



Disassembling Acer Aspire 7551G

How to open/ repair and upgrade the Acer Aspire 7551g

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INTRODUCTION

Maintenance is an extremely important aspect of using a laptop. This guide will demonstrate how to disassemble the Acer Aspire 7551G for the purposes of cleaning, upgrading, or part replacement.

Before the start of the disassembly process, make sure to disconnect the laptop from its power supply and place the device on a flat work surface with plenty of space around it to avoid mishandling the delicate components.

TOOLS:

- [2.5 mm Flathead Screwdriver](#) (1)
 - [Metal Spudger Set](#) (1)
 - [iSesamo Opening Tool](#) (1)
 - [Phillips #000 Screwdriver](#) (1)
 - [IC Extractor/Connector Puller](#) (1)
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Step 1 — Disassembling Acer Aspire 7551G



- Remove the battery by sliding the locking latch to the right and pull the battery out.

Step 2

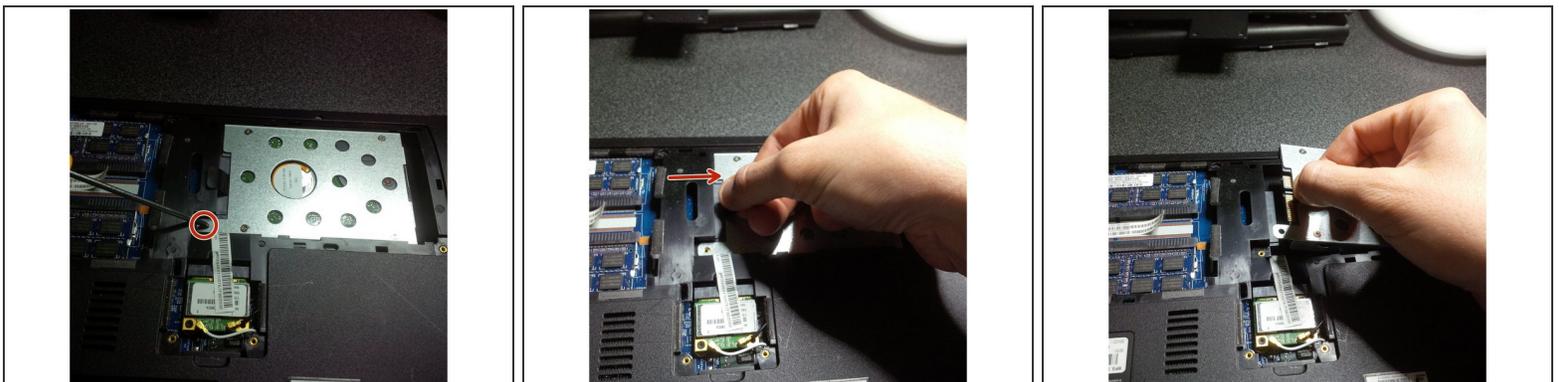


- Use Phillips #000 Screwdriver to remove the case holding screws, remove the 4 screws that hold the back panel.

⚠ Apply gentle pressure when undoing the screws to preserve the condition of screw heads for future repairs or servicing.

