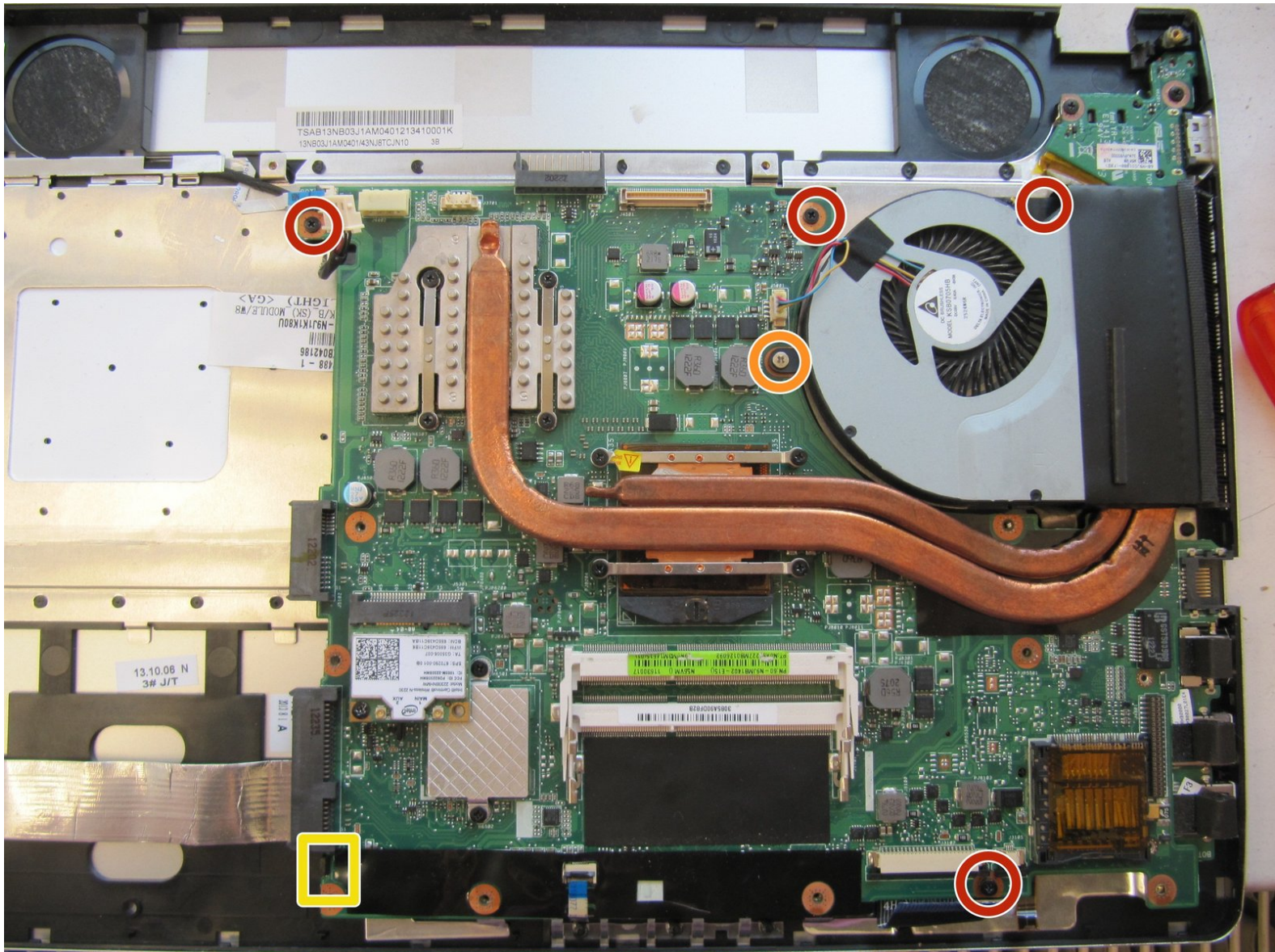




Asus N56VM Motherboard Replacement

Written By: Stanky





TOOLS:

