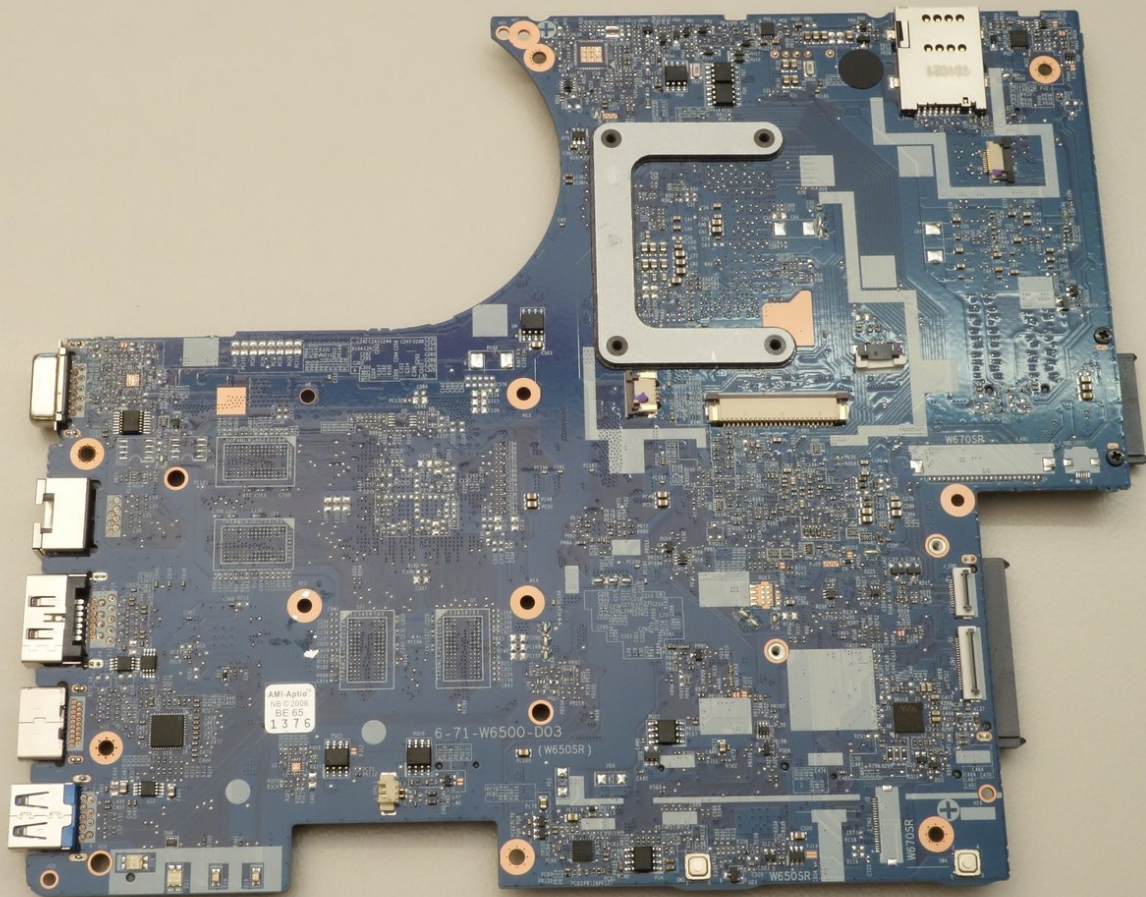




why! W650SZ Motherboard Replacement

Written By: Felice Suglia



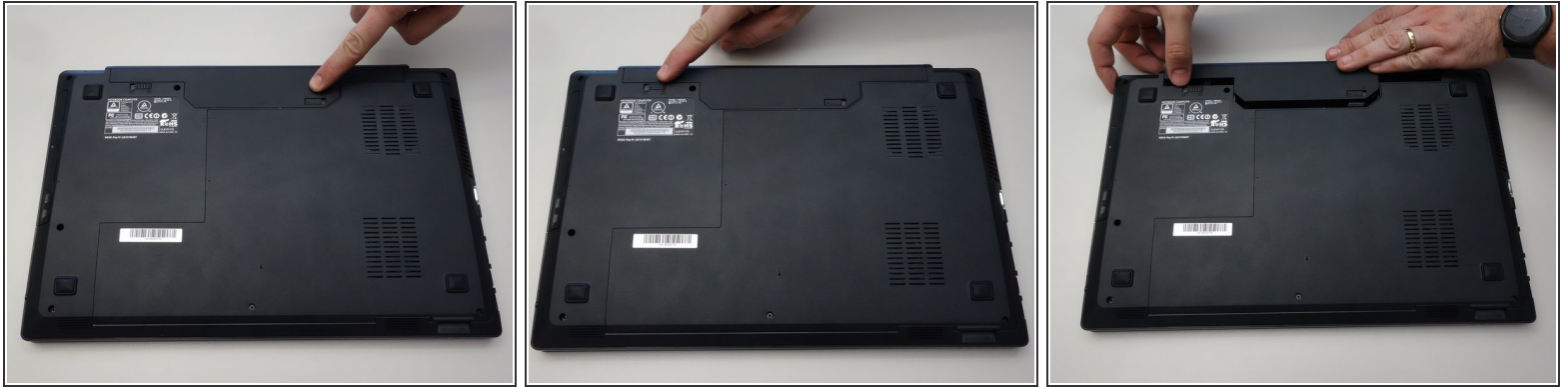
**TOOLS:**

- [Phillips #0 Screwdriver](#) (1)

**PARTS:**

- [Pièces détachées pour W650SZ CH](#) (1)
- [Pièces détachées pour W650SZ EU](#) (1)

Step 1 — Battery



- Slide the latch on the right to the unlocked position.
- Slide the latch on the left to the unlocked position.
- Remove the battery pack from the slot.

Step 2 — why! W650SZ Bottom Cover Replacement



- With your #0 Philips screwdriver remove the 2 screws from the bottom panel.
- Now you can remove the bottom cover.

Step 3 — Remove the CD/DVD Drive



- Locate the screw securing the CD/DVD drive.
- Remove the Phillips screw securing the drive.
- Remove the CD/DVD drive by simply sliding it out from the chassis.

Step 4 — Remove the Hard Drive



- Lift out the plastic tab (including the rubber part that holds the HDD in its slot).