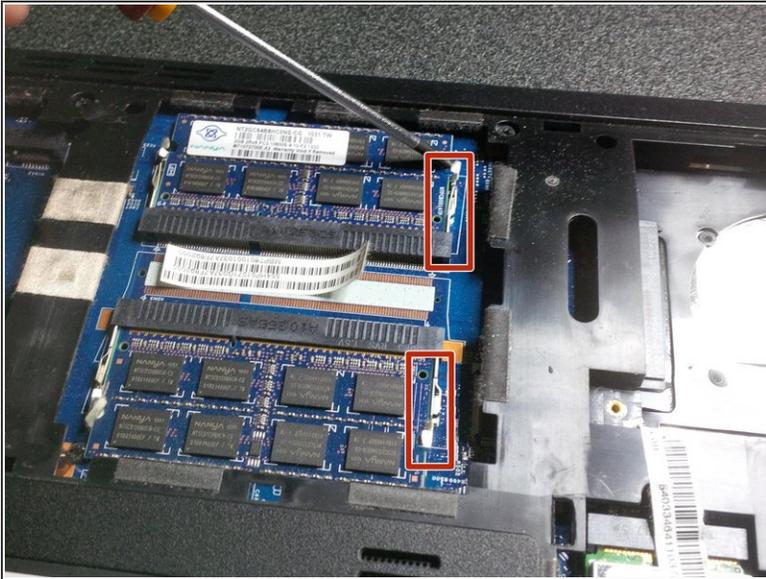
i It is important to manage all the extracted screws in a manner that will allow you to quickly place them where they belong during the reassembly process. You can take pictures of each step to memorize the screw placement, or purchase a magnetic pad and section the screws on it.

Step 3 — removing hard drive



- To remove the hard drive, undo the screw that holds it in place and carefully pull the HDD to the right.

Step 4



- To remove the RAM modules just click the metal levers to the right.
- Remove two black screws from the WiFi card.
- ⓘ While removing the antenna wires, make sure to memorize or take a picture of their color and position.

Step 5 — removing dvd bay.



- Using the Phillips #000 Screwdriver remove the screw that hold the DVD bay in place.
- Use a spudger to pry the DVD bay away from the case.

Step 6 — removing case screws



- Use Phillips #000 Screwdriver to remove the case holding screws.
- ⚠ Remember to only apply gentle pressure when undoing the screws to preserve the condition of screw heads for future repairs or servicing.

Step 7 — remove screws part 2



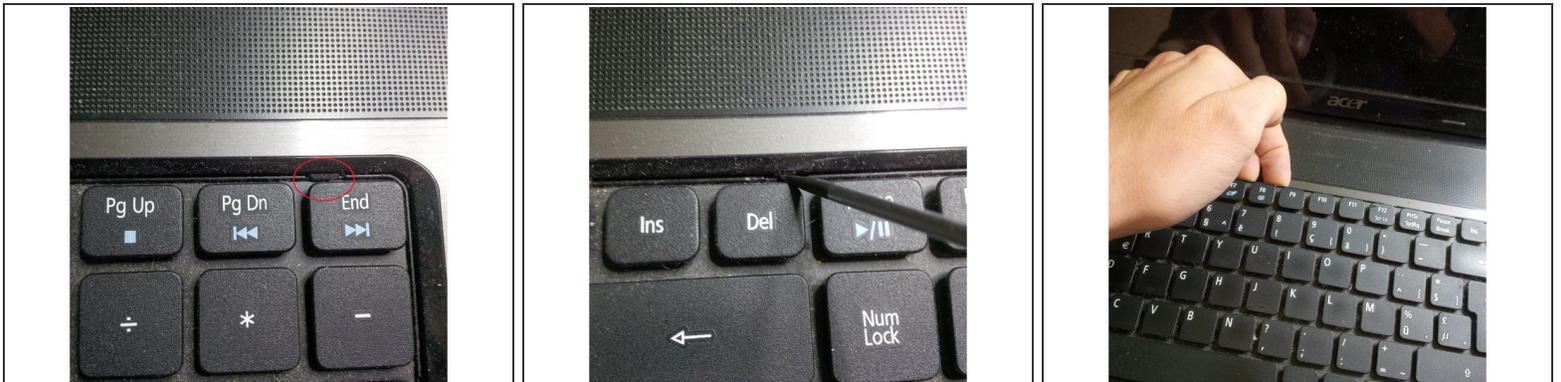
- Use Phillips #000 Screwdriver to remove the case holding screws.
- ⚠ Remember to only apply gentle pressure when undoing the screws to preserve the condition of screw heads for future repairs or servicing.