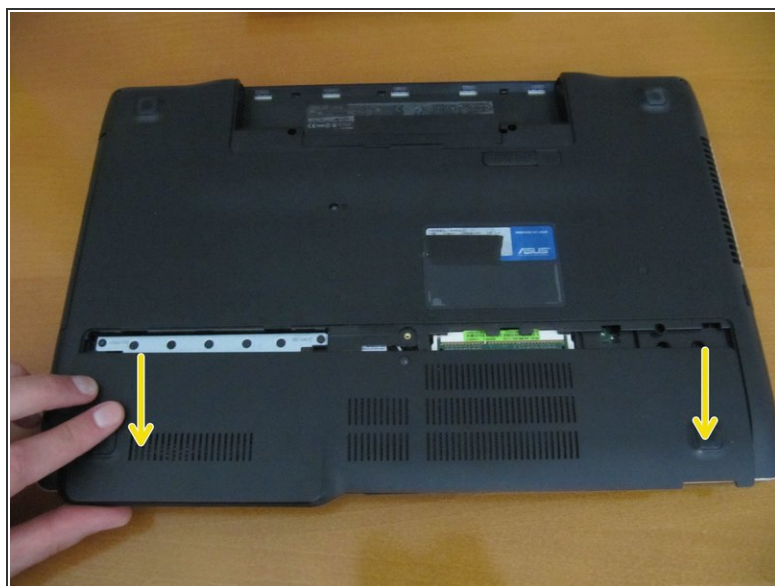
- [Mako Driver Kit - 64 Precision Bits](#) (1)
 - [iFixit Opening Picks set of 6](#) (1)
 - [iFixit Opening Tools](#) (1)
-

Step 1 — Remove battery



- Remove the battery and the AC power

Step 2 — Remove bottom cover



- Remove the M2x4 screw of the bottom cover
- Remove the bottom cover by sliding it downwards

Step 3 — Optical drive



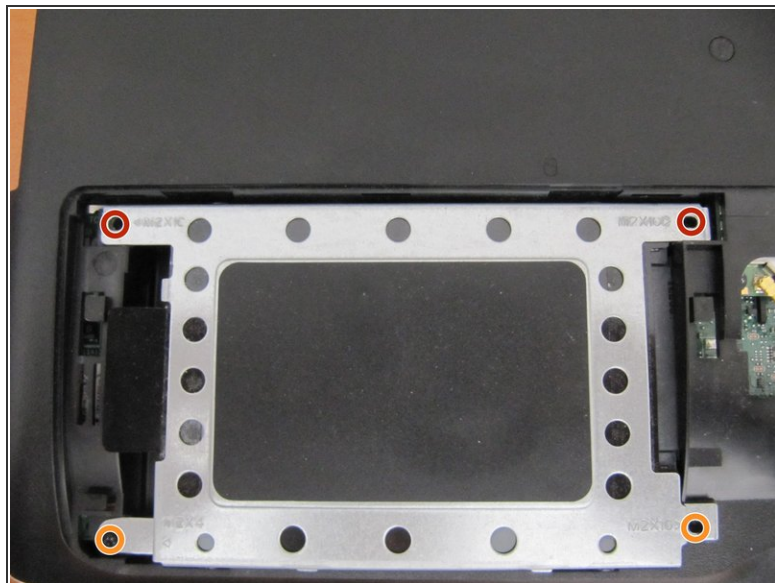
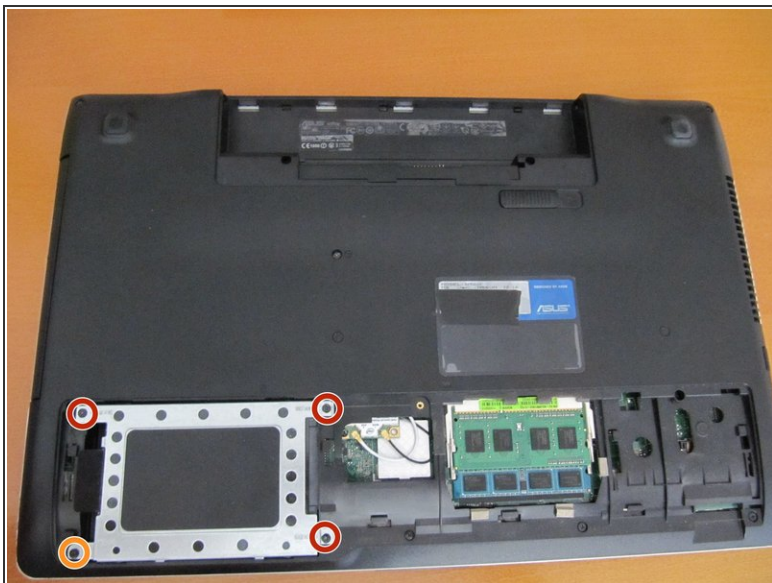
- Remove the screw holding the optical drive

