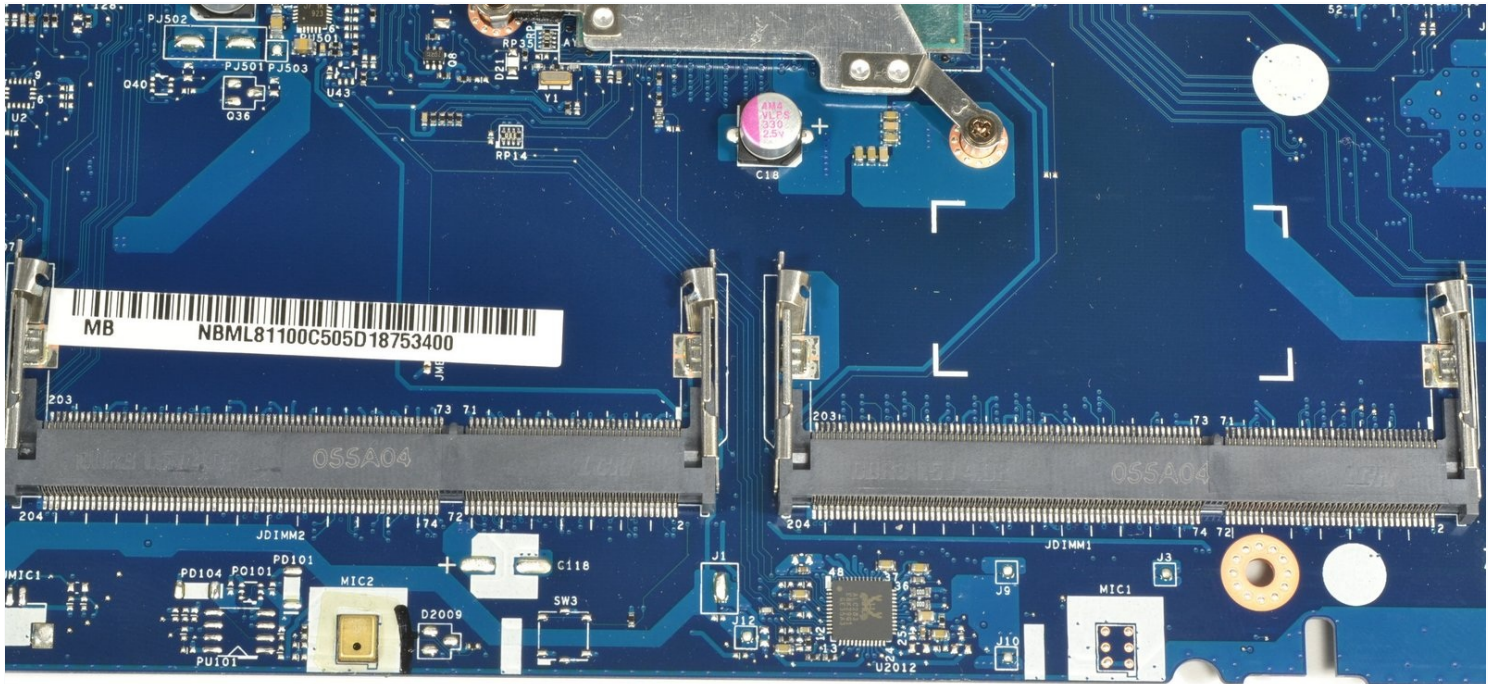




Acer E5-571-54FL RAM Replacement

If your laptop is sluggish or you get error...

Written By: Aaron Weissman



INTRODUCTION

If your laptop is sluggish or you get error codes related to your RAM, it may be time to replace it or upgrade. This guide will walk you through the replacement of your Random Access Memory.

TOOLS:

Phillips #0 Screwdriver (1)

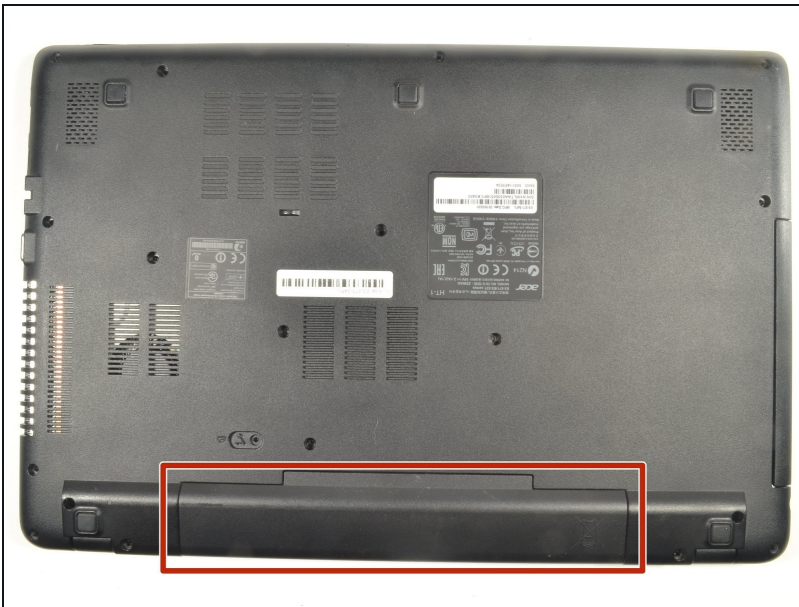
iFixit Opening Tool (1)

Metal Spudger Set (1)

ESD Safe Blunt Nose Tweezers (1)

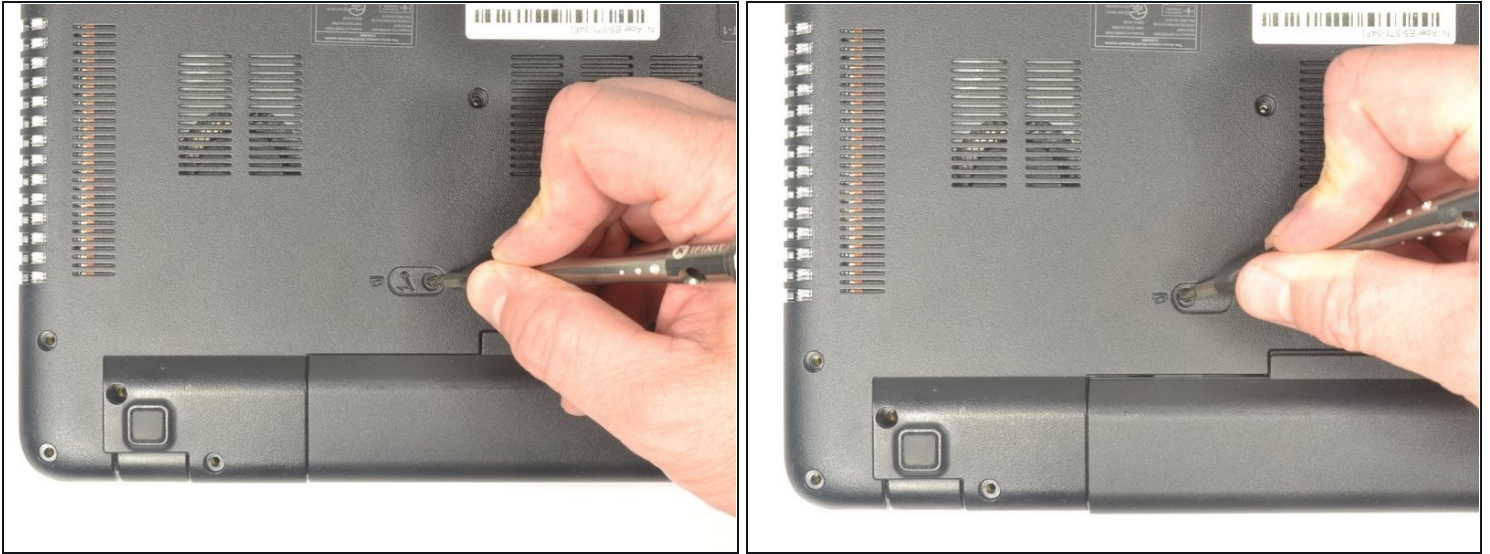
Tweezers (1)

Step 1 — Battery



- Power down the laptop prior to beginning.
- Turn the laptop over with the battery closest to your body.

