1 KOOLANCE VID-398GX2 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. Installation of water cooling products is done at the user's own risk.

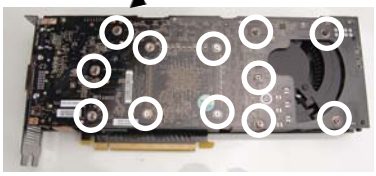
The initial screws holding the video card enclosure together should be removed first. There should be about 8 of these on the bottom and rear ends of the video card.

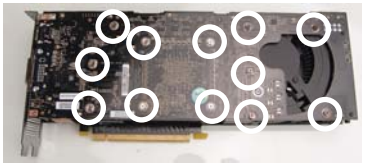
Gently pry apart and remove the looser half of the enclosure. This will give access to 2 more screws that require removal.

Removing the remaining half of the enclosure is a little more complicated. It will be latched near two points: the PCI-E slot board and the 8-pin power plug. Gently pry the enclosure over these areas to remove it. Be careful not to damage either video board!

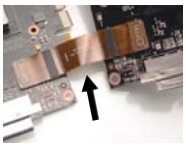
2

With the enclosure removed, the primary video board screws can be accessed. Remove all 12 of these from each video board (24 screws total).



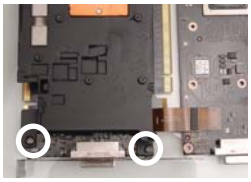


Unscrew all four DVI port hex nuts on the rear L-bracket. Then gently pry apart the loosened video board (no longer attached to this L-bracket).



Both data ribbons should remain connected to both video boards. If either comes loose during diassembly, reconnect the ribbon to the appropriate plug.

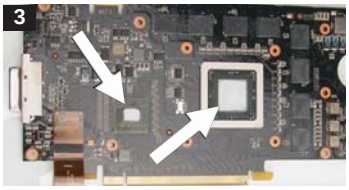
The final two screws holding the L-bracket and original heat sink can now be removed.



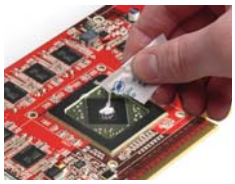
The heat sink and fan can now be **carefully** removed. Original thermal paste may present additional resistance while removing the heat sink.

Unplug the heat sink fan wire. Remove the original memory and VReg thermal pad material, and wipe any residual paste from the main GPU chipsets. Do this for both video boards.

3



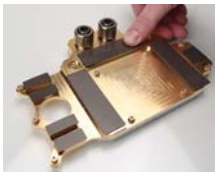
Thermal paste is required only on the two main GPU's, and the single PCI-E chip. The other areas will utilize the included heat transfer pads.

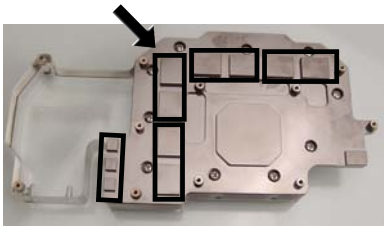


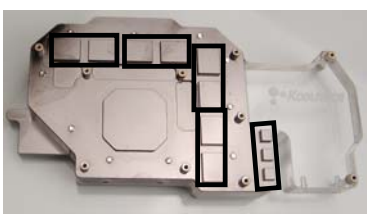
Spread thermal compound on the GPU thinly and evenly using the included paste packet, or a piece of thick paper (such as a business card). Thermal paste should not be placed on the surrounding metal support frame or small surface soldered components.

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

Place heat transfer pads to cover each additional area cooled by the Koolance liquid block. This includes memory rows and power/VReg areas on both video boards. Thermal pads can be cut to accommodate different shapes.

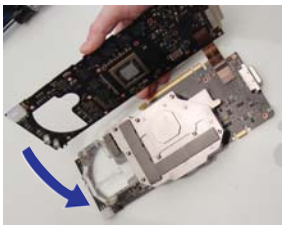






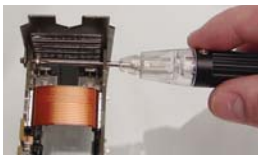
4

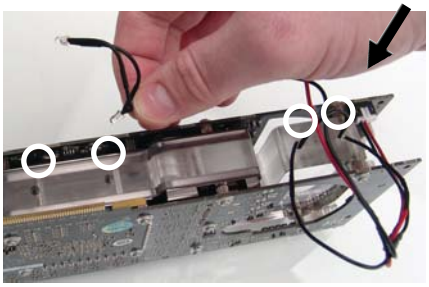
With thermal material in place, lay the Koolance water block over the bottom video board (the PCI-Express slot side).



Using the Koolance-supplied screws and plastic insulating washers, tighten all 12 screws on the top video card. Then repeat this for the bottom video board.

Replace the rear L-bracket and tighten all 4 DVI port hex nuts. Using a small screw driver, replace the two video board screws that threaded into the L-bracket.





Koolance's water block includes a small strip of blue LED lights. This can optionally be installed to illuminate the water block.

For power, connect this LED strip to the video card's original fan plug. Then slide each LED light into the small receptacles in the bottom of the acrylic water block body. A small drop of hot glue can help hold each LED in place.