- Slide the drive to the left to disengage the connector then lift to remove the HDD from its SATA3 port.

Step 5 — Remove the Solid State Drive (SSD)



- Using a Philips screwdriver #0, remove the screw securing the SSD.
- Lift the end of the SSD slightly and pull it straight out to remove it.

Step 6 — Remove the WiFi chipset



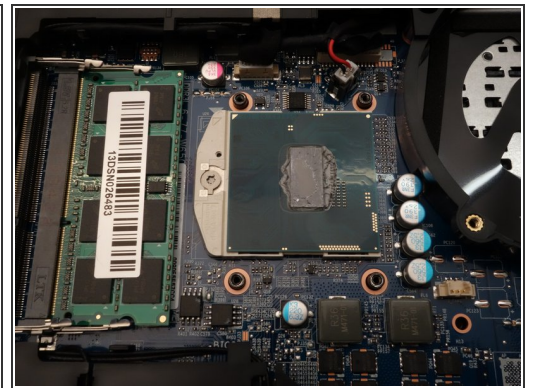
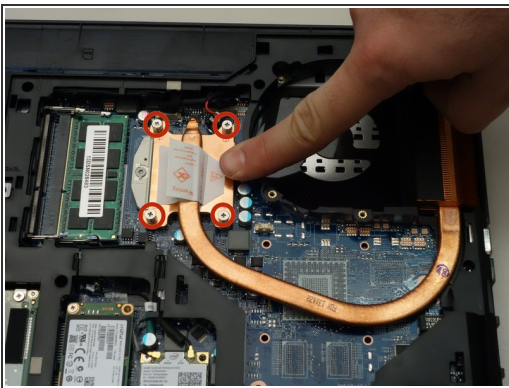
- Carefully unplug the MAIN and AUX antennas.
- Remove the retaining screw with a Phillips #0 screwdriver.
- Lift the chipset slightly and remove it from the connector.

Step 7 — Remove the Random Access Memory (RAM)



- Locate and separate the blade springs that hold the memory module in place.
- Remove the memory module (RAM).

Step 8 — Remove the Heat Sink



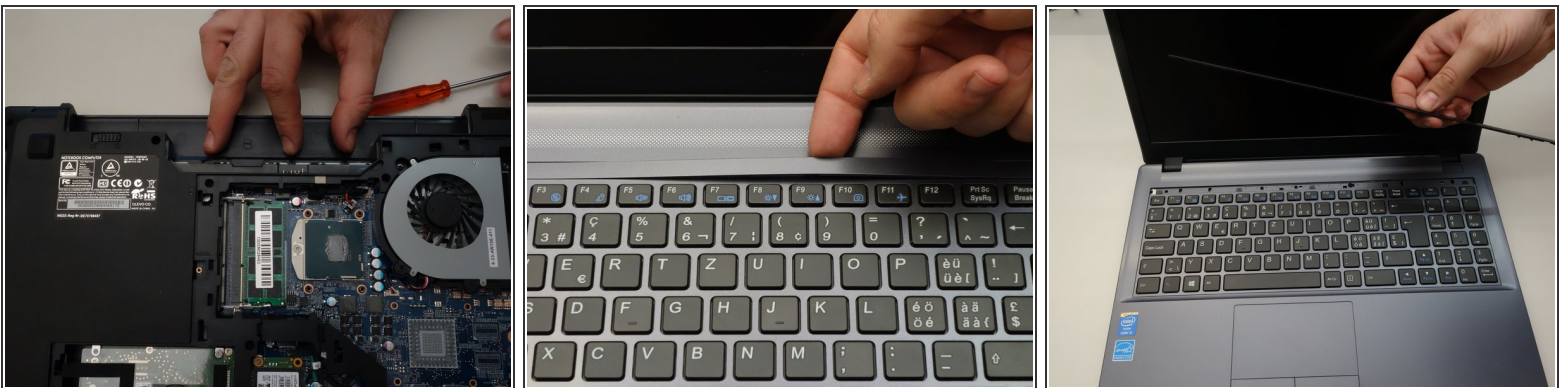
- Using a Phillips screwdriver, unscrew the four captive screws securing the heatsink to the motherboard.
- Remove the heatsink.
- The processor and its retention mechanism are now visible.

