



# Asus K53S -X156V Thermal Paste Replacement

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**TOOLS:**

Phillips #00 Screwdriver (1)  
Flathead 3/32" or 2.5 mm Screwdriver (1)  
IC Extractor/Connector Puller (1)  
Cotton Swab (1)  
iSesamo Opening Tool (1)  
Spudger (1)  
Arctic Silver Thermal Paste (1)  
Scalpel (1)  
Isopropyl Alcohol (1)  
Arctic Silver ArctiClean (1)

**PARTS:**

Thermal Paste (1)

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**Step 1 — removing battery**



- remove battery by sliding the two release buttons to the right position.
- slide the battery away from the laptop

## Step 2 — removing plastic plate RAM/HDD



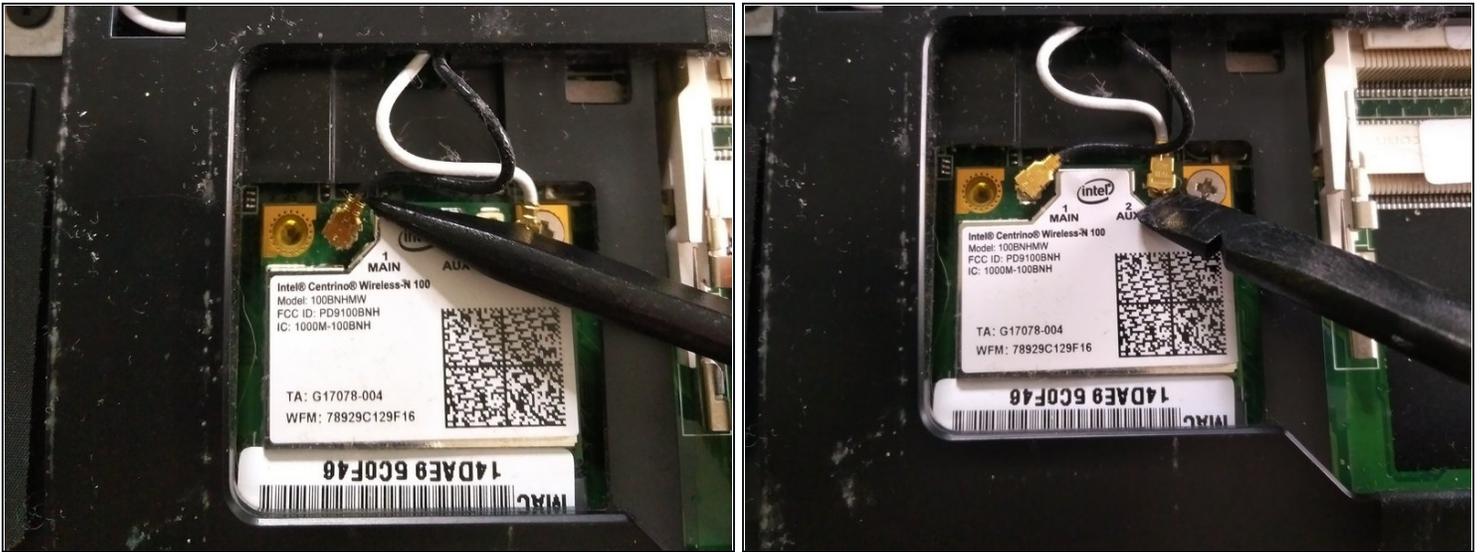
- remove the 2 screws holding the plastic plate , underneath is the RAM/ WiFi and HDD
- the 2 screws are marked in red. afterwards slide it away from the laptop
- ① keep track of all the screws and parts. make a map or a plan.

## Step 3 — removing RAM



- click the ram module out of there sockets.
- push the metal clips away from the module.

## Step 4 — Remove wifi module



- remove the black and white wire.
- remove the screw.