Step 2



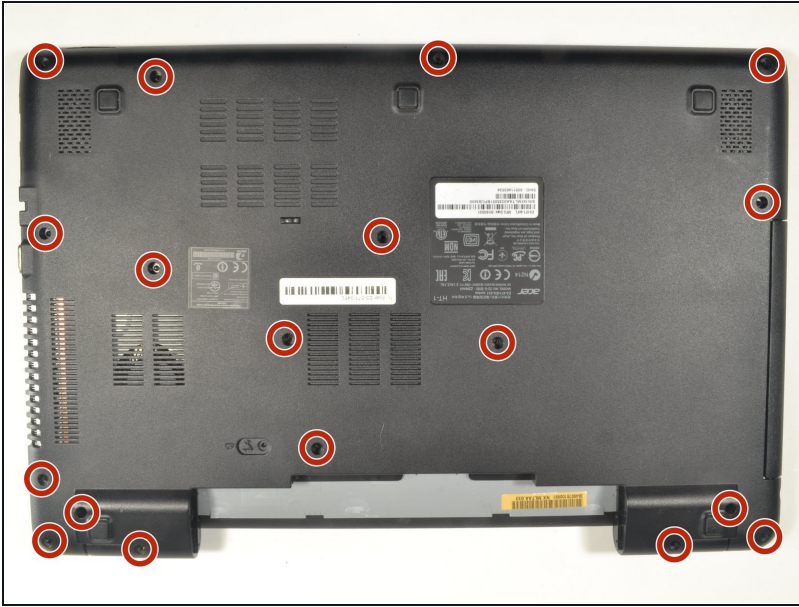
- Insert the pointed end of a spudger into the battery release.
 - Slide the release gently all the way to the left.
- ❗ You should hear a sound after the slide is all the way left. This lets you know the battery has disengaged.

Step 3



- Place your hands on each end of the battery.
- Pull the battery towards your body to remove it.

Step 4 — Keyboard



- Using a #0 Phillips screwdriver, remove a total of eighteen identical 8mm Phillips screws and set them aside.

Step 5



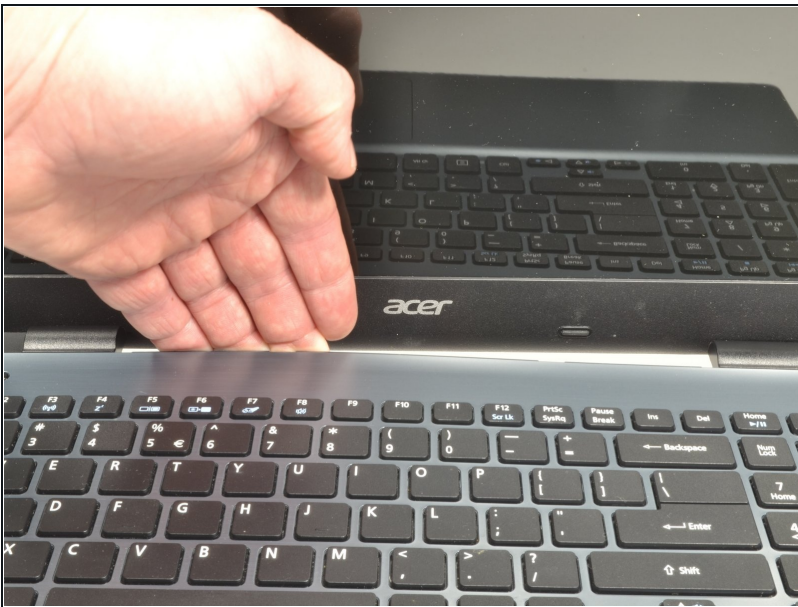
- Rotate the laptop 180 degrees so that the battery compartment is now furthest away from your body.

Step 6



- Turn the laptop over so that you can easily open the screen to a vertical position.

Step 7



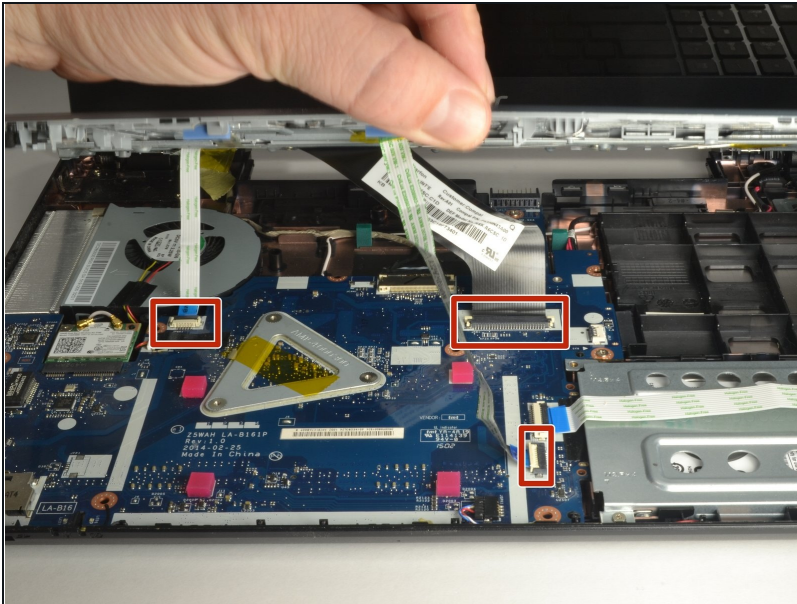
- Put your fingers under the top of the keyboard assembly directly below the Acer logo.
- Carefully pull up on the center until you hear the tabs disengage from the bottom.

Step 8



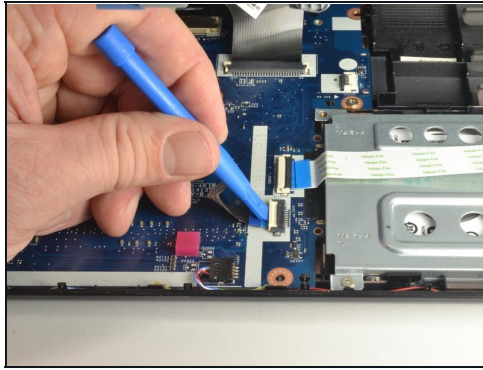
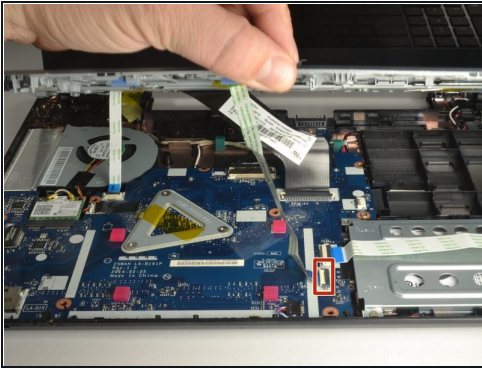
- Work your way around the seam with the plastic opening tool carefully prying the base and top cover apart.
- ① If you have difficulty with the plastic opening tool, use a metal spudger **but be more cautious** to not damage or mar your laptop case.

