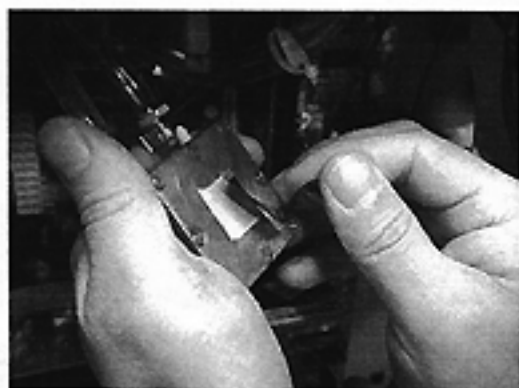


Congratulations on your purchase of a Koolance PC! Included in this document is a general installation guide, and tips for maintaining your Koolance system.

Caution: Please follow the installation procedures described below carefully. Installation should only be done by an experienced hardware assembler. Koolance can not be held responsible for any damages incurred as a result of incorrect installation, or improper use of this product.

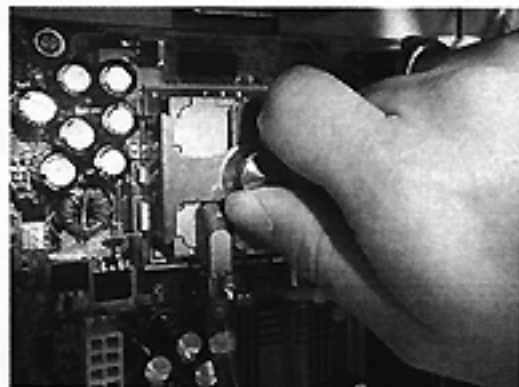
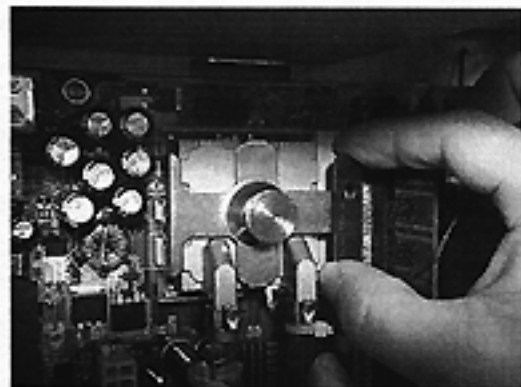
1) Mount all of the hardware components as you would a normal system (leaving aside the videocard and hard drive, if cooling components have been purchased for them).



2) Remove the protective tape from the bottom of the CPU cooling jacket, leaving the thermal pad in place.

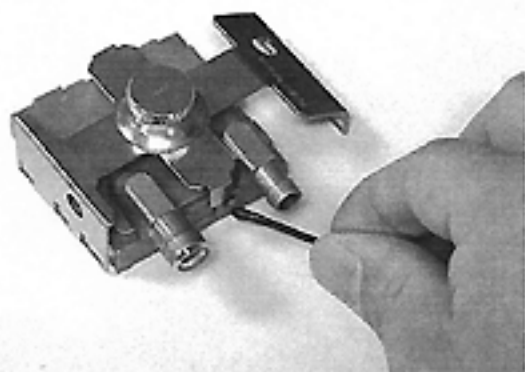
3) Place the cooling jacket on the processor, hinging the mounting bracket around the socket. Gently leverage-over the other half, using a screwdriver on the given hole if necessary. The bracket will only fit in one direction. (You may need to remove the RAM for this part of the installation.)

WARNING: The CPU Jacket is only designed to accommodate AMD Socket 462 (A), Intel Socket 370, and Socket 7 processors. Do not attempt to mount the CPU cooling jacket on any other processors.



4) Gradually tighten the adjustment screw with your entire arm, stopping when your fingers can no longer easily turn the screw. **Do not use tools of any kind to adjust the CPU Jacket screw.**

WARNING: Do not over-tighten the CPU Jacket screw. The recommended poundage for an AMD K7 and Intel PIII is 15psi (avg). It is possible to damage or crack the chip by applying excessive force, although the damage may not be visible.



5) Insert the CPU thermal probe firmly into the special cavity (located behind the processor jacket). There is a thermal adhesive within the hole to help keep the probe there. We recommend zip-tying the probe wire to a nearby liquid tube for stability.

Video Card Cooling Component (If this optional component was not included with your Koolance PC, please skip to **step 9**)

6) Removing the videocard heatsink depends on the type of mounting involved. Cards with smaller heatsinks are typically glued-on with solidified paste, while larger ones are bolted or screwed.

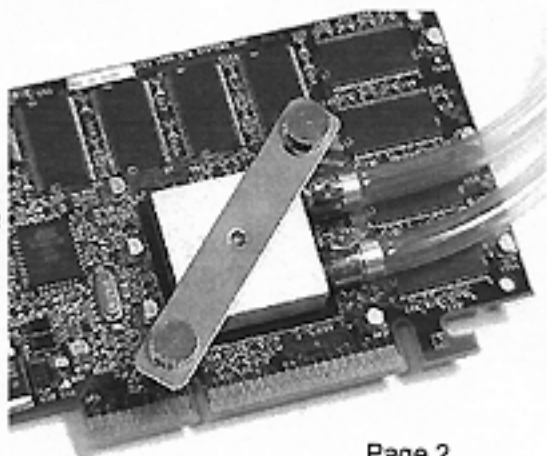
Remove the original heatsink by either squeezing the bottom tabs with needle-nose pliers (if attached by bolts), or carefully pulling off the heatsink (if attached with glue).

