



Acer Aspire V5-571 Cooling System Replacement

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INTRODUCTION

How to disassemble the laptop, clean or replace the Cooling system or the Fan and change CPU Thermal Compound / Grease. This will help you if your system overheats or switch off randomly.

[video: <http://youtu.be/mrKPisD7H0U>]



TOOLS:

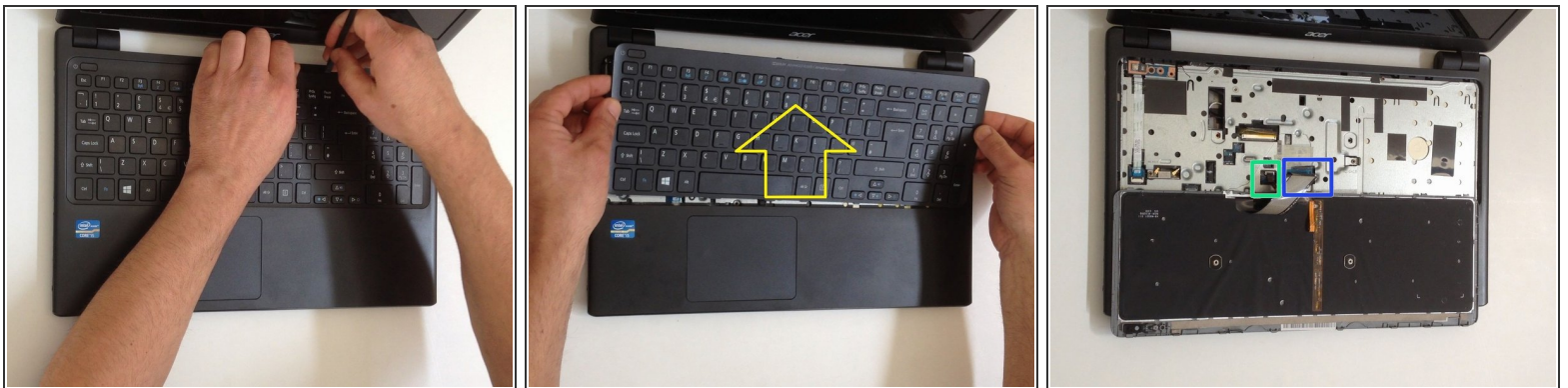
- [Phillips #0 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [iFixit Opening Picks set of 6](#) (1)
 - [Spudger](#) (1)
 - [Arctic Silver Thermal Paste](#) (1)
 - [Isopropyl Alcohol](#) (1)
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Step 1 — Keyboard



- Turn off the laptop and remove the battery.
- Remove two screws securing the Keyboard.
- The Keyboard is held by two locking clips, under the battery. Use the sharp tip of a plastic tool to release the keyboard.

Step 2



- Remove the Keyboard and disconnect the two flex cables:
 - Keyboard flex cable
 - Keyboard Light flex cable



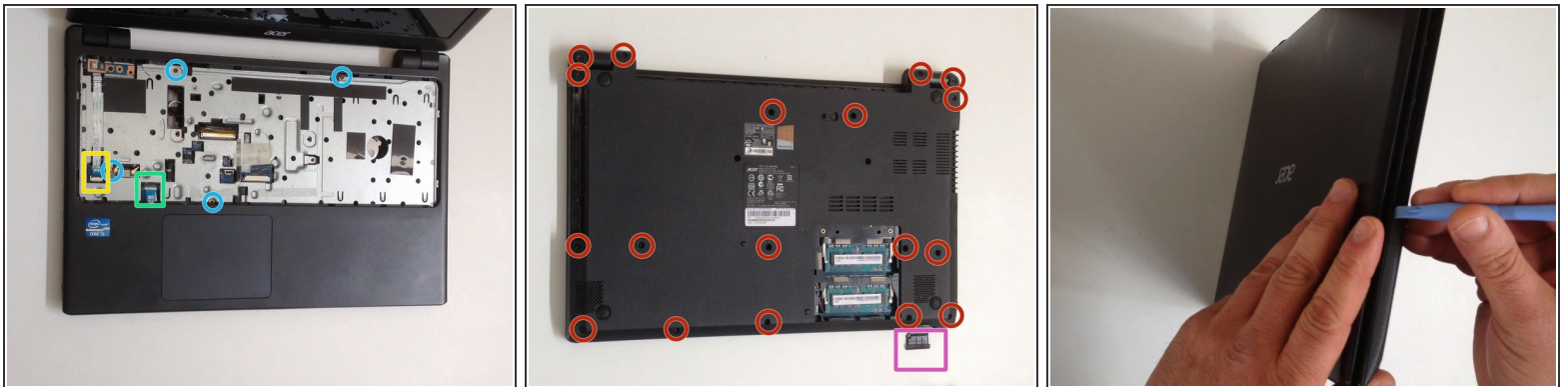
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Step 3 — Optical Drive



