

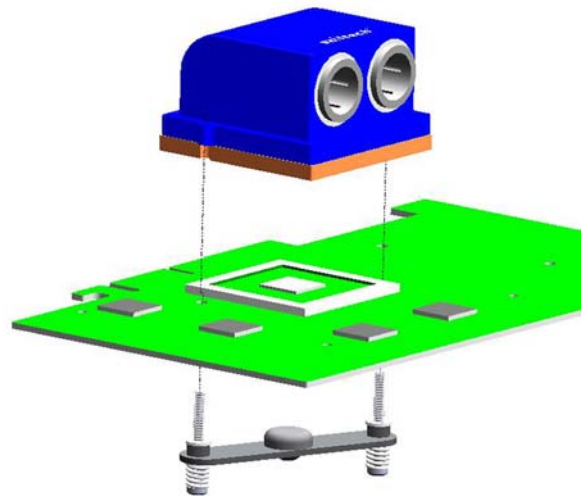
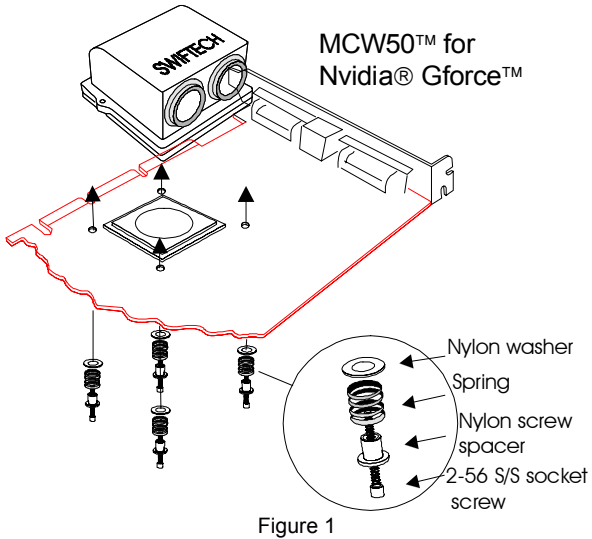
MCW50™ GPU WATER-BLOCK Installation Guide

Parts list

Parts	QTY	PARTS	QTY
MCW50™ assembly	1	Spring	6
2-56 S/S socket screw	4	Nylon retaining washer	2
4-40 x 1" S/S phillips screw	2	Tube insert	4
Nylon screw spacer	6	Thermal compound	1
Nylon washer	4	Socket wrench	1
		ATI stiffening bar	1

This product is intended for expert users only. 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.

Installation diagram



1. Preparing your graphics card

- Remove the existing heat sink
- Carefully clean the GPU (graphics processing unit)
- Lightly coat the GPU 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.

- Before installing the block onto the graphics card** cut two pieces of tubing of sufficient length to connect to the rest of your circuit, and install them into the MCW50™ Inlet and outlet. It is **absolutely imperative** to use the provided tube inserts with clear vinyl (soft) tubing, as shown below:



Shown here with an MCW50-T™ version



Shown here with an MCW50-T™ version



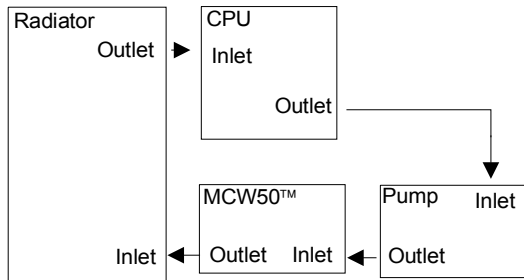
Make sure that the tubes are fully inserted into the fitting. The tip of the plastic tube inserts should be flush with the inlet and outlet openings, as shown above. Inserting the tubes requires a firm push, accompanied by a twisting motion, and a little bit of grease around the tubing really helps ☺

3. Installing the MCW50™ GPU Cooler

The MCW50™ retention mechanism can either use the two diagonal holes featured in many graphics cards such as ATI® Radeon™ 9000 to 9700 families, or the four mounting holes found in NVidia® GeForce™ families of products. It can also be installed with other graphics processors by using permanent bonding agents, such as thermally conductive epoxies. We recommend Arctic Silver™ or Arctic Alumina™ epoxy.

Install your block onto the graphics card, as shown in Figure 1 or Figure 2 (p.1) according to your application. A “finger –tight” lock is sufficient when tightening the spring retention assemblies. Over-tightening will squish the nylon screw spacer body, and result in uneven pressure over the GPU.

- Recommended integration of the MCW50™ in an existing liquid cooling circuit:



- Re-install the graphics card in the AGP slot, and proceed with filling and bleeding the cooling circuit.

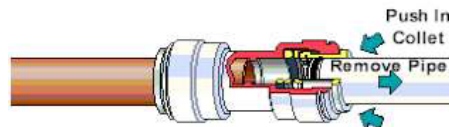
6. Type of Coolant:

- For best performance, use 95% distilled water, and 5% Swiftech brand “HydrX” corrosion inhibitor (available here: <http://www.swiftnets.com/store/category.asp?CatID=2>, under the “accessories” section).
- In ALL cases, you MUST use Distilled water AND a corrosion inhibitor with the MCW5002 water-block. Regular automotive anti-freeze is acceptable. Automotive manufacturers recommend that not less than 25% is used.
- NEVER use tap water, even for a short-term test.
- Not following paragraphs b and c above constitutes misuse (*) of the product, and will void your warranty.

7. 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.

Final note concerning removal of the tubing: Push in collet squarely against face of fitting. With the collet held in this position, 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.johnquest.com/install_6.shtm#disconnect:



IMPORTANT DISCLOSURES

While all efforts have been made to provide the most comprehensive tutorial possible, Swiftech assumes no liability expressed or implied for any damage(s) occurring to your components as a result of using Swiftech cooling products, either due to mistake or omission on our part in the above instructions, or due to failure or defect in the Swiftech 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.