



Toshiba Satellite L305-S5946 Processor Replacement

The S5946 permits upgrades to the processor unit; use this guide to install a new processor on your Toshiba.

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INTRODUCTION

Use this guide to replace the processor. This may be necessary if the screen is black when the computer is on if the cause of the problem is not the screen.



TOOLS:

- [iFixit Opening Tool](#) (1)
 - [Phillips #1 Screwdriver](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
 - [6-in-1 Screwdriver](#) (1)
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Step 1 — Battery



- Place the laptop upside-down with the display hinges facing away from you.

Step 2



- Slide the latch for the left battery bay to the left.

Step 3



- Slide the latch for the right battery bay to the right and hold.
- Continue to hold the latch while using a plastic opening tool to lift and remove the battery bay cover.
- Remove the battery.

Step 4 — Hard Drive



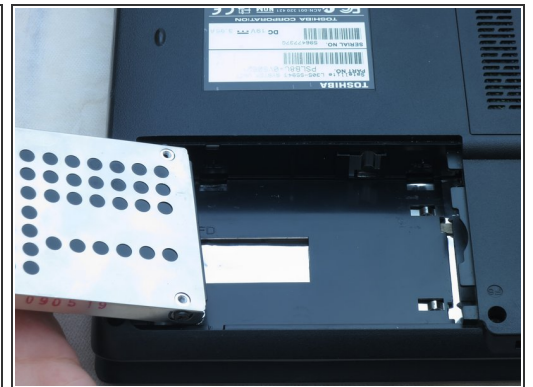
- Loosen the two captive screws on the bottom left corner of the hard drive using a Phillips #1 screwdriver until you hear a click.

Step 5



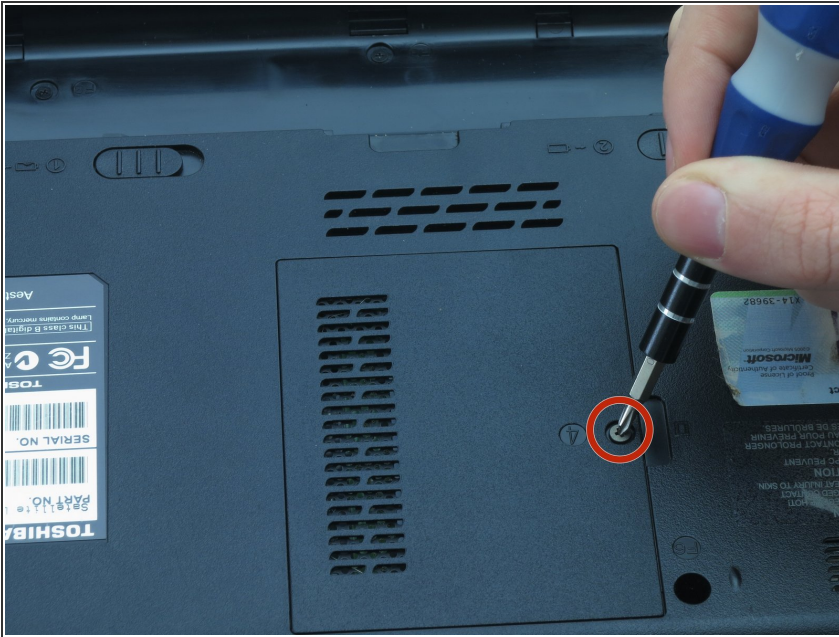
- Lift the hard drive cover using a non-marring iFixit opening tool.
- ⓘ This will expose the hard drive.

Step 6



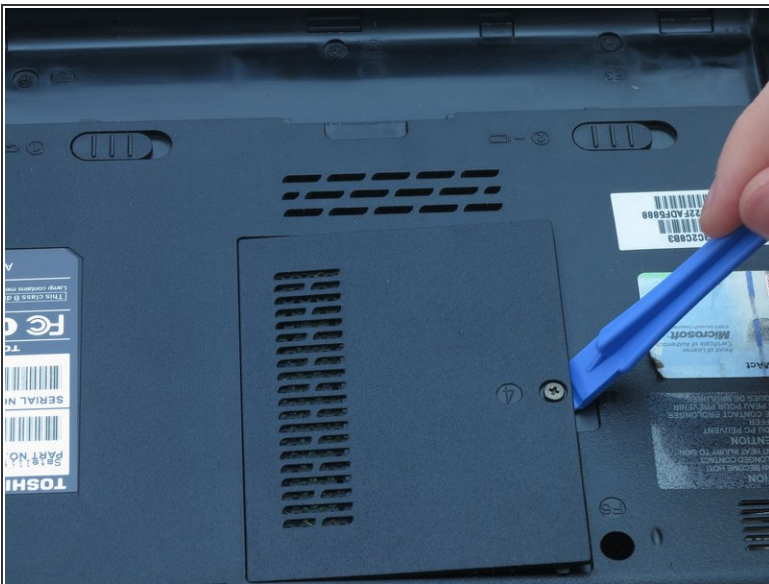
- Slide the hard drive to the left using your fingers.
- Remove the hard drive by inserting an iFixit opening tool under the right side of the hard drive and carefully lifting it out.

Step 7 — RAM



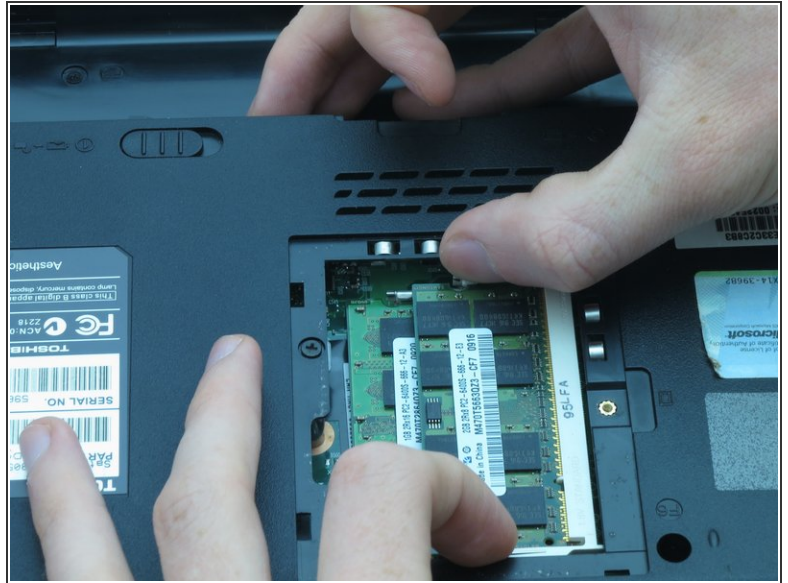
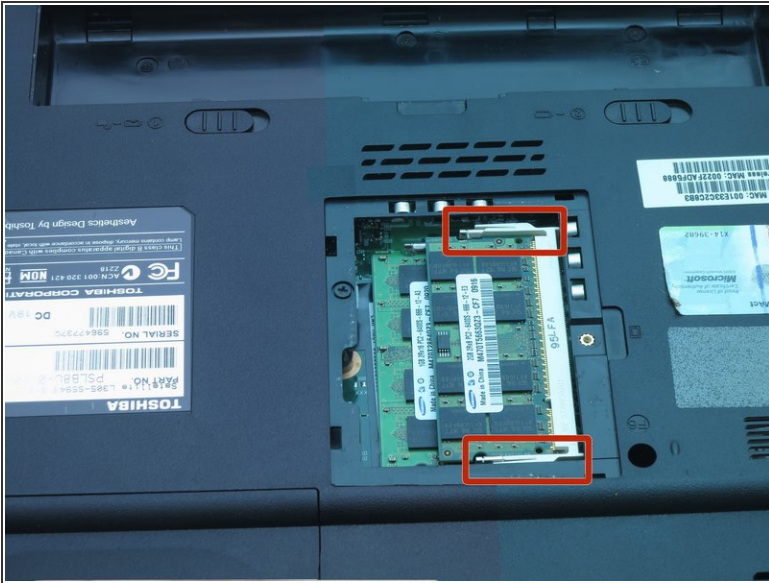
- Using a Phillips #1 screwdriver, turn the screw on the RAM cover until you hear a click.
- ⓘ This is a captive panel screw and remains with the cover.