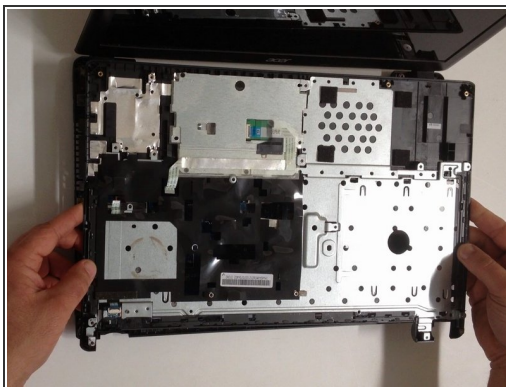
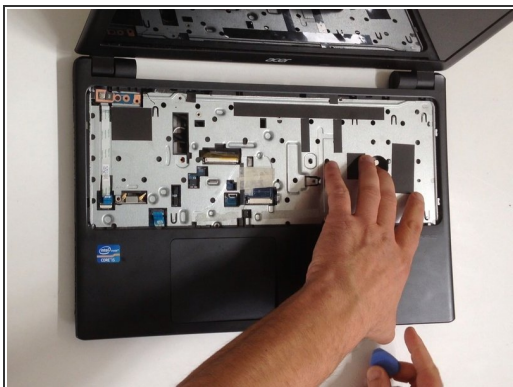
- Remove the screw securing the Optical drive and gently press the drive to show slightly as at the second pic.
- Slide the drive to the left and remove it.

Step 4 — Upper Cover



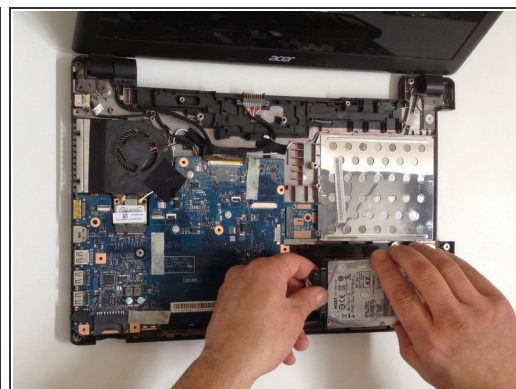
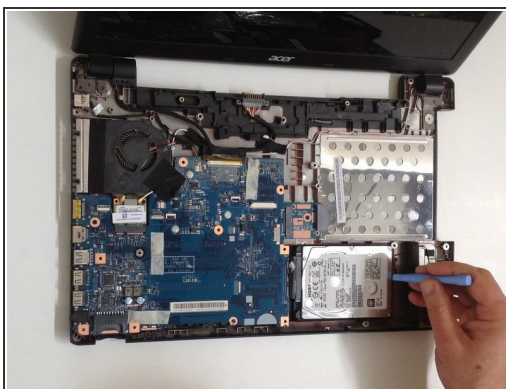
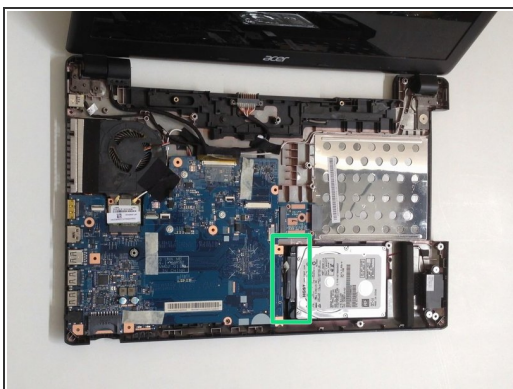
- Remove 4x phillips screws and disconnect:
 - Power On button flex cable
 - Touch pad flex cable
- Remove 18x Phillips screws from the bottom cover.
- Remove any memory SD Card from the Card reader.
- Start opening with a plastic opening tool.

