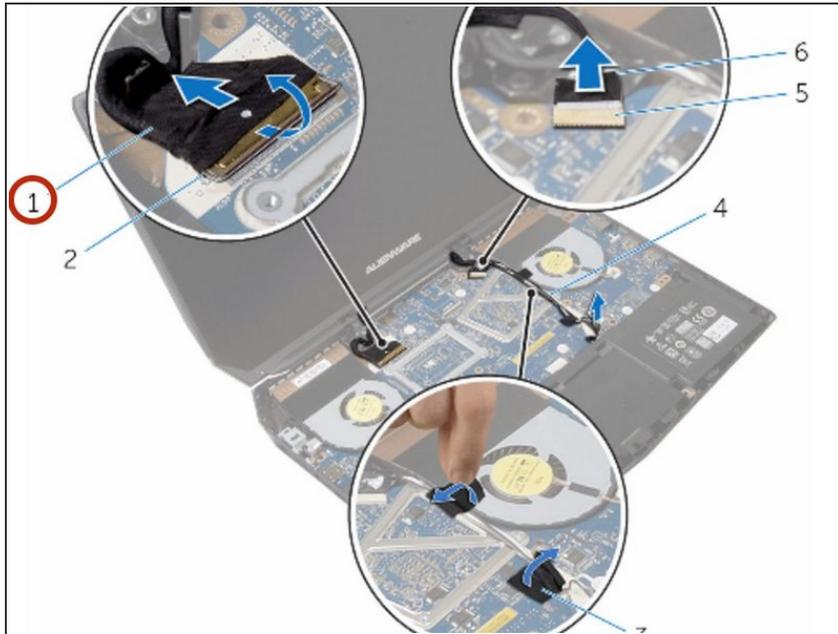
- Replace the screws that secure the display hinges to the computer base.

## Step 53 — Routing the Logo-Board Cable



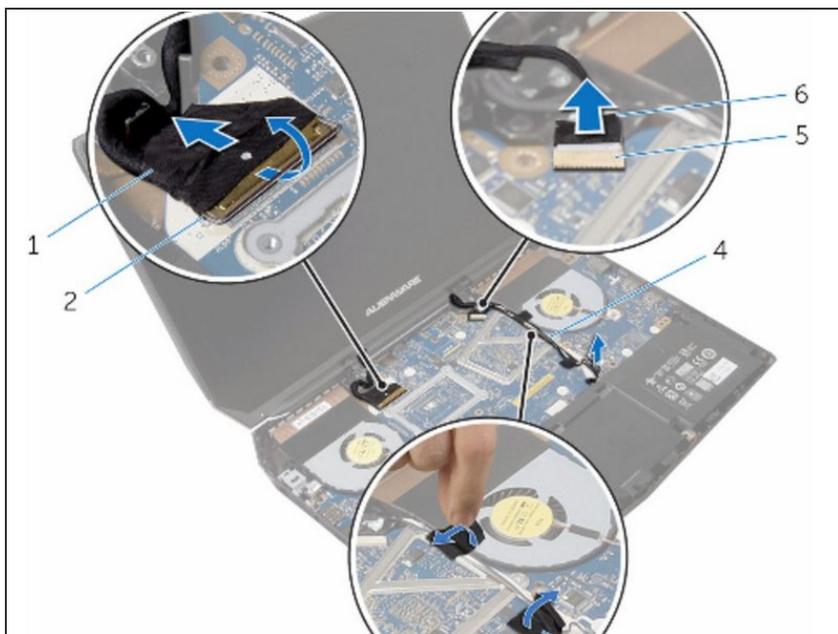
- Route the logo-board cable through the routing guides on the display hinge and connect the logo-board cable to the system board.

## Step 54 — Route the Cable



- Route the display cable through the routing guides on the display hinge.