Step 9 — Remove the Processor



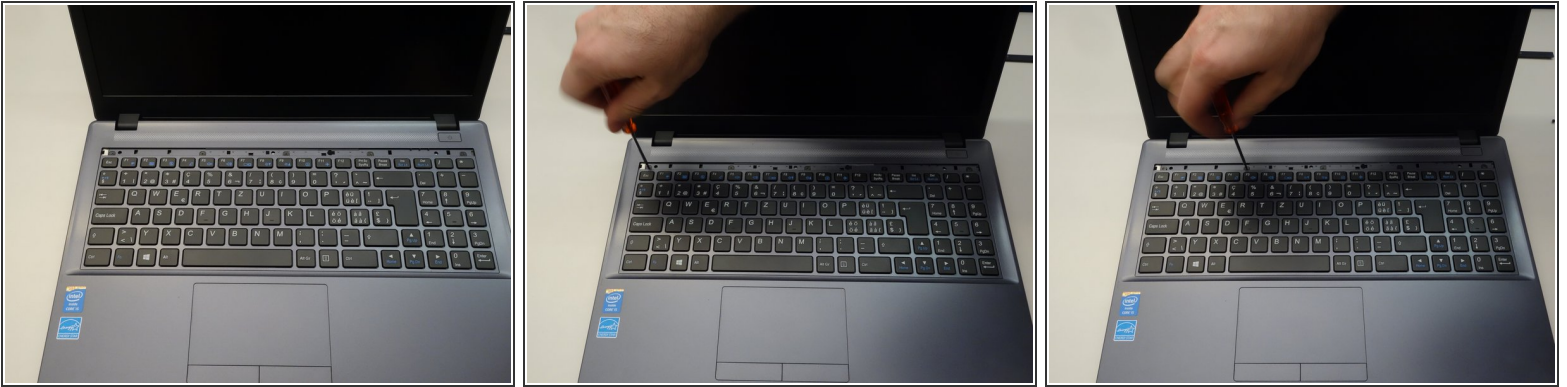
- Unlock the processor using a small Torx screwdriver by turning the lock 180 degrees counterclockwise
- Make sure the locking latch is pointing in the opposite direction.
- You can now carefully remove the processor from its socket.

Step 10 — Remove the Keyboard



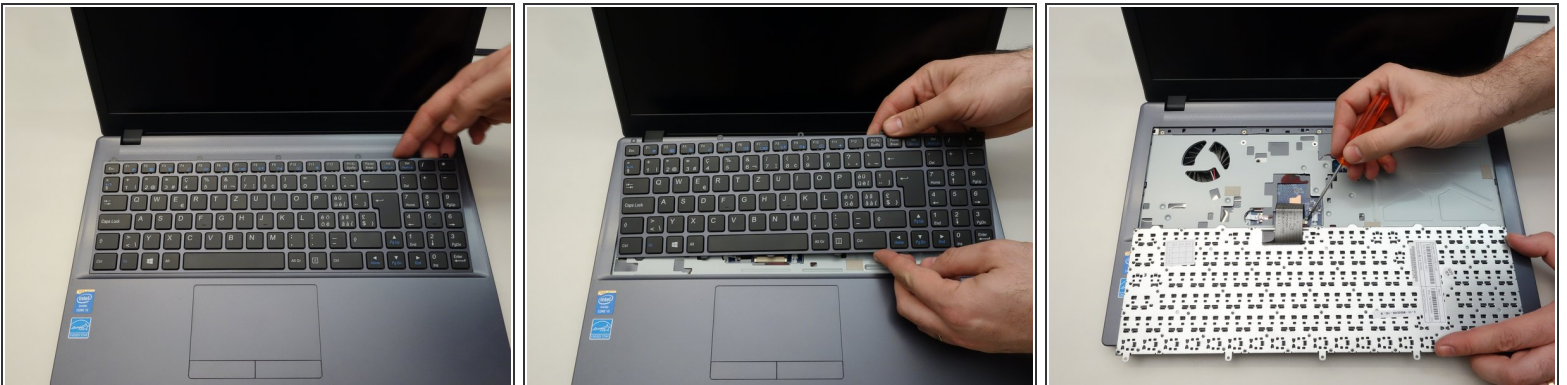
- Press gently at the points indicated to release the LED cover strip.
- Turn the laptop over, then lift the LED cover.
- Remove the LED cover.

