



# Medion Akoya MD 98560 Heat Sink Replacement

These laptops found in ALDI stores are some of the cheapest around on the market, and this one is a trick to customers. It specifies high end specs and graphics but when trying to actually achieve these, the CPU overheats and crashes.

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## INTRODUCTION

We will be disassembling the laptop down to the heatsink and CPU, to apply some thermal paste with a higher grade of conductivity.

### TOOLS:

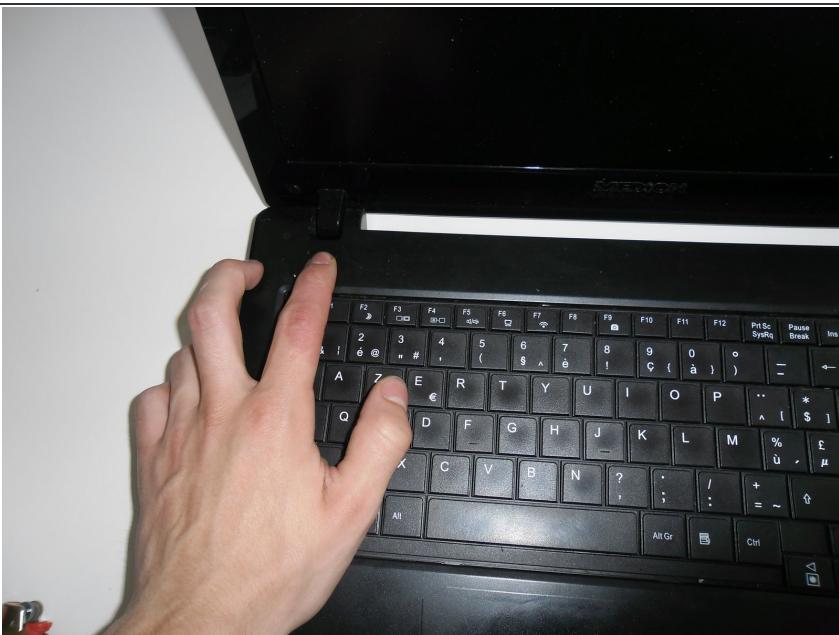
- Pro Tech Toolkit (1)

## Step 1 — Heat Sink



- Remove the battery by sliding both sliders to the left.
- Hold the left slider as you slide the battery away from you.

## Step 2



- Press and hold the power button for 10 - 15 seconds, to release any excess power from the laptop.

## Step 3



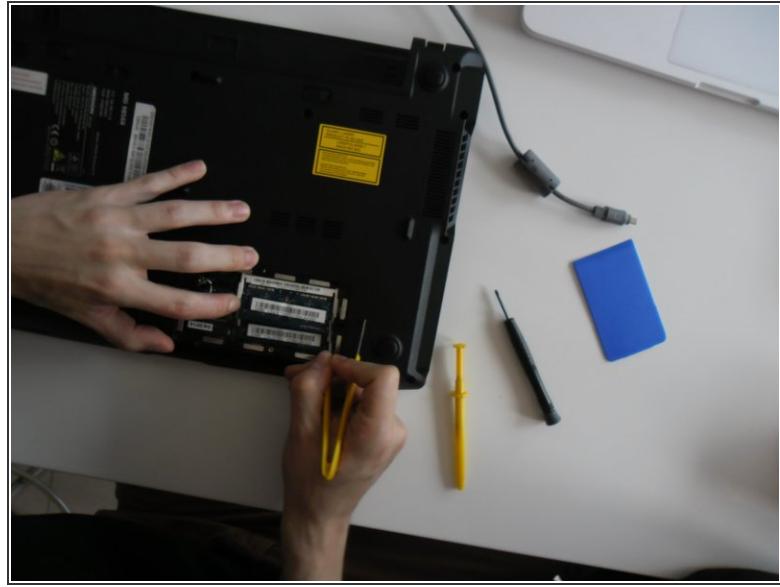
- After removing the battery, undo the single screw holding the RAM compartment lid.
- Gently pop out the lid with a few clicks.

## Step 4



- Undo the white and black cable, and the screw.
- Lift the wifi board up and away from you.

## Step 5



- Pry the metal clips holding the RAM units outward which will make the unit pop upwards.
- Slide the unit out, towards you.

## Step 6



- Undo the single screw holding the hard drive lid.

## Step 7



- Undo the single screw holding the hard drive.