Step 8 — removing the screws part 3



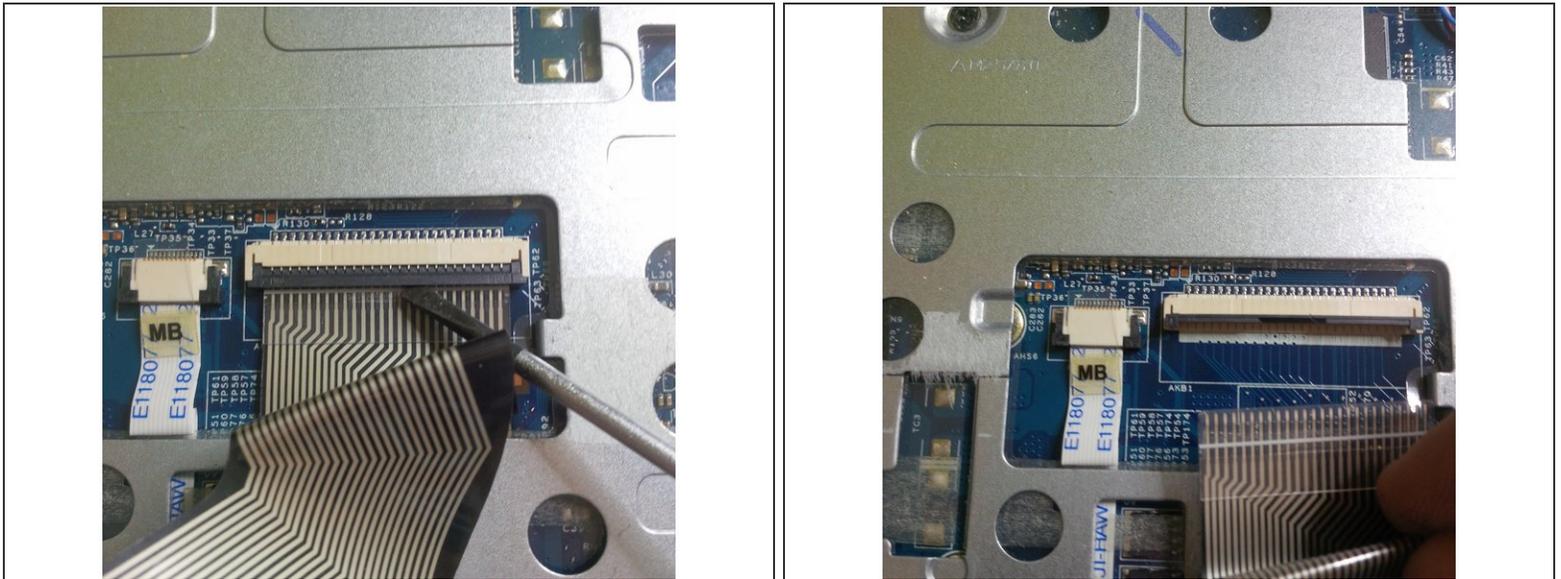
- Use Phillips #000 Screwdriver to remove the case holding screws.
- ⚠ Remember to only apply gentle pressure when undoing the screws to preserve the condition of screw heads for future repairs or servicing.