Step 4



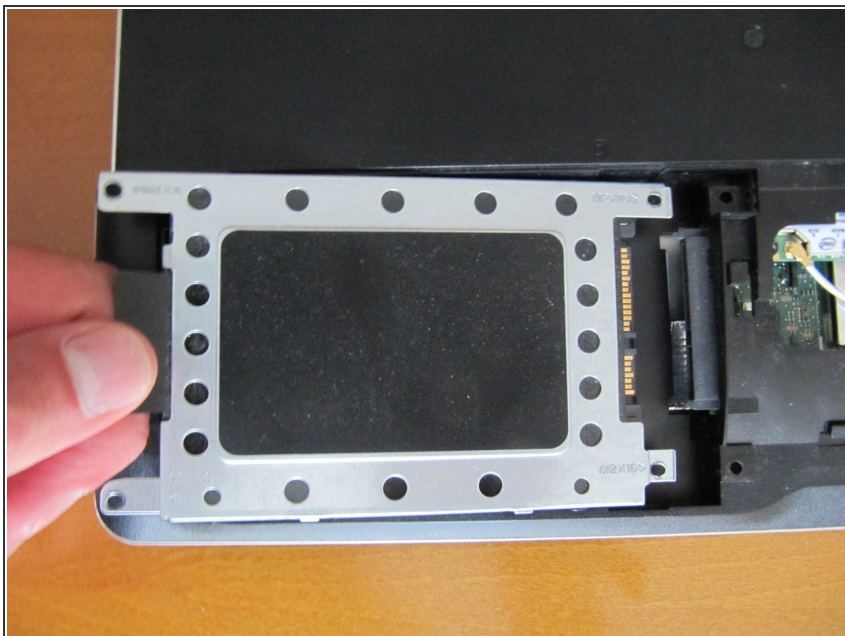
- Pull out the optical drive

Step 5 — Hard Disk



- Remove the screws
 - Remove the 3 M2x10 screws
 - Remove the one M2x4 screw

Step 6



- Gently pull the hard disk to the left

Step 7 — RAM



- Remove the two RAM modules
- Pop them out gently

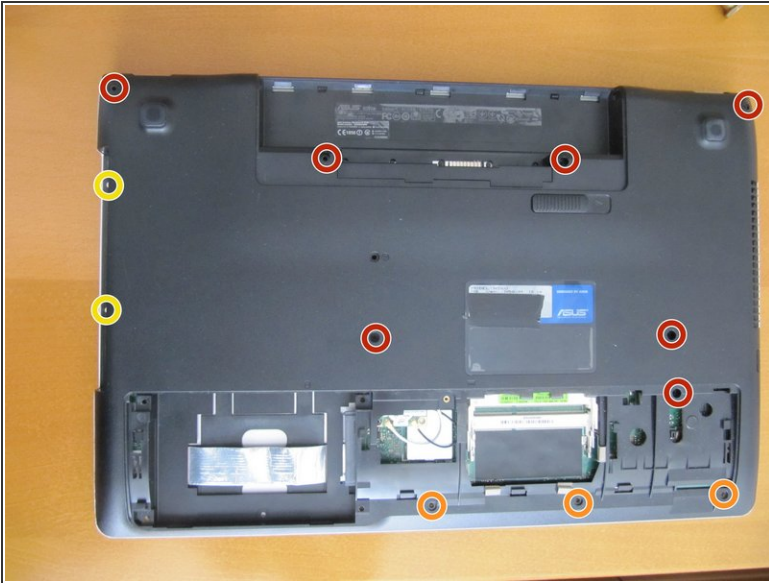
⚠ Make sure you are electrostatically not loaded