Step 8



- Remove the RAM cover by inserting the plastic opening tool into the indent and lifting.

Step 9



- Push the white and silver retaining clips away from each side of the RAM card using your fingernails.
- ⓘ The RAM card should pop up at an angle.

Step 10



- Pull the RAM card away from the computer.
- Repeat Steps 6 and 7 to remove the other RAM card that may be installed.

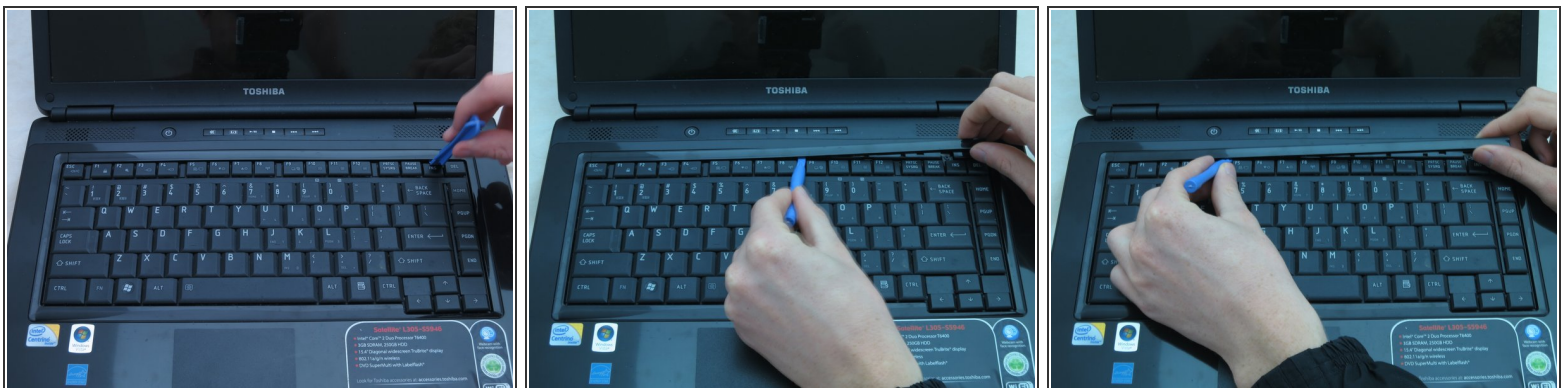
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Step 11 — Keyboard



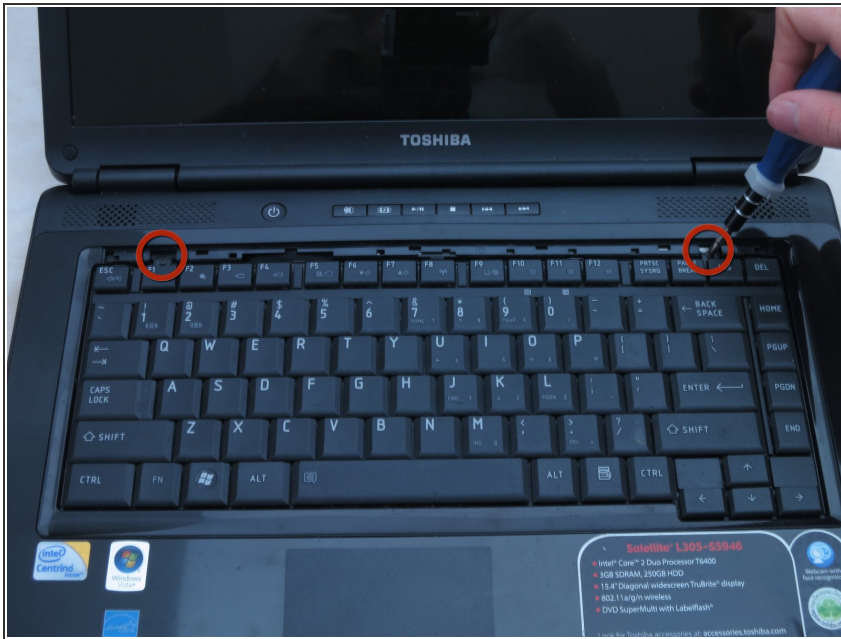
- Place the laptop right-side-up so the screen faces you.

Step 12



- Remove the strip of plastic at the right furthest edge of the keyboard using a plastic opening tool.
- Insert the plastic opening tool at either end of the strip.
- Lift upwards and proceed to the other end while repeating this lifting process every one to two inches.

Step 13

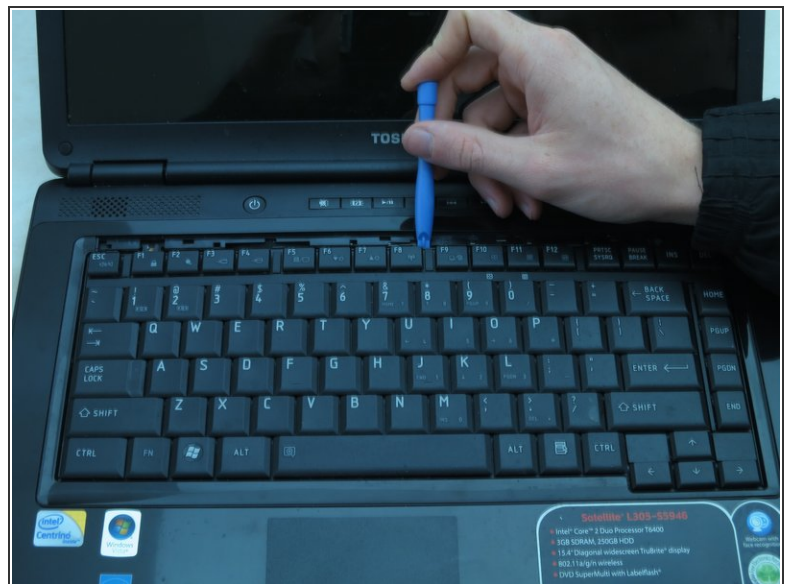
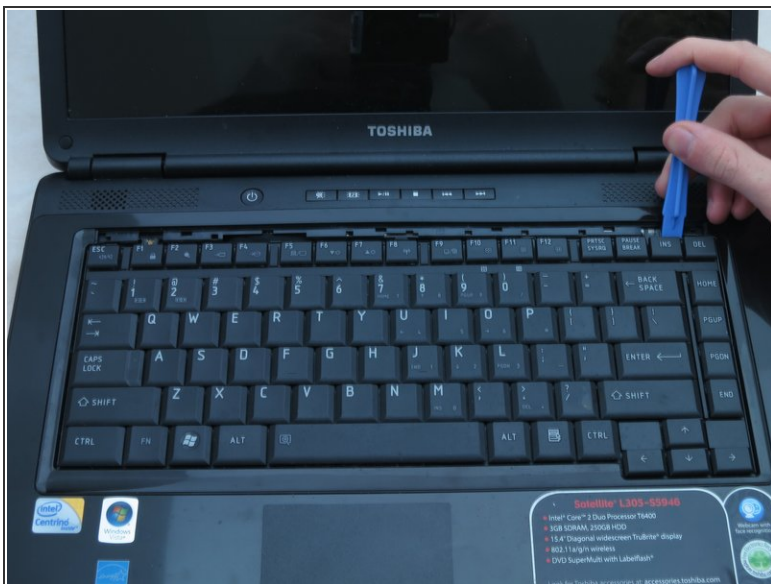


⚠ CAUTION: do not allow hardware or debris into the CPU fan and duct.

