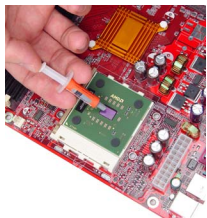# KOOLANCE CPU-300 Installation Guide v 1.01

Apply thermal interface compound directly to the CPU die. Do not add more than is necessary to cover it with a very thin layer.

Remove the protective film from the bottom of the CPU cooler.

(For Koolance Systems) Insert the temperature sensor into *either* bottom groove on the CPU cooler. The sensor is required for proper fan speed control and system safety features.
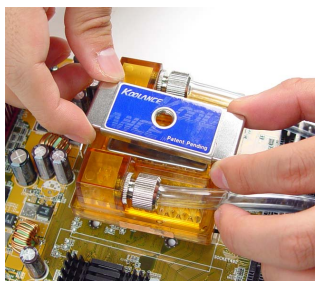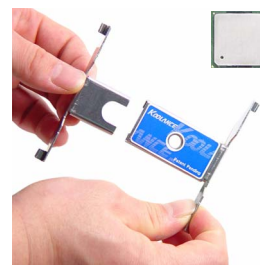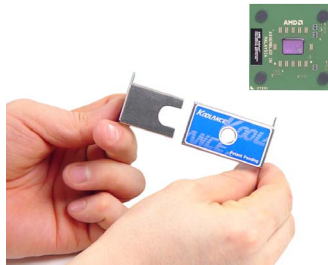
Apply metal tape to keep the temperature probe in place. Do not stick metal tape to the the raised (polished) portion of the CPU cold plate.

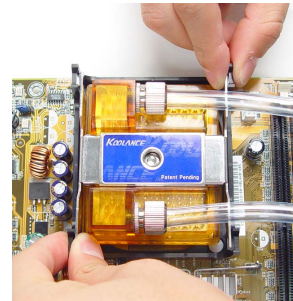You can use a zip-tie to further secure the temperature probe to the CPU tubing.

> ⚠️ **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.

Assemble the CPU mounting bracket using the appropriate clips. The longer pair are for Intel P-4 processors; the shorter are for AMD Athlon/XP and Intel P-III processors. (AMD 64/Opteron and Intel Xeon require additional adapters. Please see www.koolance.com.)
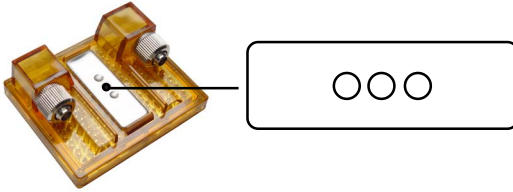
Clips for AMD socket 472 & P-III socket 370

Clips for P-4 socket 478

Fit the cooler and mounting brackets onto the CPU socket. The bracket clips slide inward and outward in order to hook to the socket tabs. Check that the bracket clips are aligned before installing the tension screw.

The tension screw must be aligned over the center of the CPU (particularly for AMD Athlon/XP processors). Otherwise, insufficient contact could result in poor performance, or even damage. There are 3 metal center receptacles on the CPU-300 cooler:
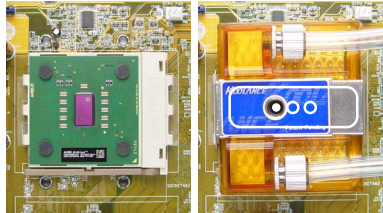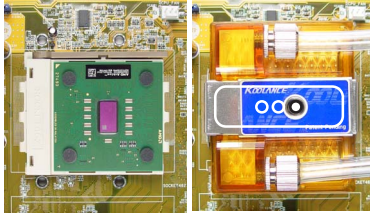
3 center holes correspond with different CPU socket positions

⚠️ **CAUTION:** Installing the tension screw into the wrong cooler receptacle can cause insufficient cooler contact, and may result in hardware damage.

For AMD Athlon/XP processors, the left or right receptacles will be used, depending on which direction the CPU socket faces in relation to the cooler. For Intel P-4, Xeon, AMD Athlon 64, or Opteron processors, use the center hole.

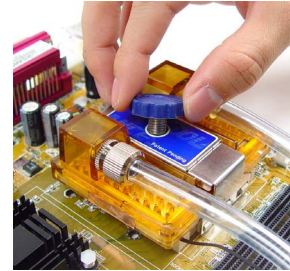*Screw alignment for right-side AMD Athlon/XP processors*

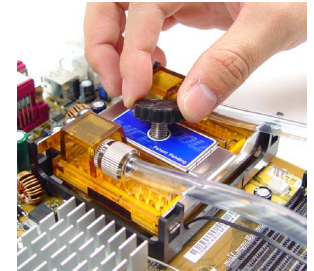*Screw alignment for left-side AMD Athlon/XP processors*

Screw alignment for P-4/Xeon and Athlon 64/Opteron processors

Due to different contact pressure requirements, two tension screws are included with the CPU-300. Use the **BLUE** screw for "open die" processors, such as: AMD Athlon/XP or Intel P-III. Use the **BLACK** screw for processors with heat spreaders, such as: Intel P-4, Xeon, or AMD 64/Opteron.

AMD Athlon/XP Blue Screw

Intel P-4/Xeon & AMD 64/ Opteron Black Screw

⚠️ **CAUTION:** Installing the incorrect tension screw for your processor may result in hardware damage.

With the bracket properly aligned, insert and slowly twist the tension screw until it can no longer be tightened. Over-tightening is prevented by a ratcheting action.