Step 8



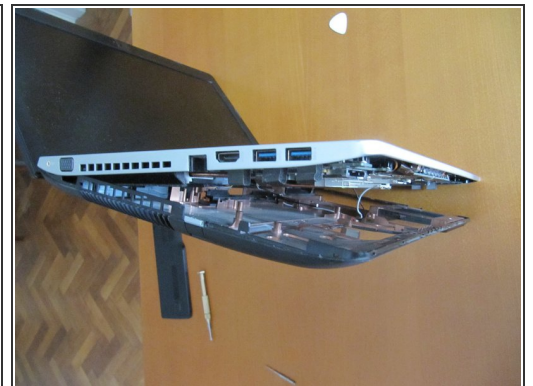
- Detach the two cables from the wireless module

Step 9




- Remove all screws from the bottom cover
 - Remove 7 M2x10 screws
 - Remove 3 M2x4 screws
 - Remove 2 small screws

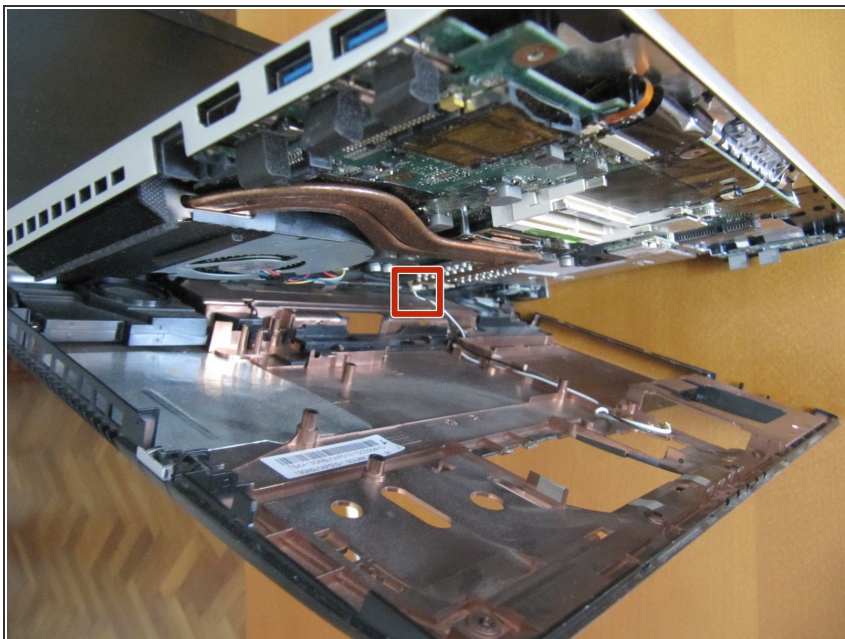
Step 10



- Open the lid of the notebook
- Use a plastic opening tool to pry the bottom case

 Be very careful when opening so that the cables in the case are not severed.