Step 5



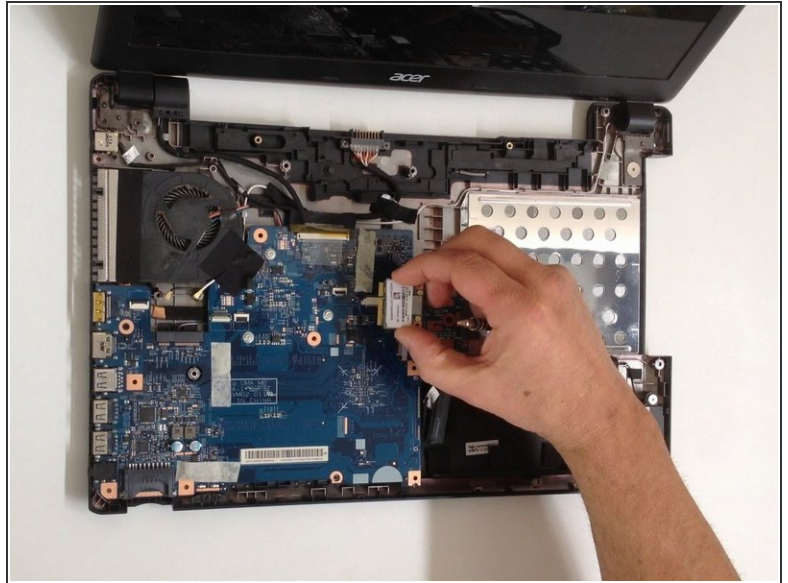
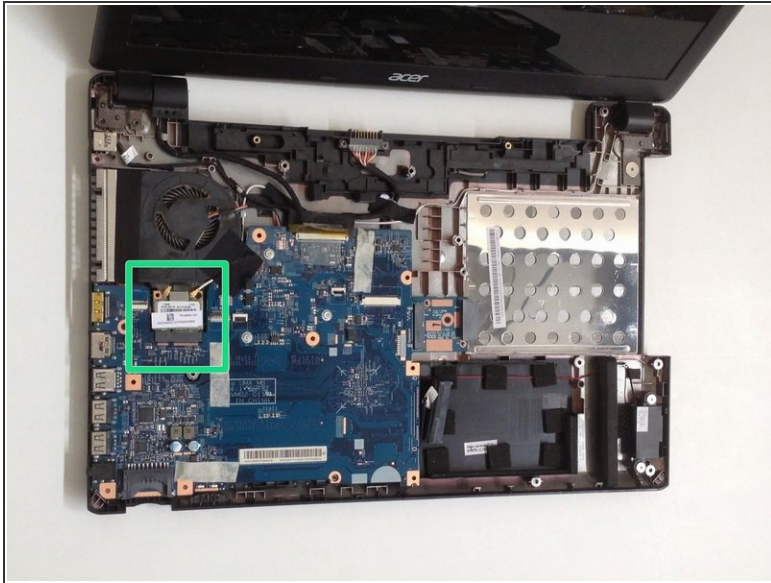
- Carefully separate the upper cover and remove it.