Step 9 — remove the keyboard



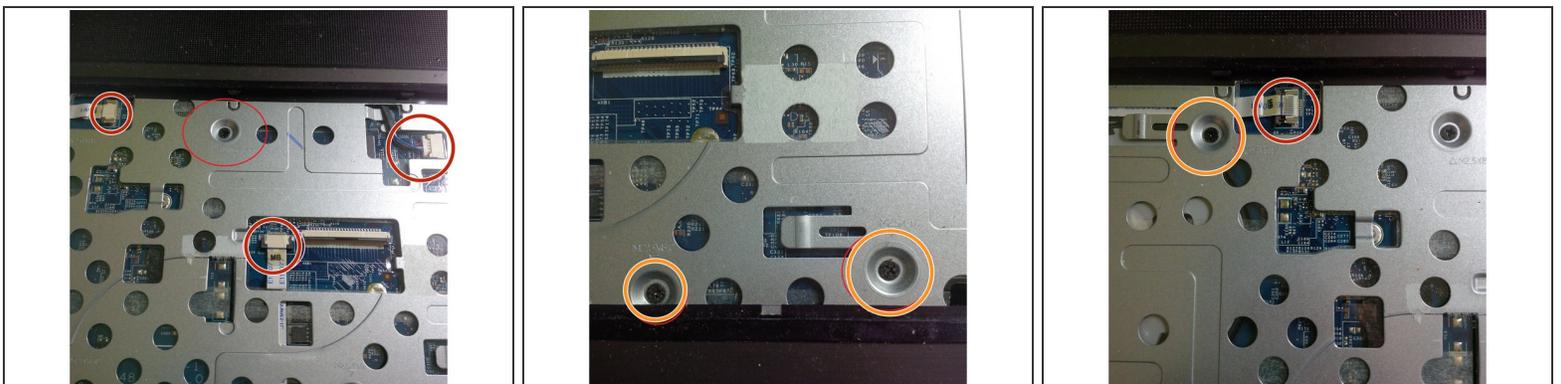
- To remove the keyboard, pop the three latches away from the keyboard with a spudger.
- Gently pull the keyboard from the laptop, but be careful not to damage a flex cable that connect it to the motherboard.

Step 10 — remove keyboard flex cable



- Move the flex cable away from the keyboard.
- Place a Flathead screwdriver under the head of the cable and pry it upwards.

Step 11 — remove screws and cables of mid frame



- Use the IC Extractor/Connector Puller to remove the cables.
 - ⚠ These connectors are extremely fragile, only use minimal force and extreme care.
- Use the Phillips #000 Screwdriver to remove the frame screws.
 - ⚠ Apply gentle pressure when undoing the screws to preserve the condition of screw heads for future repairs or servicing.

Step 12 — removing the screen



- Remove all black plastic stickers to reveal the hidden screws.
- Use Phillips #000 Screwdriver to remove the hidden screws.
- ⚠ Carefully slide your prybar under the edge and gently pry around the perimeter.
- Remove the cable from the webcam module
- Remove the screws that hold the screen to the inner frame.
- ⚠ Apply gentle pressure when undoing the screws to preserve the condition of screw heads for future repairs or servicing.

Step 13 — removing the screen part 2



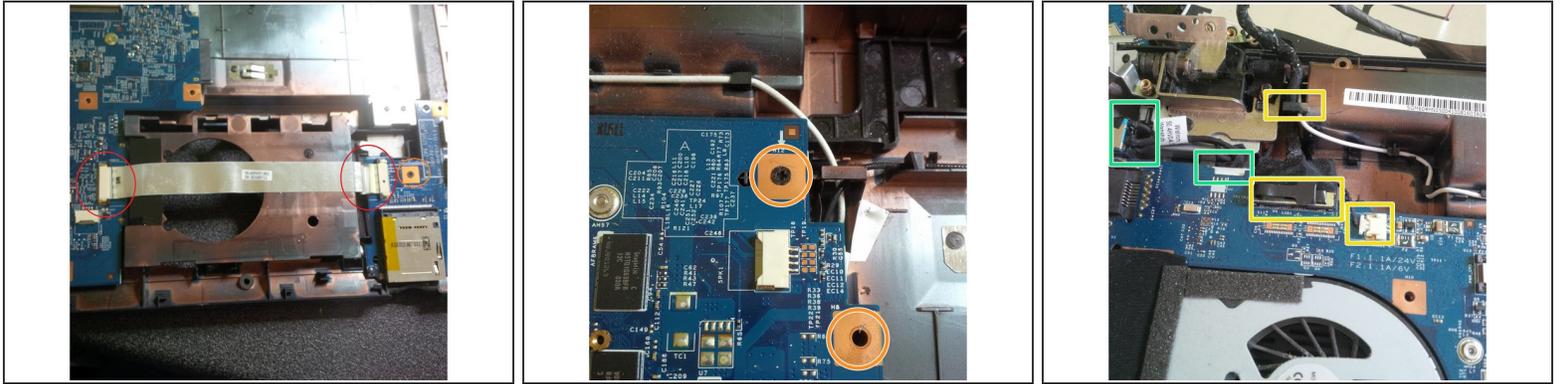
- Gently unplug the LCD cable.

