

1 **KOOLANCE** VID-38xx Installation Guide v 1.1

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

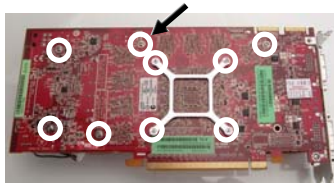


CAUTION: Removal of the original heat sink may void your manufacturer's hardware warranty. Please consult the manufacturer if unsure, and keep all original parts in case of a return/RMA.

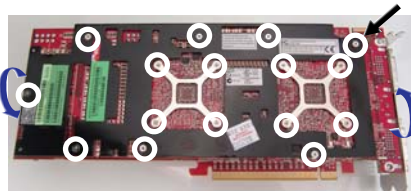
Most cards using the VID-series blocks are disassembled the same way, although heat sink assemblies of any given model can vary.



The rear GPU retention bracket and backplate screws should be removed first (on the video card's bottom side). There should be 9-24 of these on the video card. There may also be heat sink mounting screws on the side of the L-bracket and/or on top of the video card.



Example 1: HD 3870 Disassembly Screws



Example 2: HD 3870 X2 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 heat sinks and thermal material, and wipe any residual thermal material from the main GPU chipset.

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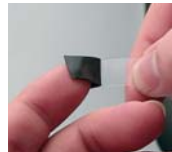
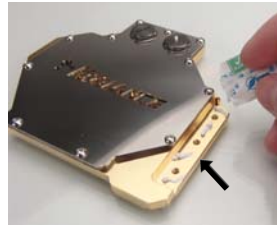


Thermal paste is only required on the main GPU(s). The other areas will utilize the included heat transfer pads.

Spread thermal compound on 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.



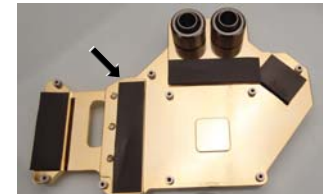
(VID-385 & VID-387) Apply a small amount of thermal paste to the junction between the voltage regulator block and the main VID cooling block. Attach the voltage regulator block to the main VID block using the included 3 large screws.



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

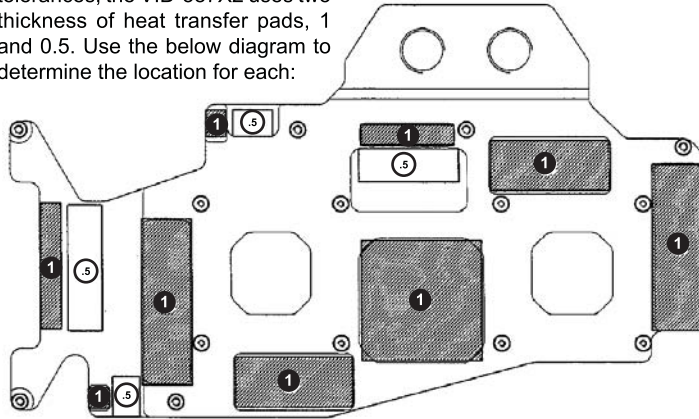
Place the included heat transfer pads on each additional area cooled by the Koolance liquid block.

For the VID-385 & VID-387, this includes 3 rows of memory, and 1 power/VReg area. For the VID-387X2, see the following diagram.

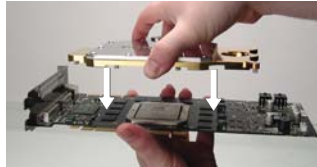


Radeon HD 3970 Thermal Pad Areas

- 3** (VID-387X2) Due to video card tolerances, the VID-387X2 uses two thickness of heat transfer pads, 1 and 0.5. Use the below diagram to determine the location for each:



Place the Koolance block over the video card. The original rear GPU bracket and plate (if any) will be used with the Koolance block.



Tighten each screw on the reverse side of the card. If the original mounting screws do not fit, use the Koolance-supplied screws and plastic insulating washers.

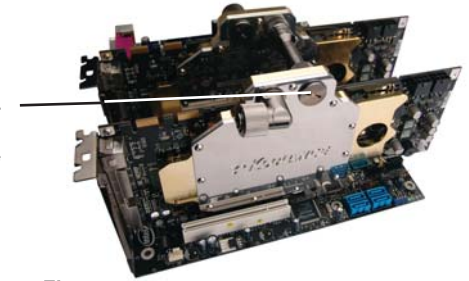


Koolance-Supplied Screw and Insulating Washer



- 4** Koolance VID water blocks 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 Koolance VID-series coolers which can be placed opposite the desired nozzle locations.



Connecting VID Coolers in CrossFire

When connecting multiple VID coolers (such as in CrossFire), 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)