## Step 55 — Slide the Display Cable



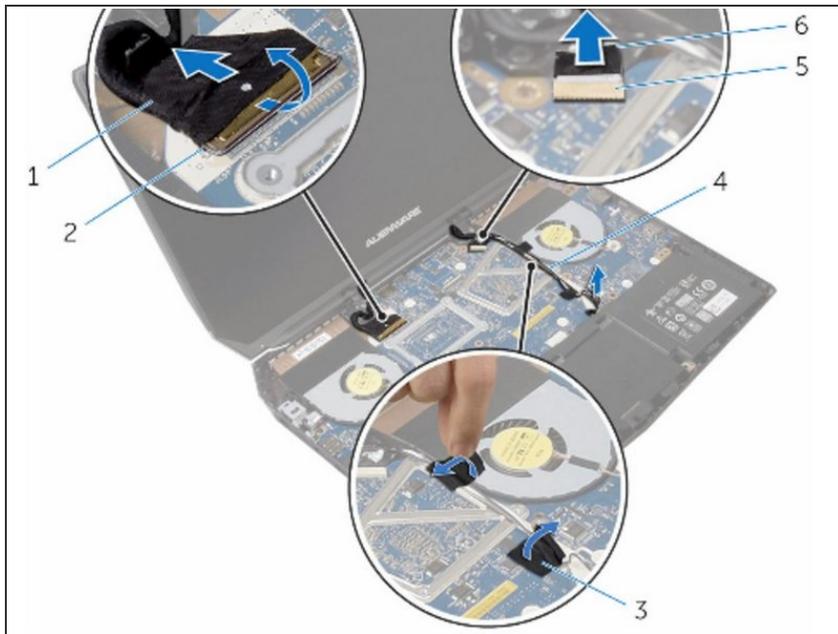
- Slide the display cable into the connector on the system board and press down the latch to secure the cable.

## Step 56 — Route the Antenna Cables



- Route the antenna cables through the routing guides on the display hinges.

## Step 57 — Adhere the Adhesive Tapes



- Adhere the adhesive tapes that secure the antenna cables to the system board.

## Step 58 — Close the Display



- Close the display and turn the computer over.

## Step 59 — Connect the Antenna Cables



- Connect the antenna cables to the wireless card.

## Step 60 — Replace the Screw



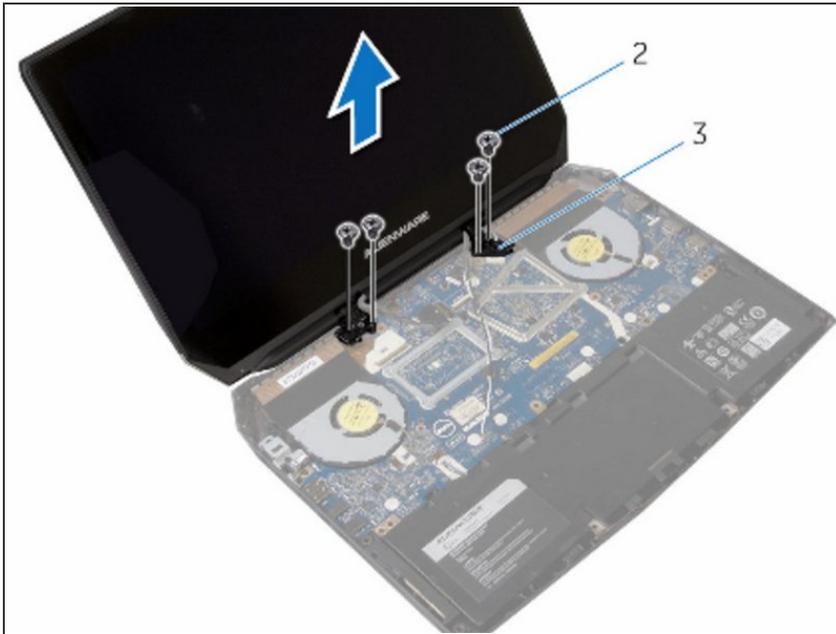
- Replace the screw that secures the wireless-card bracket to the wireless card.

## Step 61 — Open the Display



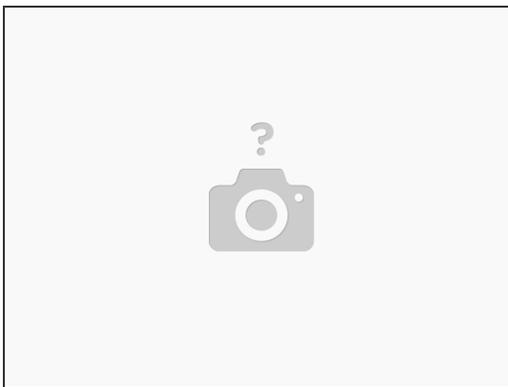
- Turn the computer over and open the display.

