

# 1 KOOLANCE CPU-345, CPU-350 Installation Guide v 1.1

**CAUTION:** Be sure to attach the Koolance temperature probe to the CPU cooler during installation. The safety features of your system may not function properly without the correct placement of this probe, and hardware damage can result.



Install two G 1/4" threaded nozzles (sold separately) into the cooling block. Hand tighten all nozzles-- overtightening can damage the block.



Remove any protective film from the bottom of the cold plate.

Place the temperature sensor on the edge or side of the water block's metal cold plate. The sensor is required for automatic Koolance fan control and safety features.

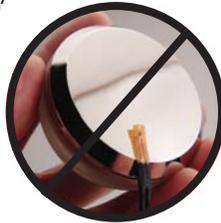


DO NOT attempt to install the temperature probe in between the processor and cooler. Despite its thin size, it will interfere with CPU contact or burn-out the sensor.



Trim out a piece of metal tape and apply it to keep the temperature probe in place. DO NOT stick metal tape or the temperature probe where the processor comes in contact with the cooler.

You can use a zip-tie to further secure the temperature probe wire to the CPU water block's tubing.



Some processors, like AMD socket 754/939/940, require removal of the motherboard's black plastic retention frame in order to install the Koolance water block.

If present, remove this retention frame by unscrewing its screws, or if plastic tabs are used, pulling out these locking tabs.

Your Koolance water block may have threaded or hinging posts. Installation varies with both types.

(Refer to bracket diagrams on the following page for specific CPU post positioning.)

**Threaded posts** are screwed directly into the CPU block's rear bracket. Pliers or a small wrench may be required to fully tighten the posts.



Threaded Posts



Hinging Posts

**Hinging posts** are simply inserted through the rear bracket. However, the beveled edge of the post holes must correspond with the head of the hinging post. Each post head should sit flush with the rear bracket.

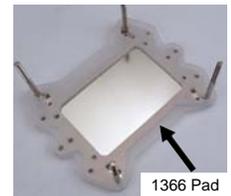


Hole Bevel



Place the required rubber insulation pad over the bracket posts.

For Intel socket LGA 1366, use the pad with the rectangular center hole to accommodate the motherboard's default plate.

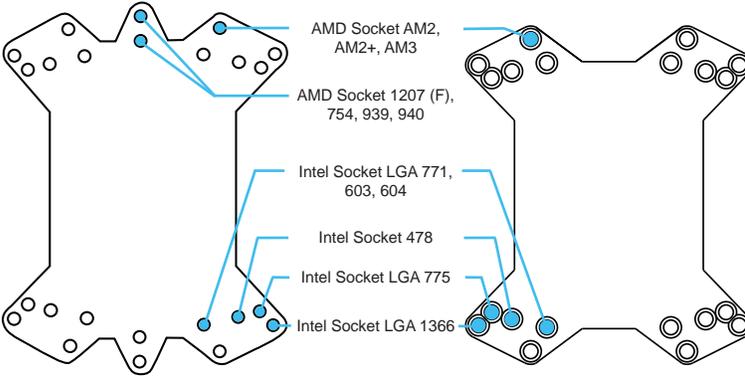


1366 Pad

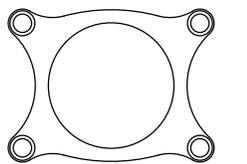
3 Use these Koolance CPU bracket diagrams to determine which holes your mounting posts must be inserted into.

## Threaded Posts

## Hinging Posts



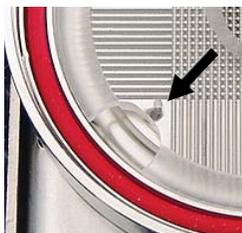
Threaded Posts - Top Bracket  
(Left: Intel, Right: AMD)



Hinging Posts - Top Bracket

**NOTES ON DISASSEMBLY:** Both the CPU-345 and CPU-350 can be opened (for cleaning, etc.) by carefully unscrewing the top cover from the cold plate. This is easier to do with nozzles installed. Be sure all internal rubber O-ring gaskets are properly positioned during reassembly.

During reassembly, the CPU-350's internal constriction plate should be positioned so that its small corner alignment hole matches with the cold plate's corner alignment hole.



4 Apply thermal paste to the CPU directly. Spread the paste so that it evenly covers the CPU. A piece of thick paper (such as a business card) works well for this.



Place the CPU cooler on top of the processor. The temperature sensor should already be installed on the cooler.

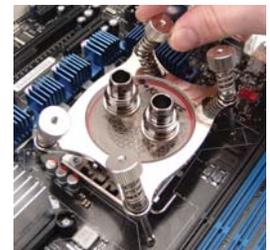
**For hinging posts,** place the mounting bracket over the CPU cooler. On the end of each post, insert a metal pivot ball. Finally, use 4 springs and thumb nuts to secure the water block against the processor. DO NOT OVER TIGHTEN! Keep the water block approximately centered over the processor when tightening.



Place mounting bracket



Insert metal pivot balls



Tighten spring and thumb nuts

**For threaded posts,** place the mounting bracket over the CPU cooler. Use either 2 or 4 springs and thumb nuts (depending on socket type) to secure the cooler against the processor. DO NOT OVER TIGHTEN!



Place mounting bracket



Tighten spring and thumb nuts