



Dell Inspiron 14z-5423 Fan Replacement

This guide will teach users how to remove and replace the fan on the Dell Inspiron 14z-1523.

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INTRODUCTION

The fan in this laptop prevents the computer from overheating. It provides good airflow into the computer and out through the vents. Any clogging or damage could cause other problems in your computer.

TOOLS:

- [JIS Driver Set \(1\)](#)
- [Spudger \(1\)](#)
- [Tweezers \(1\)](#)
- [iFixit Opening Tools \(1\)](#)

Step 1 — RAM



- Close the display and turn over the computer.

 Make sure your device is powered down and unplugged before beginning the replacement.

Step 2



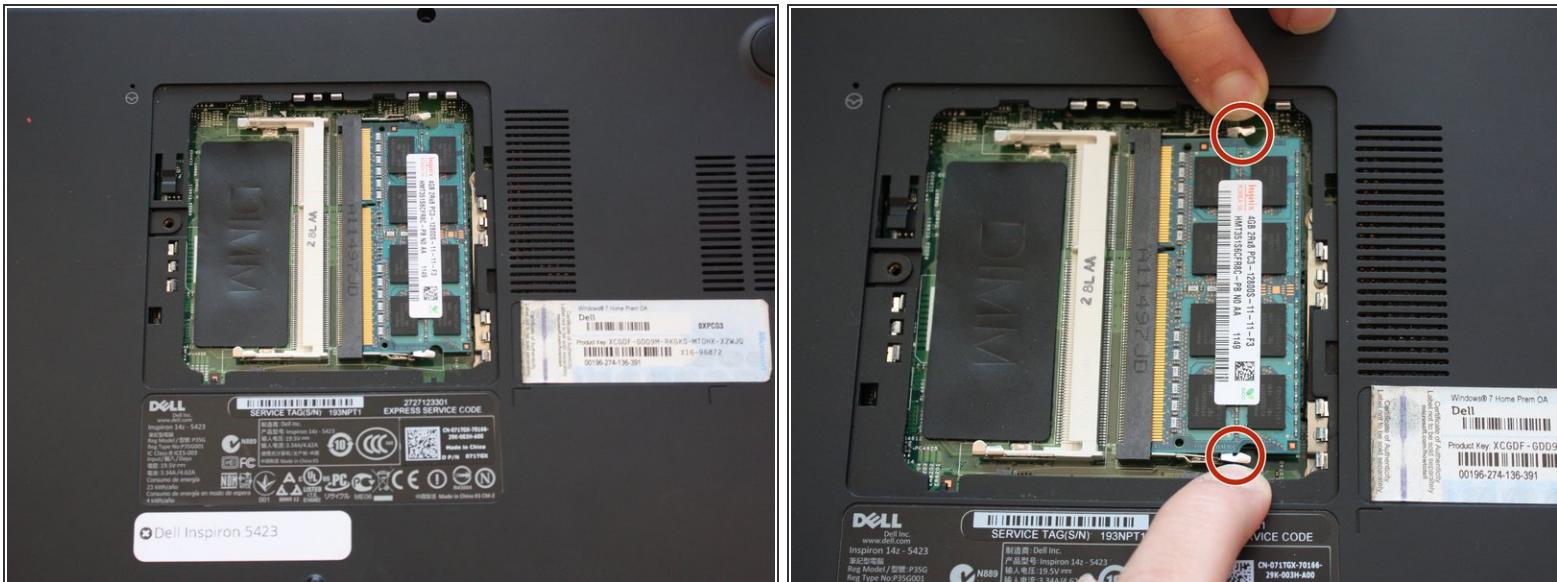
- Use a J0 bit tipped screwdriver to unscrew the one 6 mm Phillips screw on the RAM cover.

Step 3



- Lightly lift the RAM cover up and at an angle, away from the computer.

Step 4



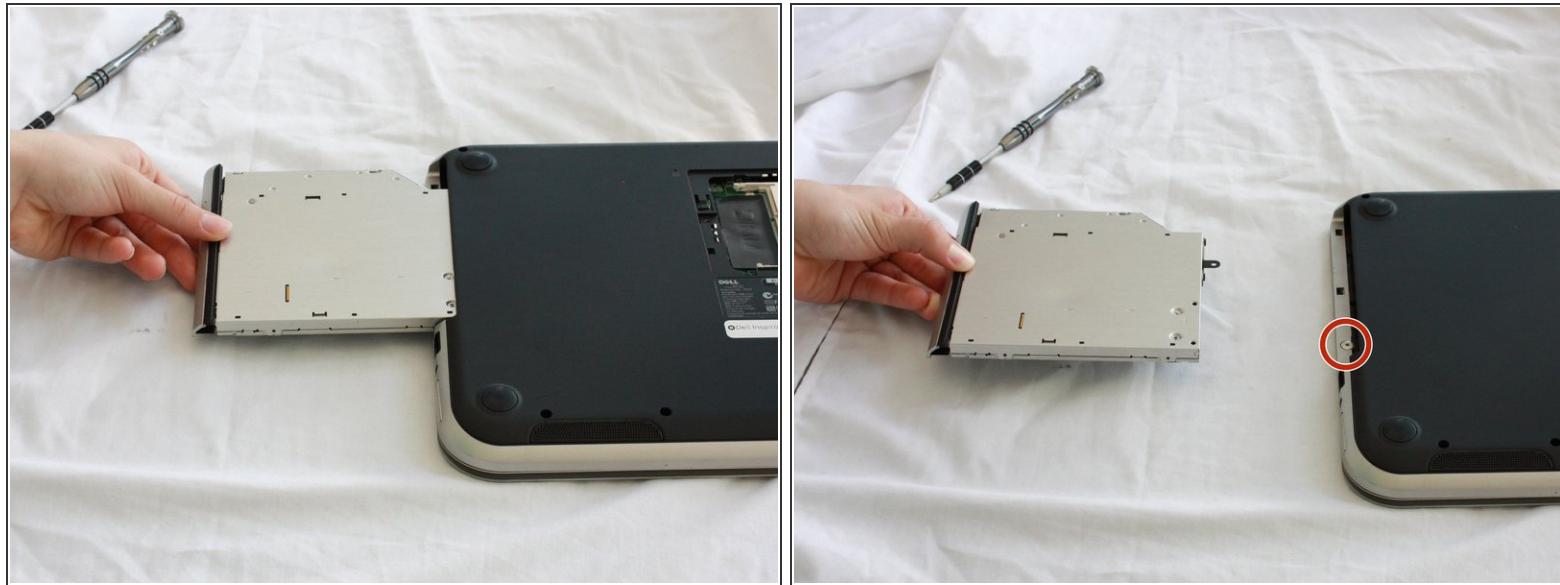
- Use your fingers to carefully pull the securing clips on the RAM away from each other.
- The RAM should pop up when the clips are released.