## Step 62 — Align the Screw Holes



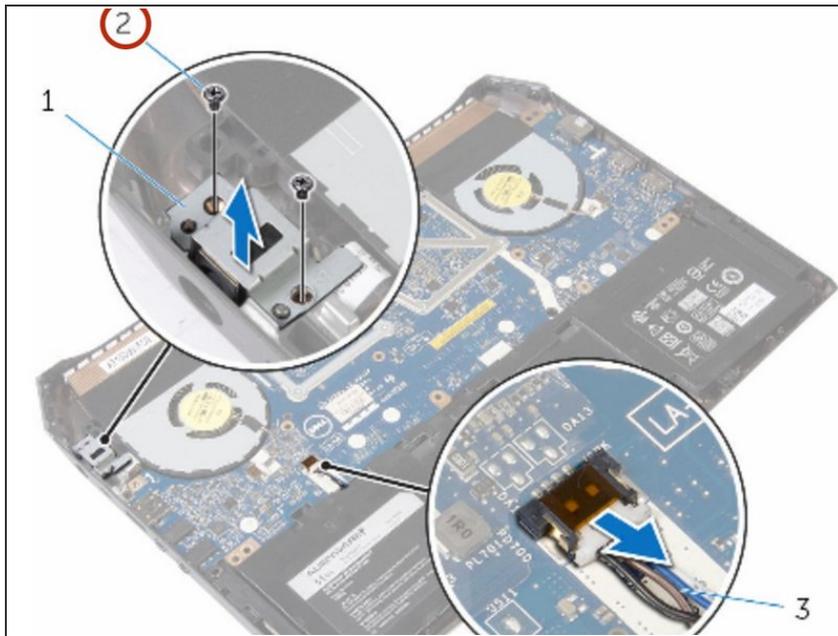
- Align the screw holes on the hinge caps with the screw holes on the display hinges.

## Step 63 — Replace the Screws



- Replace the screws that secure the hinge caps to the display hinges.

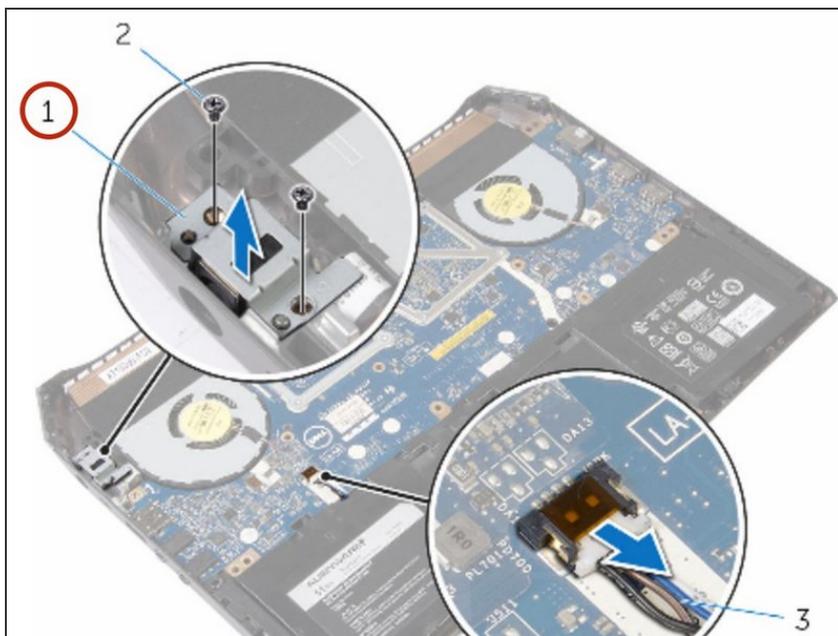
## Step 64 — Remove the Screw



**⚠ WARNING:** Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before Working Inside Your Computer](#). After working inside your computer, follow the instructions in [After Working Inside Your Computer](#).

- Remove the screw that secures the power-adapter port bracket to the power-adapter port.