- Remove the two 3-mm screws at the top edge of the keyboard using a Phillips #00 screwdriver.

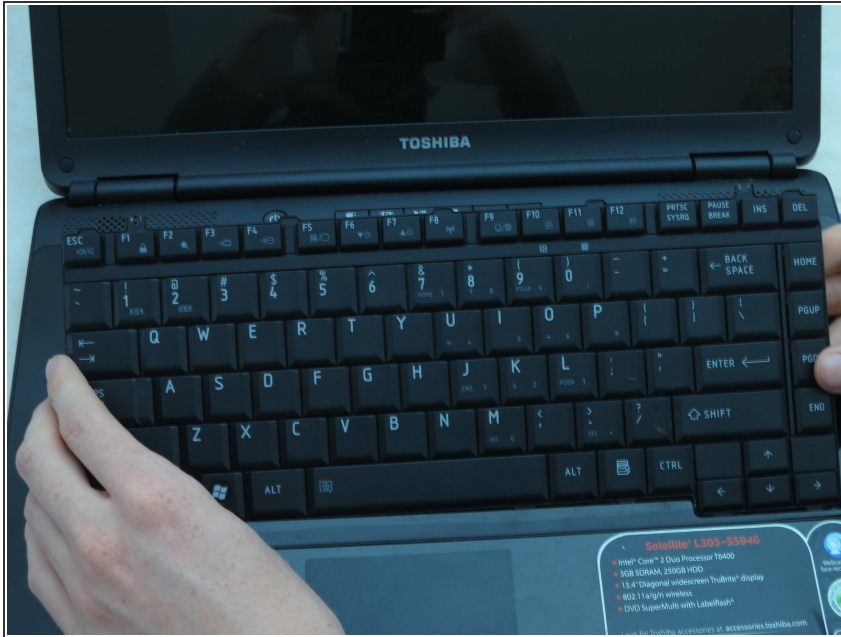
i These are not captive panel screws and, once loosened, will be free to move about the assembly.

Step 14



- Pry the top of the keyboard loose from its casing using a plastic opening tool.

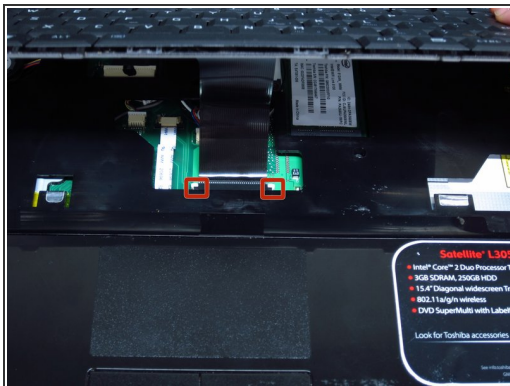
Step 15



- Gently grasp the top of the keyboard and pull it up and toward the screen.

⚠ CAUTION: Pulling too hard could damage the black ribbon cable under the keyboard.

Step 16



- Gently push the two tabs locking the black ribbon cable.
- To remove the black ribbon cable from the motherboard, slide the keyboard toward the screen.
- You may now safely separate the keyboard from the laptop.

Step 17 — Base Housing



- Place the laptop upside-down with the display hinges facing away from you.

Step 18



- For the following steps, use a Phillips #1 screwdriver.
- Remove the twelve 6-mm screws that border the bottom of the laptop.
- Remove the 6-mm screw located in the lower middle of the device.
- Remove the three 3-mm screws located in the battery bay.
- Remove the one 4-mm screw located near the RAM.

Step 19



- Place the laptop right-side-up so the screen faces you.

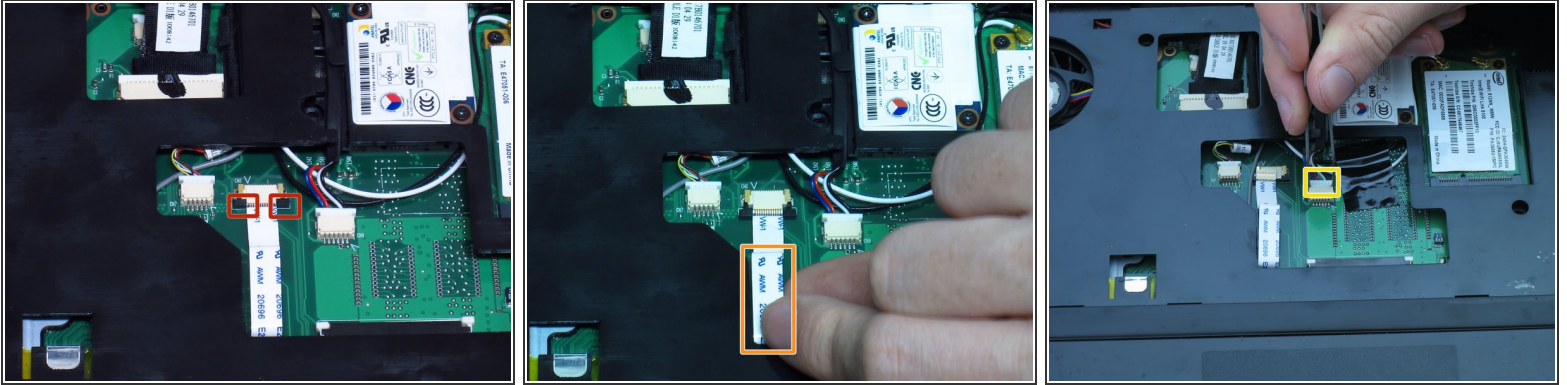
Step 20



⚠ CAUTION: do not allow hardware or debris into the CPU fan and duct.

- Use a Phillips #1 screwdriver to remove the five 6-mm screws in the keyboard slot.
- ⓘ These are not captive panel screws and, once loosened, will be free to move about the assembly.