Step 6 — HDD (Hard Disk Drive)



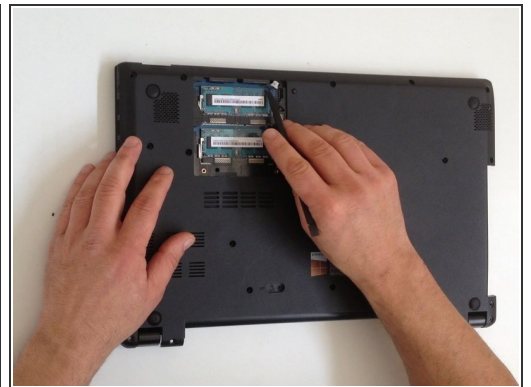
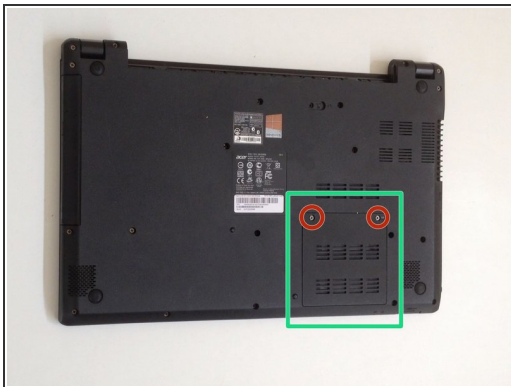
- Gently remove the HDD and disconnect the SATA cable from it.
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Step 7 — Wi-Fi Half Mini PCIe card



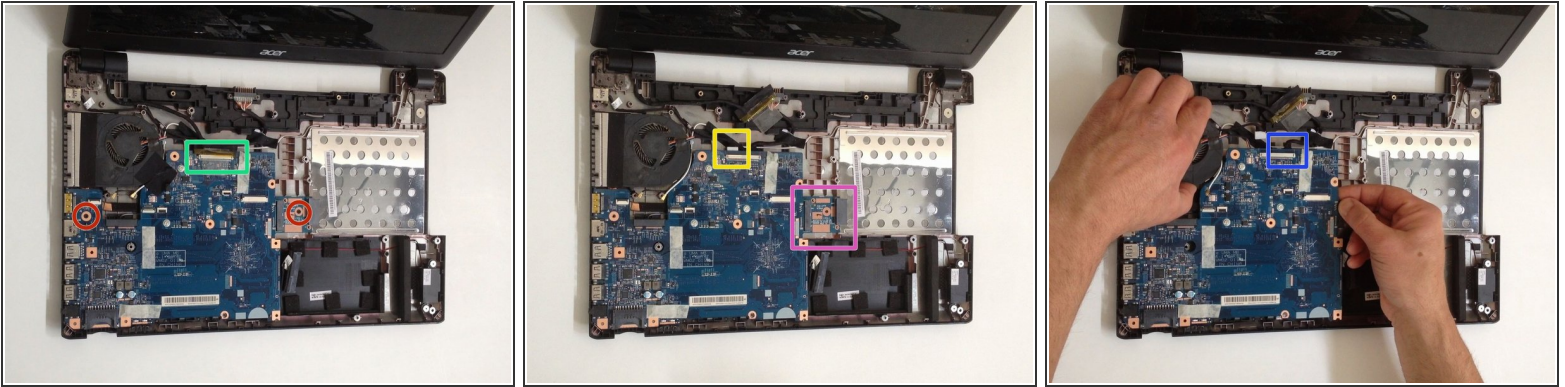
- Remove one Phillips screw, securing the WLAN card and disconnect the two coaxial antenna cables.
- Remove the Wi-Fi card.