## Step 65 — Lifting the Power-Adapter



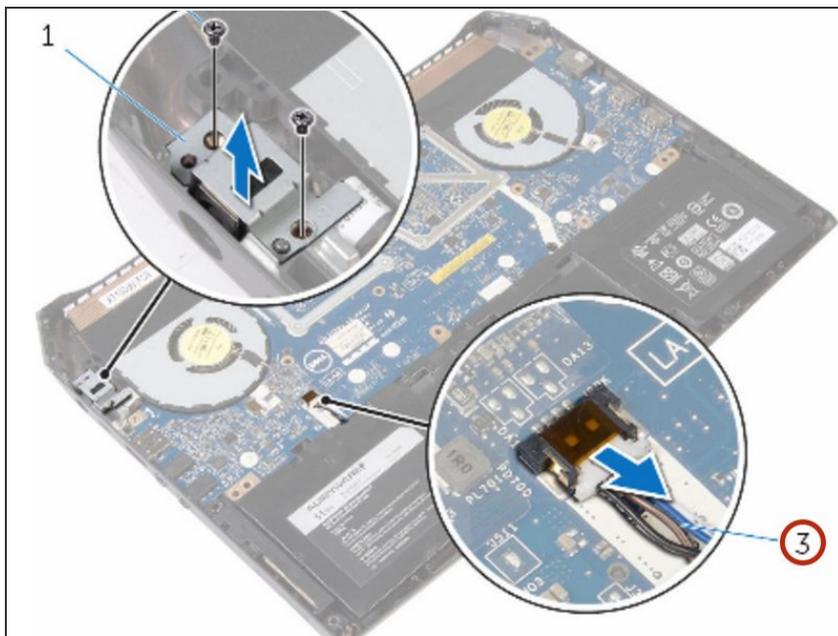
- Lift the power-adapter port bracket off the power-adapter port.

## Step 66 — Release the Power-Adapter Port



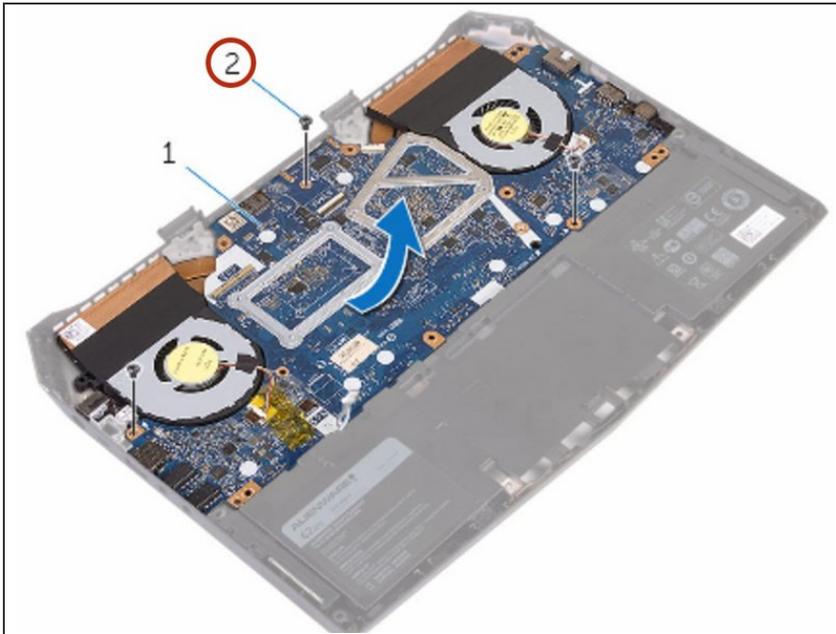
- Release the power-adapter port from the computer base.

## Step 67 — Disconnecting the Speaker Cable



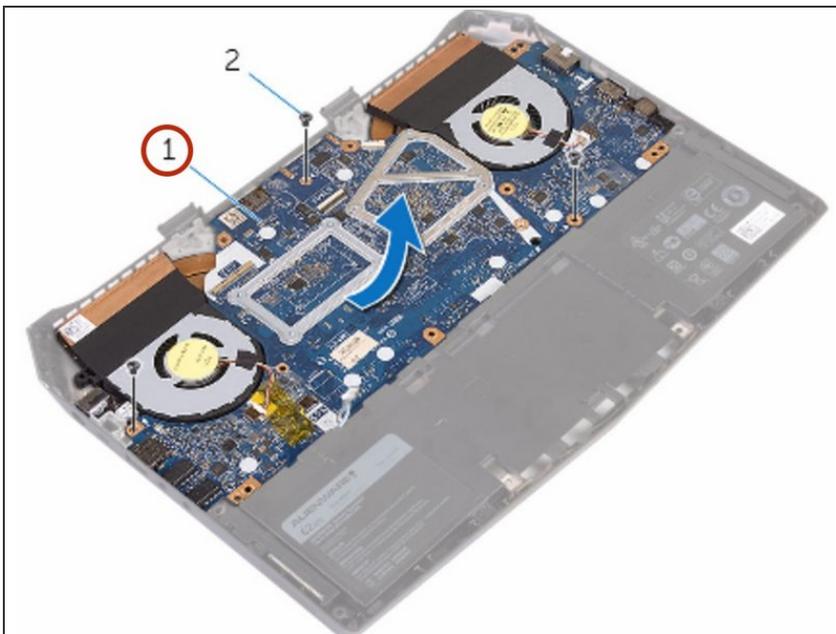
- Disconnect the speaker cable from the system board.