Step 11 — Remove Keyboard Screws



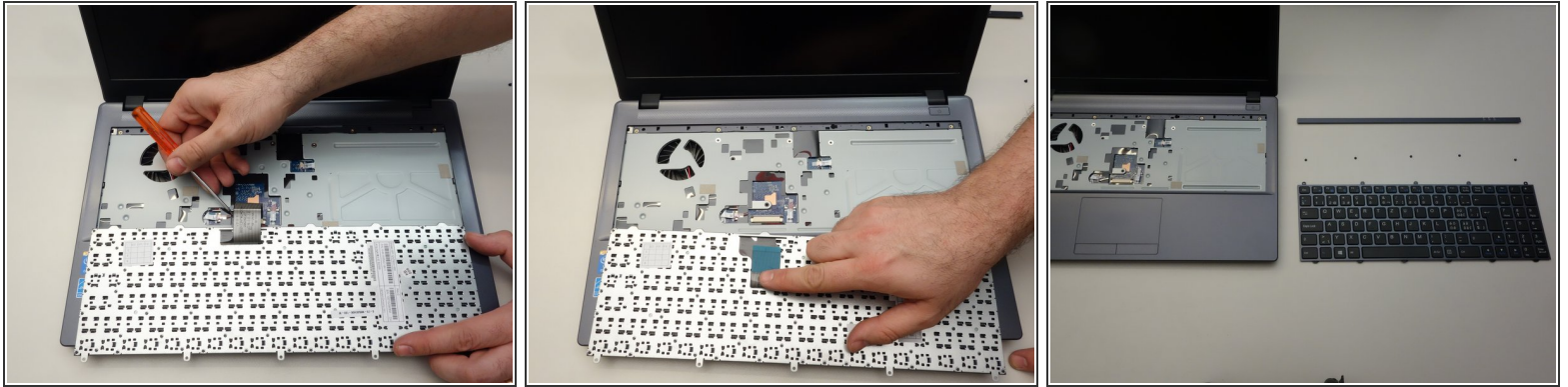
- The five screws that anchor the keyboard are now visible.
- Start by removing the first screw.
- Remove the remaining screws (2-5).

Step 12 — Dismount the Keyboard



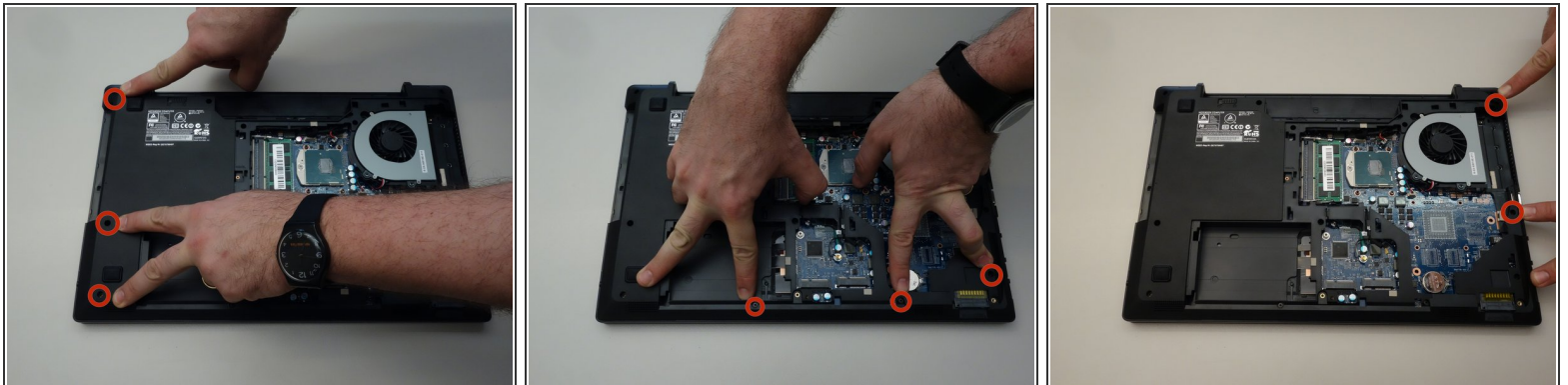
- Dismount the keyboard from the chassis.
- Flip the keyboard forward, taking care as it is still connected by a cable to the motherboard.
- Release the cable latch on the right side of the motherboard connector with a small flat blade screwdriver.