Step 5



- Remove the popped up RAM by pulling it away from the connection.
- ⓘ If it does not pop up pry it out in a steady and straight direction.

Step 6 — Optical Drive



- Slide the CD/DVD drive on the side of the laptop out using your fingers.
- Using a J0 bit screwdriver, unscrew the one 2 mm Phillips screw.
- You only need to unscrew this screw if you are using this as a prerequisite guide.

Step 7 — Keyboard



- Lift the plastic yellow flap on the system board.
- Use the J0 Bit screwdriver to remove the one 6 mm Phillips screw in center of the system board that is connected to the keyboard.

Step 8



- Flip over the computer and open the display.

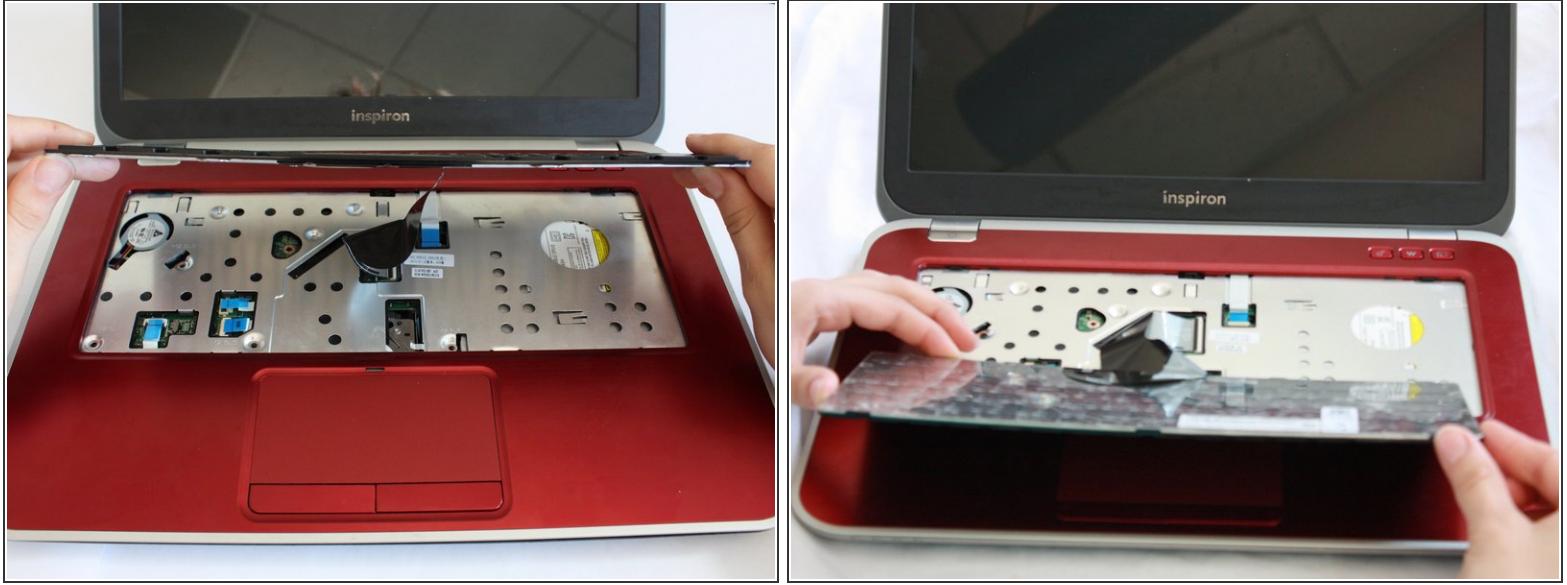
Step 9



- Insert a spudger next to the plastic indents located at the top of the keyboard and gently pry to release the securing clips.
- Lift the keyboard off of the computer.