## Step 8



- Use the black tab to slide the hard drive backwards.
- Pry the hard drive up, on the far side and it slides out.

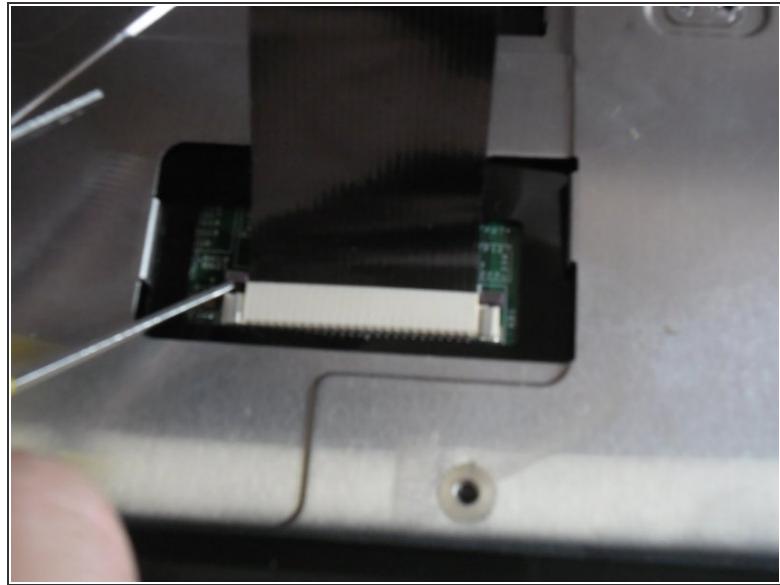
**⚠** Be careful when prying the hard drive out of the case, you might drop it and damage it.

## Step 9



- Push the 4 black tabs located at the top of the keyboard, under the case.

## Step 10



⚠ Be careful when removing the keyboard from the case, it is still attached at the bottom.

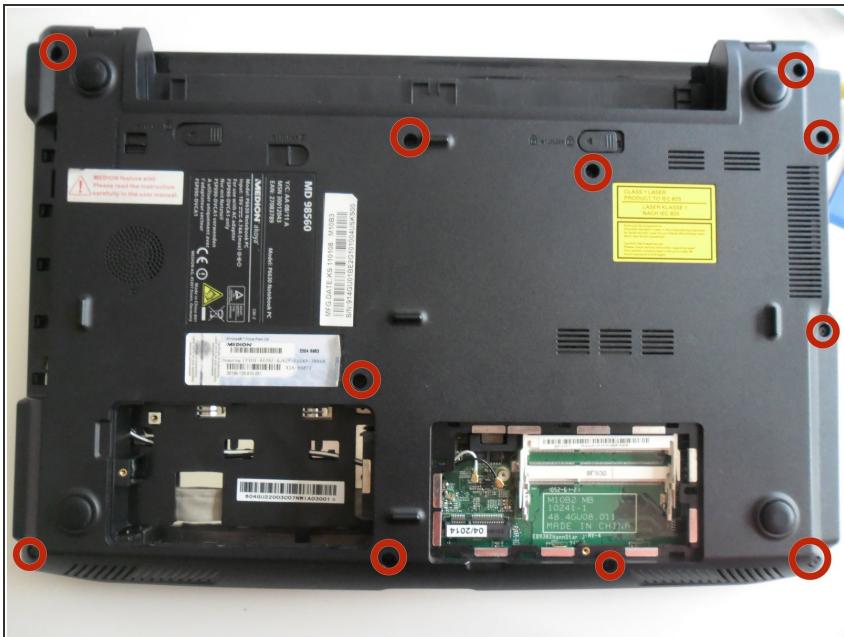
- Pry the black tab backwards, to remove the cable.