Step 21



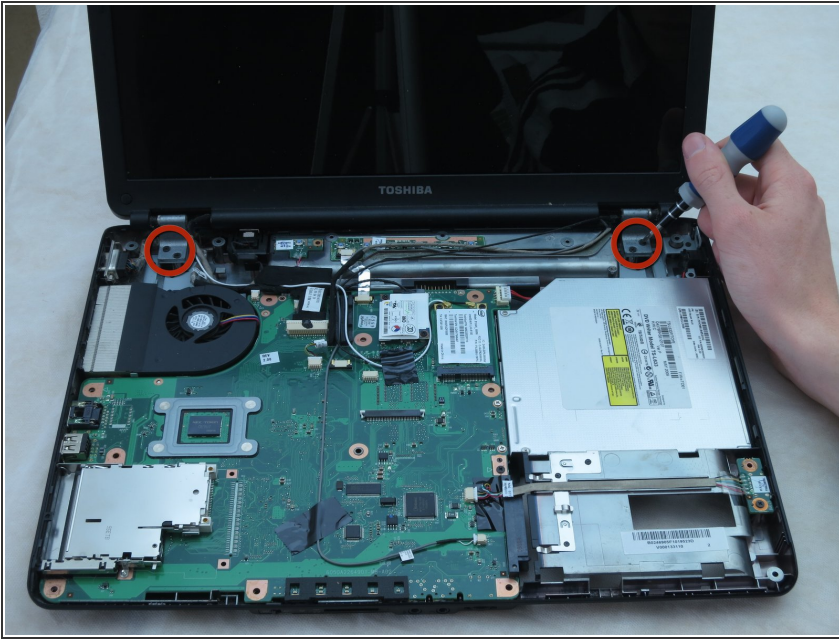
- Lock the white ribbon cable into place by gently pulling on the two black tabs.
- Remove the white ribbon cable by pulling it towards you.
- Remove the connector that has the blue, red, black, and white wires using tweezers.

Step 22



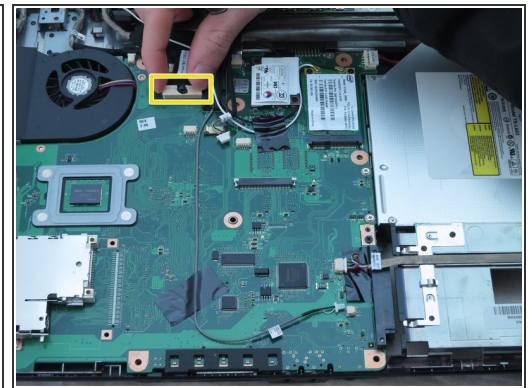
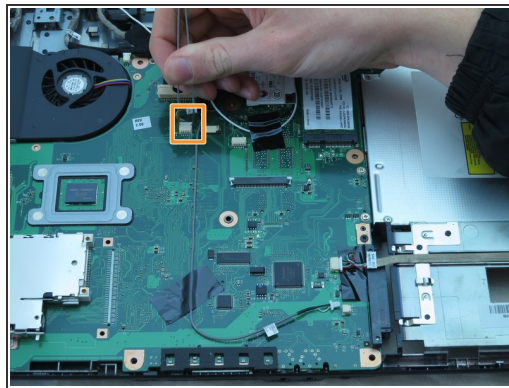
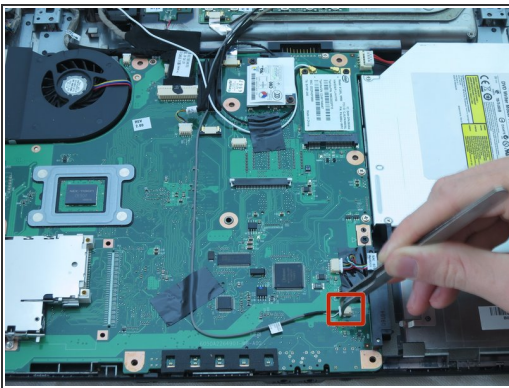
- Separate the laptop upper casing from the lower casing by using an opening tool around the sides of the case to pry it apart.

Step 23 — Motherboard



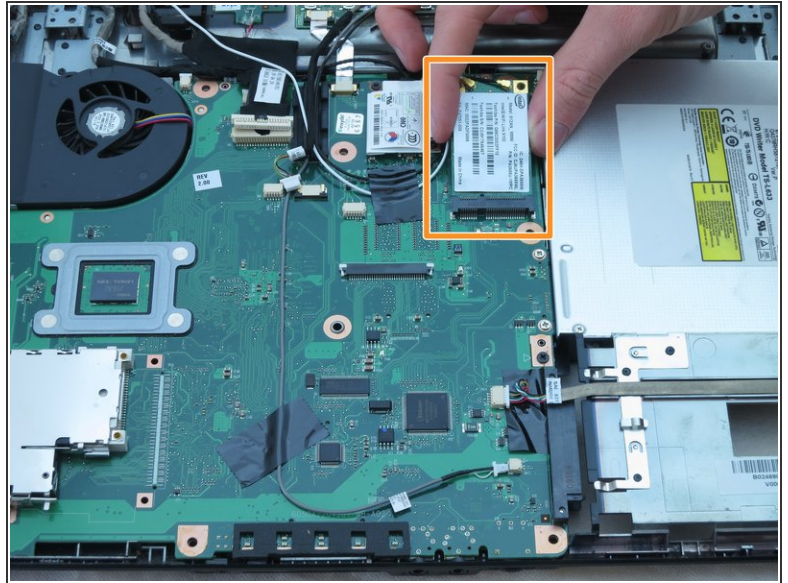
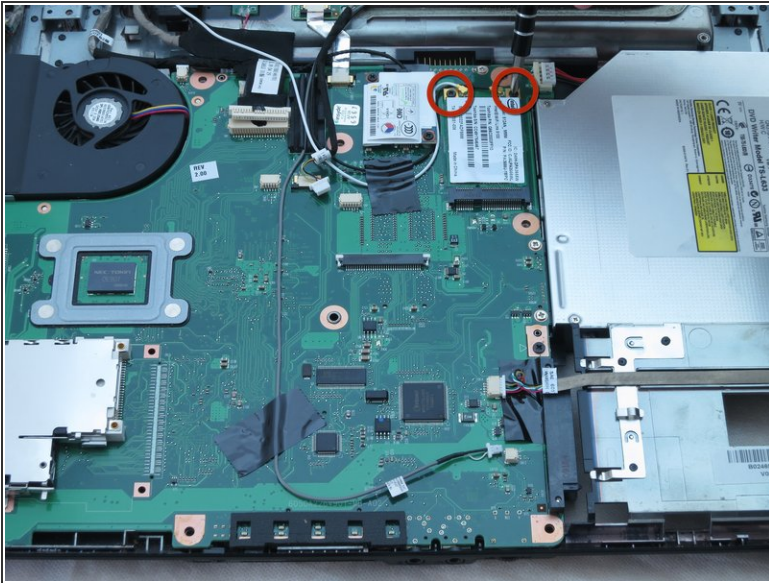
- Remove the four 6-mm screws from the two hinge pads using a Phillips #1 screwdriver.

Step 24



- For the following steps, use tweezers:
 - Remove the connector equipped with the black and white wire.
 - Remove the connector equipped with the black, green, red, yellow, and white wires.
- Using your fingers, remove the large connector located at the top right corner of the motherboard, as shown.