Step 11



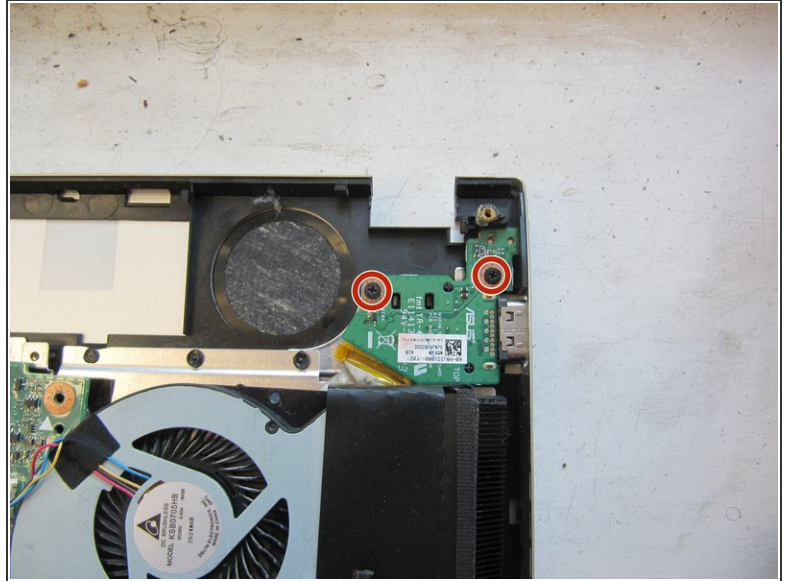
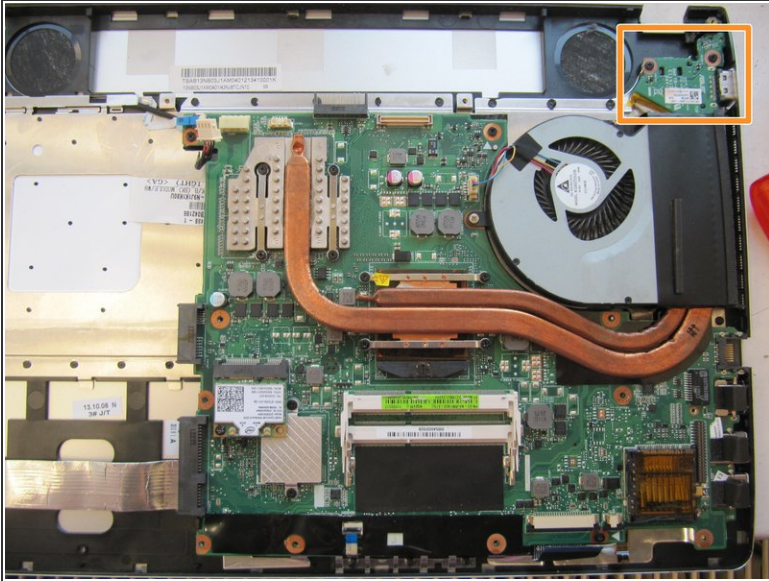
- ❗ The motherboard is still connected to the bottom case by several cables, so don't try to remove it entirely just yet.
- Hold the upper part with one hand, and use your other hand to disconnect the black&white cable (antenna for the wifi card)

Step 12



- ❗ The motherboard is still connected to the bottom case by several cables, so don't try to remove it entirely just yet.
- Continue to hold the upper part with one hand, and use your other hand to disconnect the black ribbon cable
- Remove the upper part with the motherboard

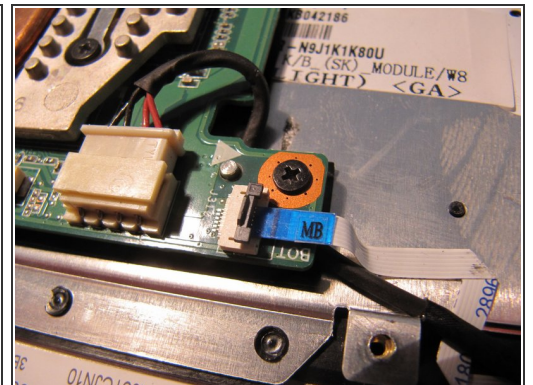
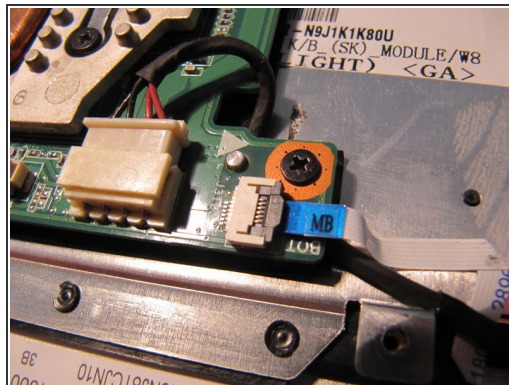
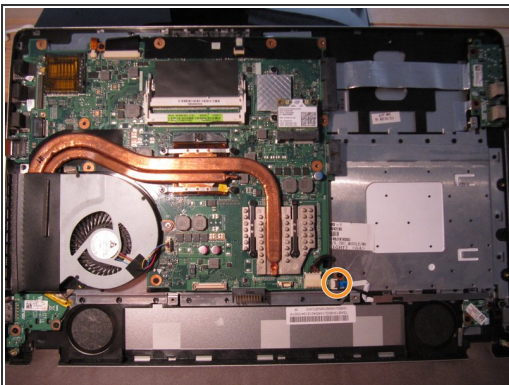
Step 13



i This component is attached by a cable to the lower side of the motherboard therefore it is advised to remove it.