## Step 11



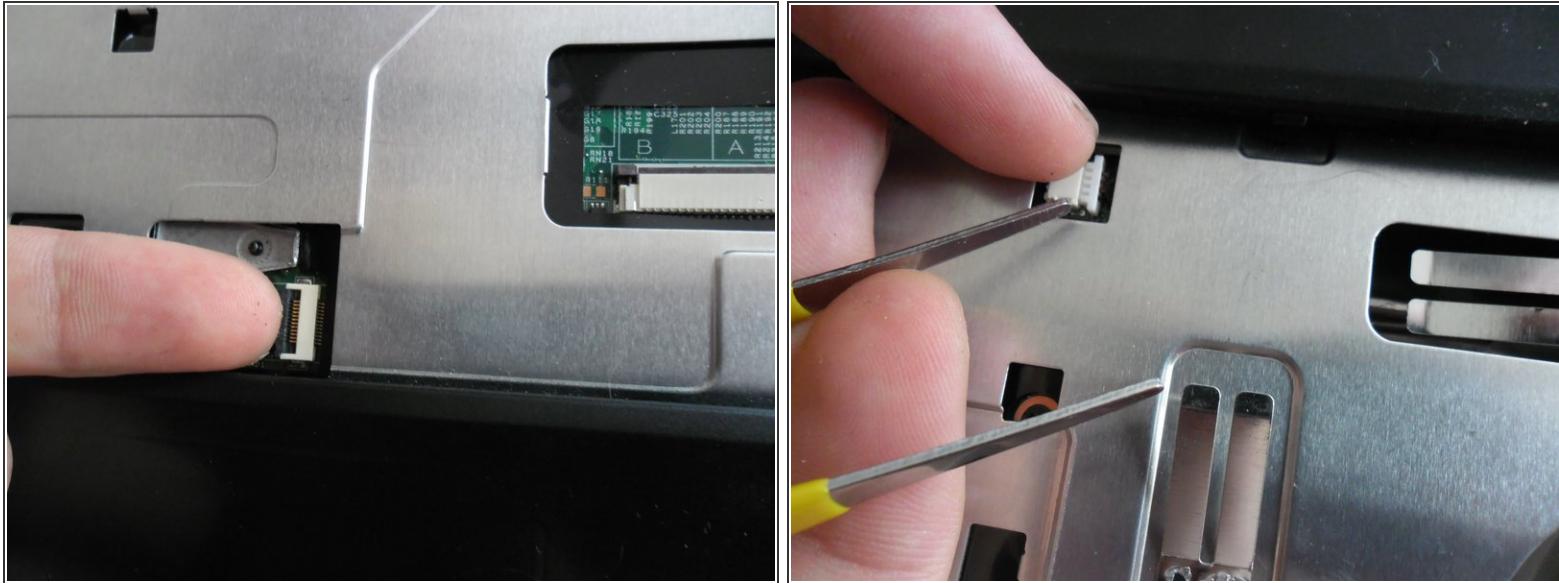
- On the bottom of the case there are 2 sliders, use these to release the optical drive.

## Step 12



- Undo the 11 screws holding the bottom of the case.

## Step 13



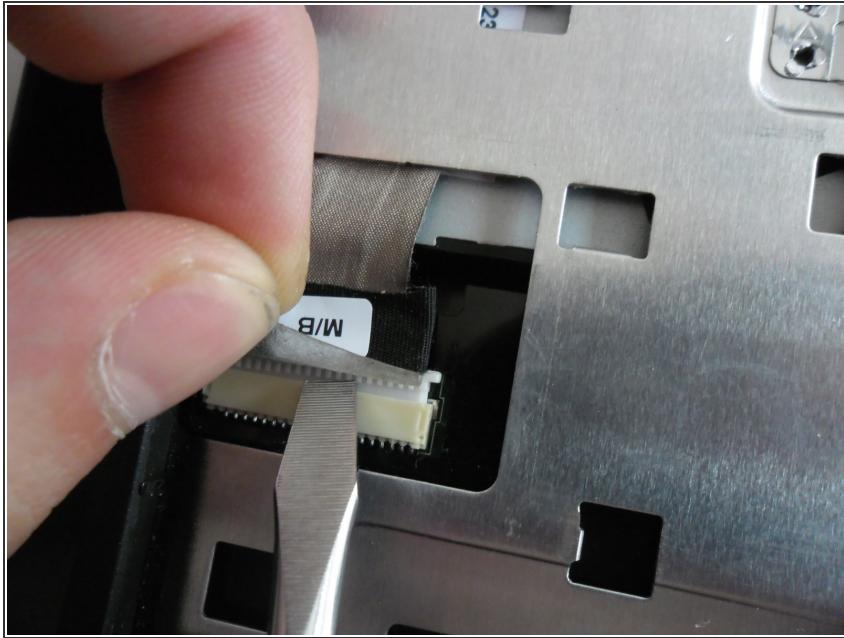
- Remove the 2 cables, revealed by removing the keyboard. The cables mentioning "MB" can only be removed after opening the case.

## Step 14



- Pry open the case using something soft, preferably your hands or a spudger.