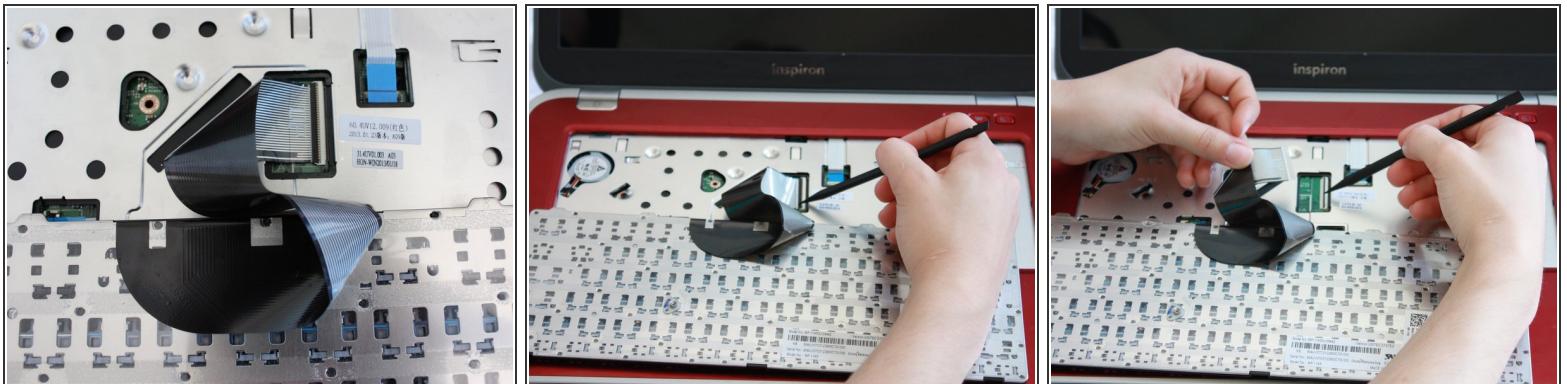
⚠ Be careful not to tear the ribbon that attaches the back of the keyboard to the computer when lifting it.

Step 10



- Flip the keyboard over onto the palm-rest assembly.

Step 11



- Flip the little black securing bar near the base of the ribbon with a spudger to release the ribbon from the computer.

Step 12 — Palm Rest Assembly



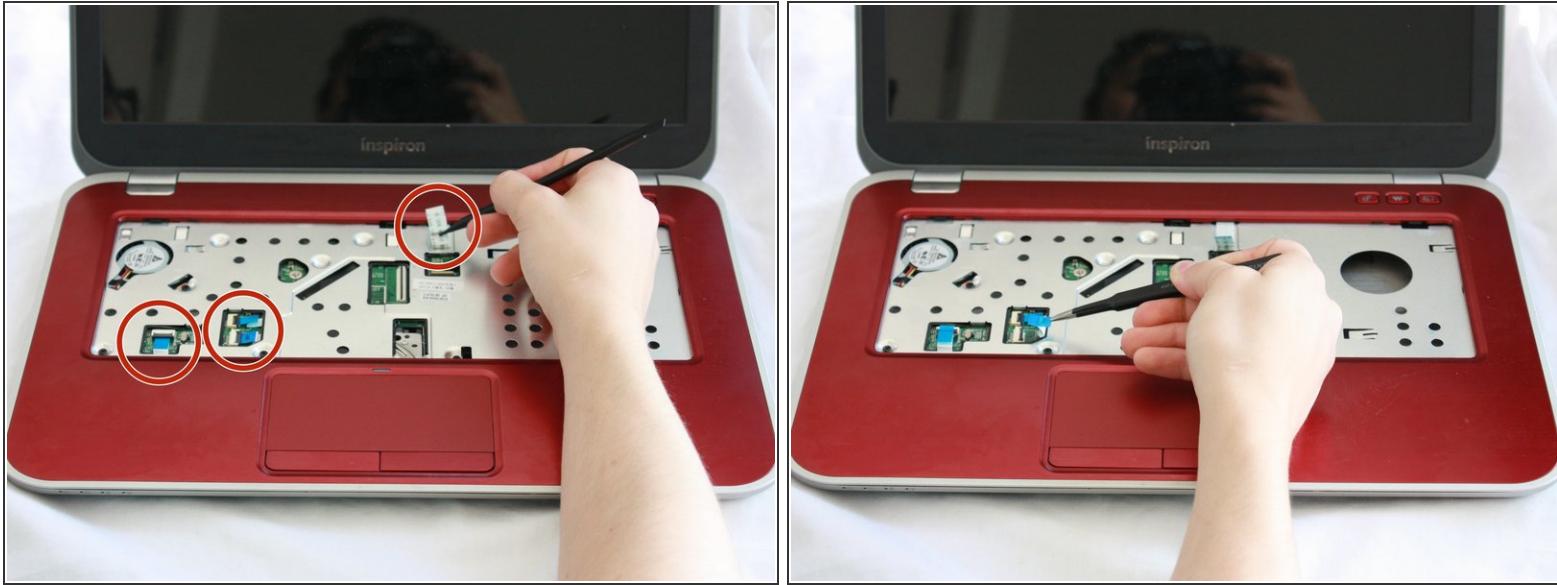
- Close the display and turn over the computer.

Step 13



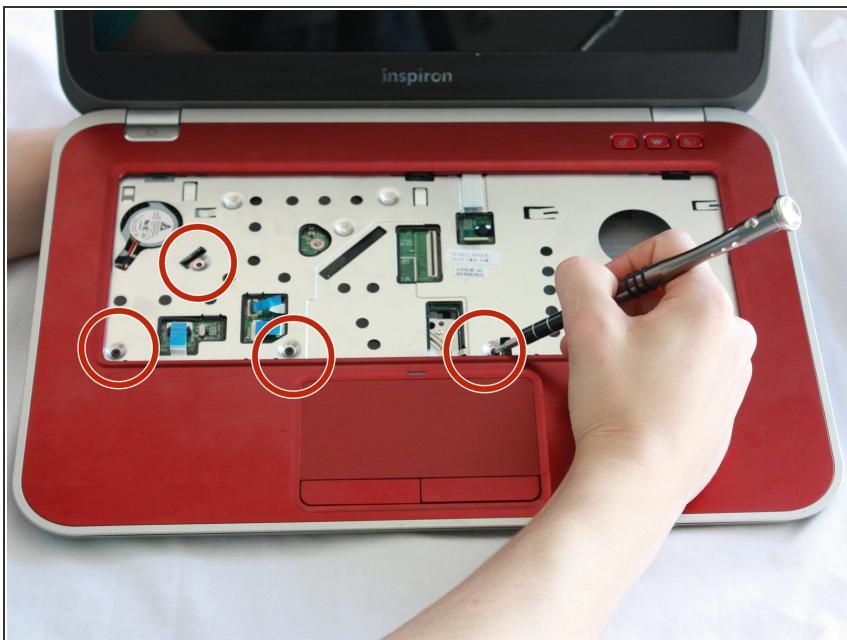
- Remove all 7 rubber screw caps with tweezers.
- Use a J0 Bit tipped screwdriver unscrew the seven 6 mm Phillips screws on the back casing of the laptop.