## Step 68 — Remove the Screws



- Remove the screws that secure the system board to the computer base.

## Step 69 — Lifting the System Board Assembly



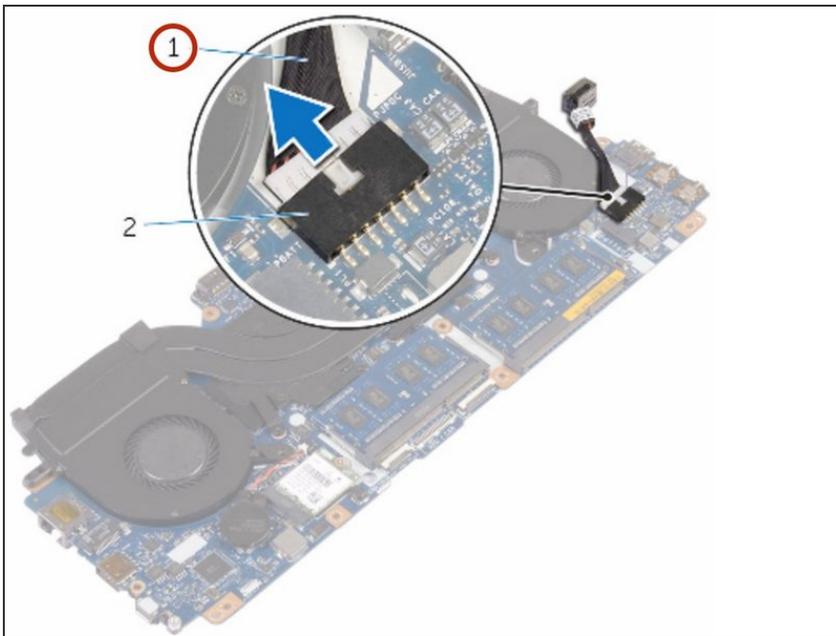
- Slide and lift the system-board assembly.

## Step 70 — Turning Over the System-Board Assembly



- Turn the system-board assembly over.

## Step 71 — Disconnecting the Power-Adapter Port



- Disconnect the power-adaptor port cable and remove the power-adaptor port from the system board.

## Step 72 — Connecting the Power-Adapter Port Cable



- Connect the power-adapter port cable to the system board.

## Step 73 — Turn the System Board Over



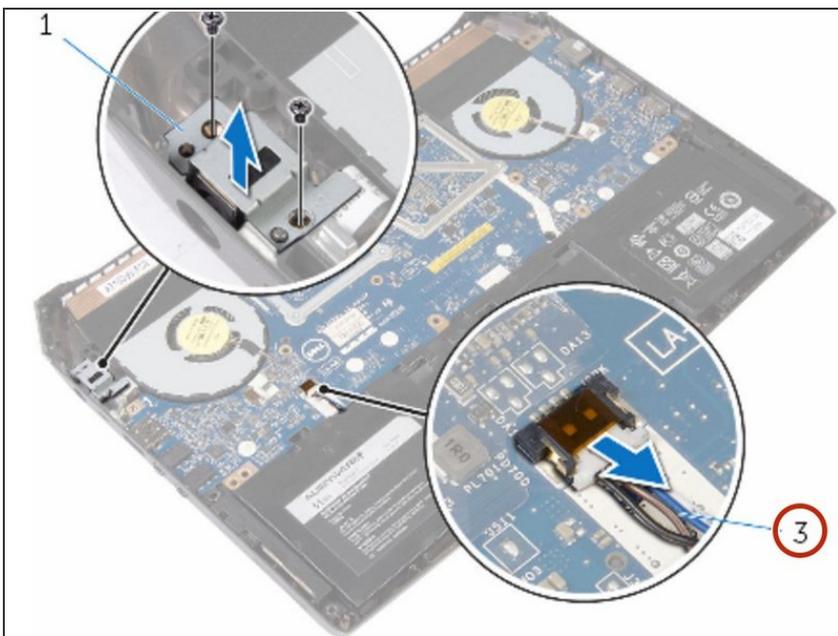
- Turn the system board over.