## Step 15



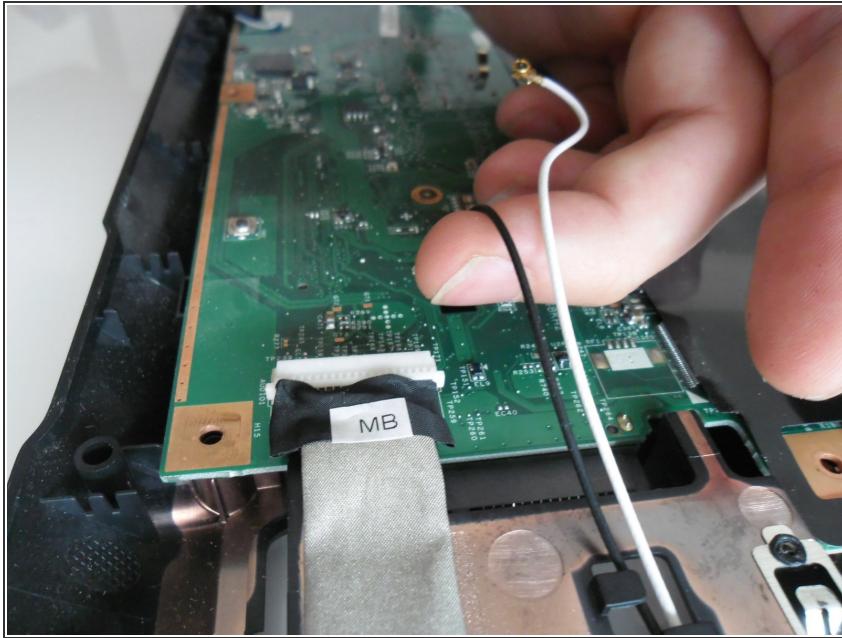
- When the case is completely loose it will still be attached by the "MB" cables. Remove those before completely removing the case.

## Step 16



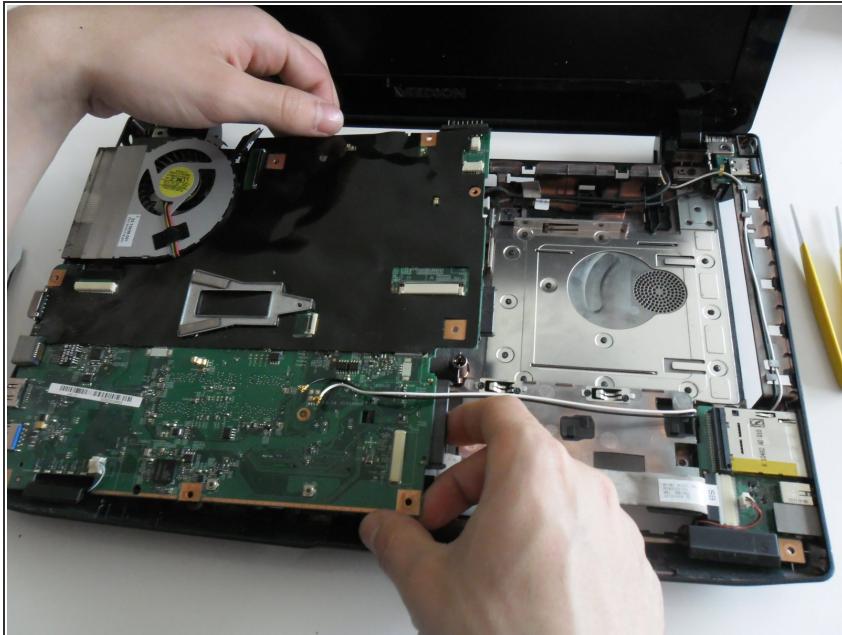
- Undo the single screw holding the motherboard.
- Undo the 4 cables highlighted in blue.

## Step 17



- Also remove the black and white wifi cable from under the motherboard.