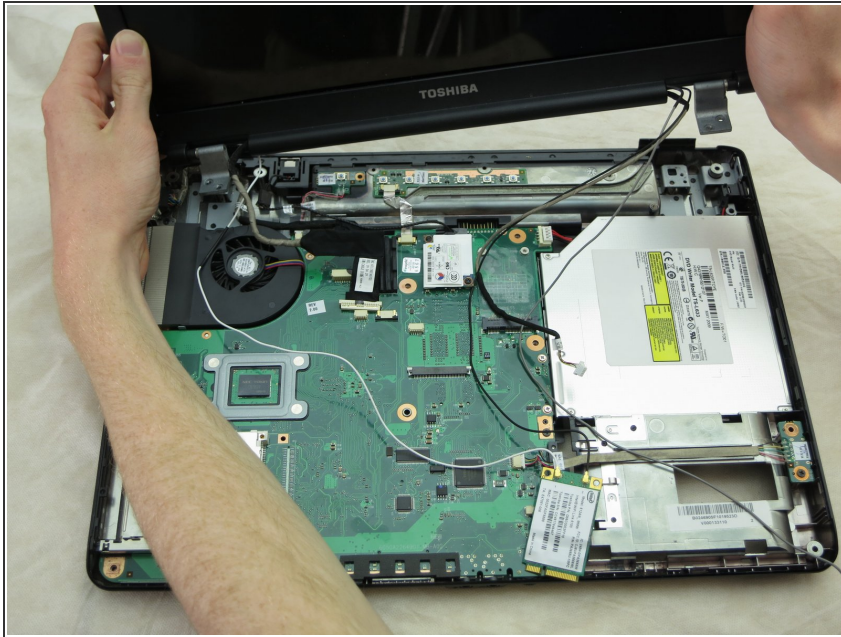
Step 25



⚠ CAUTION: do not allow hardware or debris into the CPU fan and duct.

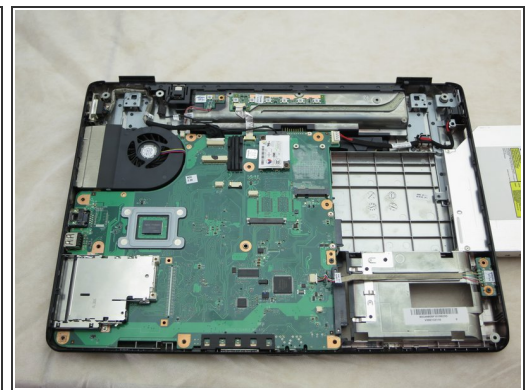
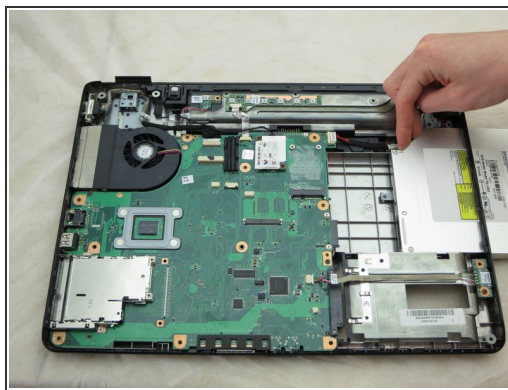
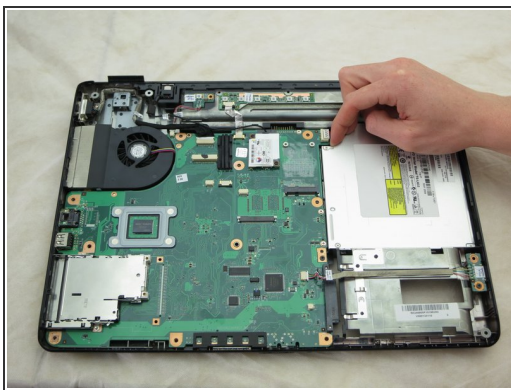
- Remove the two 3-mm screws from the card equipped with black and white wires by using a Phillips #00 or Phillips #1 screwdriver.
- ⓘ These are not captive panel screws and once loosened will be free to move about the assembly.
- Gently remove the card with your fingers.

Step 26



- Remove the display assembly and put it aside.

Step 27



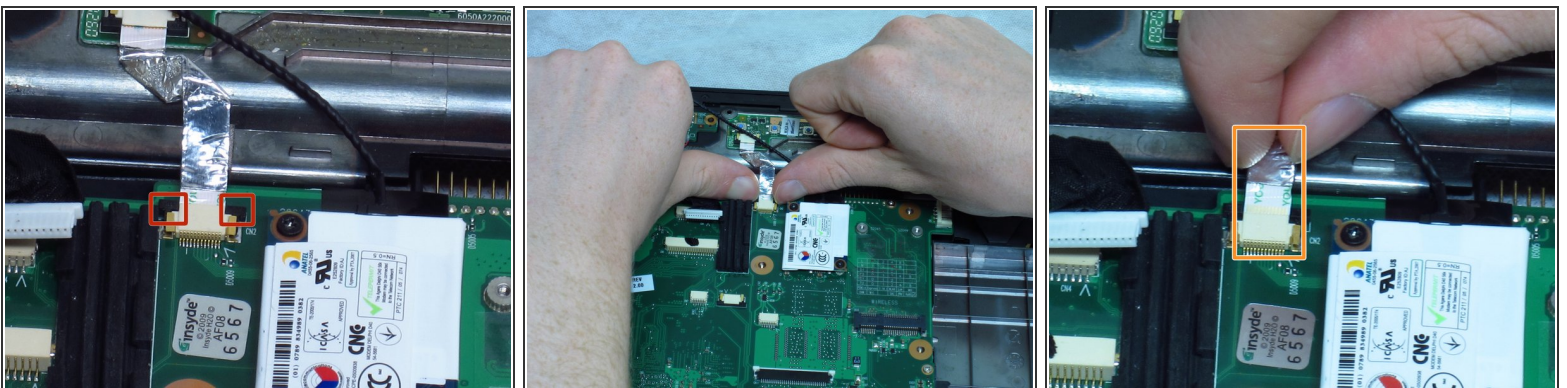
- Slide the DVD out of the opening on the right using your fingers.

Step 28



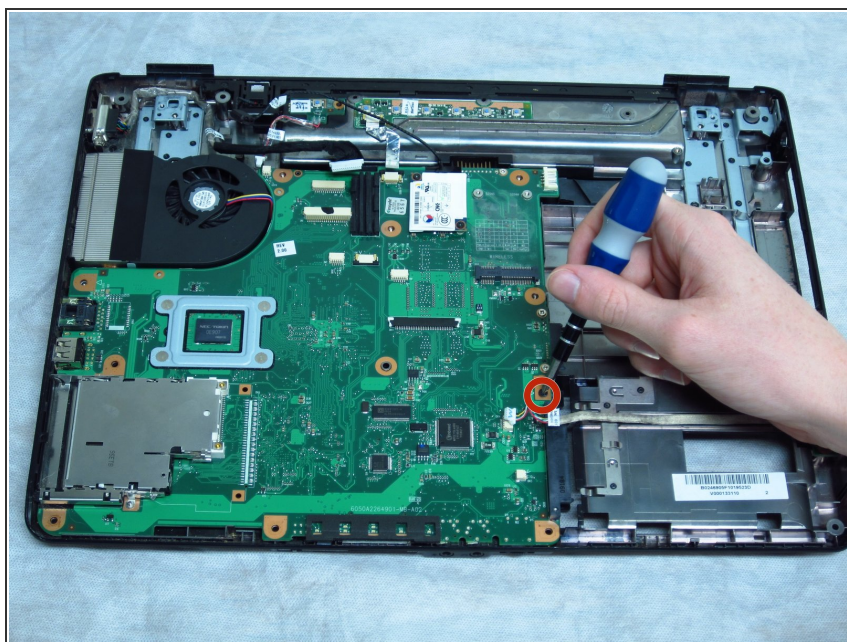
- Remove the power jack connector.
- Remove the connector equipped with one red wire and one black wire.
 - ⓘ This connector may be hidden beneath a cooling fan wire.
- Remove the connector equipped with red, yellow, green, white, and black wires.
- Remove the large connector near the fan.
- Remove the power jack cable and socket from its housing by pulling gently.

