

Assembly instructions HEATKILLER® GPU-X³ GTX570/580



The unique design of the HEATKILLER® GPU-X³ guarantees outstanding performance. A cooling performance in the range of current high-end CPU coolers, a flat design as well as top quality materials distinguishes the new GPU-X³ series.

The bottom plate consists of pure copper. The cooling structure of the GPU is extremely fine-tuned and offers a higher performance than most CPU coolers. The thin base ensures even more performance.

		HEATKILLER® GPU-X³ GTX 570/580
Dimensions (LxBxH)		172,0 x 117,0 x 11,5mm
Weight		850g
Material (bottom/cover)		CU / VA
Connections		G ¼ Zoll
Temperature-resistant up to		80°C
Compatible with		Nvidia GeForce GTX570 / GTX580

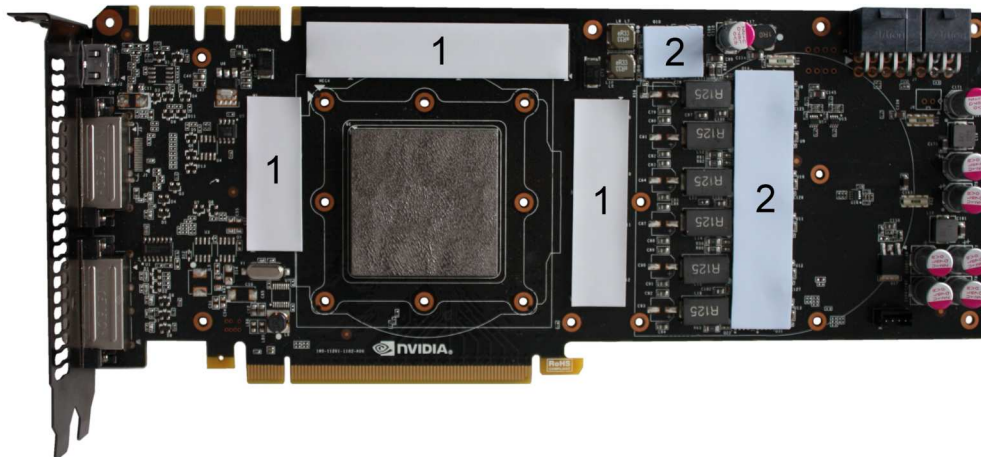
Note: You will find coloured assembly instructions in Pdf format in the service area of our homepage.
(www.watercool.de)

Attention: The Watercool company assumes no liability for any damages caused to hardware. If uncertain hire a specialist to carry out the modification, or use our modification service.

By disassembling the original cooler you may cause the manufacturer's warranty to become void, if uncertain contact the manufacturer of the Graphic card.

1. Preparation of the Graphic card

Remove the original heat sink and all remnants of the thermal pads. Place the pre-cut pads on the graphics card as illustrated. Normally, both sides of the pads are covered with a protective film which must be removed before the installation.



Make sure to place the pads on the right components.

- No.1 – thermal pad 0,25mm height (color light grey)
- No.2 – thermal pad 1,00mm height (color light blue)

Instead of the thermal pads, you can use a non-conductive thermal compound on the RAM components, which slightly increases the cooling capacity in this area. Apply the thermal compound to the GPU area evenly.