## Step 18



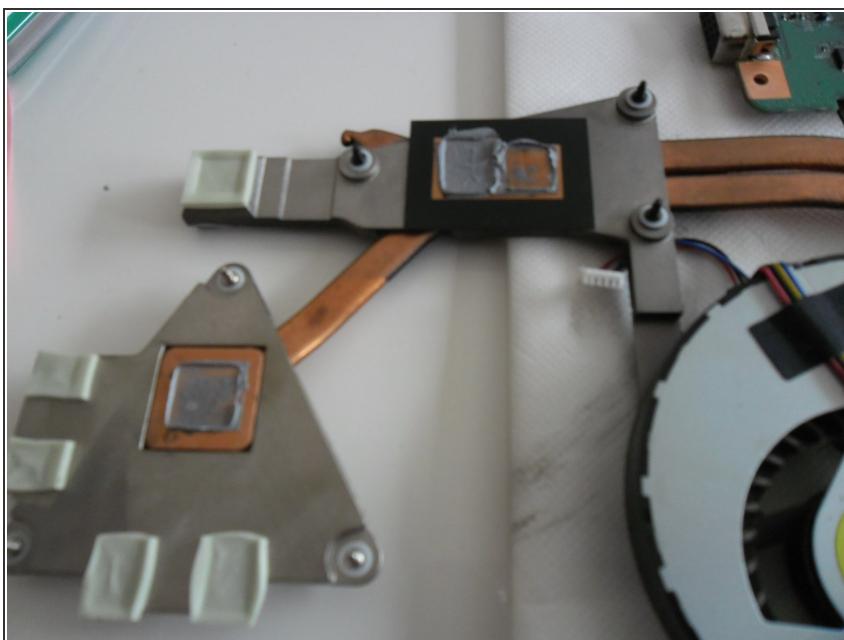
- Lift the motherboard out of its socket. The bottom left may get stuck a bit. Don't force the USB sockets.

## Step 19



- On the flipside of the motherboard is the CPU covered by the heatsink.
- Before removing the heatsink, remove the fan cable looping over the heatsink.
- Remove the 6 screws, holding the heatsink.

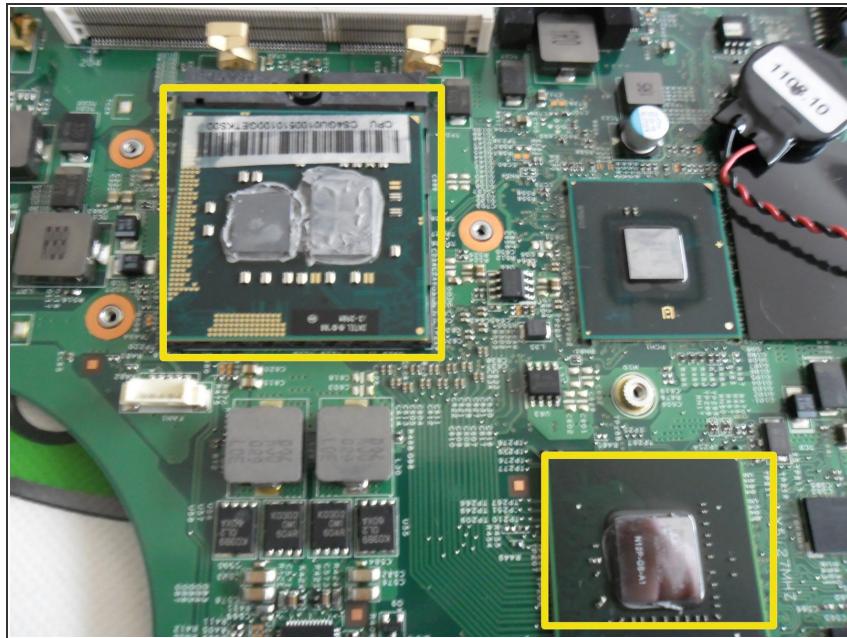
## Step 20



- First you will need a card to scrape off the old paste. Keep a coffee filter ready to clean the card.
- Both the heatsink and CPU's must be totally cleaned of any remaining grease.

*(i)* The triangular part on the heatsink leads to the graphics card.

## Step 21



! Be very thorough, any remaining grease may render your new layer of paste useless.

- i The top cores are the CPU, still not cleaned.
- i The bottom core is the newly cleaned video card CPU.

## Step 22



- i Use alcohol or a oil-free degreaser and coffee filters or a lint-free cloth.

## Step 23



**⚠** Apply the paste on the CPU's very carefully, you don't want certain thermal pastes on electrical circuits.

***(i)*** Your paste needs to be distributed evenly on the whole metal cap of the CPU.

- Reverse engineer this guide to put the laptop back together.
- Let the paste settle in by letting the computer run for a few consecutive hours.

**⚠** Run a temperature monitor software to check if your application has been effective or not. After a day or two, you may want to stress-test it by running some high end application all together and monitor the temperature.

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