## Step 5 — removing hard disk



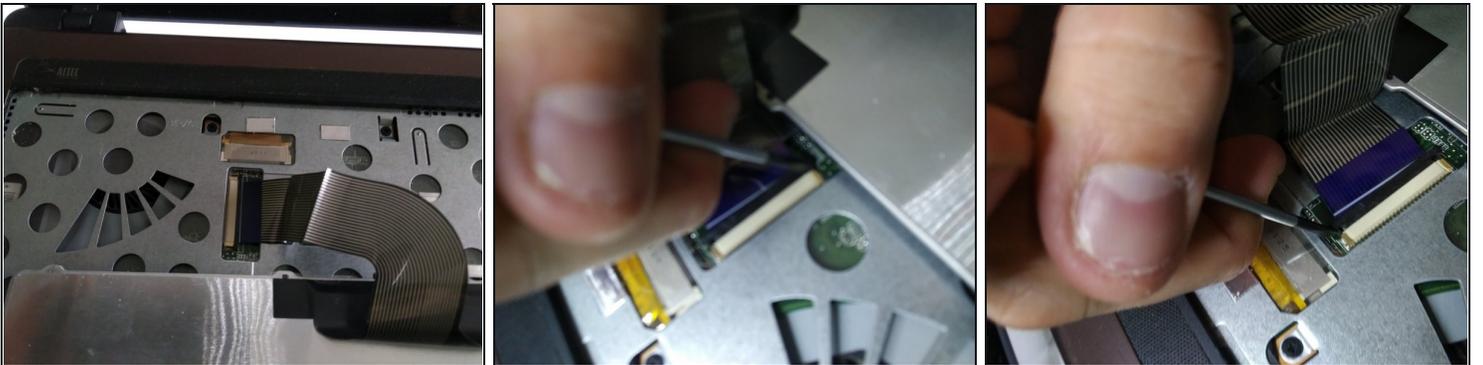
- remove the 4 screws holding the metal frame , holding the hdd to it's place.
- slide the frame and hard disk away from the case.

## Step 6 — removing keyboard



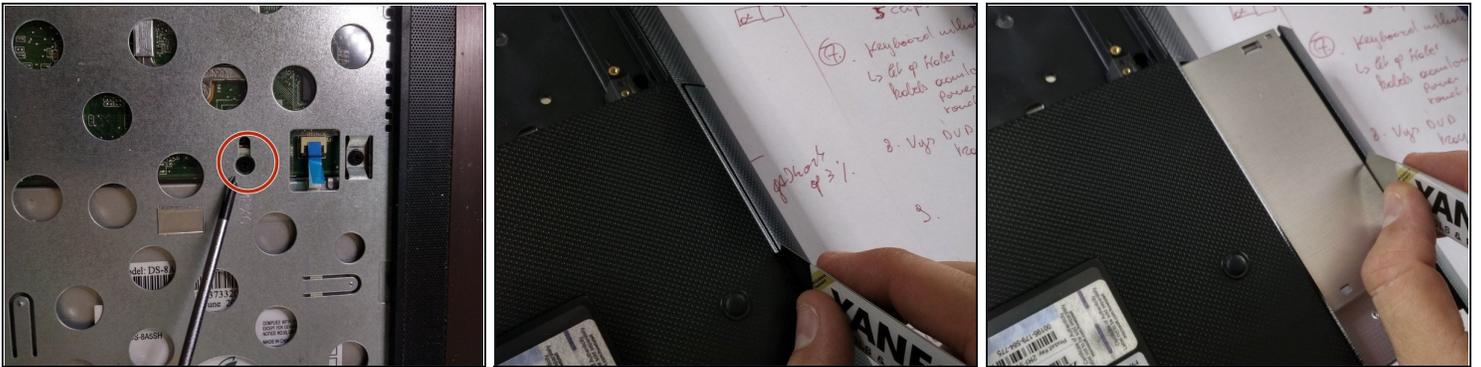
- click the keyboard loose . There are 5 clips to remove

## Step 7 — keyboard second part



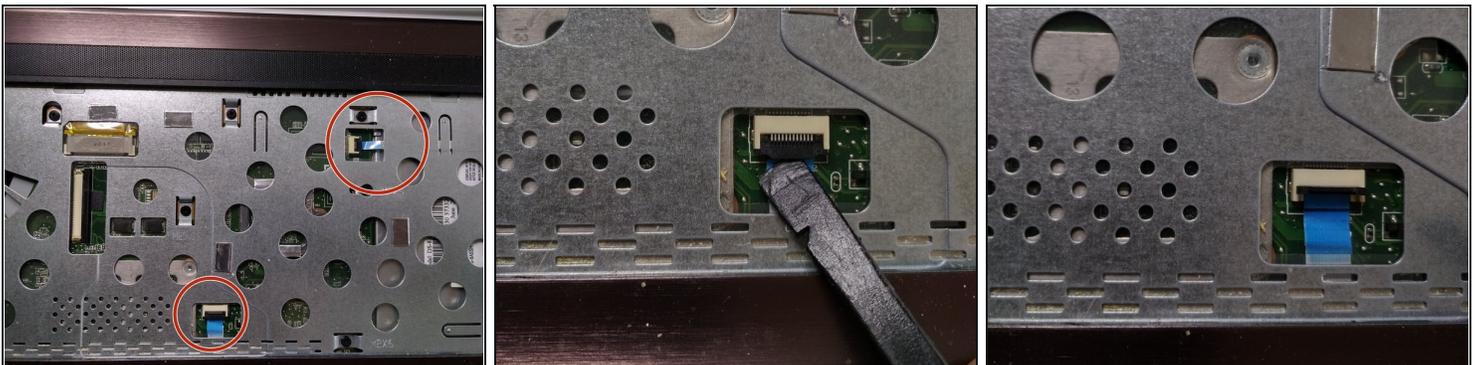
- be carefull with the flat cable from the keyboard.
- use a spudger to click the connector lid loose.
- i used the tip of a screwdriver.. but i know what i am doing.. if you are use to work on laptops you can use a screwdriver, if not use a plastic spudger.

