

1 KOOLANCE VID-428 Installation Guide v 1.0

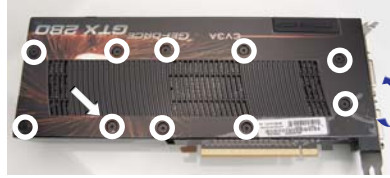
NOTE: The video card should be removed from the chassis in order to install this cooling device.

CAUTION: Removal of the original heat sink may void your manufacturer's hardware warranty. Please consult the manufacturer if unsure, and keep all original parts in case of a return/RMA.

Most cards using the VID-series blocks are disassembled the same way, although heat sink assemblies of any given model can vary.



The spring-screws on the bottom side should be removed first. There should be about 10-12 of these on the video card, including mounting screws on the side of the L-bracket.



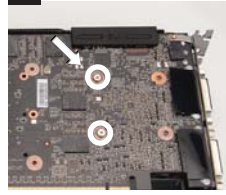
Example: GTX 280 Disassembly Screws



Carefully pry apart the rear outer casing starting at the L-bracket. The plastic assembly tab hooks can be gently depressed with a flat screw driver to unlock this area. Exercise caution-- these tabs can be easily broken.

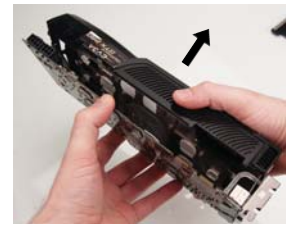


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Removing the rear outer casing will reveal two more screws which must be removed.

This will free the front heat sink and casing for removal.



The heat sink and fan can now be **carefully** removed. Original thermal paste may present additional resistance while removing the heat sink. Unplug the heat sink fan wire. Remove the original RAM thermal transfer material, and wipe any residual thermal material from the main GPU chipset.



Thermal Paste Area

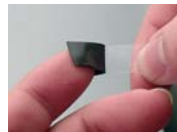
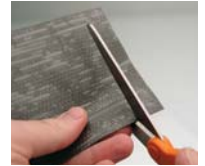
Thermal paste is only required on the main GPU. The other areas will utilize the included heat transfer pads.

Spread thermal compound on the GPU thinly and evenly using the included paste packet, or a piece of thick paper (such as a business card).

Two different sets of heat transfer pads are included. Each set has a different thickness, and one should be chosen that offers best contact with your video card.



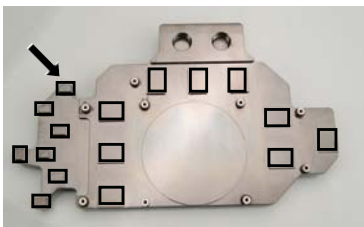
The thermal pad sheet should be cut into pieces required for your video block contact areas. A paper stencil with the proper shapes and sizes is included for reference.



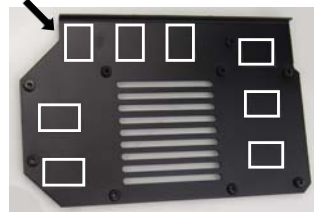
Thermal pads may have plastic film on *one or both sides* that must be removed before application.

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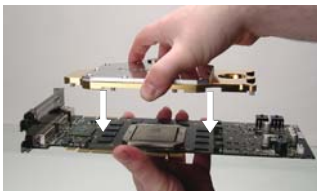
After cutting out each piece, place the heat transfer pads on each additional area cooled by the Koolance liquid block and its rear heat sink plate. This includes 16 memory chips, 7 power/VReg chips, and 1 PCI-Express controller chip.



VID-428 Thermal Pad Areas (Block Side)



VID-428 Thermal Pad Areas (Rear Heat Sink Plate)



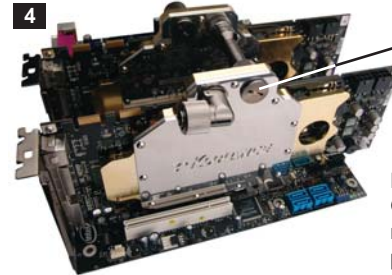
Place the Koolance block over the video card, and position the rear heat sink plate beneath it.



Using the Koolance-supplied screws, tighten each screw on the reverse side of the card through the rear heat sink plate.



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Two G1/4 "caps" are included with the VID coolers which can be placed opposite the desired nozzle locations.

Koolance VID coolers include redundant G 1/4" threading on both sides. This means the input/output nozzles can be placed on either side of the cooler.

Connecting VID Coolers in SLI

When connecting VID coolers in series (such as in SLI), Koolance offers an optional direct-connect nozzle. This minimizes liquid routing while avoiding potential conflicts with hardware in between the video cards.



Optional Two Slot Dual Video Connector (Koolance CNT-VD2)



Optional Three Slot Dual Video Connector (Koolance CNT-VD3)



Optional Four Slot Dual Video Connector (Koolance CNT-VD4)

Optional Five Slot Dual Video Connector (Koolance CNT-VD4)