Step 8 — Mother Board



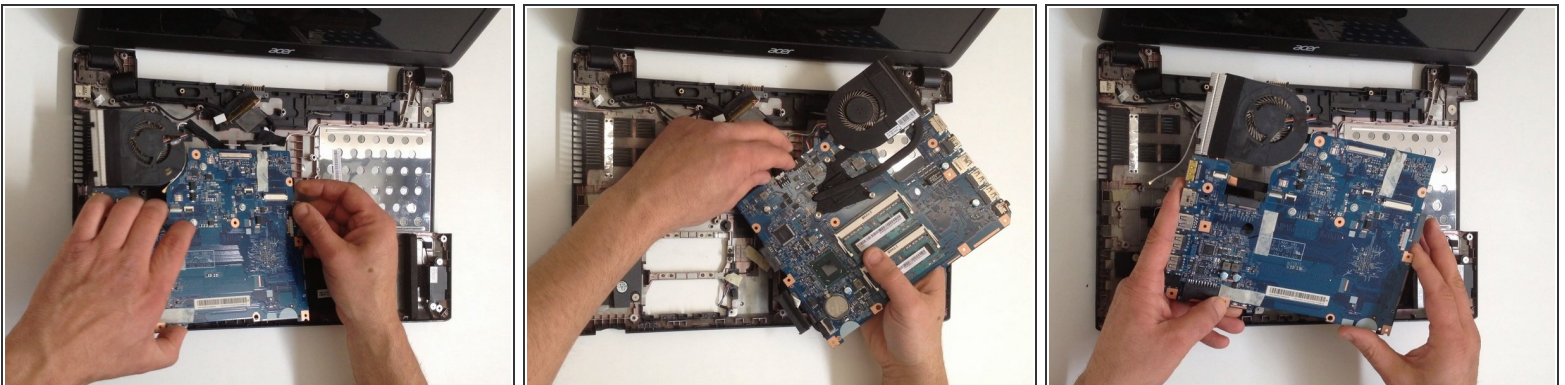
- Remove the Memory Cover.
- Disconnect the Loudspeaker cable connector.

Step 9



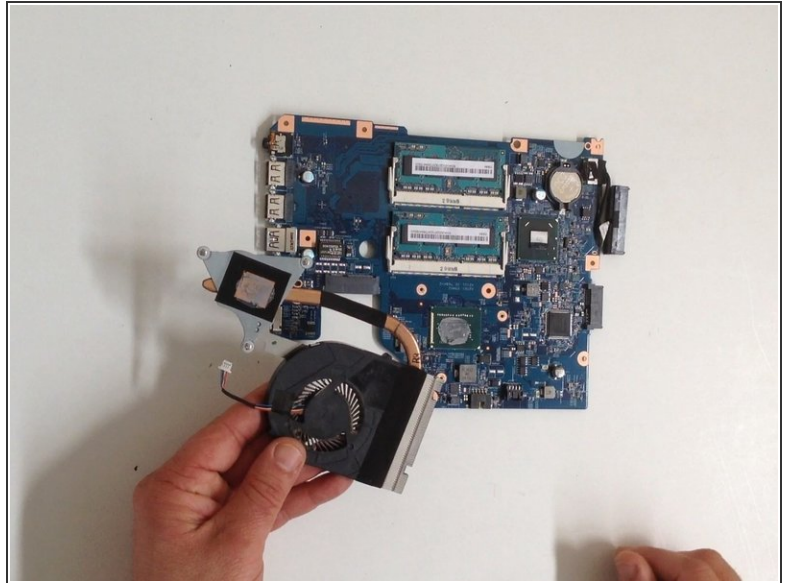
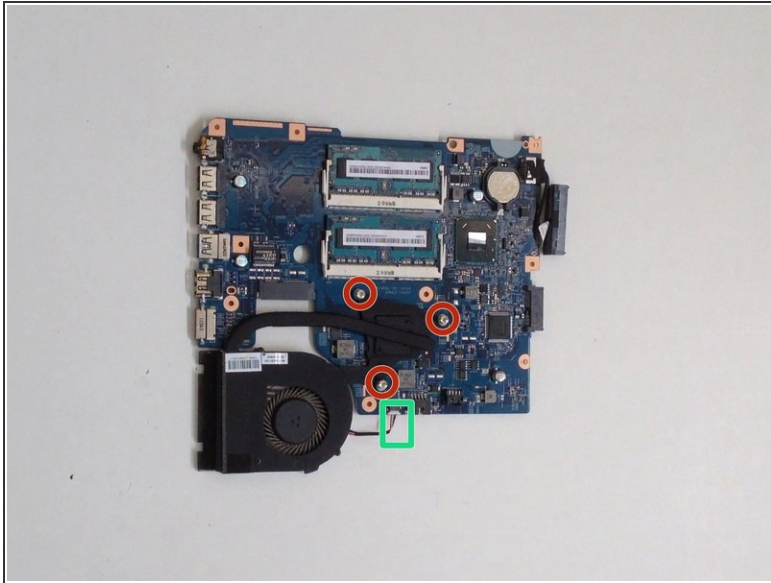
- Remove two Phillips screw from the Mother board and from the Optical drive SATA adapter.
- Disconnect the LCD Display flex cable.
- Disconnect the DC Jack cable.
- Carefully remove the Optical drive SATA adapter.
- We will disconnect the battery cable when we pick up the board.