Step 14



- Flip the computer over and open the display.
- Pull on the blue tabs to disconnect the palm rest assembly from the computer.

Step 15



- Use J0 Bit screwdriver to remove all four 6 mm Phillips screws.

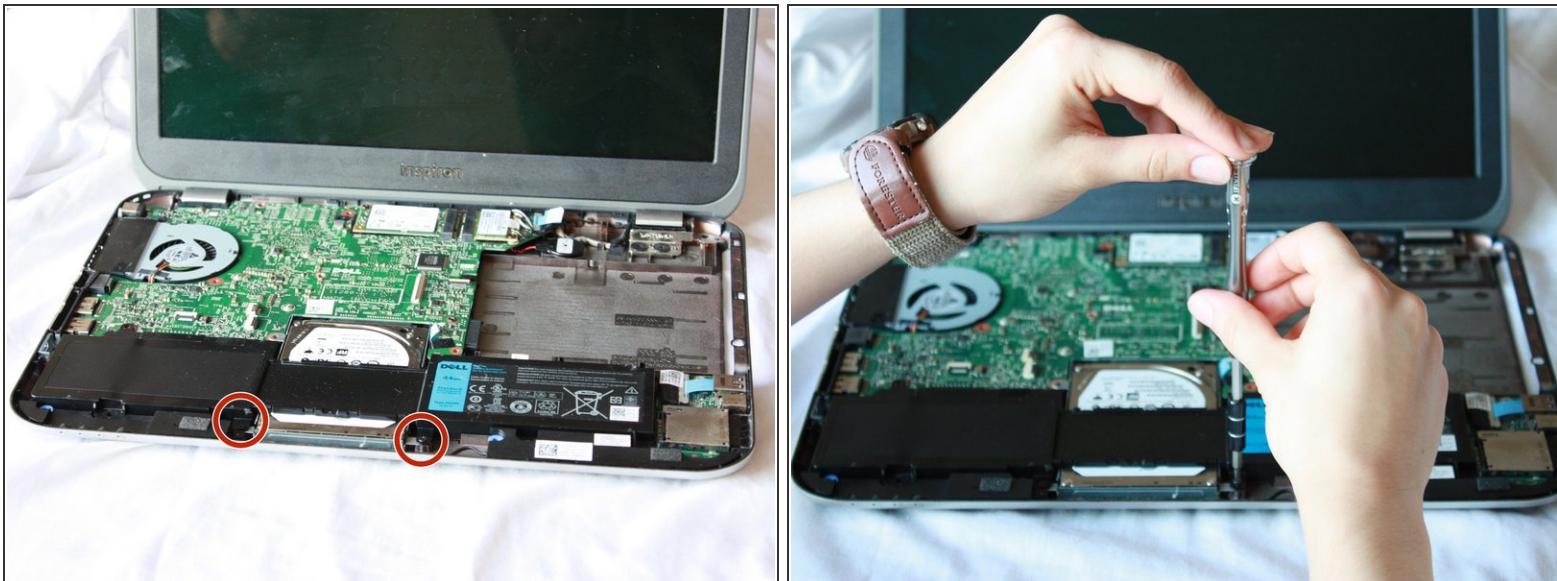
Step 16



- Gently wedge the nylon spudger underneath the palm-rest assembly to release the latches.
- Continue this process on all sides of the computer edges until the assembly pulls off.
- Remove the palm rest assembly.

(i) If you have difficulty lifting up the assembly, you might not have taken out all 7 screws on the bottom of the computer.