Step 9



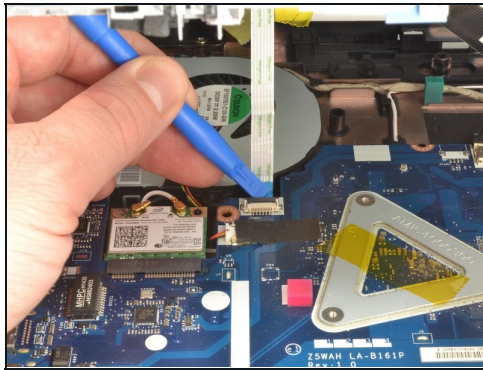
- When the two halves are separated, carefully lift up the front of the keyboard and touchpad assembly.
- You will see three ribbon cables attached to the motherboard.

Step 10



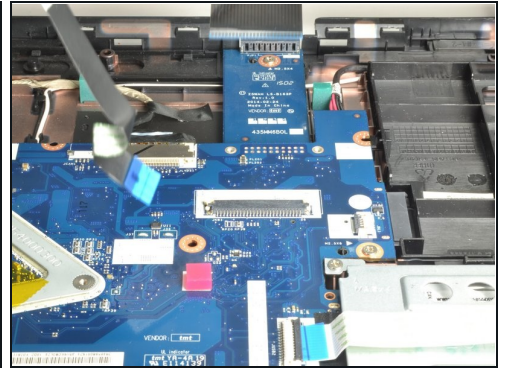
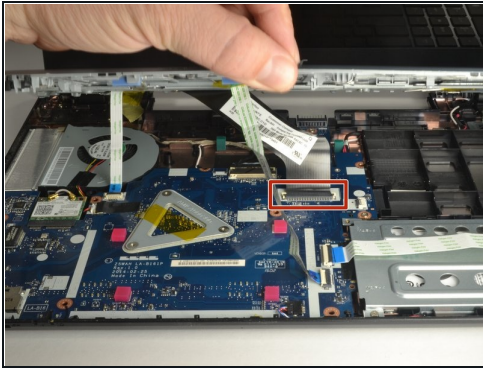
- Closest to the ribbon cable on the zero insertion force (ZIF) connector is a **white** locking tab.
- Carefully lift up on the locking tab with the plastic opening tool to release the ribbon cable. (Picture 2)
- Remove the ribbon cable from the connector.

Step 11



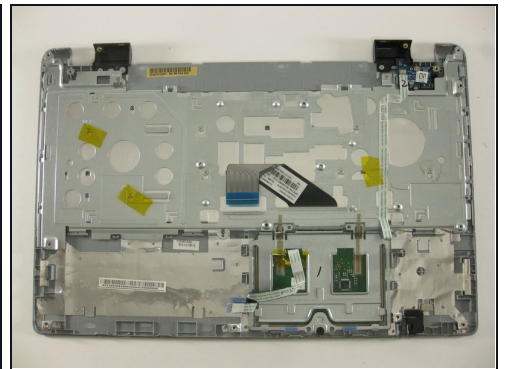
- Closest to the ribbon cable on the ZIF connector is a **black** locking tab.
- Carefully lift up on the locking tab with the plastic opening tool to release the ribbon cable. (Picture 2)
- Remove the ribbon cable from the connector.

Step 12



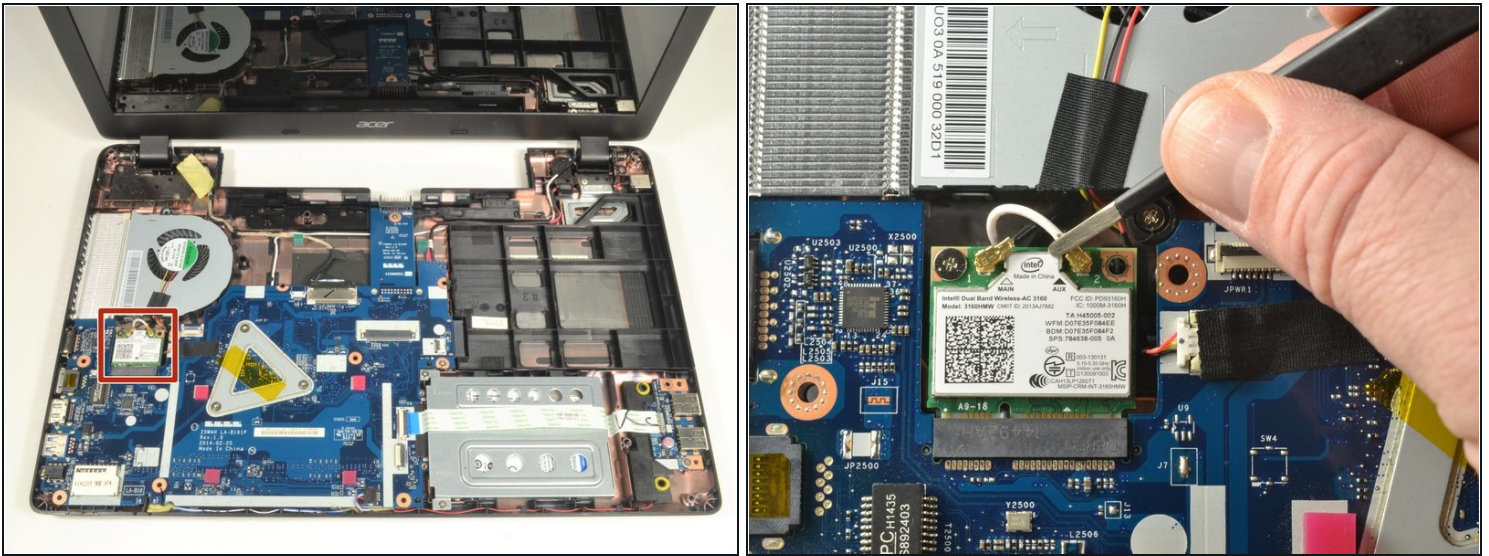
- On each side of the large connector there are two white tabs.
- Carefully push away from you with the plastic opening tool on each white tab to release the cable. (Picture 2)
- Remove the ribbon cable from the connector.

Step 13



- Once all three ribbon cables are disconnected, lift off the top cover with the keyboard and touchpad.