## Step 8 — remove DVD bay



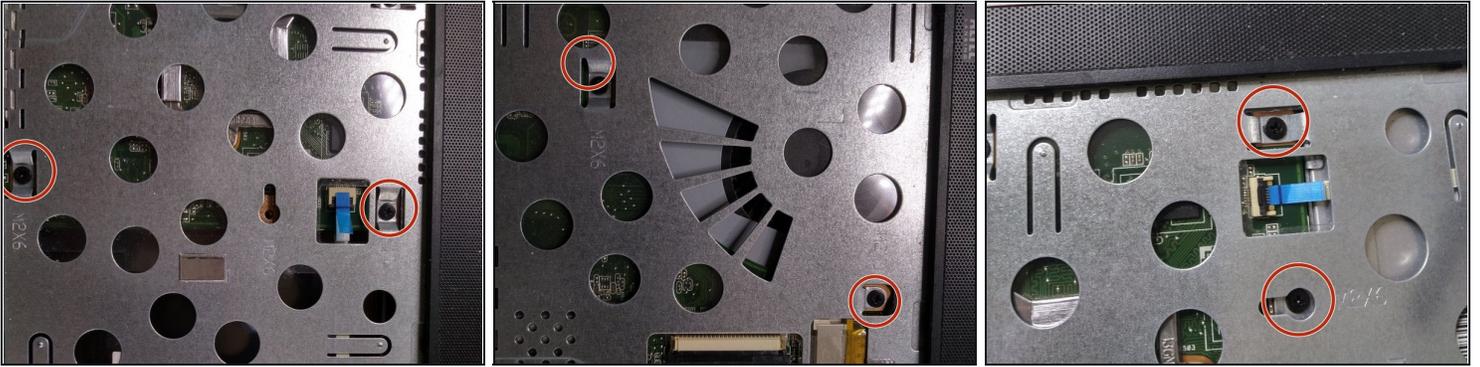
- remove the screw hidden under the keyboard.
- slide the dvd bay out.

## Step 9 — removing flat cables



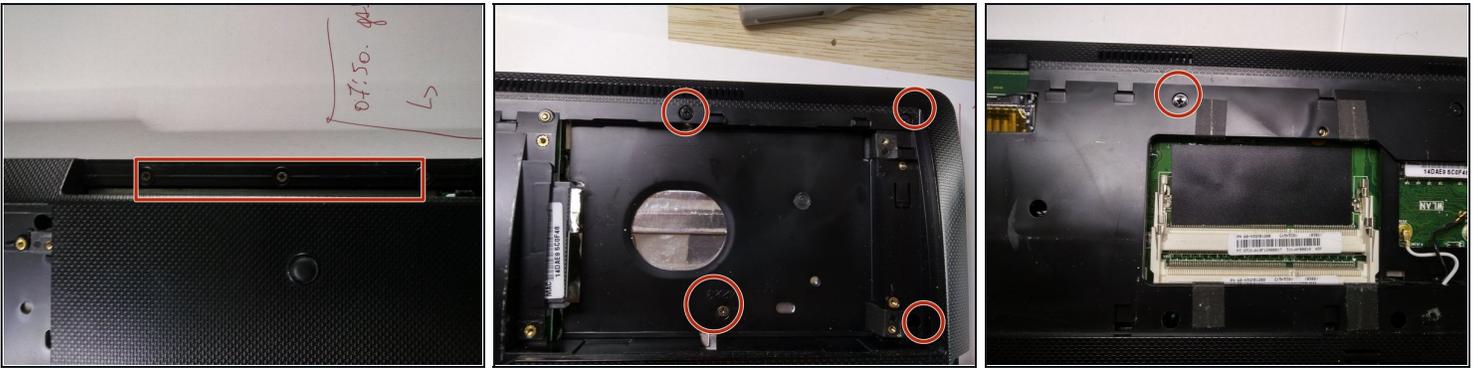
- remove the flat thin cables from there sockets.
- use a spudger , click the lid upwards and slide the flat cable out.