WARNING: Koolance does not recommend removing a manufacturer's heatsink that is glued-on, or otherwise attached with an adhesive. Doing so can damage the chip, and this should only be done at the user's discretion.



7) Peel both coverings off each side of the included thermal pad, and press against the videocard cooler. It should be attached metallic-side up, on the flat bottom side of the cooler (not the top side with the small central receptacle).

8) Be sure to carefully remove any trace of manufacturer thermal paste from the videocard chipset before attaching the liquid cooling component. Firmly press the heatsink against the videocard chip, with the tubes facing *backwards* from the card. If there are attachment holes on either corner of the chip, use the included metal or plastic screws to keep the bracket in place over the cooler. The node on the attachment bracket should meet the receptacle on the top side of the video cooling component. If the heatsink was originally glued-on, the metallic tape will be enough to hold it in place.

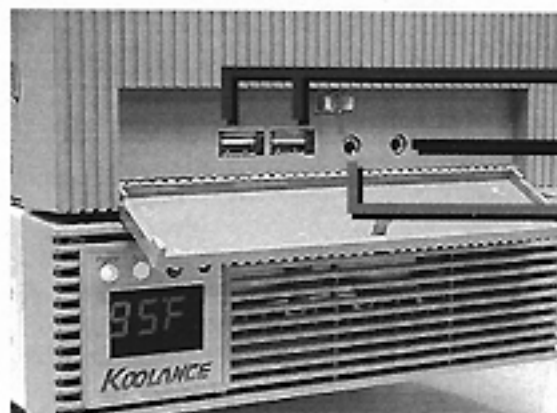
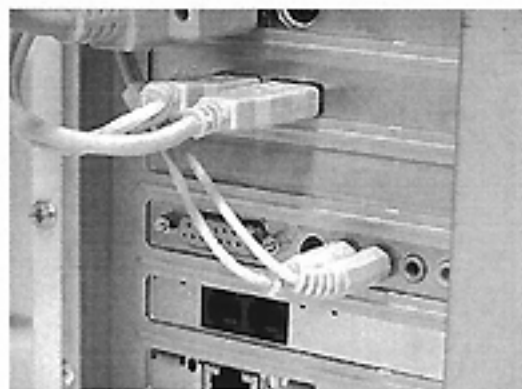


9) After all of your components have been installed, turn on the system and check that the power LED on the controller board is lit. The LED temperature should display the current reading. Keep an eye on this display, as if it does not increase after the system has been on for a few minutes, the probe may be mis-attached, or another component could be malfunctioning (i.e. CPU, motherboard, power supply, etc.).



- Power LED for Control Unit
- Acceleration LED for Fan Activation
- Fault LED for Cooling System (Alarm)
- Toggle Button for Fahrenheit & Celsius

10) The front-mounted USB ports and audio jacks must be plugged into their corresponding back ports if you wish to use them. The USB ports can be plugged into any available locations in back, whether on the motherboard, or an extra USB header card (shown in the picture). Follow your soundcard instruction manual for distinguishing the microphone and headphone plug-ins.



USB Ports #1 & #2

Headphone Jack

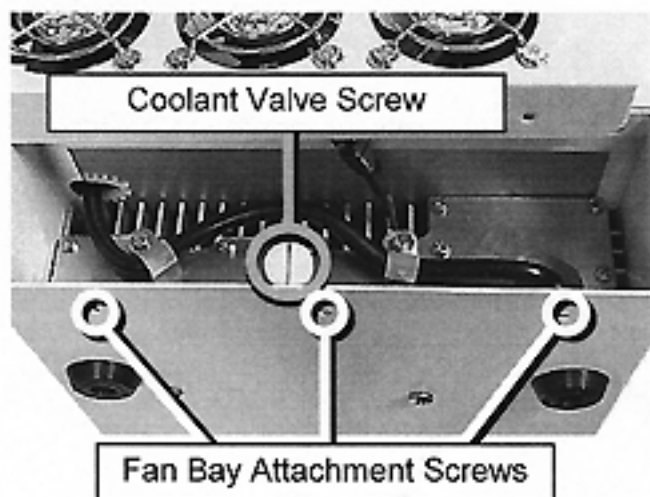
Microphone Jack

General Maintenance & Other Information:

- The cooling fans will activate at 35°C (95°F), at about 45% power. They will reach 100% at 50°C (122°F).
- The average temperature for a Koolance PC system is 35-38°C (95-100.4°F) at an ambient temperature of 23°C (73.4°F) with *processor and power supply liquid cooling*. This can vary, depending on processor type, the number of cooling components in the system, ambient temperature, and humidity.
- The Fault alarm will sound if the LED temperature reaches 55°C (131°F). If this should occur, shut down the system. Check for crimps or blocks in the tubing, and be sure the CPU cooling jacket and thermal probe are seated properly. If the alarm continues to sound after rebooting, contact your local Koolance distributor.
- If you suspect a leak of any kind, shut down the system and contact your local Koolance distributor.

Liquid Level:

After a few years, oxygen might have accumulated so that the coolant level will appear slightly diminished. To refill the liquid, turn the system face-down, and remove the rear exhaust fan bay. Beneath this is a valve screw for the main coolant tank, which should be removed. After 15-30 seconds, most of the air will have escaped out of the system. Fill the tank completely (distilled water can be used for this process, but should *not* be used to replace the original Koolance liquid). Put the valve back on tightly, and re-secure the fan bay.



Please see our website for an FAQ, and additional maintenance information:

www.koolance.com