## Step 74 — Replace the Screws



- Replace the screws that secure the system board to the computer base.

## Step 75 — Connecting the Speaker Cable



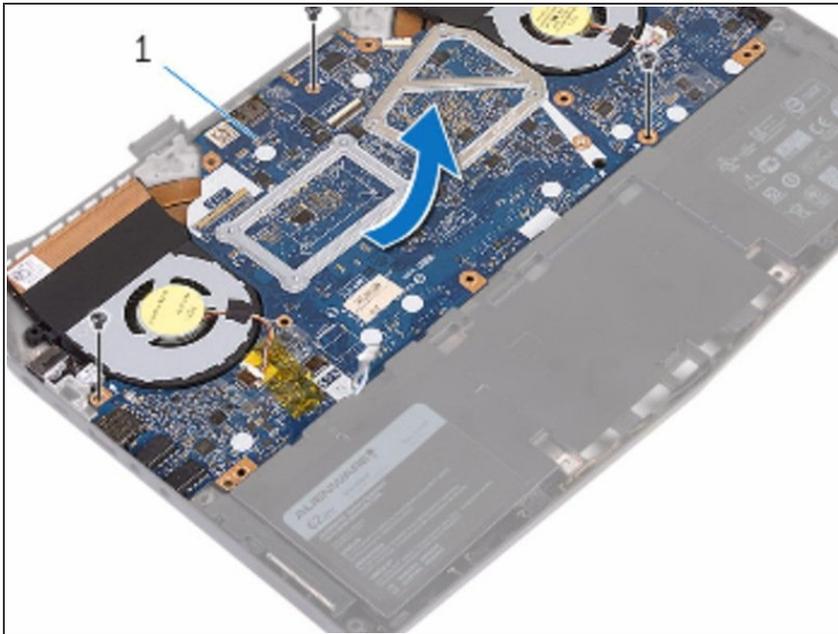
- Connect the speaker cable to the connector on the system board.

## Step 76 — Align the Power-Adapter



- Align the power-adapter port to the computer base.

## Step 77 — Align the Screw Hole



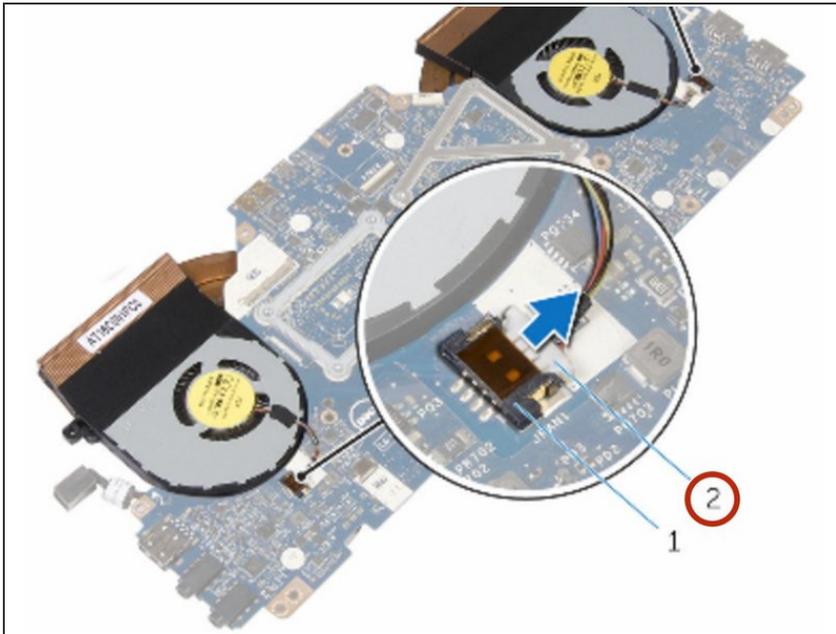
- Align the screw hole on the power-adapter port bracket with the screw hole on the power-adapter port.

## Step 78 — Replace the Screw



- Replace the screw that secures the power-adaptor port bracket to the power-adaptor port.