Step 14 — WiFi Card



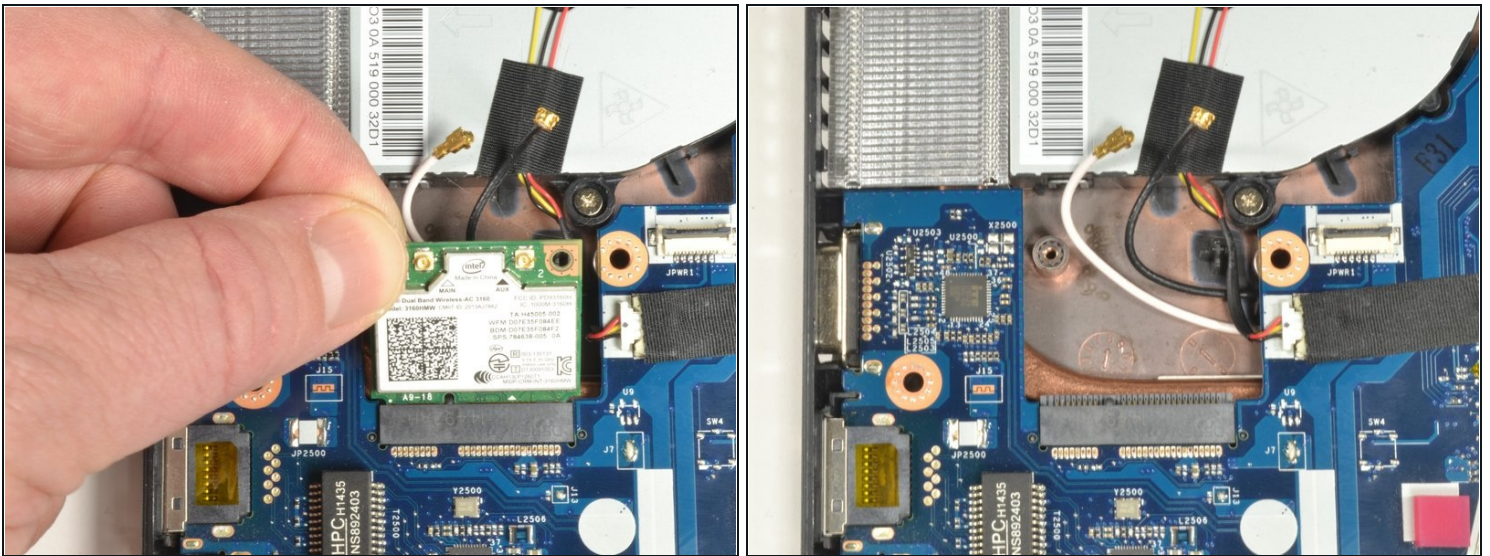
- Locate the WiFi card. It is just below the fan and has a white coaxial cable and a black coaxial cable attached to it.
- Grab the section of the white coaxial cable behind the brass connection using ESD safe blunt nose metal tweezers.
- Carefully lift the white coaxial cable up and forward to disconnect the it from the WiFi card.
- Repeat the previous two bullet points to disconnect the black coaxial cable from the WiFi card.

Step 15



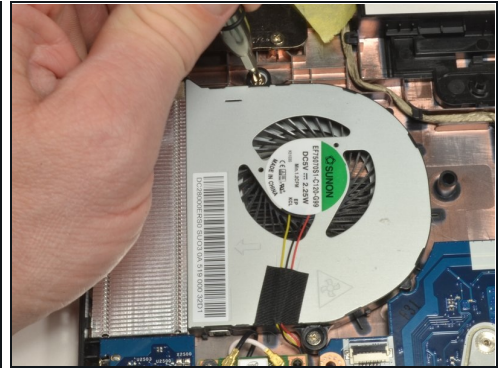
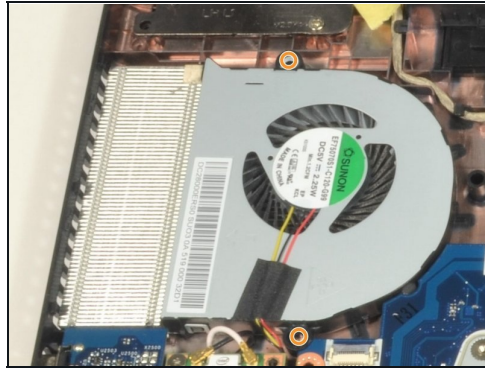
- Use a #0 Phillips screwdriver to remove the 3 mm screw from the upper left corner of the WiFi card.
- ❗ The edge of WiFi card will lift up as the screw is removed.

Step 16



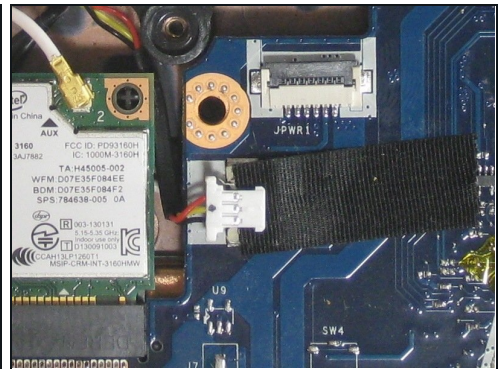
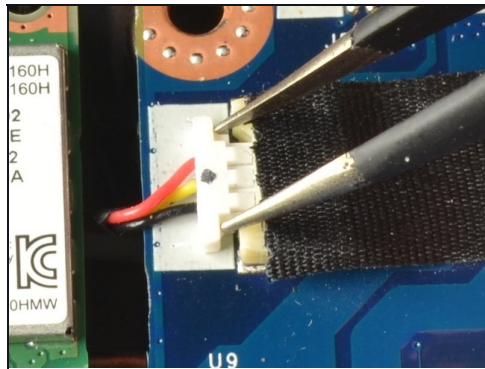
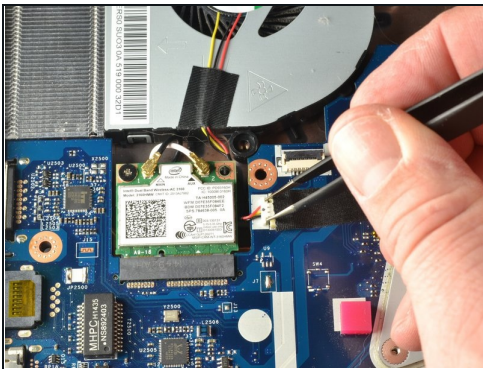
- Grab the upper left corner of the WiFi card with your fingers.
- Gently pull the WiFi card away from the socket.

Step 17 — Cooling Fan



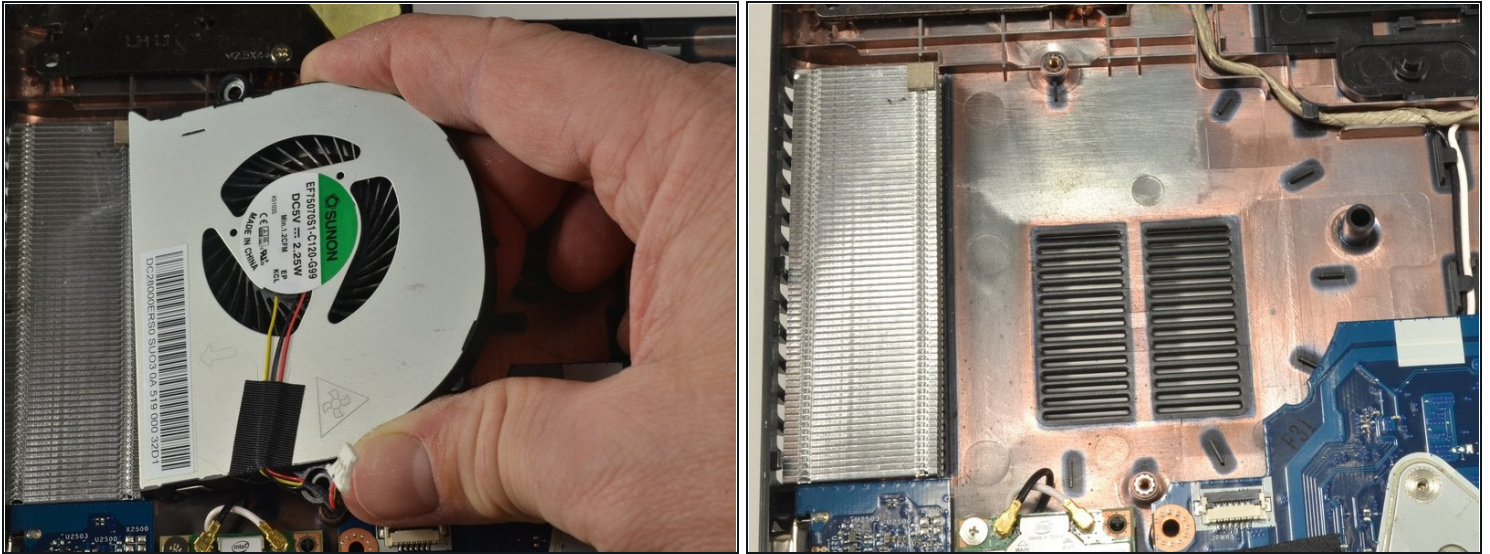
- Locate the CPU cooling fan in the upper left corner of the laptop.
- Using a #0 Phillips screwdriver, remove the two 4.5 mm screws that secure the fan to the case.