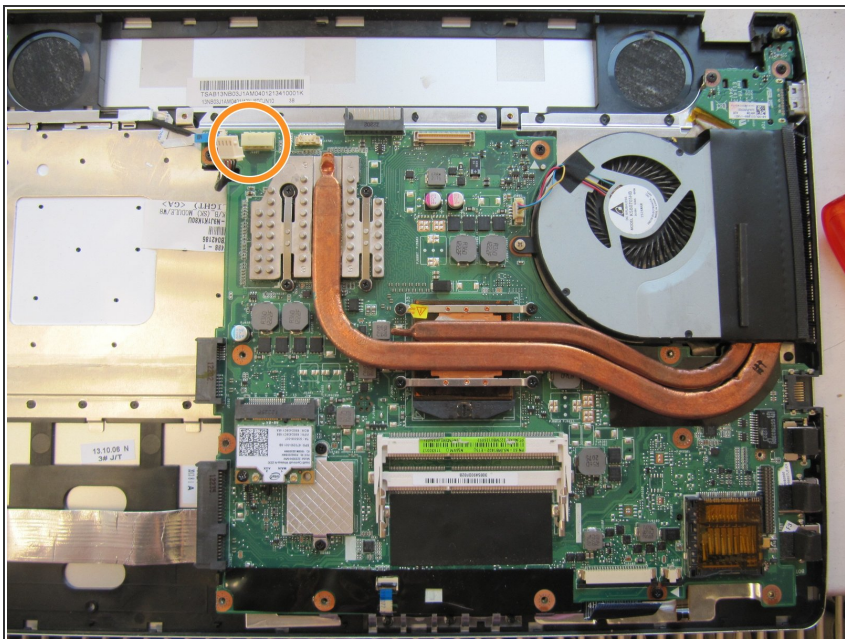
- Remove the two screws holding the VGA IC
- Lift the IC

Step 14



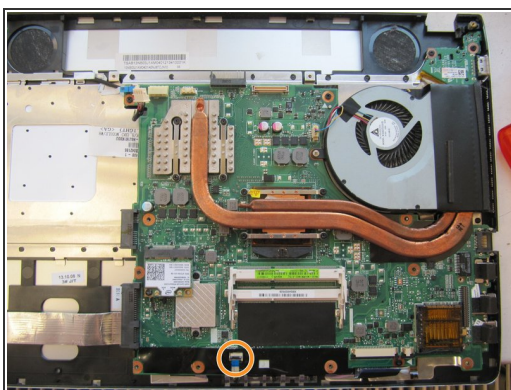
- Remove the cable by first lifting the black holder and then removing the cable

Step 15



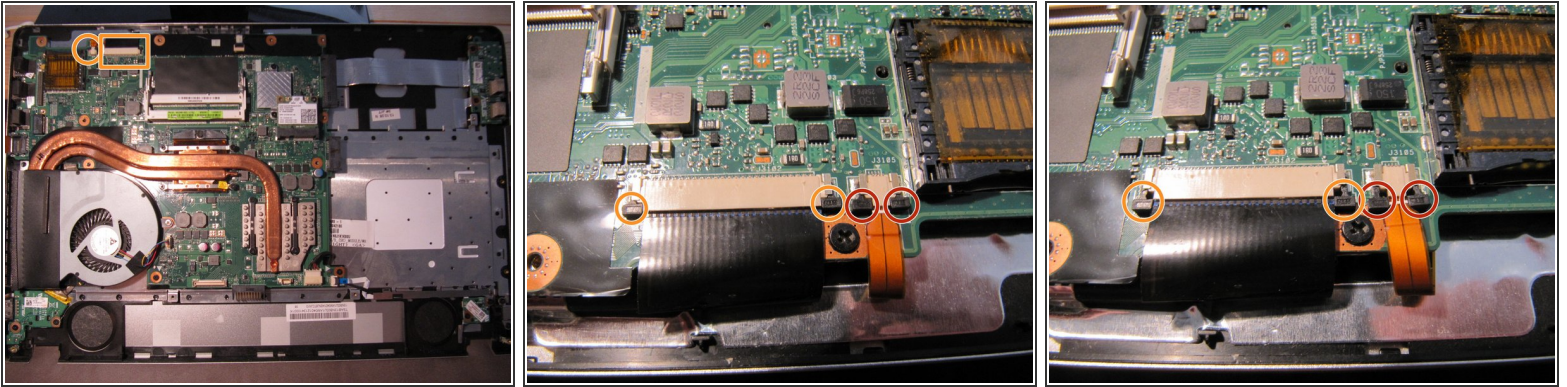
- Remove the white cable simply by pulling it out from the connector