Step 13 — Remove the Keyboard



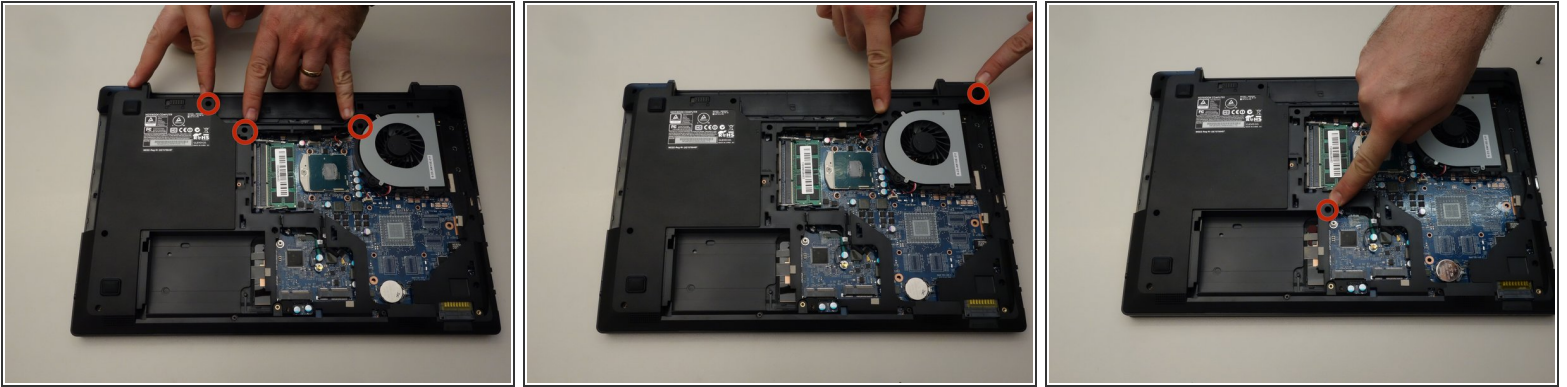
- Release the cable latch on the left side of the motherboard connector.
- Slide the cable straight out from its connector.
- Remove the keyboard.

Step 14 — Motherboard



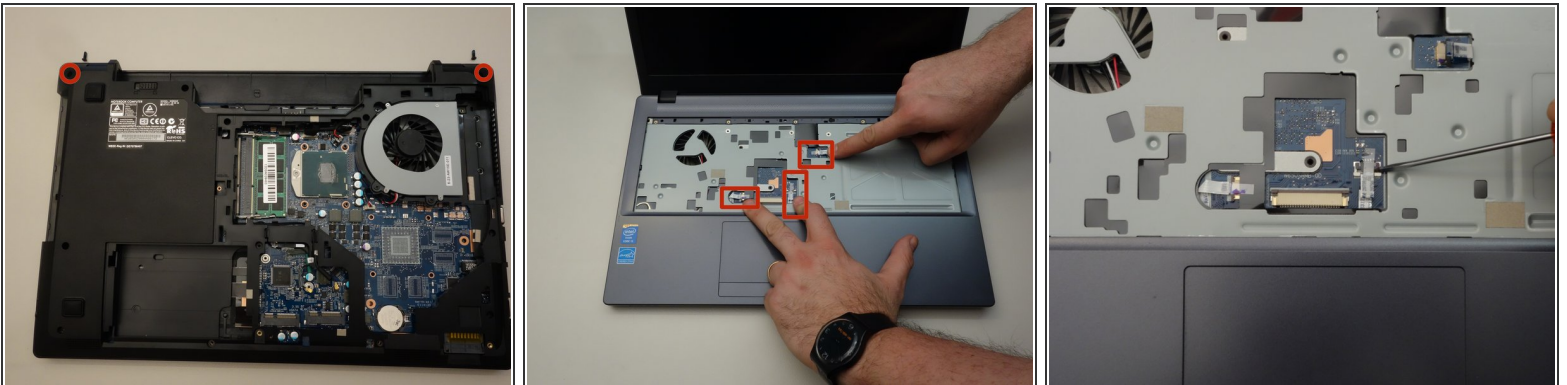
- To access the motherboard first remove the three screws as shown in the first image of this step.
- Remove the three screws as shown in the second image of this step.
- Remove the two screws as shown in the third image of this step.