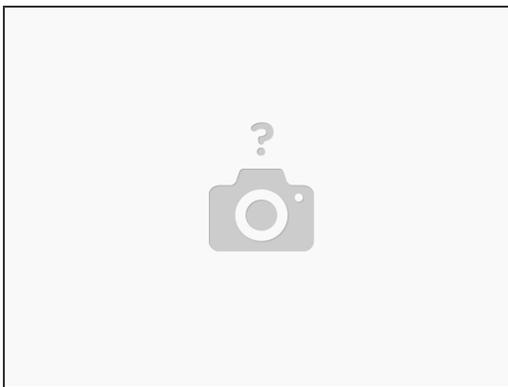
## Step 79 — Disconnect the Fan Cables



**⚠ WARNING:** Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before Working Inside Your Computer](#). After working inside your computer, follow the instructions in [After Working Inside Your Computer](#).

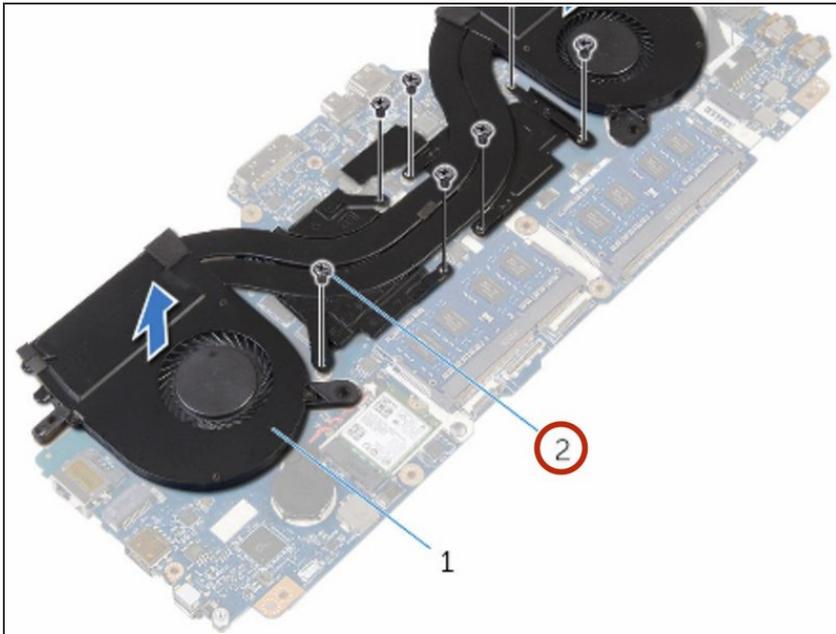
- Disconnect the fan cables from the connectors on the system board.

## Step 80 — Turn the System Board Over



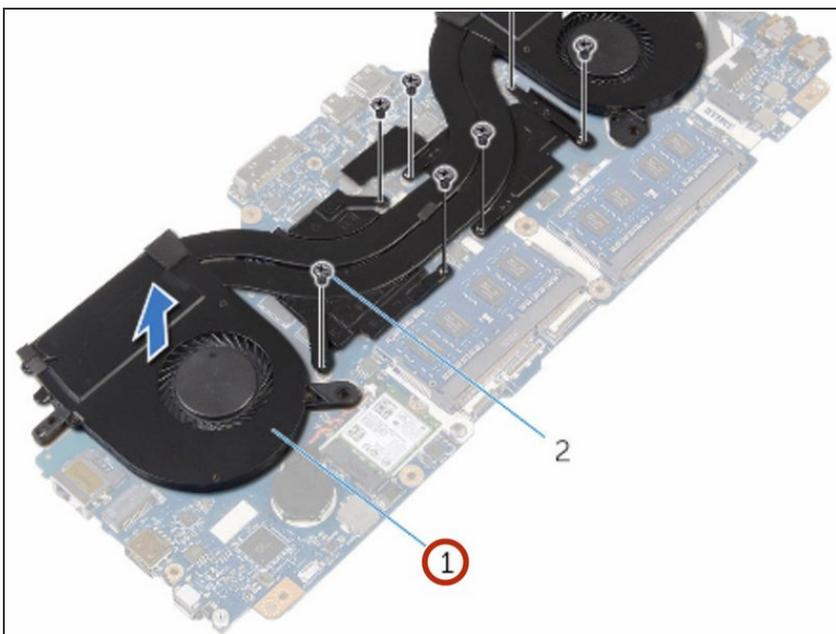
- Turn the system board over.