Step 17 — Battery



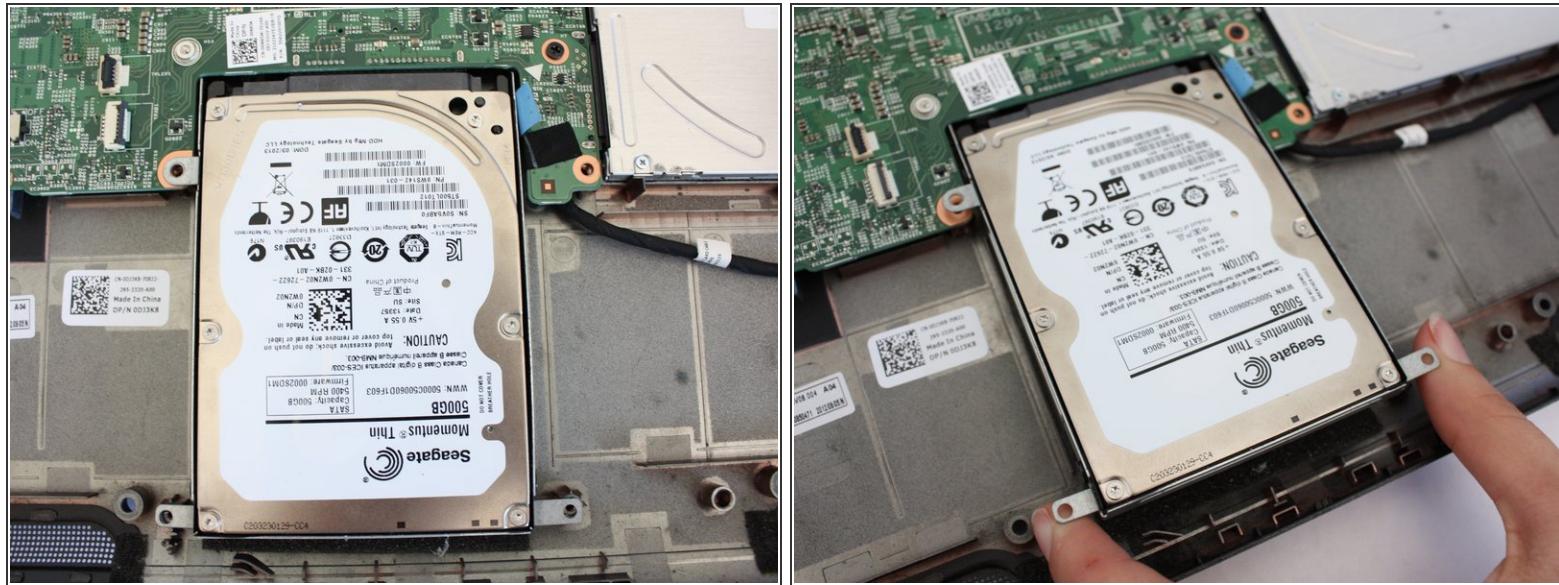
- Use a J0 Bit screwdriver to remove the two 6 mm Phillips screws securing the battery located near the bottom of the laptop.

Step 18



- Lift the tiny black tab and pull the battery out at a slight angle.

Step 19 — Hard Drive



- Lift up the bottom of the hard drive which is located at the bottom of the laptop.
- Gently pull the drive out at an angle using your fingers.

Step 20



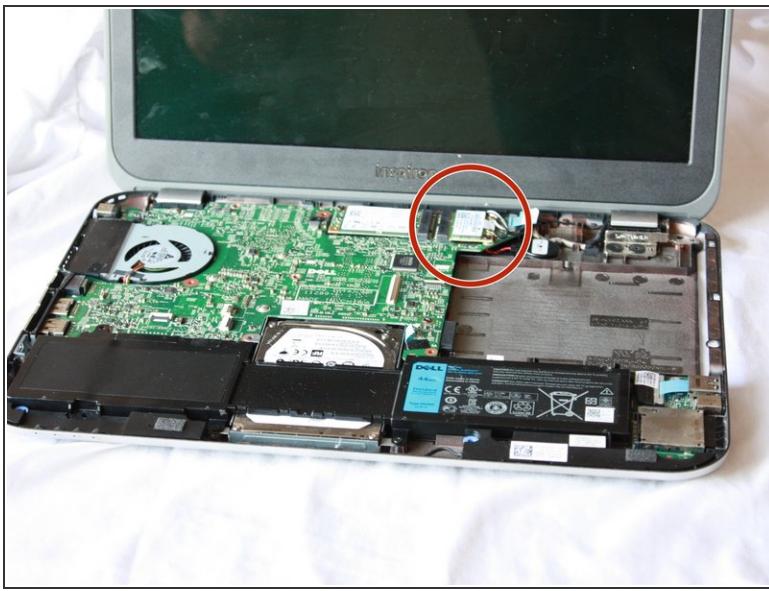
- Using a J0 bit tipped screwdriver, remove the four 3 mm black screws on both sides of the hard drive bracket.

Step 21



- Slide the hard drive out of the bracket.

Step 22 — Wireless Mini Card



- Locate the wireless mini card at the top of the laptop.

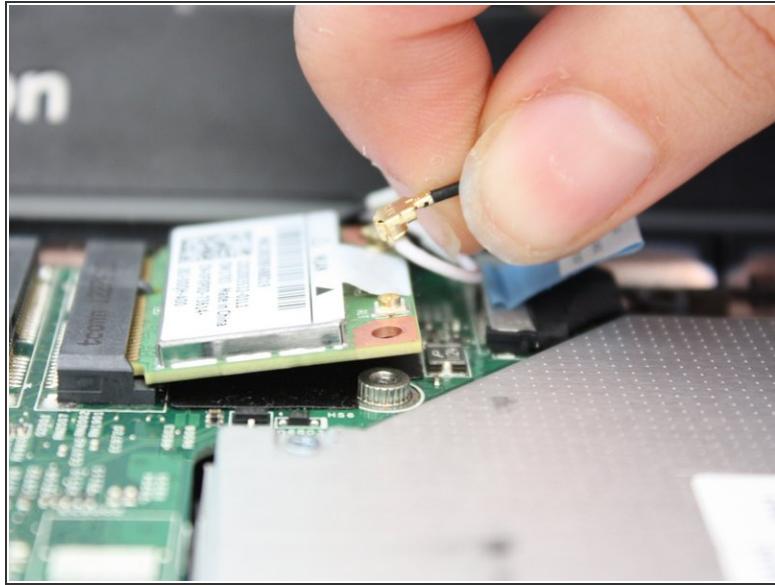
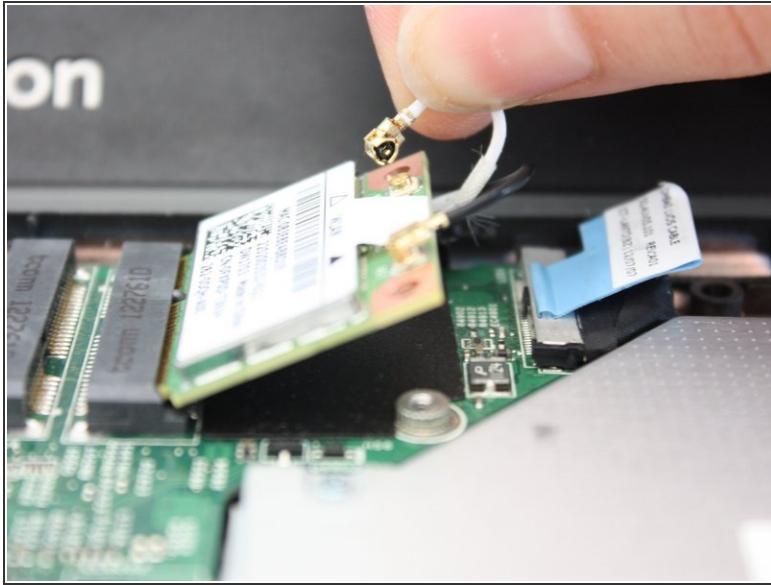
(i) It is next to the place where the optics drive used to be.