Step 29



- Gently push the two black tabs until they stop moving.
- Remove the silver ribbon cable from the connectors by pulling gently.

Step 30

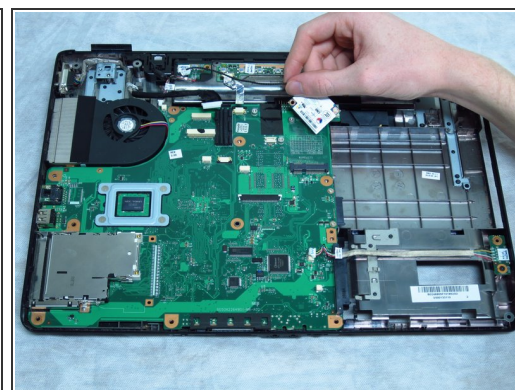
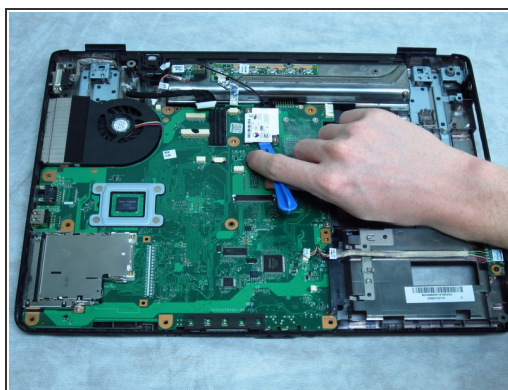
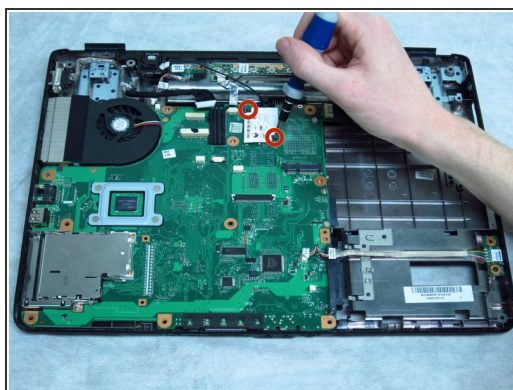


⚠ CAUTION: do not allow hardware or debris into the CPU fan and duct.

- Remove the 6-mm screw near the hard drive using a Phillips #1 screwdriver.

i This is not a captive screw and, once loosened, will be free to move about the assembly.

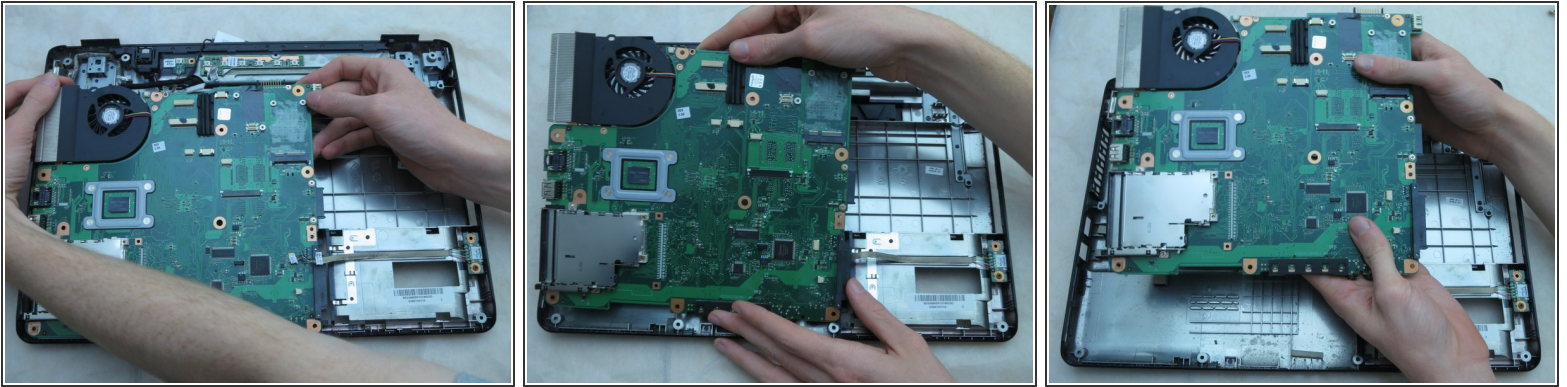
Step 31



- Remove the two 3-mm screws from the card connected to the black wire using a Phillips #00 screwdriver.

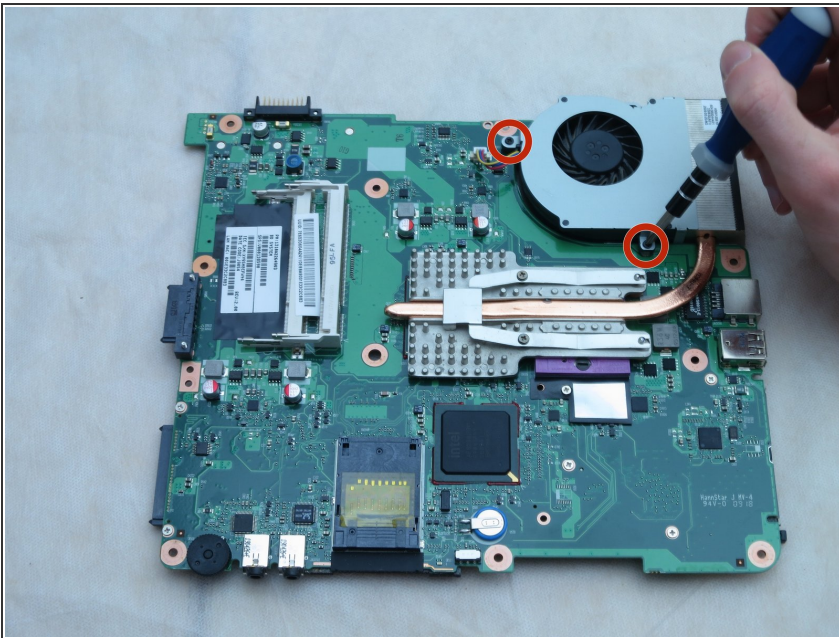
i These are not captive screws and, once loosened, will be free to move about the assembly.