Step 18



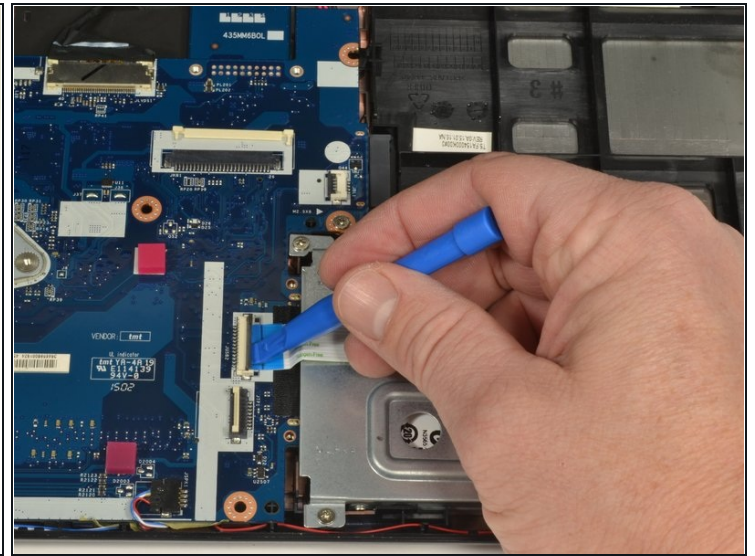
- Place the tips of the ESD safe pointed tweezers between the plug and the socket of the fan connection.
- Gently push the tweezers to the left to disconnect the fan plug.
- Move the fan connector and its wires to free them from the motherboard and the WiFi card.

Step 19



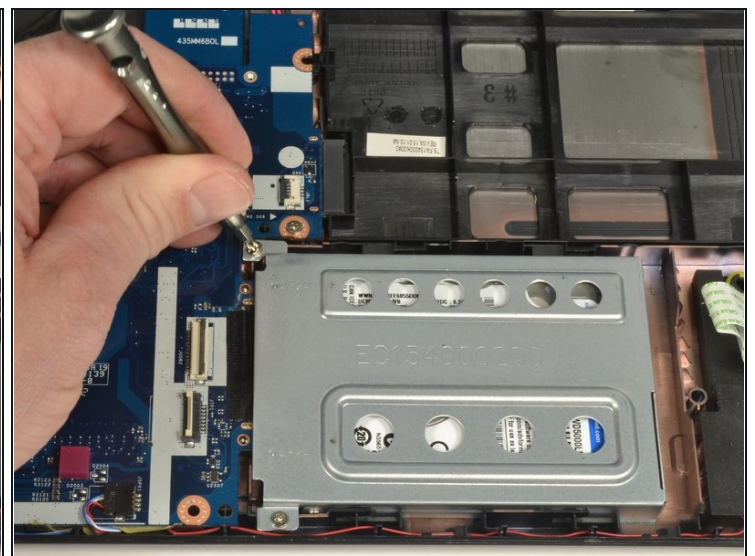
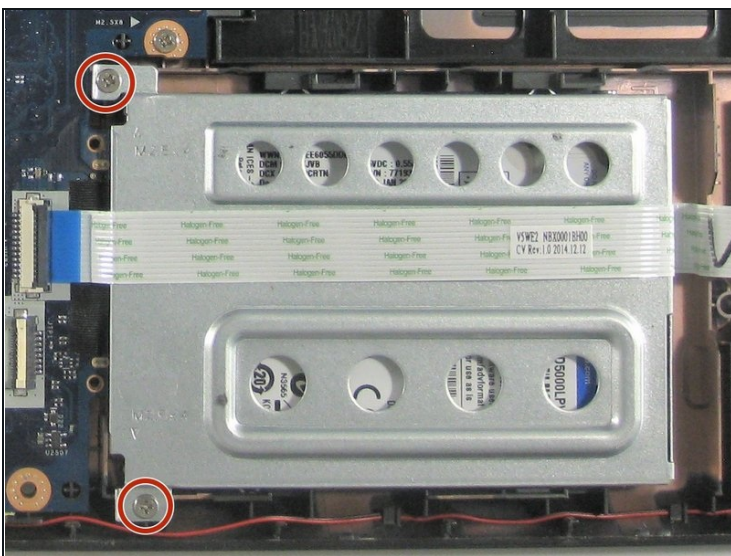
- Lift the curved end of the fan by about 30 degrees.
 - Use your hand to lift the fan up and to the right until it is clear of the case.
- ⓘ If you feel resistance, check if the fan connector and wires are stuck under the motherboard or under the WiFi card. If the connector or wires are stuck, gently free them.

Step 20 — Hard drive



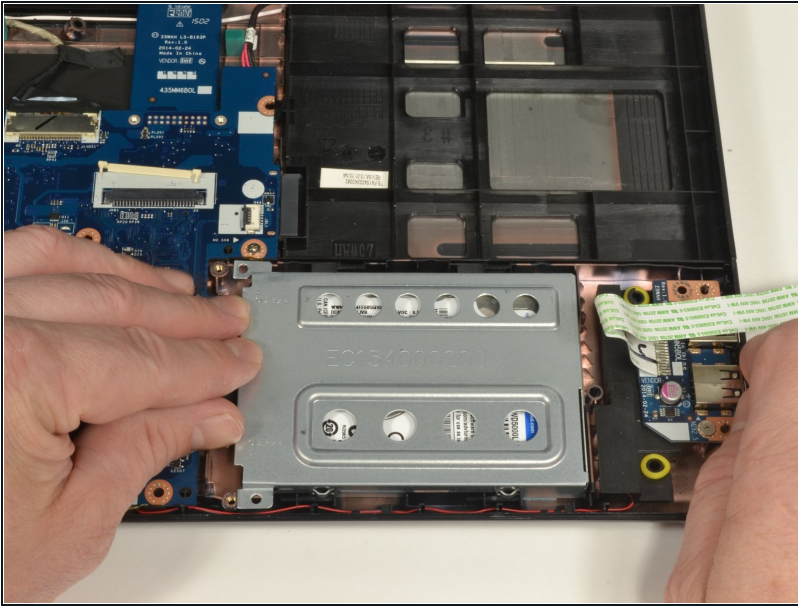
- Locate the hard drive and its carriage at the lower right corner of the laptop.
- Release the USB port ribbon cable by using the plastic opening tool to carefully lift up the black locking tab of the ZIF connector.
- Move the USB port ribbon cable to the side.