## Step 10



- remove the 6 screws ( m2x6) holding the metal plate to the case.

## Step 11 — remove screws on the bottom plate



- remove screws as shown in pictures.

## Step 12 — remove screws bottom plate



- remove screws as shown in pictures

### Step 13 — removing case



- slide an isesamo opening tool between the two plates. you will here clicks

### Step 14 — reveal MAIN PCB



- remove upper plate , revealing the main PCB.

## Step 15 — removing cable to usb module



- remove the flat cable of the USB module , use a spudger to lift up the lid of the connector.
- gently slide out the flat cable

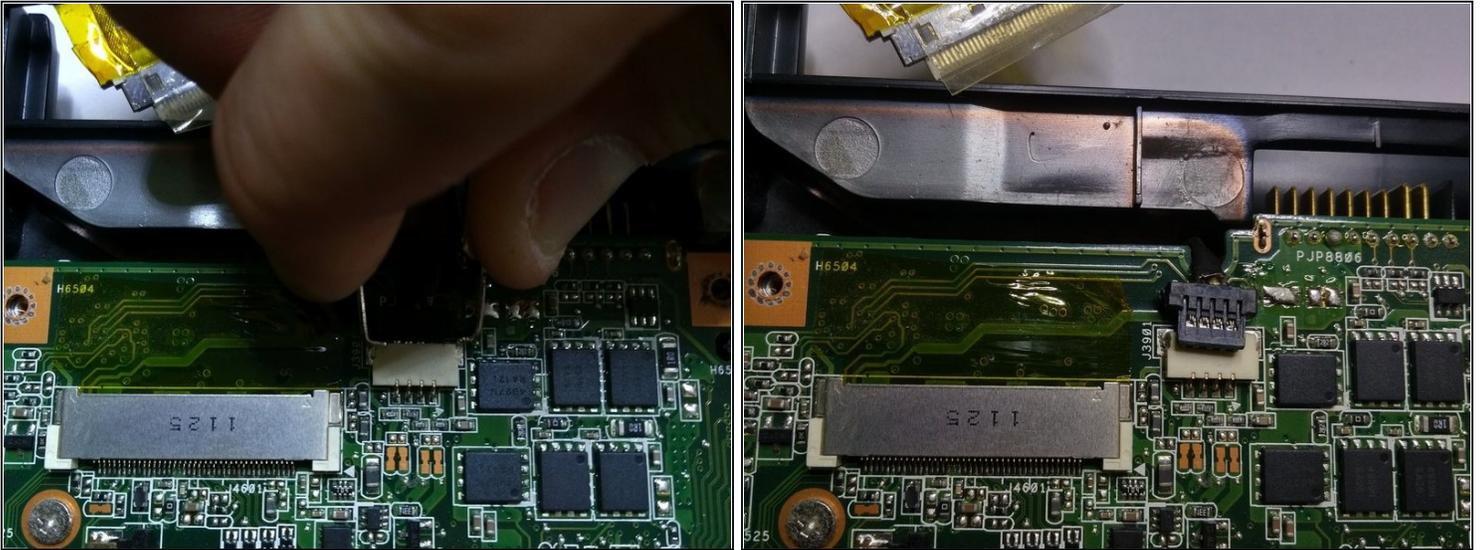
⚠ when removing the cable, be carefull they used a lot of adhesive to paste the cable to the plastic case.

## Step 16 — removing LCD cable



- use the tip of a spudger or a tiny flathead screwdriver to push out the LCD cable from connector.
- be very very very carefull , if you tear tis cable or damage it , you will have to buy a new one.
- first lift the cable metal connector upwards ( push it out) , very gently, then the other side untill you can remove the cable.

