Parts list

Parts	QTY	PARTS	QTY
MCW6000 or 6002-P™ stepped water-block	1	S775 hold-down plate & hardware	1
Worm-drive clamps	2	Céramique™ Thermal compound	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.

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	socket 775	LGA 775 motherboard
2	8	FW140X250X0215FB	Black fiber washer
3	1	S775-bracket6	
4	4	6-32-Acorn-nut	
5	1	MCW6000-A	MCW6000 "Stepped base"
6	4	6-32X1.5-8	6-32 x 1 5/8" philips screw
7	4	SPRING6	70927compressed-to-0337
8	4	6-32-nut	6-32 nut
9	4	12SWS0444	Nylon should washer
10	4	Lock-washer #6	
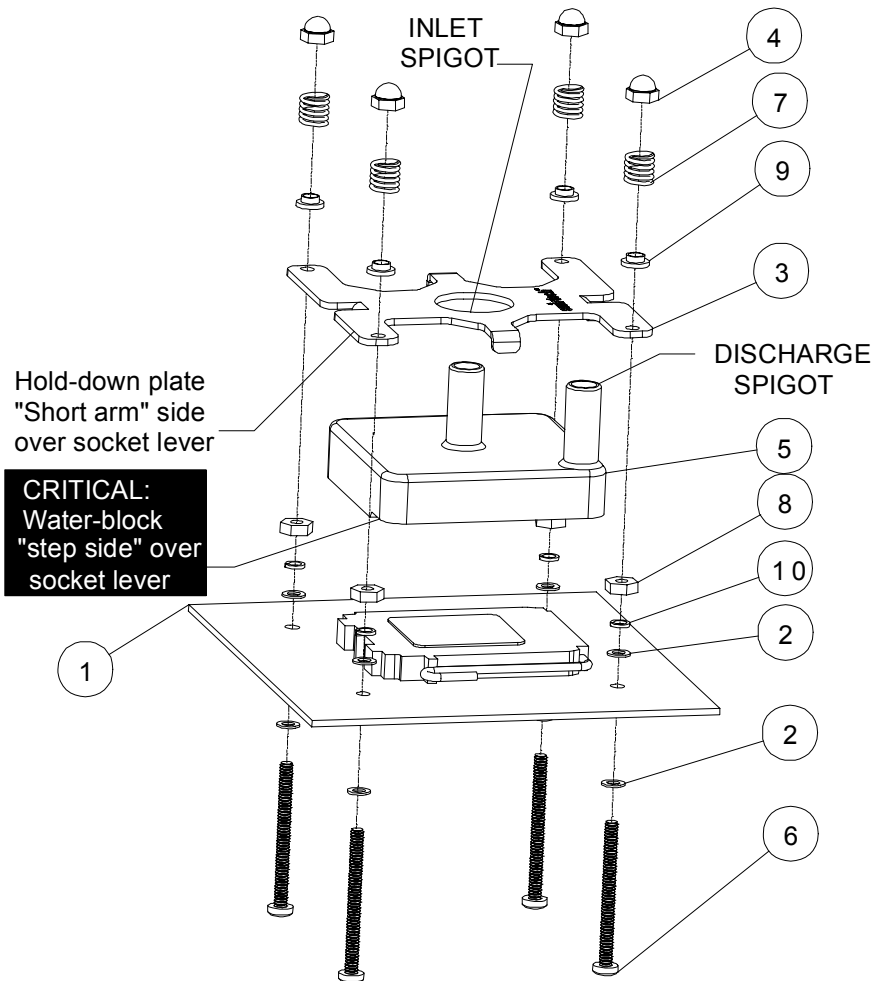
Figure 1

1. **Preparing your Motherboard**
   - ❑ Installation of the retention posts requires removal of the motherboard from the chassis.
   - ❑ Remove the existing heat sink
   - ❑ Carefully clean the CPU.

2. **Retention Posts installation**
   Install all the washers in the precise sequence shown in figure 1. The sequence is: Philips screw, black fiber-washer, motherboard, black fiber-washer, lock-washer, and hex-nut. Using fiber-washers on either side of the motherboard is critical to prevent shorting of the motherboard. Once the posts are securely fastened to the motherboard, you can re-install it inside the chassis. Completed installation is also shown in figure 2.

Figure 2
Install retention posts

3. **Purging the water-block**
   The geometry and keep-out areas surrounding socket LGA 775 require that the MCW6000 & 6002 water-blocks be installed with the discharge spigot facing downwards. In a vertical orientation, this prevents the water-block from purging appropriately. There are two possible strategies to purge the water-block: :

   a. You can fill-up the circuit and purge the water-block of any air trapped inside BEFORE fastening it to the motherboard, as shown in figure 3.
   TIP! If you are using a 12 volts pump feeding from the computer power-supply, **do not start-up the computer while the cooler is not installed on the CPU**. Disconnect the power supply from the motherboard, and use a power supply tester to start it up independently. This will allow you to run the pump by itself, and fill-up the circuit.
   b. If you do not have a power-supply tester, you can install the water-block onto the motherboard, but you will need to fill-up the circuit with the computer laying flat on a table, as the water-block purges correctly when lying horizontally.

4. **Connecting the water-block(s) to the cooling circuit:**
   - ❑ Carefully identify the direction of the flow in your circuit. For the MCW6000 to operate properly, the spigot located at the center of the water-block **MUST BE USED AS THE INLET** (see figure 1 "INLET" spigot).
   - ❑ **Attaching the tubes:** the MCW6000™ and 6002 series ship with worm-drive type hose clamps. Secure the tubes as shown in the picture to the right, and tighten the clamps **firmly**.
   - ❑ **Type of Coolant:** being entirely made of copper, the MCW6000™ series may be used with pure water, and do not necessitate the use of anti-corrosion agents. The use of an algaecide is nonetheless recommended in any liquid cooling system, and our HydrX™ additive also performs such function.

Figure 3
Purge the air from the water-block, by pointing the discharge spigot upwards

5. **Applying thermal compound to the CPU**
   Lightly coat the CPU with the provided Céramique™ thermal compound. Follow this link http://www.arcticsilver.com/ceramique_instructions.htm for detailed instructions.

Rub some compound in base of water-block first, and then clean off with lint-free cloth.

Apply small amount of compound on the CPU heat spreader

6. **Fasten water-block to motherboard**
   Place the water-block on the CPU with the step side above the socket lever. The hold-down plate is asymmetric in order to locate the water-block precisely inside of the "keep out" areas. This guarantees full compatibility of the water-block with all LGA 775 motherboards. Insert nylon shoulder washer and spring on each post, and fasten the acorn nuts in a cross pattern. **Installation is complete!**
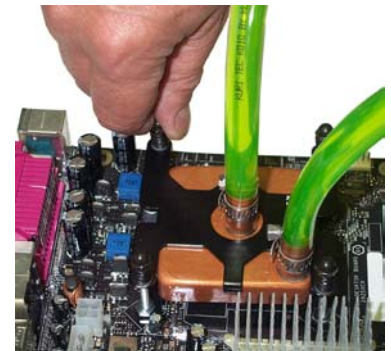

Figure 4
Install water-block, hold-down plate, and fasten the spring-nut assemblies' in a cross pattern (finger tight).