Step 21



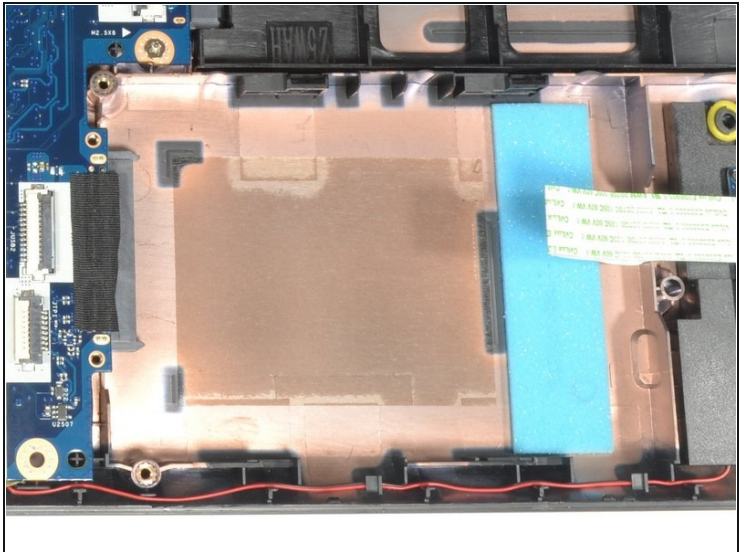
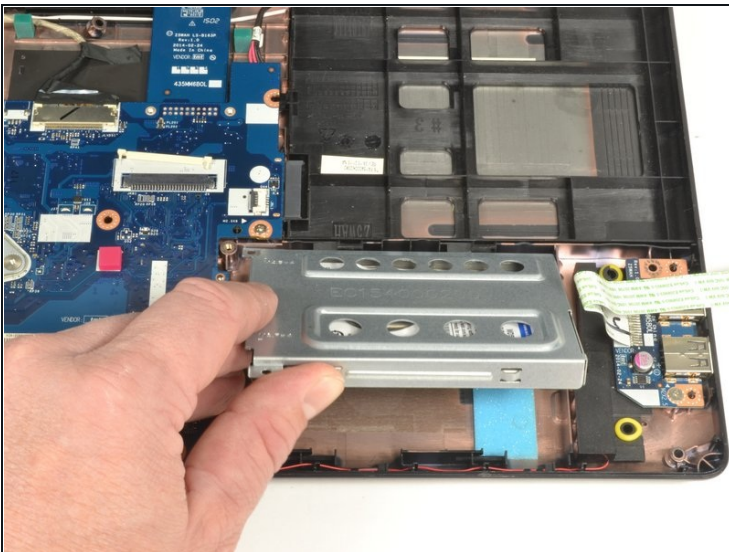
- Use a #0 Phillips screwdriver to remove the two 4mm screws securing the hard drive carriage in place.

Step 22



- Hold the right side of the laptop in place with your right hand.
 - Put the fingers of your left hand along the top edge of the hard drive carriage.
 - Push the hard drive carriage towards your right hand to disconnect it from the motherboard.
- ⓘ This procedure may require more force than other procedures.

Step 23



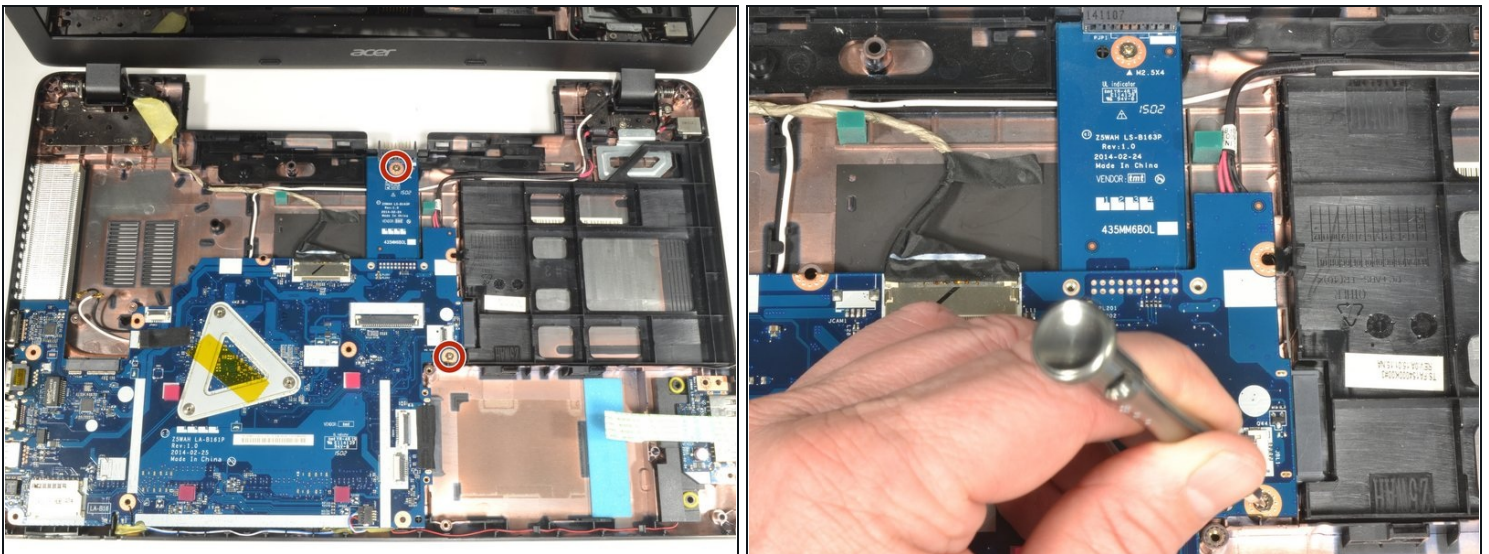
- Lift up the hard drive carriage on the edge closest to your body to remove it.
- ⓘ If doing the motherboard replacement guide, skip the next step.

Step 24



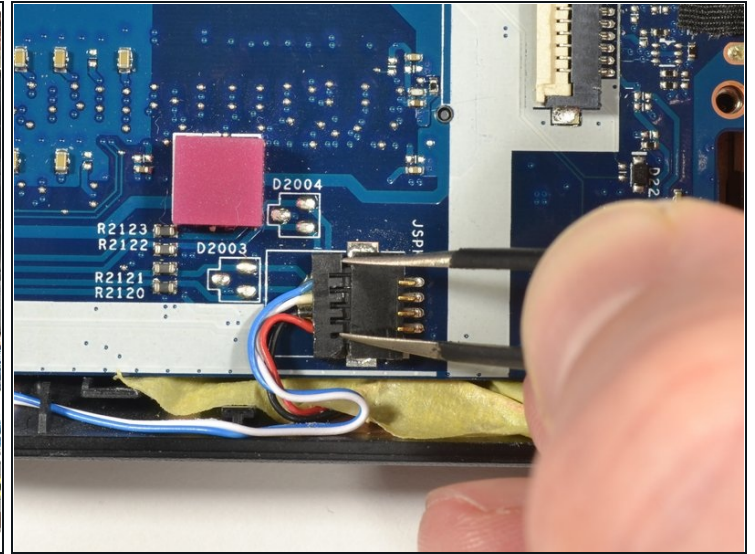
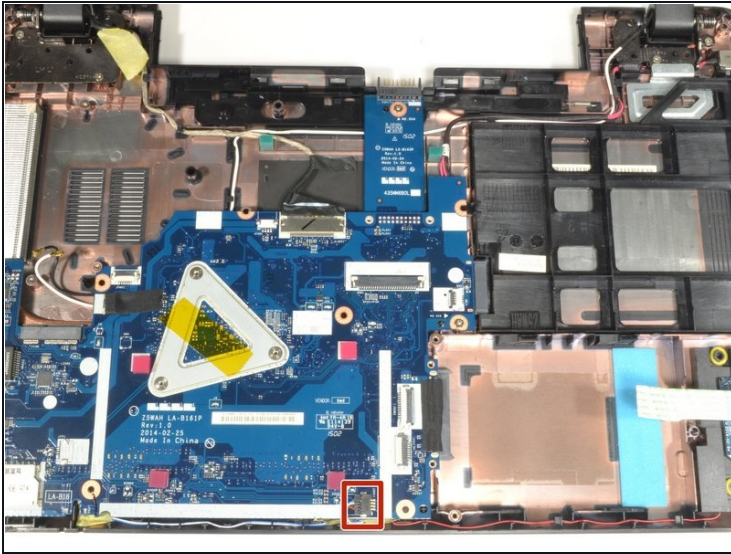
- Locate the two 3 mm Phillips screws holding the hard drive into the carriage. There is one screw on each side of the carriage.
- Hold the hard drive carriage with your non-dominant hand along one side. Ensure one of the Phillips screws is visible.
- Using a #0 Phillips screwdriver, remove the 3 mm screw to release the side of the hard drive from the carriage.
- Repeat the two previous bullet marks to remove the second 3 mm Phillips screw. This should also free the hard drive from the carriage.

