

MCW5000-PX™ WATER-BLOCK

INSTALLATION GUIDE FOR XEON PROCESSORS

Parts list

Parts	QTY	PARTS	QTY
MCW5000-PX™ assembly	1	Arctic Alumina Thermal compound	1
Tube inserts	4	Hex L-key	1
Tube removal tool	1	Motherboard hardware kit	1

This product is intended for expert users. Please consult with a qualified technician for installation. Improper installation may result in damage to your components. Swiftech assumes no liability whatsoever, expressed or implied, for the use of these products, nor their installation. The following instructions are subject to change without notice. Please visit our web site at www.swiftnets.com for updates.

1. Before you install the MCW5000-PX™ water-block:

a. Prepare two pieces of tubing of sufficient length to connect to the rest of your circuit. The cuts must be square as shown in figure 1 or leaks may occur:

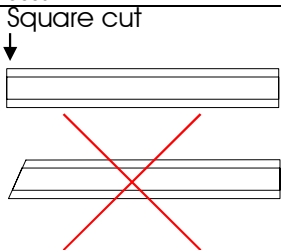


Figure 1

b. Install the provided plastic tube inserts at each end of the tubes, as shown in figure 2: these inserts are absolutely **imperative** when using any kind of **soft** tubing, such as vynil, ClearFlex, Taigon, etc...



Figure 2



Figure 3



Figure 4



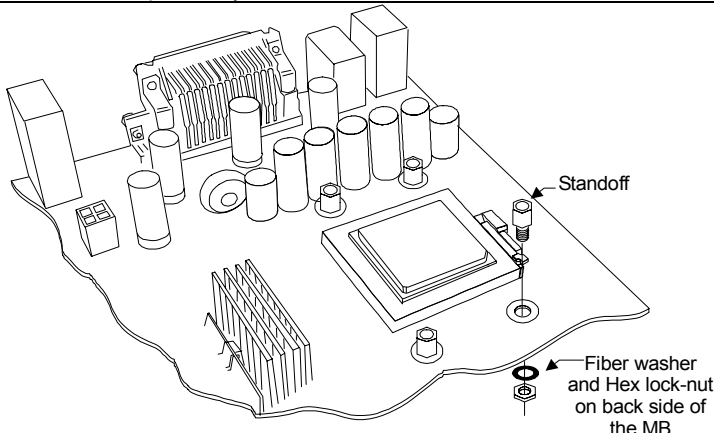
Figure 5

c. Spread a little bit of grease or soap (Vaseline, dishwashing liquid, etc..) around the tubing. It helps pushing the tubes in, particularly with Clearflex™ tubing, which features a very “sticky” surface.

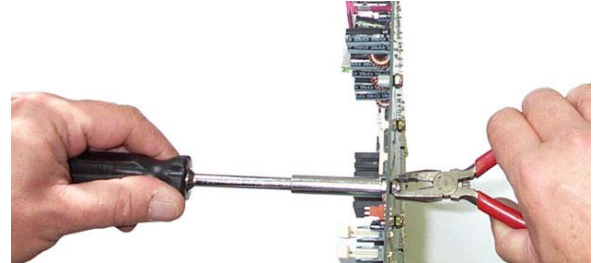
d. Fully insert both tubes into the fittings. The tip of the plastic tube inserts should be flush with the inlet and outlet openings, as shown in figure 4 above. Inserting the tubes requires a firm push, accompanied by a twisting motion.

2. Preparing your Motherboard

- Remove the existing heat sink
- Carefully clean the CPU.
- Lightly coat the CPU with the provided thermal compound. **Only a paper-thin coat is necessary.** It should be applied using preferably a razor blade, or a credit card, held between thumb and index at a 45-degree angle.



Install standoff in each one of the four holes surrounding the socket. Keep the standoff centered over the MB holes, and secure with fiber washer and locknuts on backside of the MB.



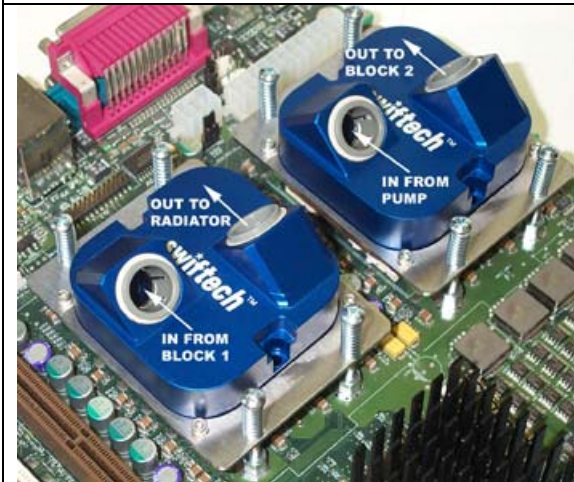
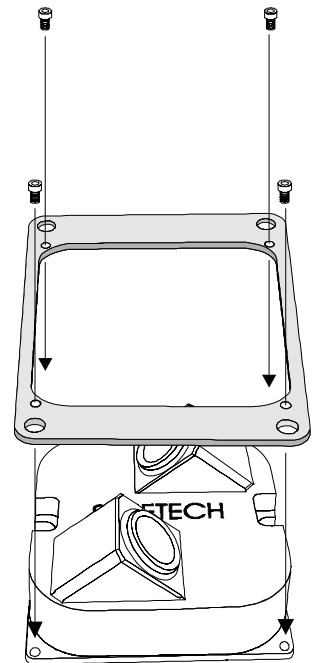
Maximum torque not to exceed 16 in lb

3. Installing the MCW5000-PX™ water-block

Block orientation

The MCW5000-PX can be oriented in any direction that suits your needs. Removing the 4 socket screws that attach the frame to the housing will allow you to rotate the frame 90°, so that inlet and outlet face up and down instead of left and right. This does not affect the performance of the block, nor the ability to bleed it properly.

Assemble stainless steel frame from above water-block to use with spring/screw & standoff in retention system



Install the block onto the CPU, and **gradually tighten the screws** in a crisscross pattern until you feel that they reach the bottom of the standoff. A “finger-tight” lock is sufficient, do not jam the screw into the standoff ! Conversely, adjustments such as tightening the screws only partially are **strictly prohibited**. Such attempts will result in improper contact between the CPU core and the heat sink, and result in CPU overheating.

Cooling circuit setup in dual CPU configurations:

In a dual CPU configuration, simply connect the blocks in series as shown in the picture to the left.

4. **Connect the block to the rest of the cooling circuit.**

The block is designed in such a way that it will bleed itself automatically in any vertical orientation (computer standing-up). Recommended coolant: distilled water+ algacides & corrosion inhibitors are mandatory (automotive antifreeze).

5. **Final inspection**

Once the installation is completed, **it is always a good idea to test the circuit for leaks, prior to powering up the computer.** Troubleshooting help is available on our web site at www.swiftnets.com, or by calling customer support at 562-595-8009.

Note concerning removal of the tubing: Push in collet squarely against face of fitting. A tube removal tool is provided with the MCW5000 block. With the collet firmly held against the face of the fitting, the tube can be safely pulled out. Do not attempt to pull the tube out without pushing squarely against the collet. This may result in damaging the fitting. Further details for using quick-connect fittings are also available here: http://www.johnguest.com/install_6.shtml#disconnect:

