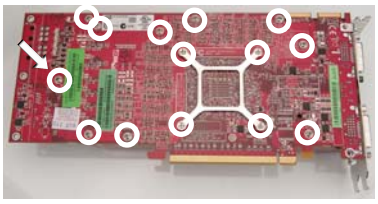
1 KOOLANCE VID-485,487 Installation Guide v 1.0

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

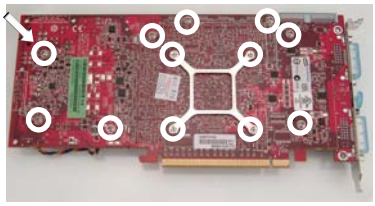
> **CAUTION:** Removal of the original heat sink my void your manufacturer's hardware warranty. Please consult the manufacturer if unsure, and keep all original parts in case of a return/RMA.

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 12-14 of these on the video card. There may also be smaller mounting screws on the side of the L-bracket.



Example 1: HD 4870 Disassembly Screws



Example 2: HD 4850 Disassembly Screws

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.

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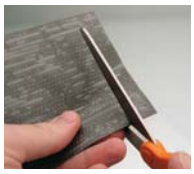
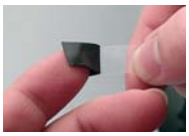
Thermal Paste Area

Thermal paste is only required on the main GPU(s). 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). Thermal paste should not be placed on the surrounding metal support frame or small surface soldered components.

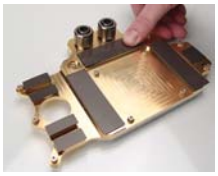
Two different sets of heat transfer pads are included. Each set has a different thickness, and one should be chosen that offers best contact with your video card. The thermal pad sheet should be cut into pieces required for your video block contact areas. A paper stencil with the proper shapes and sizes is included for reference.

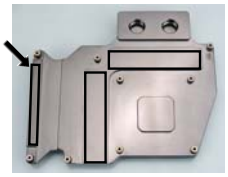




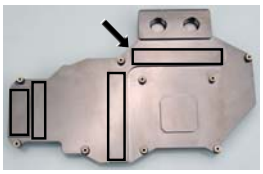
Thermal pads may have plastic film on *one or both sides* that must be removed before application.

Place heat transfer pads on each additional area cooled by the Koolance liquid block. This includes 2 rows of memory, and 1-2 power/VReg area.





VID-487 Thermal Pad Areas



VID-485 Thermal Pad Areas

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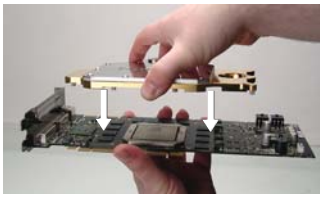
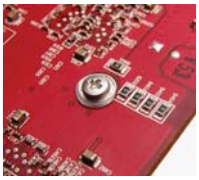
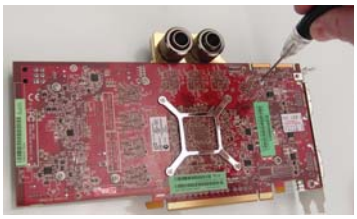
Place the Koolance block over the video card and tighten each spring-screw on the reverse side of the card.



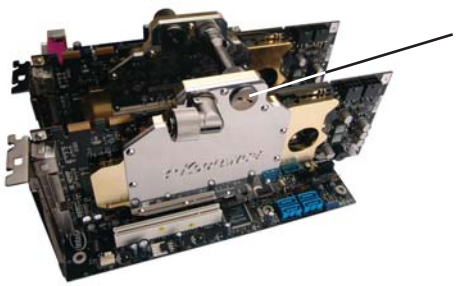
Using the Koolance-supplied screws and plastic insulating washers, tighten each screw on the reverse side of the card.



Koolance-Supplied Screw and Insulating Washer



Koolance VID coolers include redundant G1/4 threading on both sides. This means the input/output nozzles can be placed on either side of the cooler.



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

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Connecting VID Coolers in SLI or CrossFire

When connecting multiple VID coolers in series, 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)