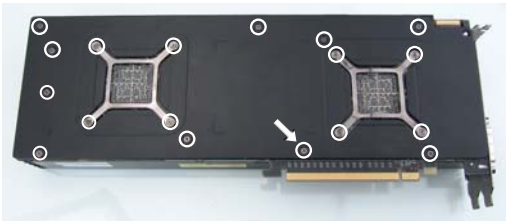
1 KOOLANCE VID-AR699 Installation Guide v 1.0

NOTE: The video card should be removed from the chassis in order to install this cooling device. Most cards using the VID-series blocks are disassembled the same way, although heat sink assemblies of any given model can vary.

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

All heat sink assembly screws should be removed. There should be about 18 of these on the back of the video card, and 2 more on the L-bracket.



HD 6990 Disassembly Screws (Bottom and Rear L-Bracket)

With all screws removed, carefully remove the top heat sink. Original thermal paste may present resistance during removal.

Unplug the heat sink fan wire. Remove the original RAM thermal transfer material (front side only), and wipe any residual thermal material from the main GPU chipsets.

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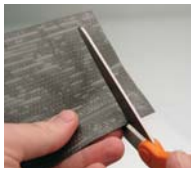
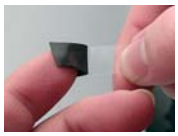
Thermal paste is only required on the main GPU's. The other areas will utilize the included heat transfer pads.

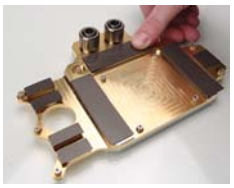
Spread thermal compound on both GPU's thinly and evenly using the included paste packet, or a piece of thick paper (such as a business card).



The thermal pad sheet should be cut into pieces required for your video block contact areas. Please use the diagram included with your water block to determine the approximate sizes needed. Koolance heat transfer pads have different thicknesses (gray = 0.5mm, pink/white = 1.0mm).



Gray thermal pads have plastic film on *both sides* that must be removed before application. Pink/white thermal pads have plastic film on *one side* (white) that must be removed. Do this after cutting the proper shapes.



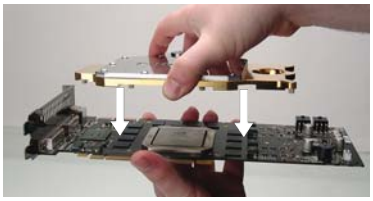
Basically, any area of the video card in contact with the original heat sink will need new heat transfer material. Place heat transfer pads on the corresponding areas of the Koolance water block.

3

Multiple types of heat transfer pads are included with some Koolance blocks. You might not require both (check the pad diagram). This is done because card manufactures change the component height tolerance from time to time. After completing video block assembly, it's recommended to remove the block temporarily to check thermal paste and pad impressions for good component contact:

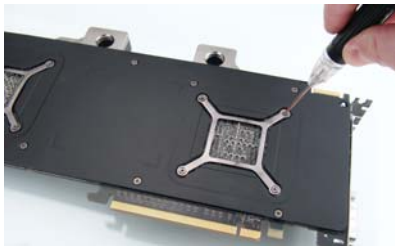
- If the GPU area paste is not evenly disrupted, thinner thermal pads may be needed in corresponding areas to improve GPU contact.
- If thermal pads have no chip indentations but the GPU paste looks good, thicker thermal pads may be needed to improve contact in those areas.

Place the Koolance block onto the video card so the mounting screws will align.



Tighten each screw on the reverse side of the card. If the original video card screws do not fit, use the Koolance-supplied screws and plastic insulating washers. Original video card rear brackets or back plates can be used if they still allow the water block to be mounted.

Koolance-Supplied Screw and Insulating Washer



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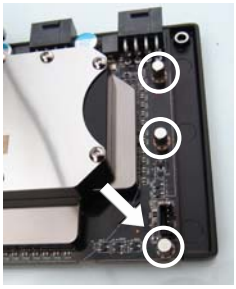
4 thumb nuts are supplied to take the place of empty screw hole positions on top of the video card.



Socket plugs are included with the VID coolers which must be placed opposite the desired nozzle locations.

G 1/4 BSP inlet/outlet nozzles can be screwed into the top or bottom side of the cooler, as long as coolant flows from one half to the other (left to right or right to left).

Connecting Multiple VID Coolers

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

Optional Two-Three Slot (CNT-VDA34) and One Slot (CNT-VDA2) Video Connectors