Step 16



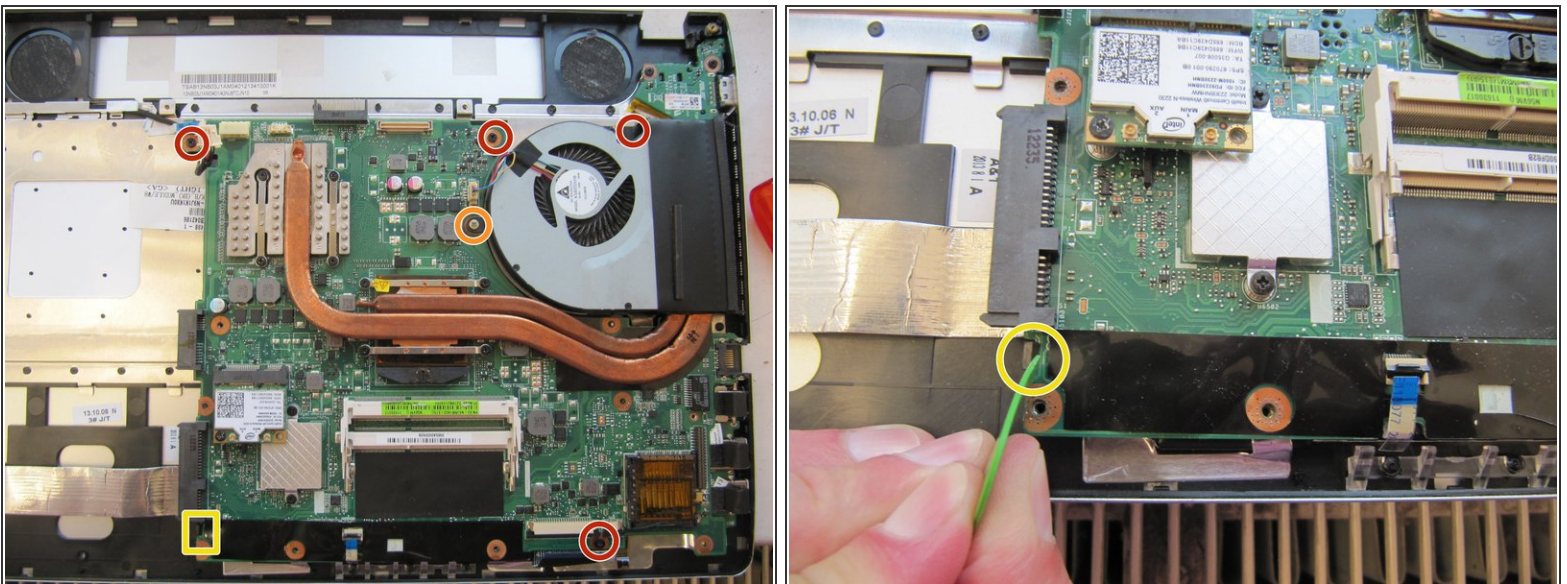
- Remove the touchpad cable by first lifting the black holder

Step 17



- Remove the two keyboard cables by first pulling out the black holders. After that the cables are released

Step 18



- Remove the four screws holding the motherboard
- Remove the screw holding the fan
- Pry out the plastic thing holding the motherboard in place

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