Step 32



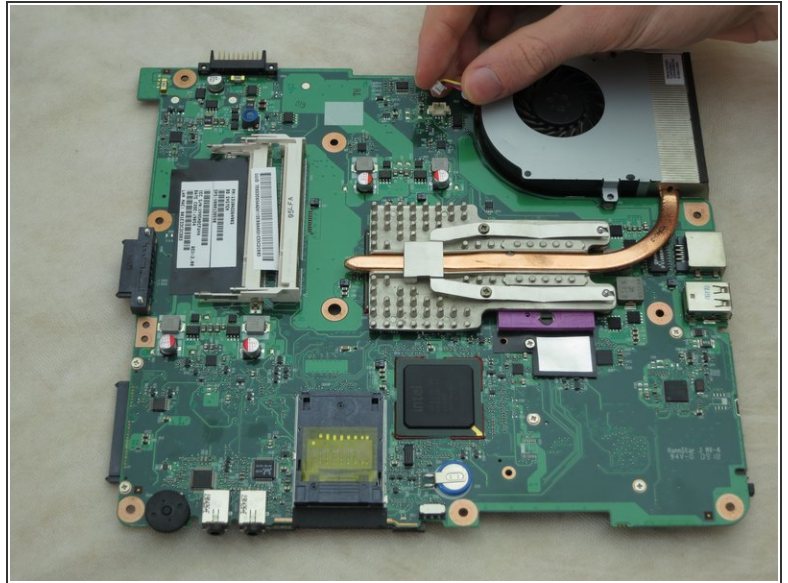
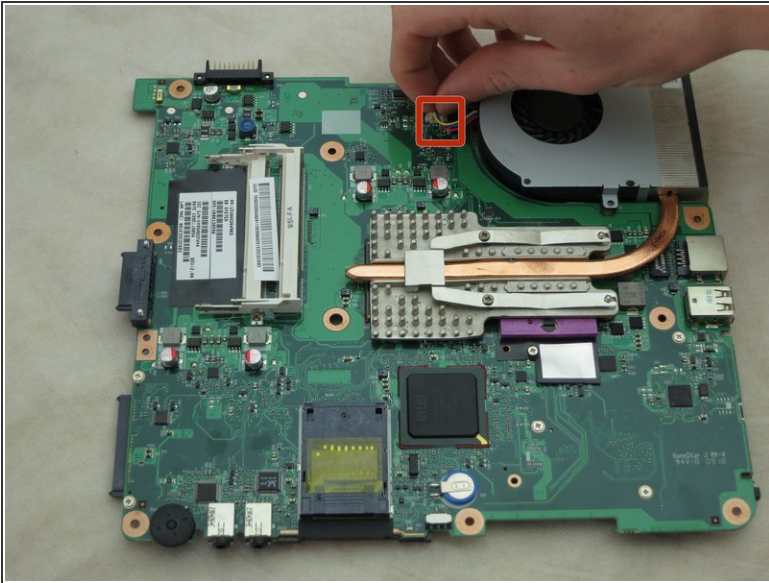
- Gently lift the top right side of the motherboard. Pull it upwards to the right and away from you.

Step 33 — Cooling Fan



- Flip the motherboard over. Remove the two 3-mm screws from the fan using a Phillips #1 screwdriver.

Step 34



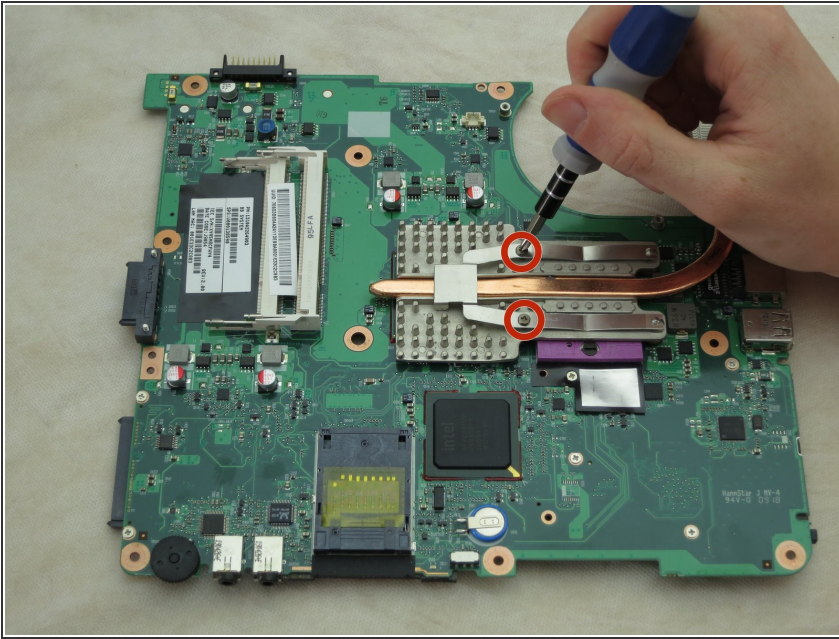
- Remove the housing equipped with red, blue, and yellow wires using your fingers.

Step 35



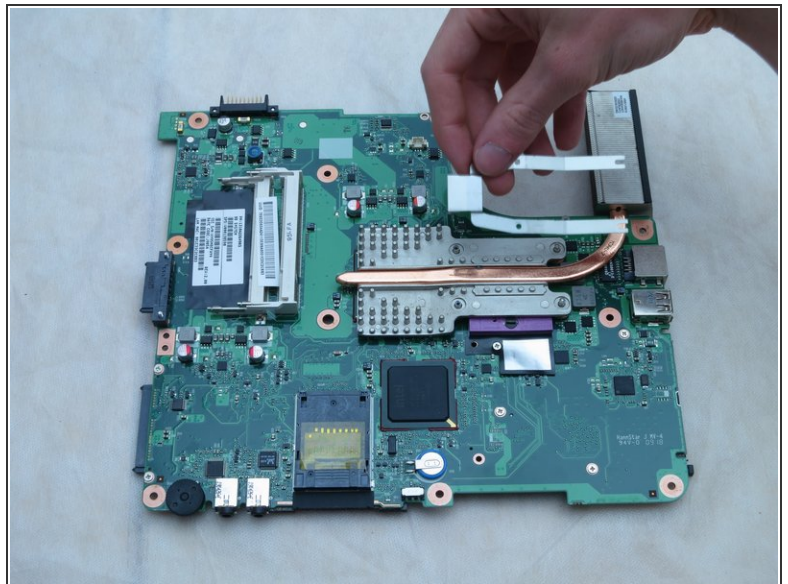
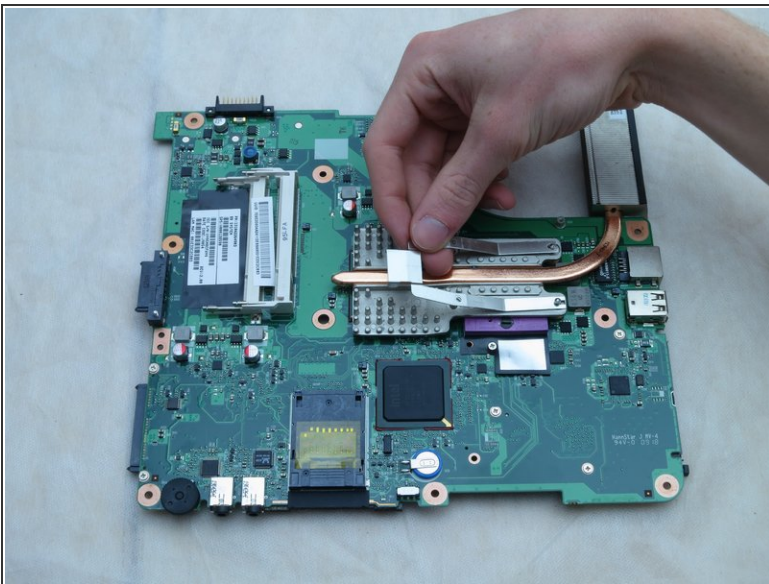
- Remove the fan from the heatsink using your fingers.