Step 25 — Motherboard



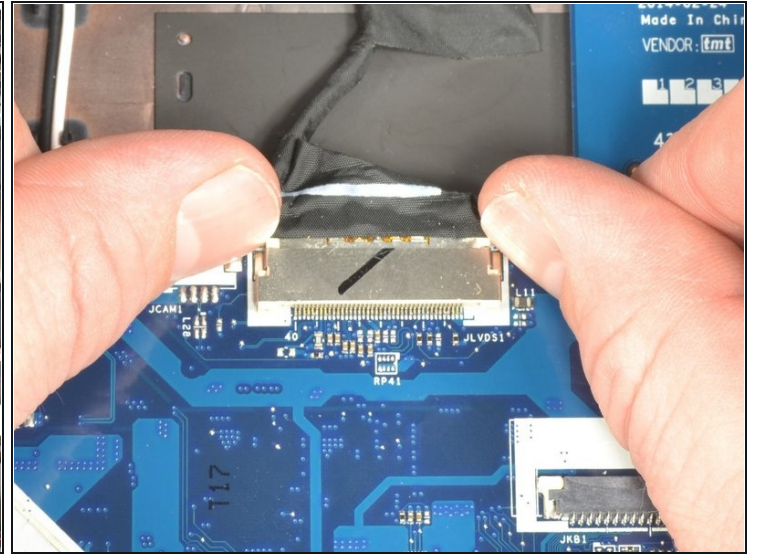
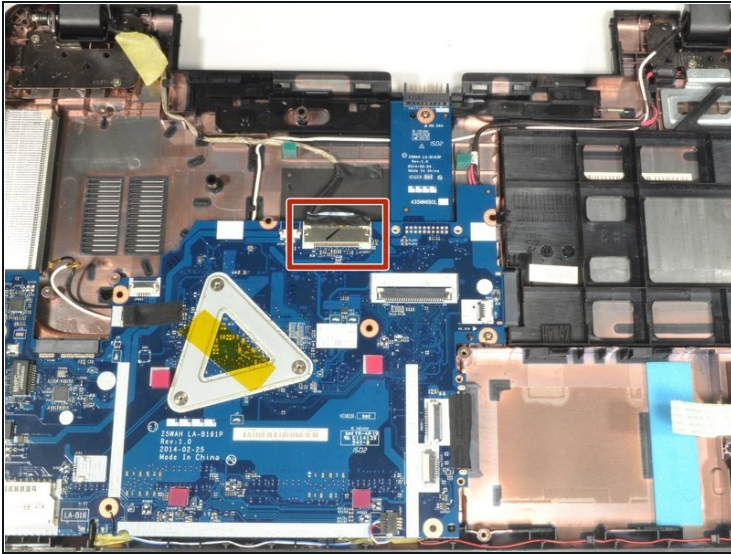
- Use a #0 Phillips screwdriver to remove the two pictured 4 mm screws.

Step 26



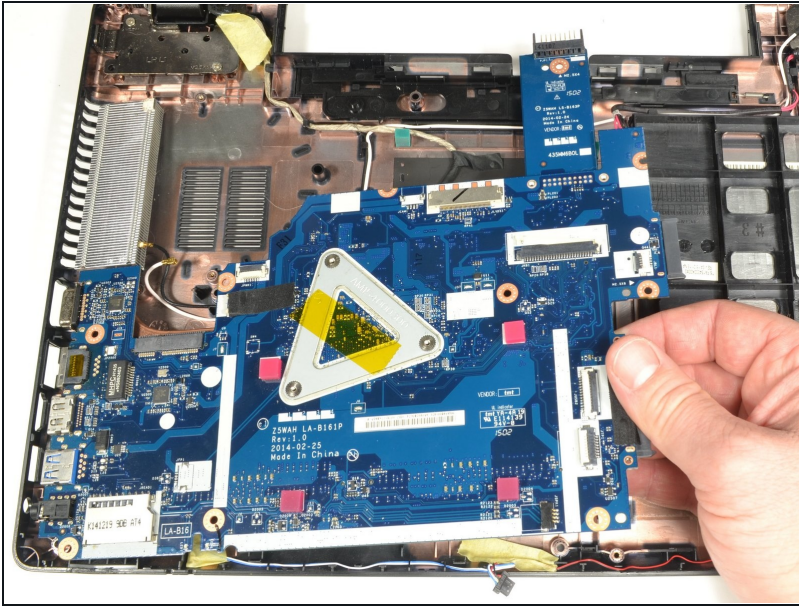
- Locate the three wire speaker connection. It is centered at the edge of the motherboard closest to your body.
- Place the tips of the ESD safe pointed tweezers between the plug and the socket of the speaker connection.
- Gently push left to disconnect the speaker plug.

Step 27



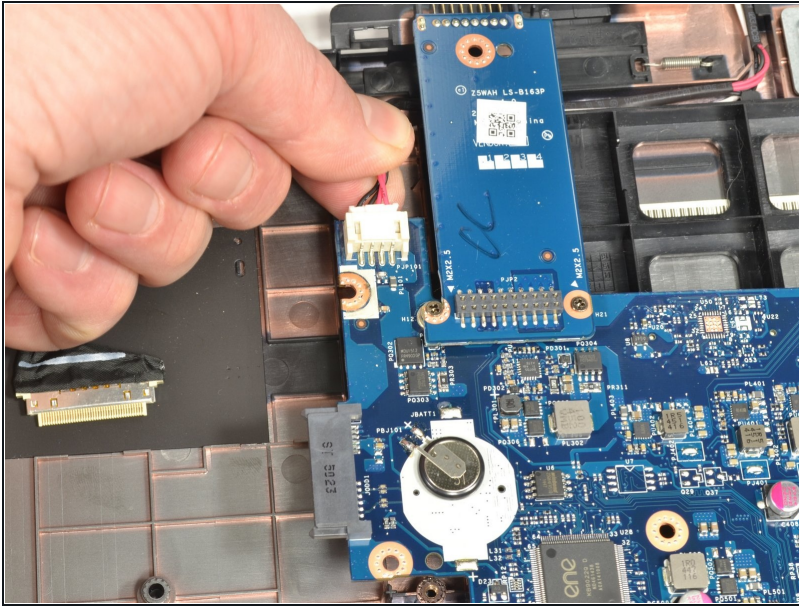
- Locate the screen connection. It is centered on the side of the motherboard furthest from your body.
- Place your fingernails on each side of the screen connection plug. Gently push away from your body to disconnect the plug.

Step 28



- Carefully lift up on the right edge of the motherboard near the hard drive connector.
- With minimal force, pull the motherboard to the right freeing the ports on the left from the case.
- Put down the right side and allow the motherboard to rest in the case.
- ① There is still one connection to be removed which lies underneath the motherboard.
- Lift the left side of the motherboard up and turn it over so the ports are now facing right.