Step 10



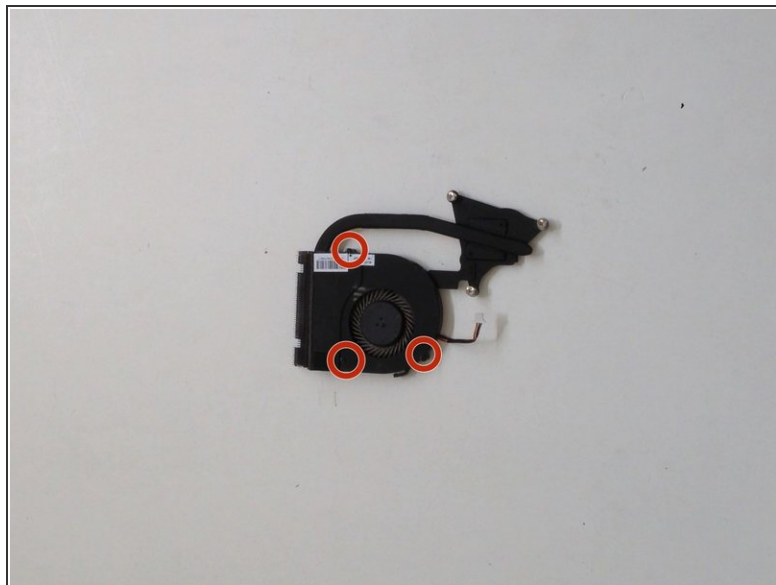
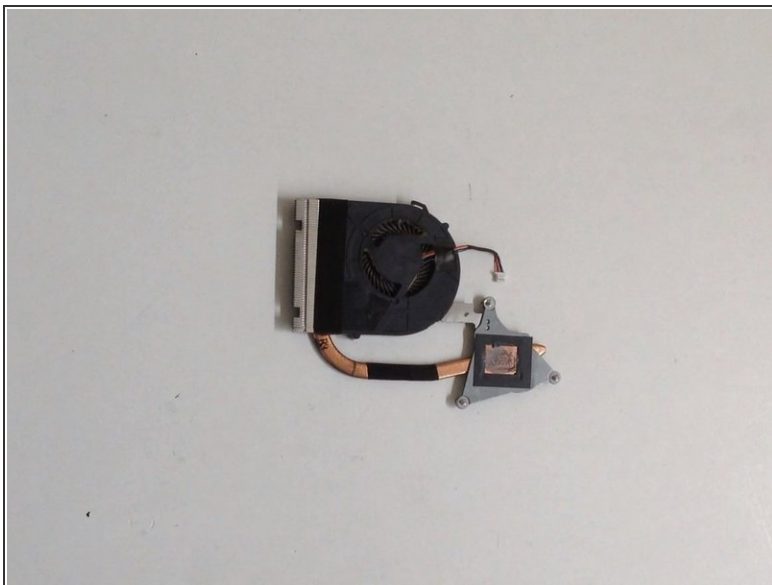
- Carefully pick up the Mother board and disconnect the Battery cable.