Step 23



- Using a J0 tipped screwdriver, remove the 4 mm Phillips head screw.

Step 24



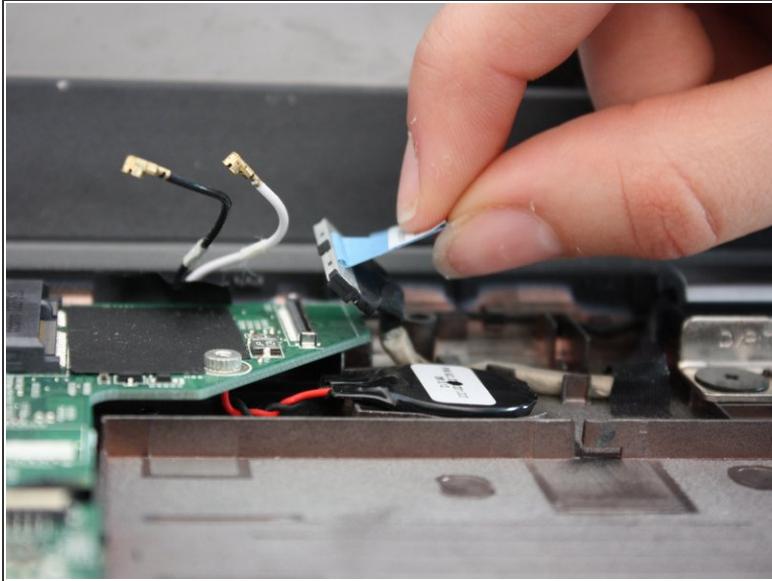
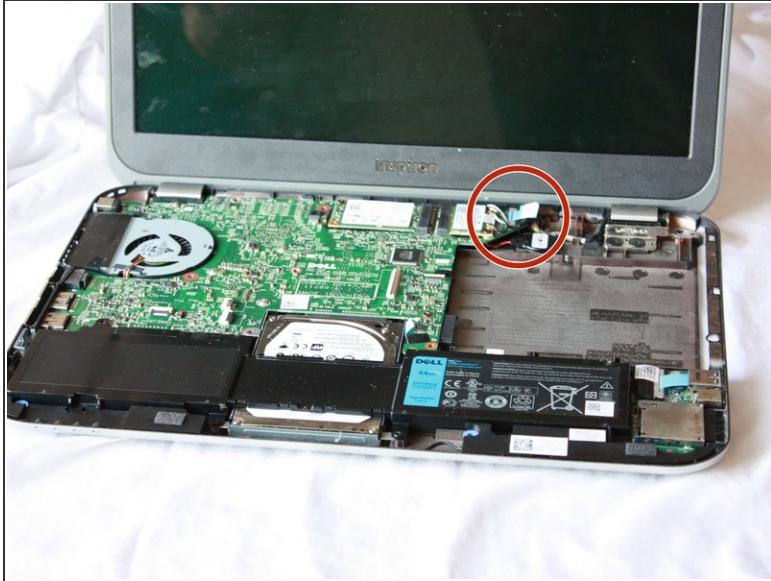
- Gently, unlatch the black and white wires from the wireless mini card.

Step 25



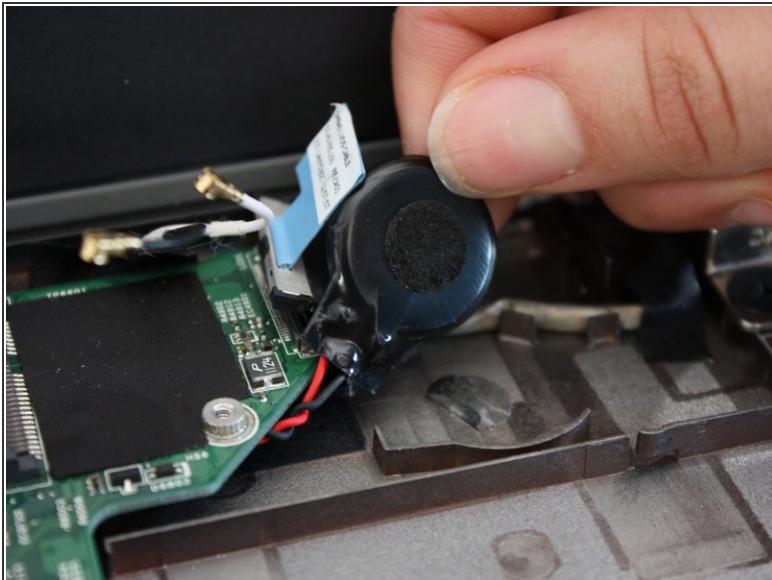
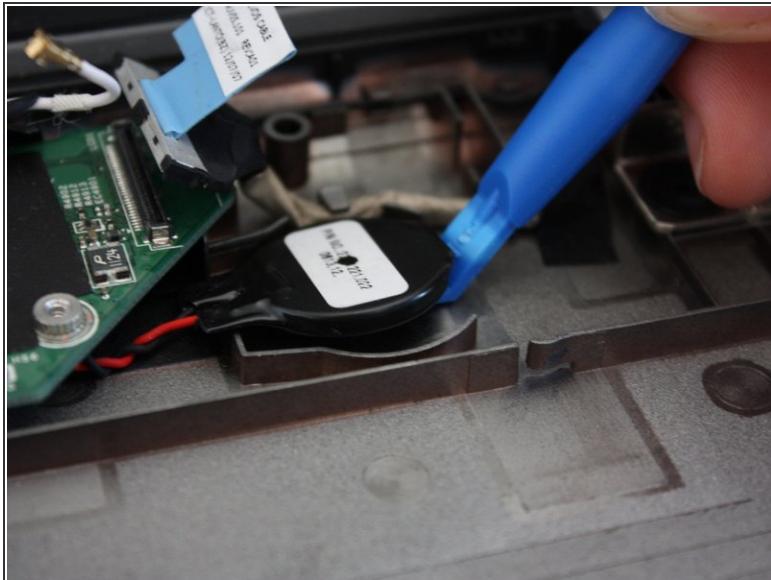
- At an angle, slide out the wireless mini card.