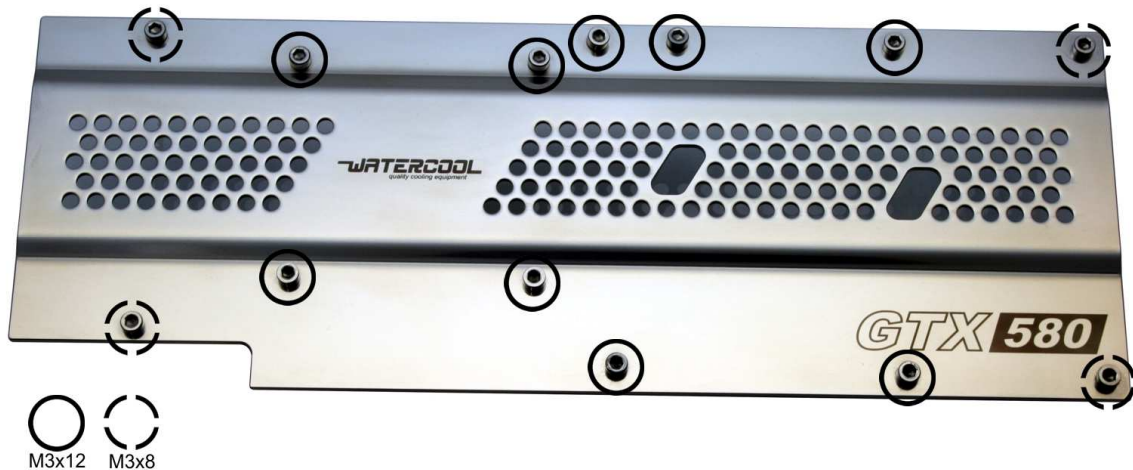
2. Assembly of the cooler

Put the cooler onto the prepared graphics card and then turn the components around. The cooler is delivered with 11 pieces of M3x8mm stainless steel screws and plastic washers. Screw the screws – with washers – into the cooler beginning with the GPU area. Do not tighten the screws yet!

Once all screws are attached to the cooler, screw them tight beginning with the GPU area. Make sure to tighten the screws crosswise.



3. Assembly of the backplate



An Allen wrench size 2.5, M3x12 and M3x8 screws are required for assembly. The Allen wrench and the M3x8 screws are part of the delivery scope of the graphic card cooler; the M3x12 screws are included in the delivery scope of the back plate.

Prepare the graphic card cooler for assembly as described in point 1. Then please check the back plate. Insulating spacers have to be pressed into the bottom of the back plate. It is absolutely necessary that these are completely in place. Refer to the image above to see which screws are used where.

Then place the prepared cooler on the graphic card and turn it around together with the graphic card. A thick book or catalogue are suited as base. Make sure not to scratch the cooler!

Attention: If the cooler was previously completely assembled, please remove all screws of the graphic card cooler first as shown in the image.

Now attach the back plate. None of the screws may become wedged. Prior to actual tightening, first turn in all screws by hand until the thread engages. There is no thread of the graphic card cooler behind the M3x8 screws. These are fixed with an M3 nut (part of the delivery of the back plate). A washer is placed between the circuit board and the M3 nut (part of the delivery of the cooler).

Now you can tighten all screws. Work star wise, from the inside to the outside.

Caution: Prior to the first commissioning of the graphics card with installed back plate, the distances between soldering lugs and back plate should be inspected visually. The soldering lugs of the electronic components may not touch the back plate. This could result in an electrical short circuit that would damage the hardware. The distance is generally sufficiently dimensioned. Production may however cause soldering lugs that are too long on a few graphics cards. In this case, the card must not be commissioned with an installed back plate. If the card is nevertheless commissioned, then this will be at one's own risk.

4. Installation and leak test

After the installation, a check and test run must be performed! The coolers are constructed on the reference design, still, all sections of the board have to be checked for possible contact to the cooler. In addition, the contact of the GPU to the cooler must be checked along with the bending of the board. A slight bending of the board is normal.

A leak test should preferably be performed outside of the computer. If this is not possible, the hardware may not be turned on during the test run!

Once all of the cooler elements were tested, the computer can be put into operation. Check the temperature of the GPU immediately after the start!

5. General information

The HEATKILLER® GPU-X³ GTX570/580 does not have a defined input and output. The cooling medium can stream in or out on both sides. Under normal circumstances it is not necessary to open the cooler. If you still want to do so, please use a corresponding tool for Allen screws in industrial quality.

We recommend using demineralised or deionised water (distilled water) as cooling medium. To prevent the build-up of algae, use common citric acid, which reliably prevents the spread of algae? The cooler is fully SLI compatible. To set up a dual or triple SLI system, we offer special dual and triple links which allow you to easily connect the coolers.

HEATKILLER® are products by

WATERCOOL®
quality cooling equipment

Please send your criticism, praise or suggestions to the following address:

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