Step 36 — Processor



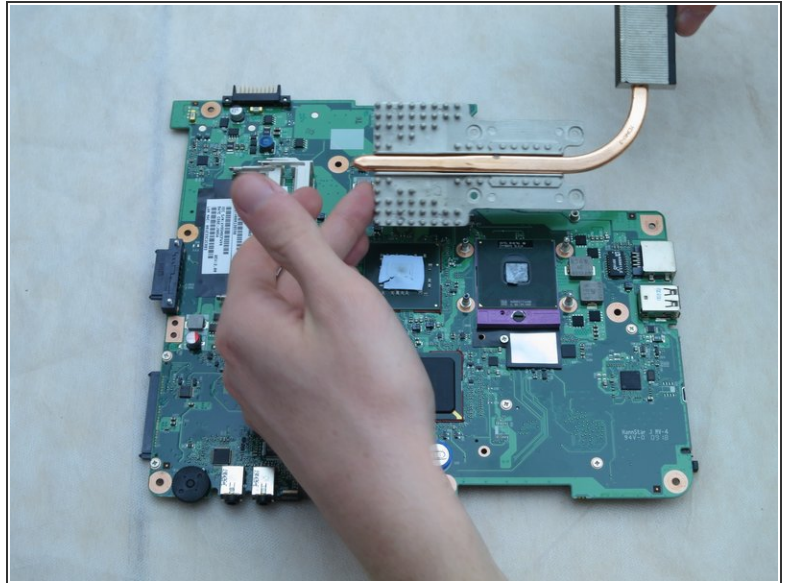
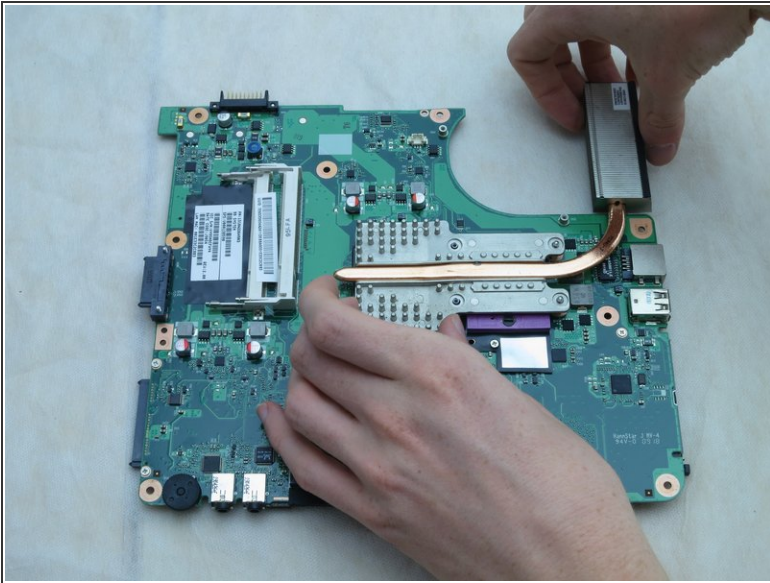
- Using a Phillips #1 screwdriver, remove the two 3-mm screws locking the heat sink in place.

Step 37



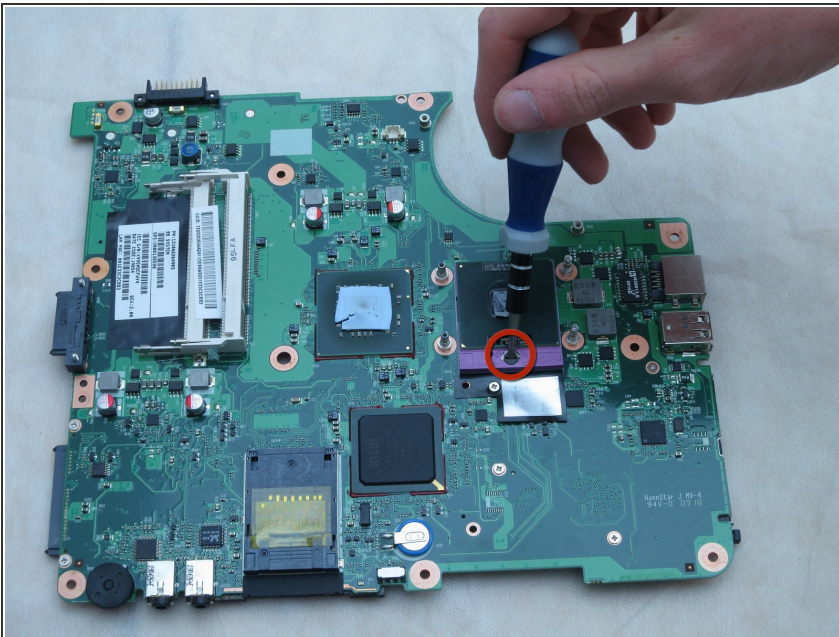
- Using your fingers, remove the flat piece of metal covering the heatsink.

Step 38



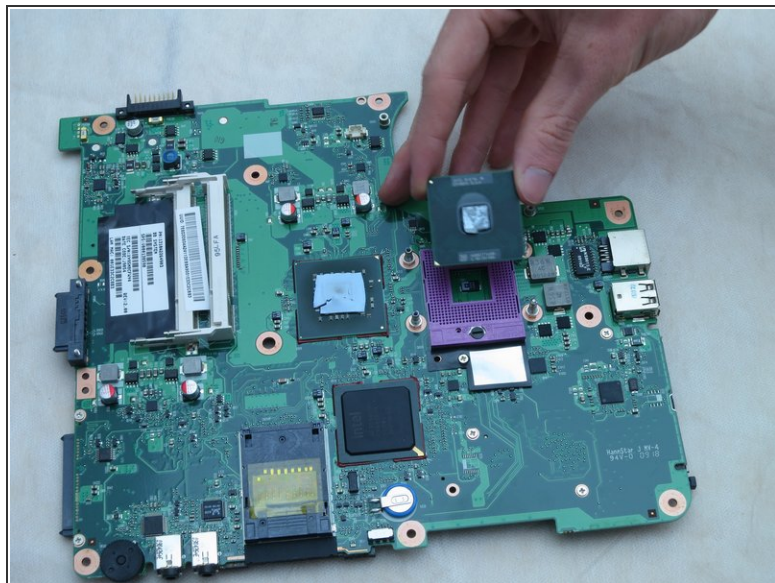
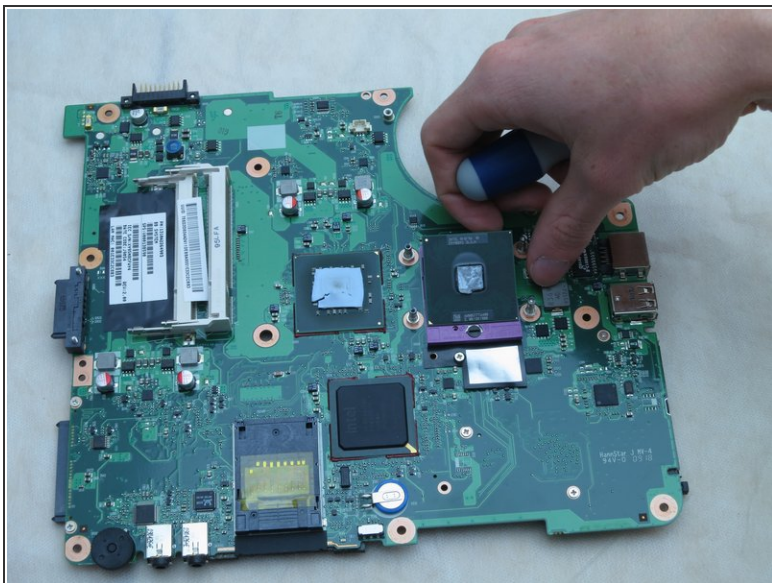
- Using your hands, lift the heatsink upward to remove it.

Step 39



- Using a 3-mm flathead screwdriver, remove the screw fastening the processor.

Step 40



- Using your fingers, remove the processor.

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