Step 15 — Remove Mounting Screws



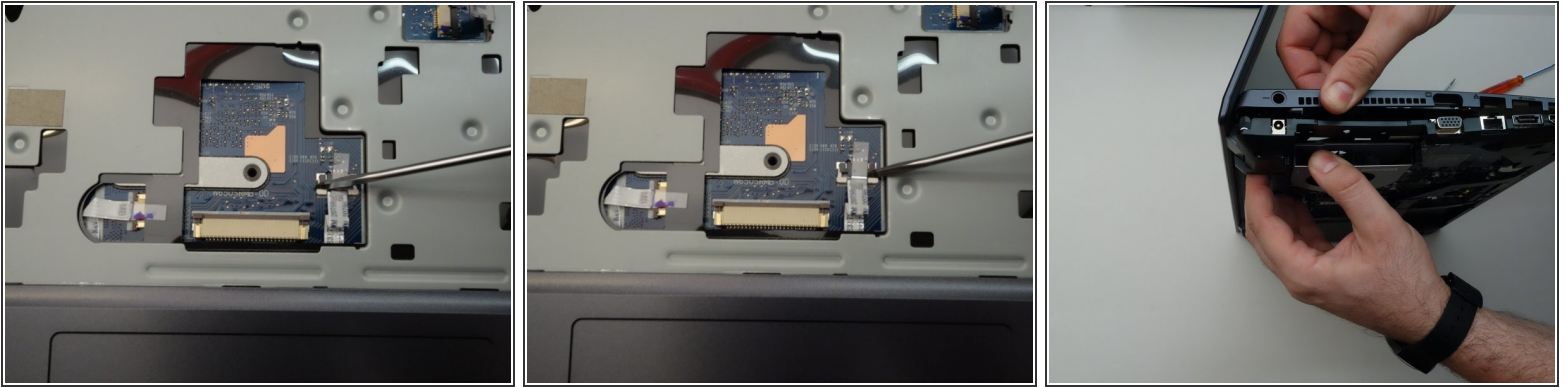
- Remove the three screws as shown in the first image of this step.
- Remove the screw as shown in the second image of this step.
- Remove the last screw as shown in the third image of this step.

Step 16 — Motherboard (continued)



- Of all the screws you just removed the two screws that are longer than the others correspond to the locations shown in the first image of this step.
- Flip the laptop over and locate the three connecting cables as shown in the second image of this step.
- Use a small screwdriver to release the latch on the right of the flat cable.

Step 17 — Disconnect Cables



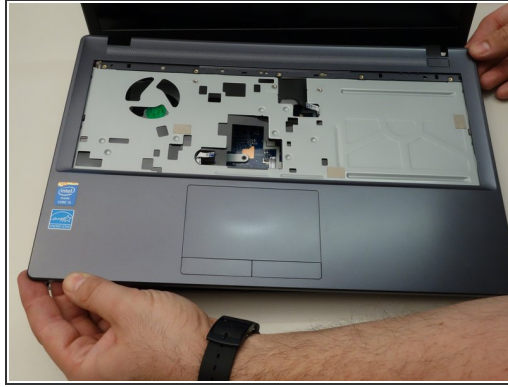
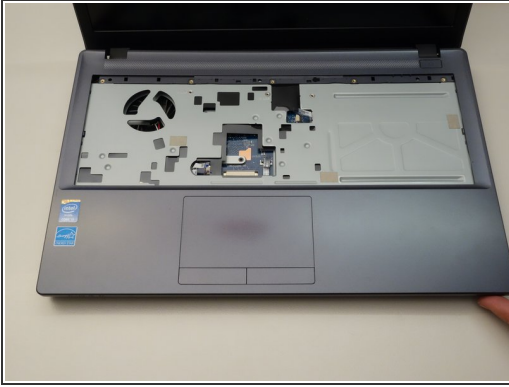
- Release the lock on the left side of the ribbon cable.
- Carefully remove the flat cable from its connector.
- Repeat for the other two ribbon cables before you start removing the motherboard top cover.