Step 26 — Motherboard



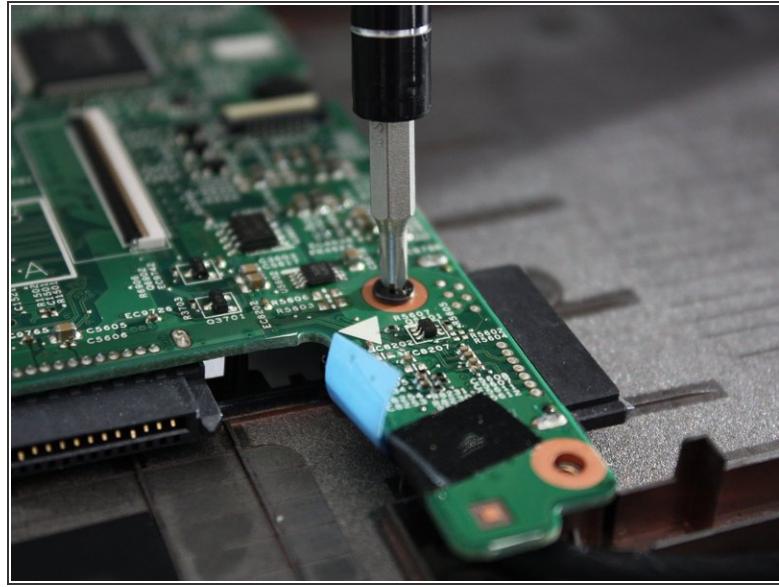
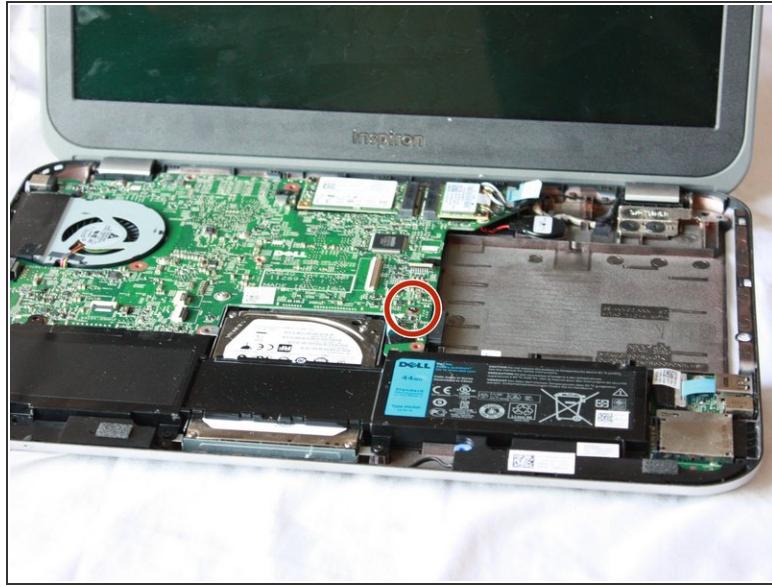
- Gently pull the the blue ribbon upwards to disconnect the computer from the motherboard.

Step 27



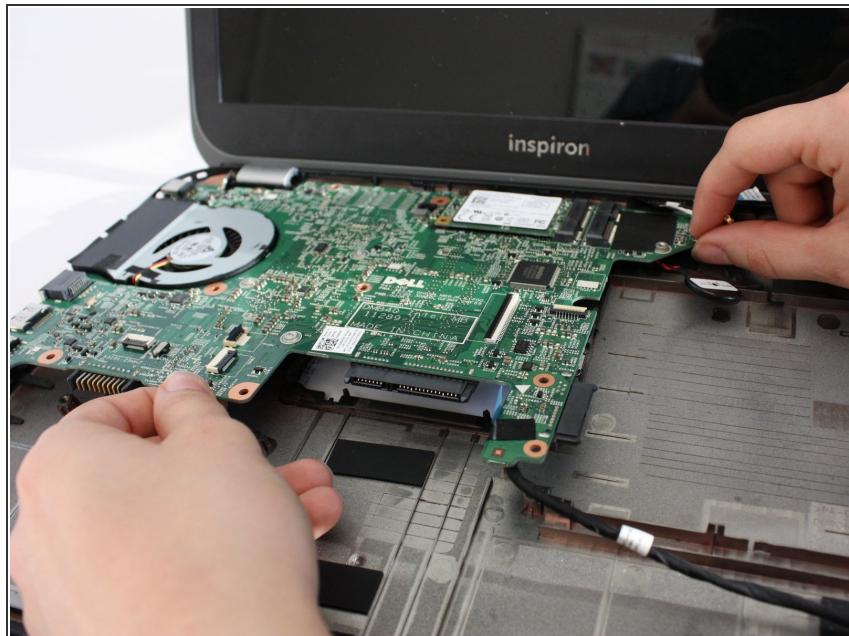
- Using a plastic opening tool, gently detach the coin cell battery from the foam glue.
- The coin cell battery is underneath the optical drive.

