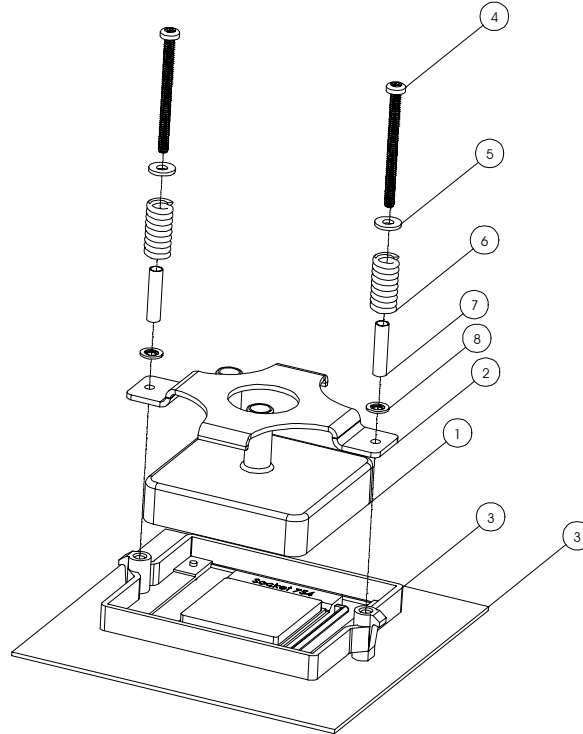


MCW6000 & 6002 SERIES WATER-BLOCKS INSTALLATION GUIDE FOR AMD® K8 PROCESSORS

Parts list

| Parts | | PARTS | QTY |
|----------------------------------|---|----------------------------|-----|
| MCW6000™ or 6002-64™ water-block | 1 | Retention springs & screws | 2 |
| Worm drive clamps | 2 | SK8 hold-down plate | 1 |
| C eramique 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 | MCW6000-R2 | MCW6000 flat base water-block |
| 2 | 1 | S754-RETENTION-r2 | SK8 hold-down plate for AMD K8 |
| 3 | 1 | K8 Motherboard | AMD K8 (Athlon 64 & Opteron) motherboard+ processor assy. |
| | 1 | counter-plate | |
| | 1 | motherboard | |
| | 1 | retention-frame | |
| 4 | 2 | 91772A158-6-32X1.75 | 6-32 x 1 7/8" philips screw |
| 5 | 2 | 93286A041-WASHER | zinc plated washer |
| 6 | 2 | 885 | spring |
| 7 | 2 | spacer-205x140x773 | tension limiter |
| 8 | 2 | 6-32 nylon retaining washer | 6-32 nylon retaining washer |

Figure 1

1. Preparing your Motherboard

- Remove the existing heat sink, and carefully clean the CPU.
- Apply thermal compound: lightly coat the CPU with the provided C eramique™ thermal compound. Follow this link http://www.arcticsilver.com/ceramique_instructions.htm for detailed instructions.

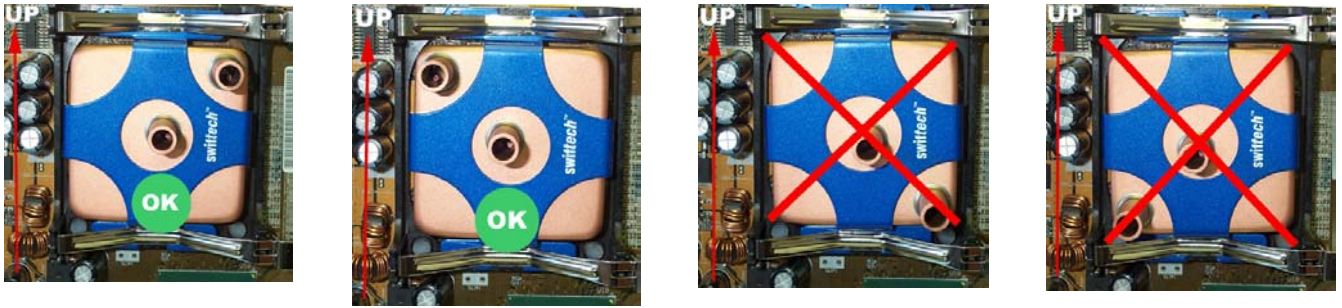


Rub some compound in base of water-block first, and then clean off with lint-free cloth



Apply small amount of compound on the CPU heat spreader

2. Water-block orientation



For ease of operations during bleeding, the outlet should always be at the highest point (while system is standing upright)

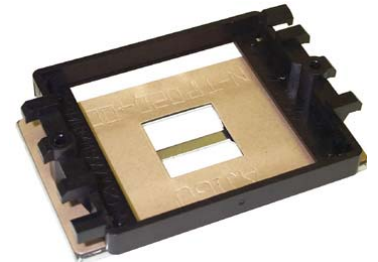
3. Water-block installation

The MCW6000™ series water-block simply bolt onto AMD retention frame as shown in figure 1, using the enclosed spring loaded screws. The tension limiter is designed to provide appropriate tension to the springs. Do not over-tighten the springs.

4. Retention frame issues

Most K8 compatible motherboards are shipped with AMD's validated plastic retention frame and metallic back-plate. In an effort to spare unnecessary costs to the majority of users, Swifttech does not include these items with the MCW6000 series water-blocks.

Some motherboards however use non-standard retention systems, and plastic back-plates instead of the recommended metallic plates described in AMD's Athlon™ 64 Processor Thermal Design Guide. **For this reason, Swifttech offers an optional retention frame and back plate made to AMD standards, under Part # AJ00172 shown to the right.**



5. 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 fitting located at the center of the water-block **MUST BE USED AS THE INLET**.

6. Attaching the tubes:

The MCW6000™ series ship with worm-drive type hose clamps. Secure the tubes as shown in the picture to the right (shown below with an AMD bracket), and tighten firmly.



Tubes attached with the included worm-drive clamps

7. 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 algacide is nonetheless recommended in any liquid cooling system, and our HydrX™ additive also performs such function.

8. 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. **Do not test the water-block using city water pressure.** This will bow the top of the housing and render the block unusable (and will void your warranty). **Maximum pressure allowable for testing is 25 psi (1.7 bar)**

Troubleshooting help is available on our web site at www.swiftnets.com, or by calling customer support at 562-595-8009.

IMPORTANT DISCLOSURES

While all efforts have been made to provide the most comprehensive tutorial possible, Swifttech assumes no liability expressed or implied for any damage(s) occurring to your components as a result of using Swifttech cooling products, either due to mistake or omission on our part in the above instructions, or due to failure or defect in the Swifttech cooling products. **WARRANTY** Our products are guaranteed for 12 months from the date of delivery to the final user against defects in materials or workmanship. During this period, they will be repaired or have parts replaced provided that: (I) the product is returned to the agent from which it was purchased; (II) the product has been purchased by the end user and not used for hire purposes; (III) the product has not been **misused**, handled carelessly, or other than in accordance with any instructions provided with respect to its use. This guarantee does not confer rights other than those expressly set out above and does not cover any claims for consequential loss or damage. This guarantee is offered as an extra benefit and does not affect your statutory rights as a consumer.