Step 29



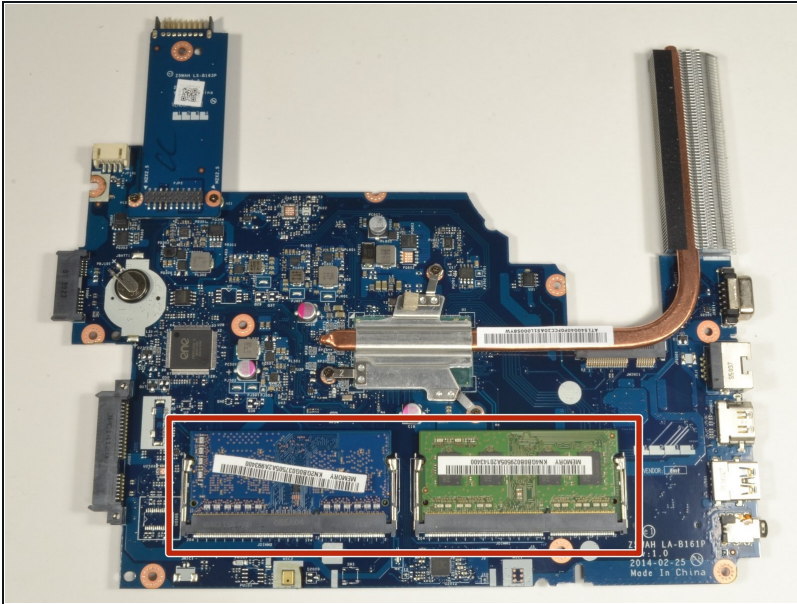
- Grip the edge of the motherboard closest to your body with your non-dominant hand.
- Grip the power connection wires with your dominant hand and gently pull away from your body to disconnect.

Step 30



- Lift the motherboard out of the case.

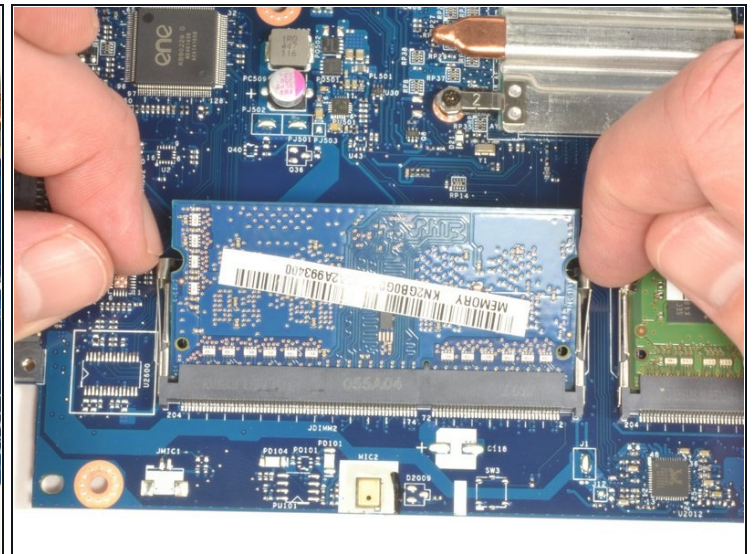
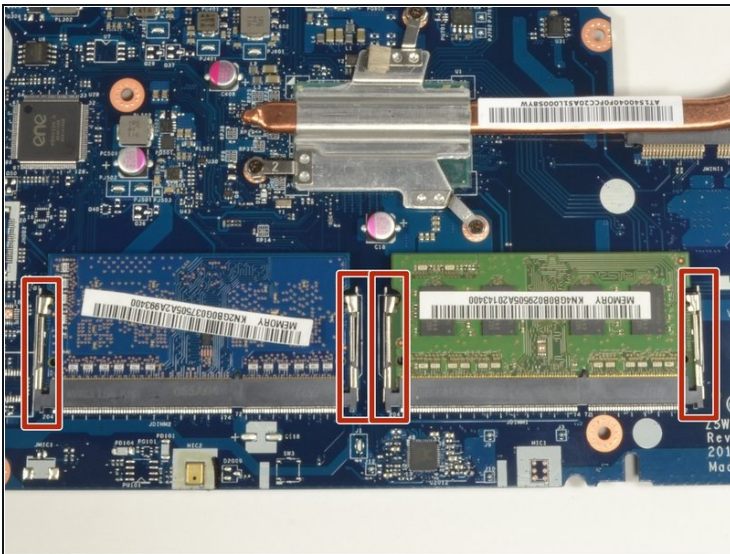
Step 31 — RAM



- The RAM modules are on the underside of the motherboard at the lower edge.

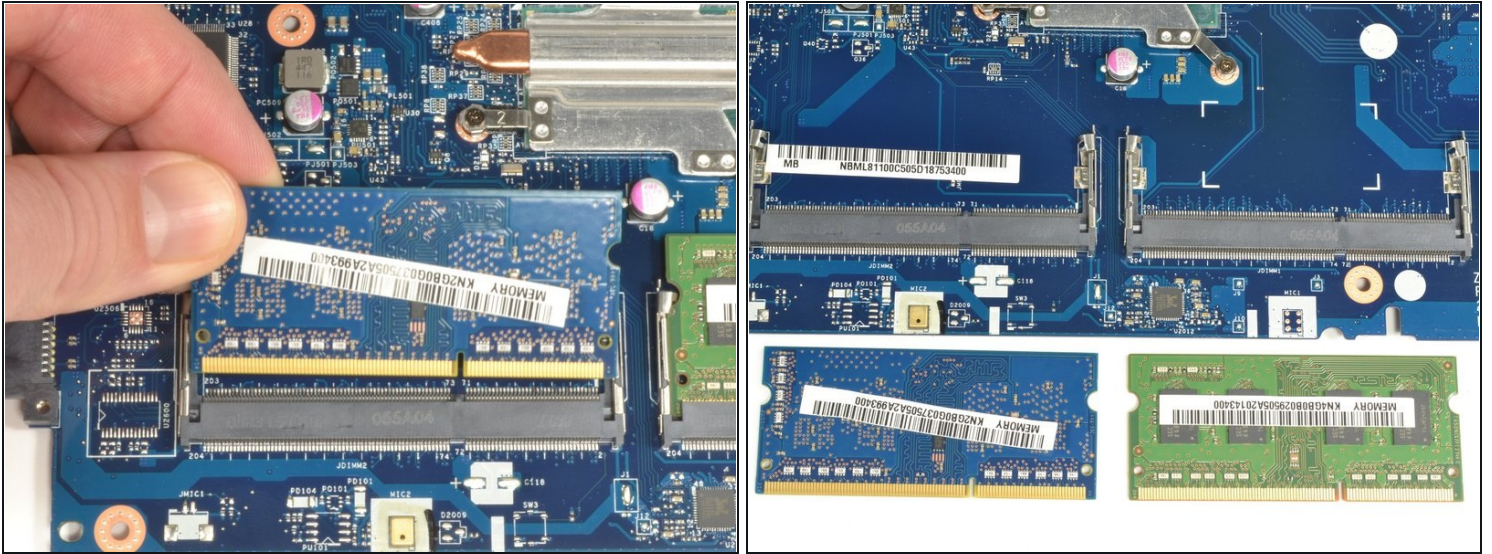
ⓘ After following the previous steps of this guide, they should be closest to your body and face up.

Step 32



- There are two clips holding each RAM module into its respective connector.
- Use your fingernails to gently pull each set of clips away from the RAM module at the same time.
- When disengaged, the RAM module will pop up slightly.
- Repeat this procedure for the remaining RAM module.

Step 33



- Grip the upper left corner of the RAM module with your fingers.
- Pull the module away from your body at a slight incline to remove it from the connector.
- Repeat this procedure for the remaining RAM module.

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