## Step 17 — remove audio cable



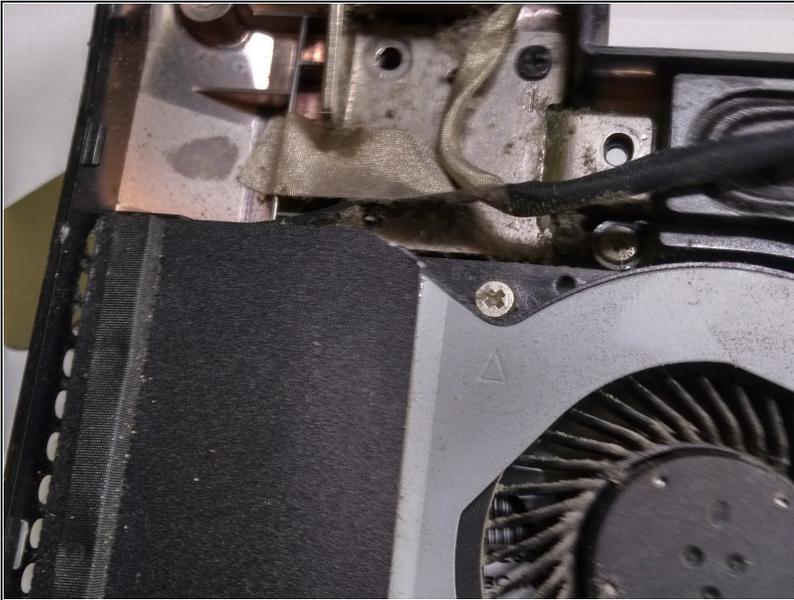
- use IC extractor pliers to remove the cable away from its socket.

## Step 18 — remove screws main board



- remove the 4 screws holding the main pcb ..

## Step 19 — removing last screw.



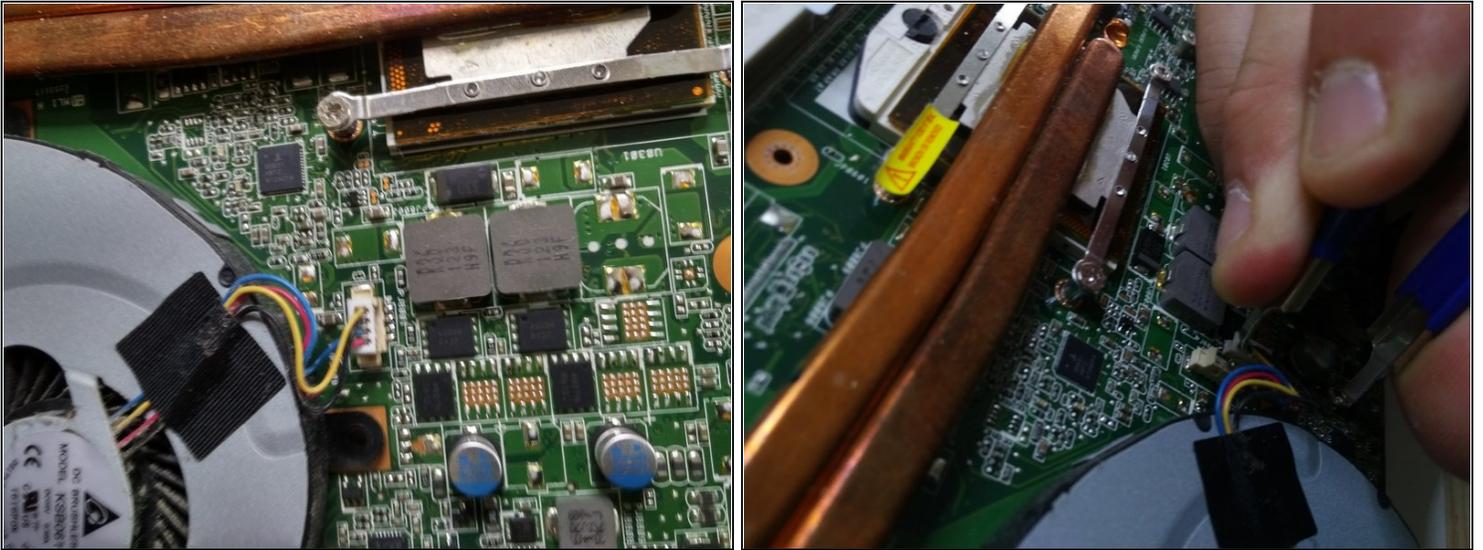
- remove screw holding the fan to the laptop.

## Step 20 — removing main board



- lift the main board or motherboard up on the right side and slide it out.

## Step 21 — FAN



- release the fan from the main board by removing the connector with an IC extractor pliers.

