

MCW5000-64™ WATER-BLOCK INSTALLATION GUIDE FOR ATHLON 64™

Parts list

Parts	QTY	PARTS	QTY
MCW5000-64™ assembly	1	Aluminum tension limiter	2
6-32 x 1 ¼ Philips screw	2	Springs	2
Nylon shoulder washers	2	Arctic Alumina Thermal compound	1
Tube inserts	4	Nylon spacers	2

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 MCW5000-64™ 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:

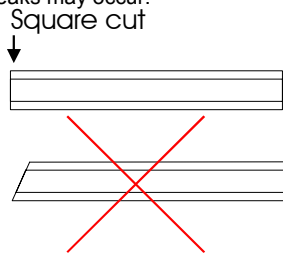


Figure 1

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

c. **Spread a little bit of grease or simple liquid soap** around the tubing. It helps pushing the tubes in, particularly with Clearflex™ tubing, which features a very "sticky" surface.



Figure 4



Figure 5

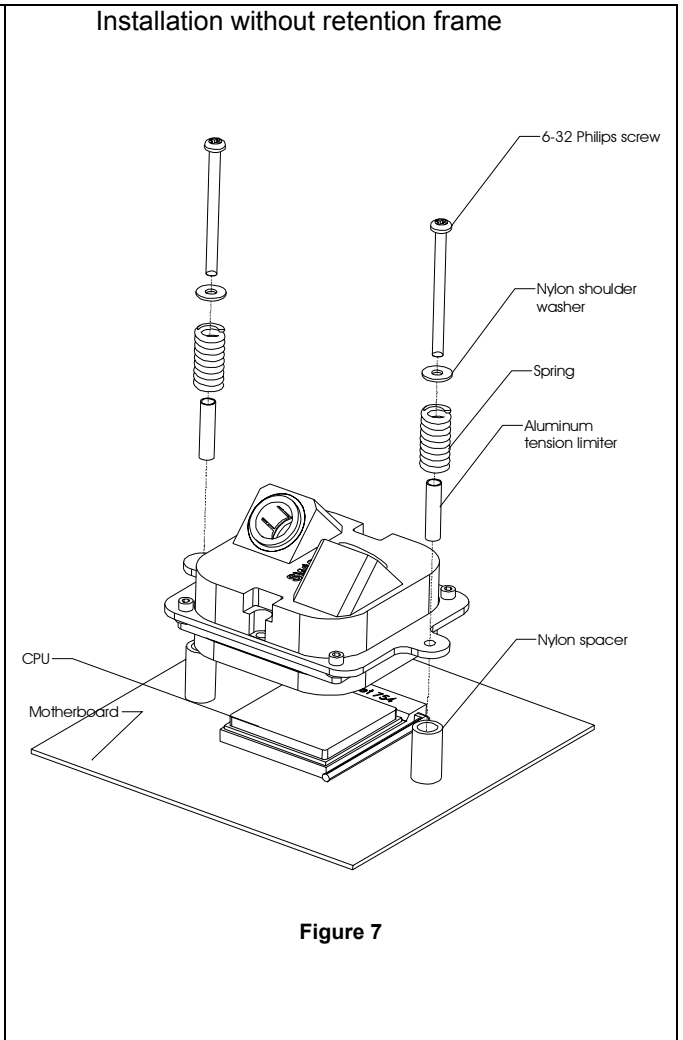
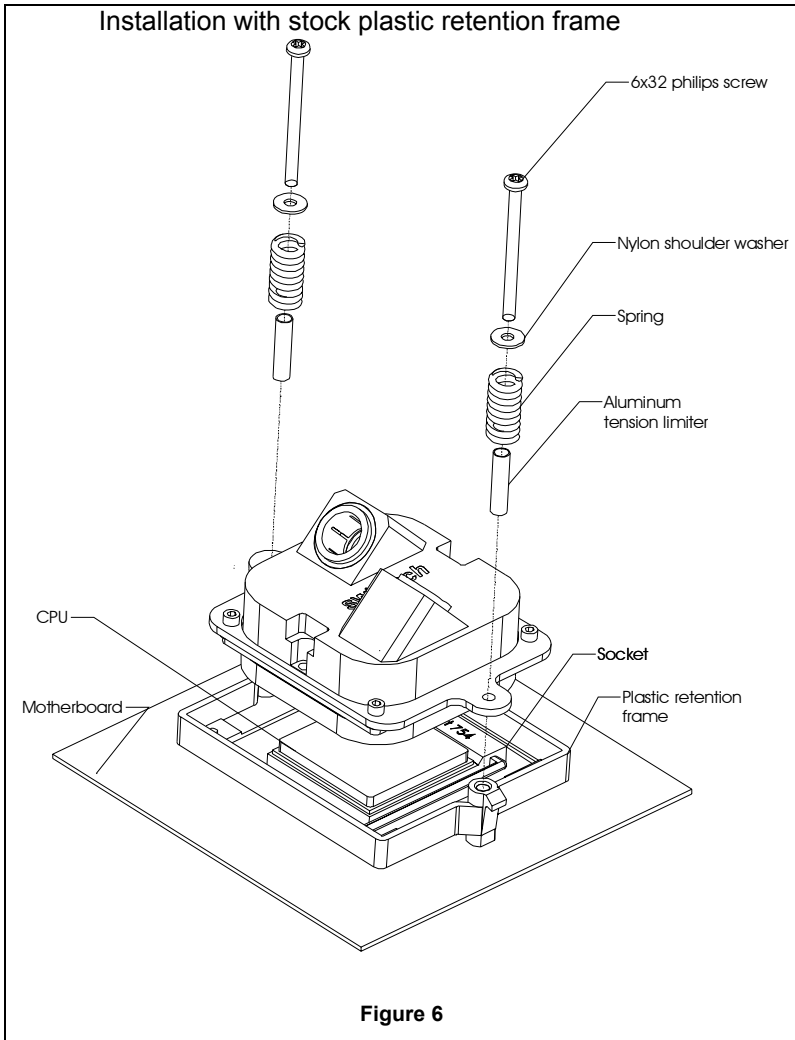
d. **Fully insert both tubes into the fittings.** The tip of the plastic tube inserts should be flush with the inlet and outlet openings, as shown in figure 4 above. Inserting the tubes requires a firm push, accompanied by a twisting motion.

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.

3. MCW5000-64™ water-block installation diagram

- Method 1:** The MCW5000-64 water-block bolts onto AMD's validated plastic retention frame with two screw spring assemblies. Please use the retention frame provided by your motherboard vendor. Remove the two existing screws that hold the frame in place, place the water-block assembly onto the CPU, and use these two holes to bolt down the spring assemblies, as shown in figure 6, page 2. Each spring assembly features an aluminum spacer acting as a tension limiter. It's main purpose is to guarantee that each springs is compressed to the exact same amount of tension (35lbs each).
- Method 2:** It is also possible to **install the MCW5000-64 without the stock plastic retention frame.** However, you **MUST** then use the nylon spacers provided with your accessories package as shown in figure 7, page 2. These are necessary to replace the stock plastic retention frame and to provide support to the entire assembly.



4. **Connecting the water-block(s) to the cooling circuit.**

FAQS:

- Inlet and outlet are interchangeable.
- In Multi-Processor environments, optimal water-block performance will be achieved by connecting them in series (outlet of one connected to the inlet of the other).
- Recommended coolant: distilled water+ algaecides & 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, using swifttech's tube removal tool, or a wrench of approximately the same opening diameter as the tube (1/2" +). 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.