Step 11 — Cooling System and CPU Thermal Paste Replacement



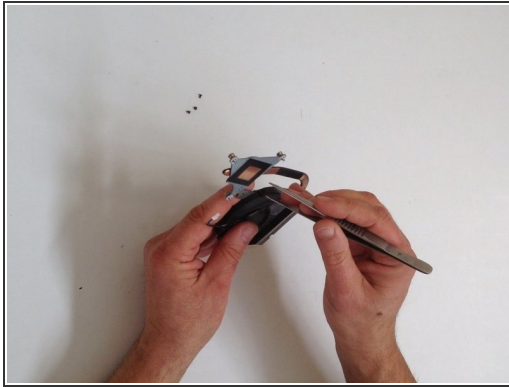
- Disconnect the Fan cable.
- Unscrew the screws that hold the Cooling system to the Mother board.
- Carefully lift the Cooling system right up.

Step 12



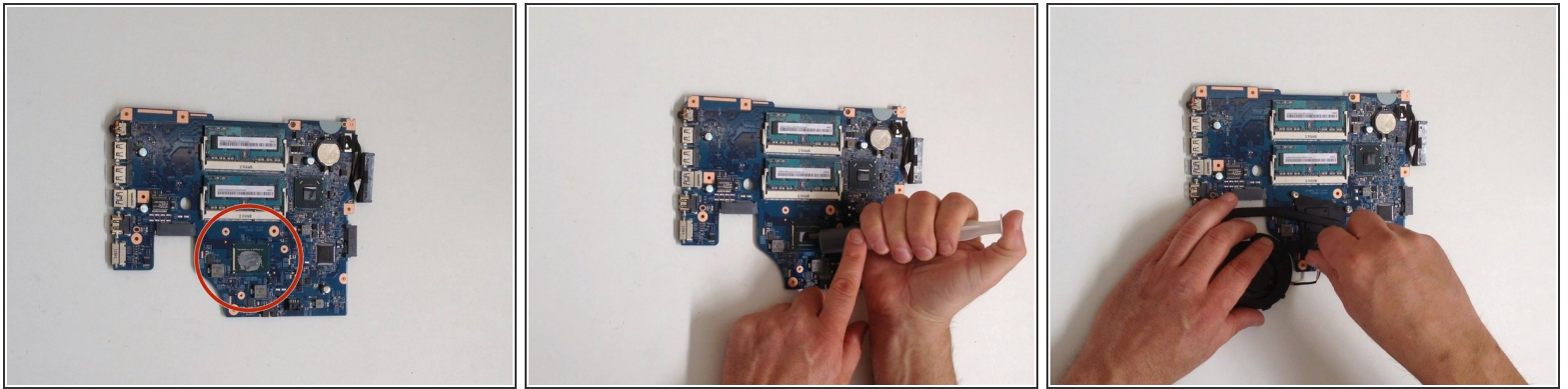
- Use a lint-free cloth to clean the old thermal compound.
- ⚠ If the thermal compound is solidified, you can use a flat end of any plastic tool to scrape it off.
- Use again cloth with isopropyl alcohol to clean the Thermal surface.
- Remove three Philips screws held the Fan shield.

Step 13



- Unstick the black tape that hold the Fan to the cooler.
- Unlock the clip and open the Fan case.
- ⓘ Use a soft brush and clean the Fan and the Cooler
- Close the Fan system.

Step 14



- Use the same technic to clean the surface of the processor from the old thermal compound

⚠ Be carefully, if you don't want to break the CPU.

- Dispense a small amount of thermal compound and gently smear it over the entire processor surface.
- .
- .
- .
- **Did you do it successful?**

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