## Step 22



- loosen up the screws from the cooling pads on the CPU and GPU.
- You will have to tear the warranty sticker. it is a sticker in 3 parts.

## Step 23 — removing fan and cooling pads



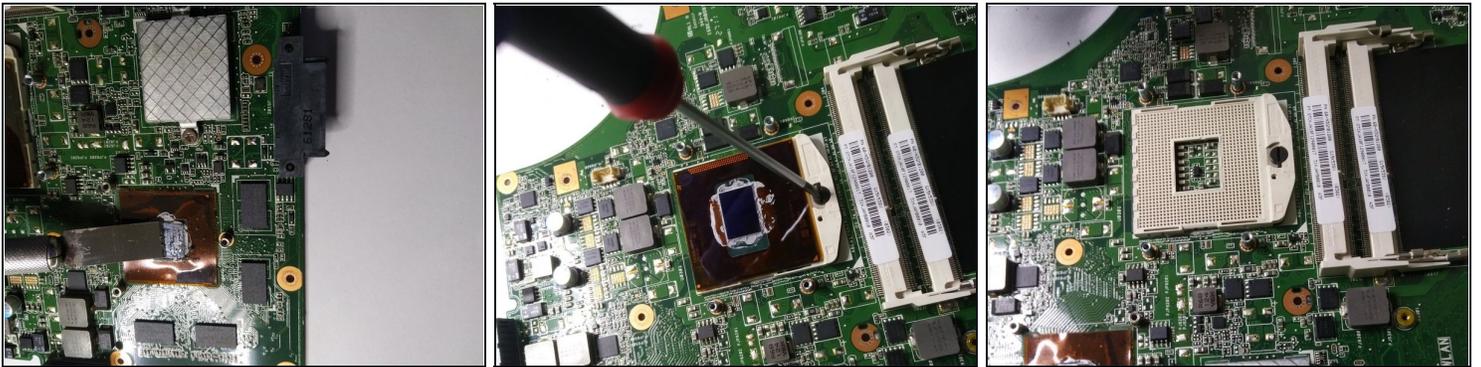
- remove the fan and cooling pads.
- you will see the old thermal paste.

## Step 24 — removing thermal paste from pads.



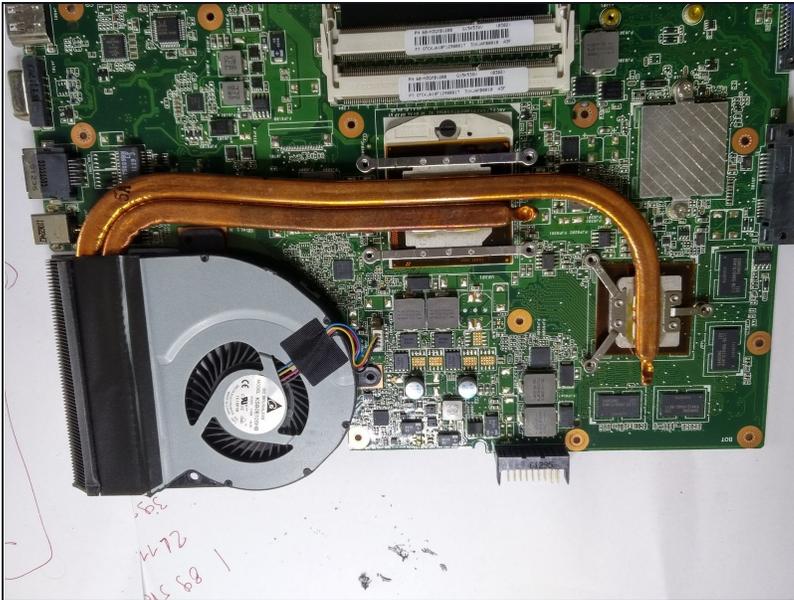
- clean the cooling pads with an very sharp knife. or spudger..
- wear gloves, cause the thermal paste is very toxic.
- also this is a good time to blow out the fan with compressed air.

## Step 25 — removing CPU and cleaning



- remove the old thermal paste from the processors , be very carefull. and use some artic silver liquid to clean them. and easly remove the thermal paste.
- you can remove the CPU by using a flathead screwdriver , the socket will move and you can pull the CPU out , maybe a good time to upgrade the CPU.

## Step 26



- unfortunately i don't have a picture when i added some new thermal paste. But if you do: one drop on each processor is enough.
- ① Check out the [thermal paste guide](#) for more information on how to apply thermal paste.

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