Step 14 — opening the case



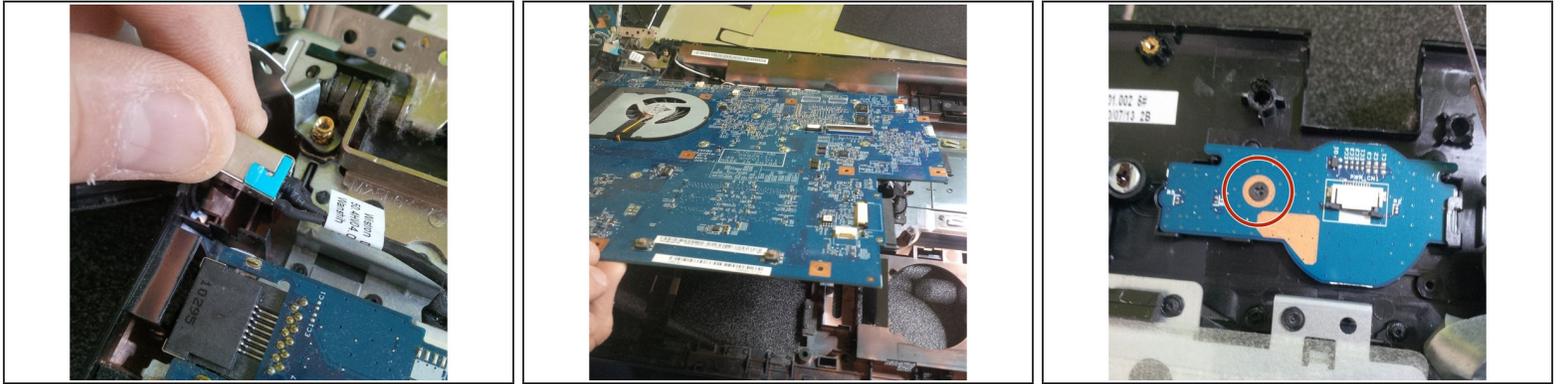
- Use the iSesamo Opening Tool to pry under the outer edge of the laptop body.
- After hearing the first click, move the tool around the perimeter until all of the clips are undone.
- ⚠ While some force will be required in this step, make sure not to over-apply pressure since extra force might break the plastic clips.
- After the clips are undone, remove the back cover.

Step 15 — removing mainboard



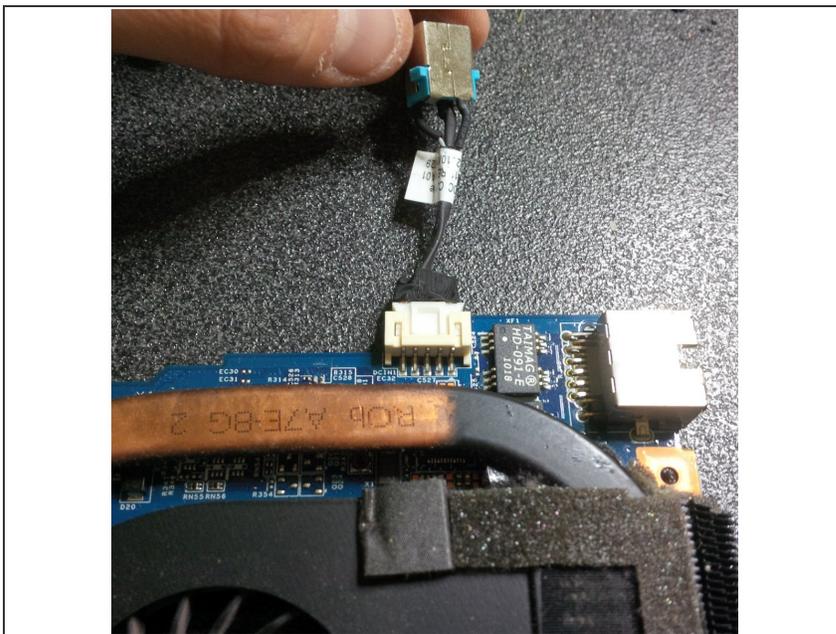
- Carefully remove the ribbon cable connecting the two halves of the motherboard.
- Use Phillips #000 Screwdriver to remove the motherboard screws.
 - ⚠ Apply gentle pressure when undoing the screws to preserve the condition of screw heads for future repairs or servicing.
- Use a plastic prybar to remove the LCD connector. Be careful not to break the cable or its plastic holder.
- Unplug the DC jack cable before removing the motherboard.