Step 18 — Remove the Top Cover



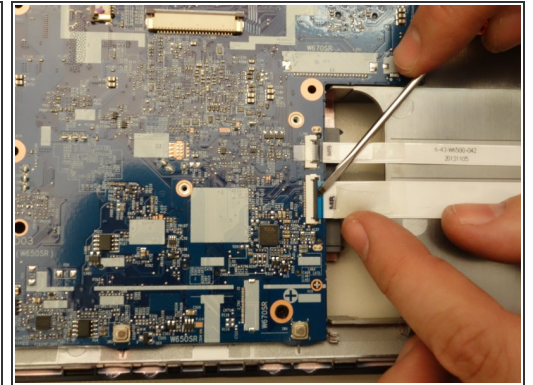
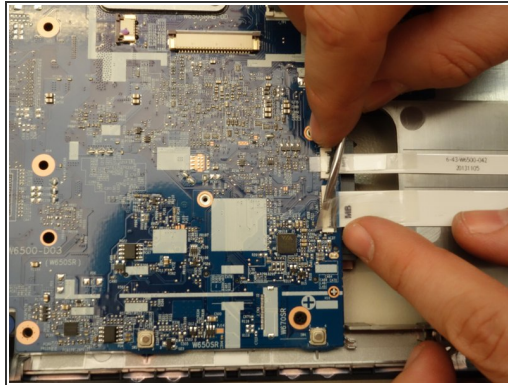
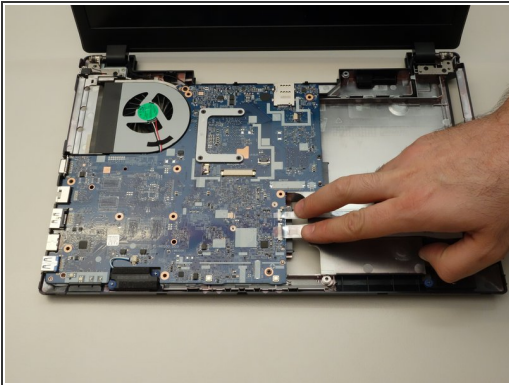
- To remove the motherboard cover, follow the steps shown in the three images in this step.

Step 19 — Remove the Top Cover (continued)



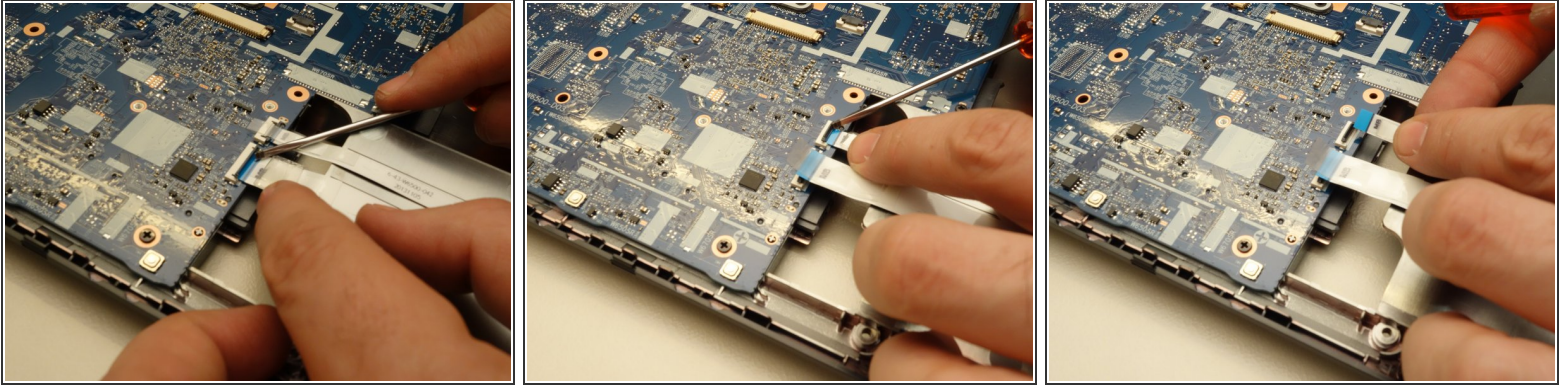
- Follow the steps shown in the first two images in this step.
- Once the top cover has been removed, you can now clearly see the motherboard.

Step 20 — Disconnect Ribbon Cables



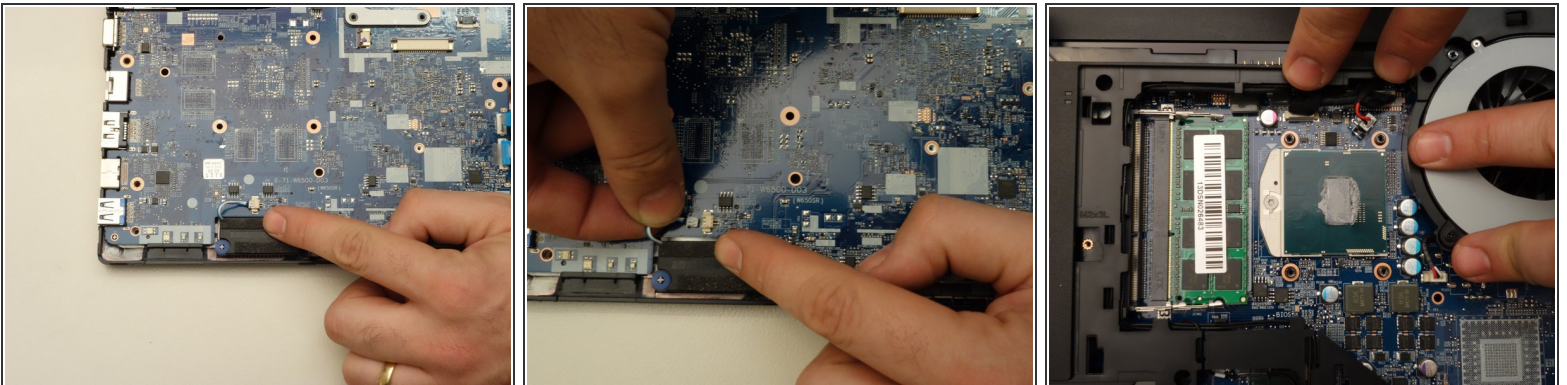
- Locate the two ribbon cables as shown in the first image of this step. These two ribbon cables must be disconnected from the motherboard.
- Release the latch on the first ribbon cable.
- Once the latch is released,...