## Step 81 — Remove the Screws



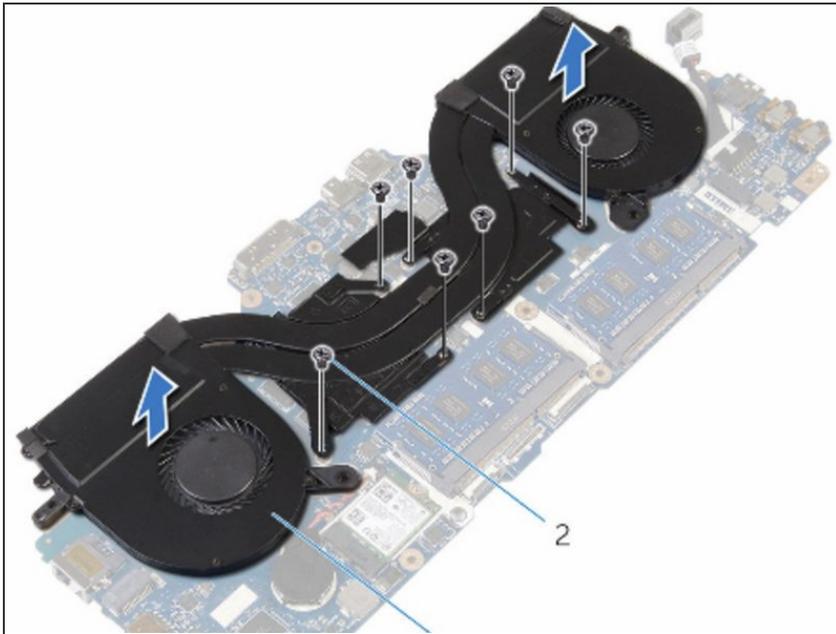
- Remove the screws that secure the heat-sink assembly to the system board.

## Step 82 — Lifting the Heat-Sink Assembly



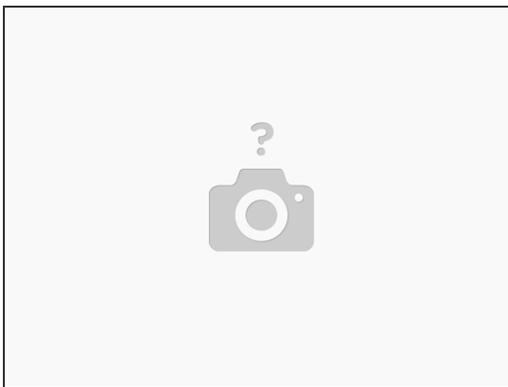
- Lift the heat-sink assembly off the system board.

## Step 83 — Align the Screw Holes



- Align the screw holes on the **NEW** heat-sink assembly with the screw holes on the system board.

## Step 84 — Replace the Screws



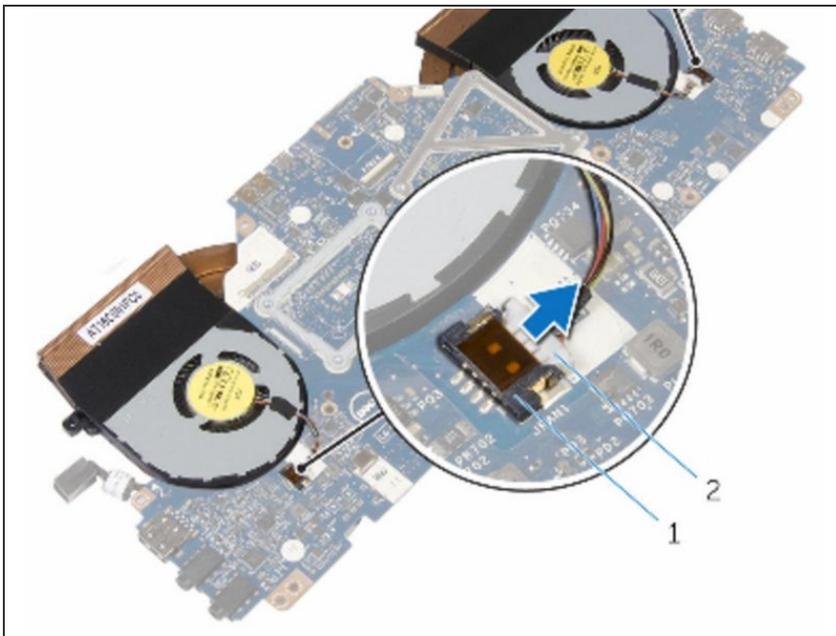
- Replace the screws that secure the heat-sink assembly to the system board.

## Step 85 — Turn the System Board Over



- Turn the system board over.

## Step 86 — Connect the fan Cables



- Connect the fan cables to the connectors on the system board.

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