Step 16 — remove mainboard part 2



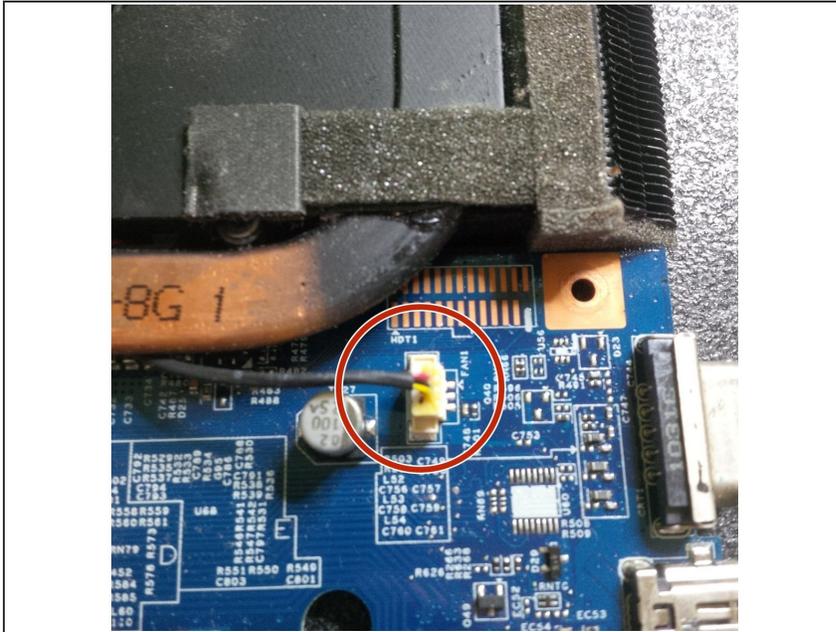
- Remove the disconnected DC jack from its holder.
 - Carefully lift the motherboard out of the case.
 - Use Phillips #000 Screwdriver to remove the screw that is holding the power PCB.
- ⚠ Apply gentle pressure when undoing the screws to preserve the condition of screw heads for future repairs or servicing.

Step 17 — removing the DC jack.



- If the replacement of the DC jack is necessary, use the IC Extractor/Connector Puller to safely unplug the connection.

Step 18 — remove cooling pads and fan



- Use the IC Extractor/Connector Puller to safely unplug the fan power connector.

Step 19 — removing cooling pads and fan part 2



- Use the Phillips #000 Screwdriver to remove the cooling pad screws.
 - ⚠ Apply gentle pressure when undoing the screws to preserve the condition of screw heads for future repairs or servicing.
 - ⚠ Make sure that the screw pressure across the metal plate remain rather constant. Undo the screws by a couple of rotations each, removing them AT the same time.
- Lift the cooling pads and the fan assembly.
- Remove the old thermal compound, degrease the surface with rubbing alcohol.
- Use a can of compressed air to clean the fan assembly.

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