Step 21 — Disconnect Ribbon Cables (continued)



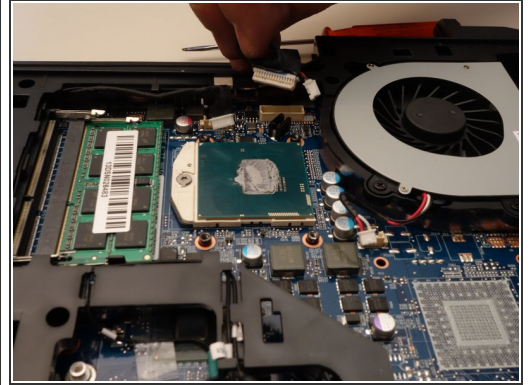
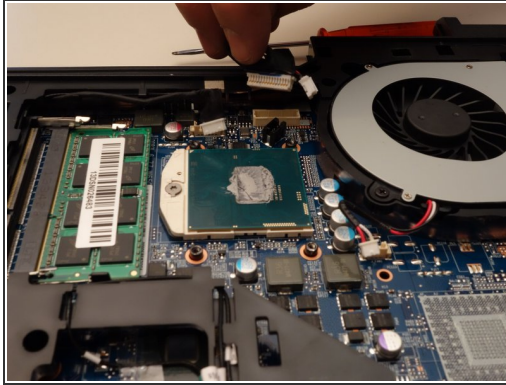
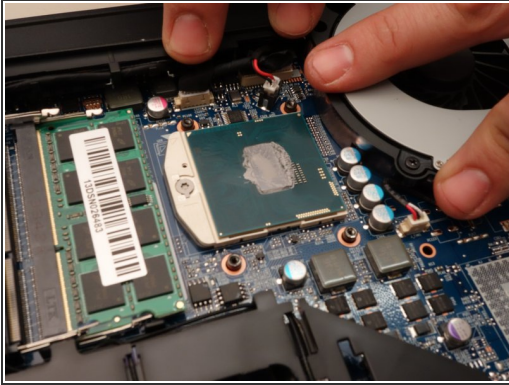
- ... carefully remove the ribbon cable.
- Unlatch the second ribbon cable.
- Remove it too.

Step 22 — Disconnect Cables (continued)



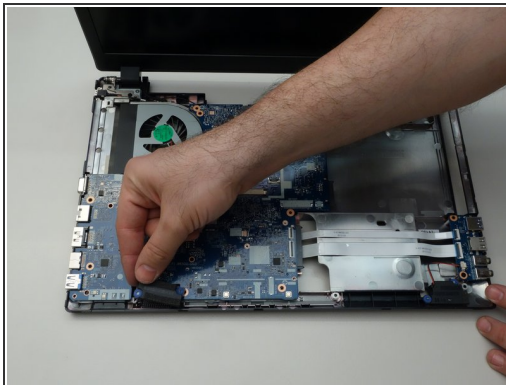
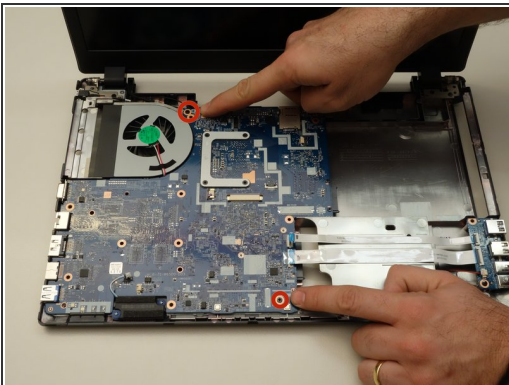
- Locate the motherboard connector pointed to in the first image of this step.
- Remove the connected cable.
- Locate the two motherboard connectors shown in the third image of this step.

Step 23 — Disconnect Cables (continued)



- Remove the first cable.
- Remove the second cable.

Step 24 — Remove the Motherboard



- Locate and remove the two screws securing the motherboard.
- Before lifting the motherboard, remove the speakers.
- Carefully remove the motherboard.

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