Step 28



- Using a J0 tipped screwdriver remove the 6 mm Phillips head screw located at the center of the laptop on the motherboard.

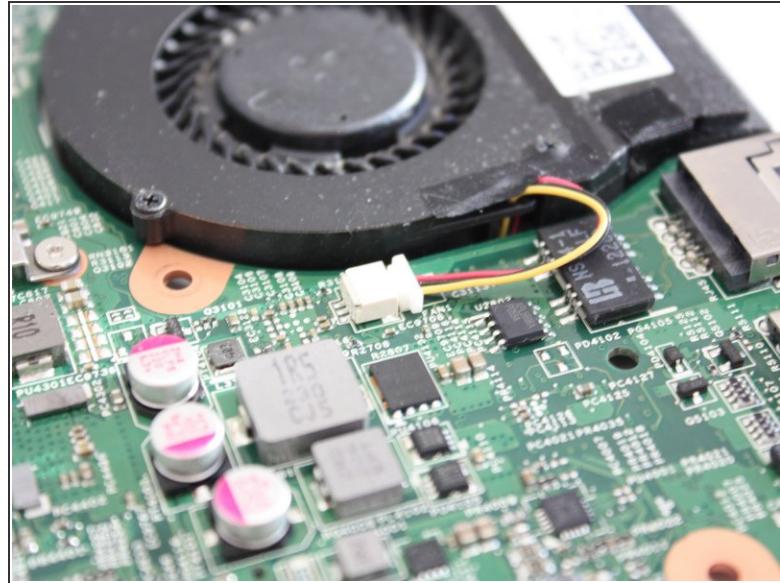
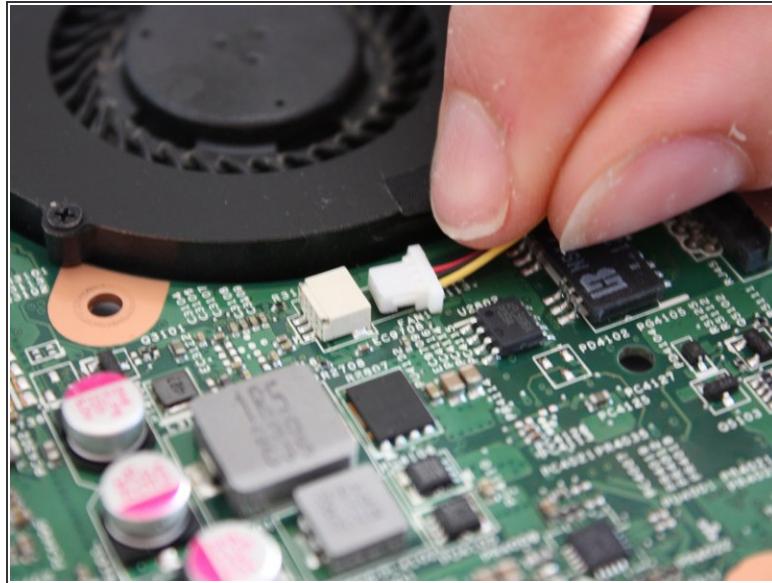
Step 29



- Remove motherboard at an upward angle.

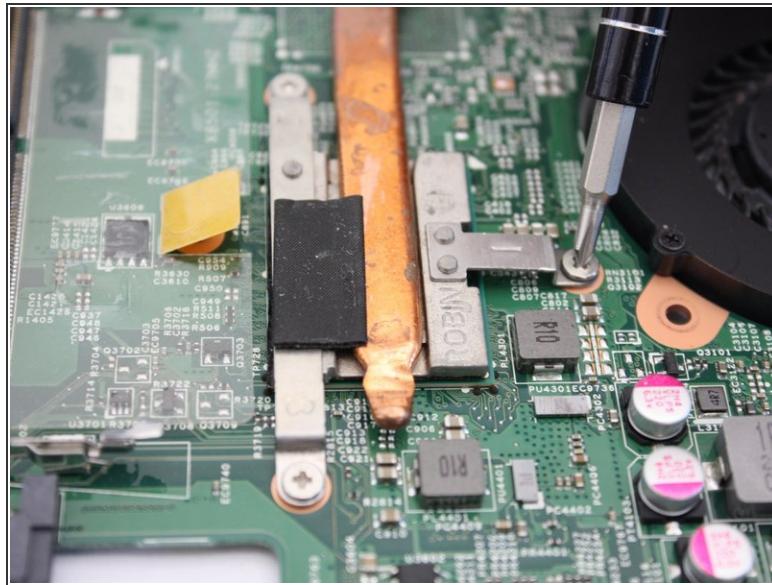
(i) The coin cell battery and fan will be removed with the motherboard.

Step 30 — Fan



- Flip the motherboard over.
- Locate the red and yellow wires attached to the fan and gently detach them from the motherboard.

Step 31



- Using a J0 tipped screwdriver remove the three 5 mm Phillips head screws that attach fan to the motherboard.

⚠ The fan base is labeled 1, 2, 3. Make sure you unscrew the screws in this order.

ⓘ The screws are attached to the fan and will fully unscrew.

Step 32



- Remove the fan from the motherboard by lifting upwards.

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