

MCW40-T™

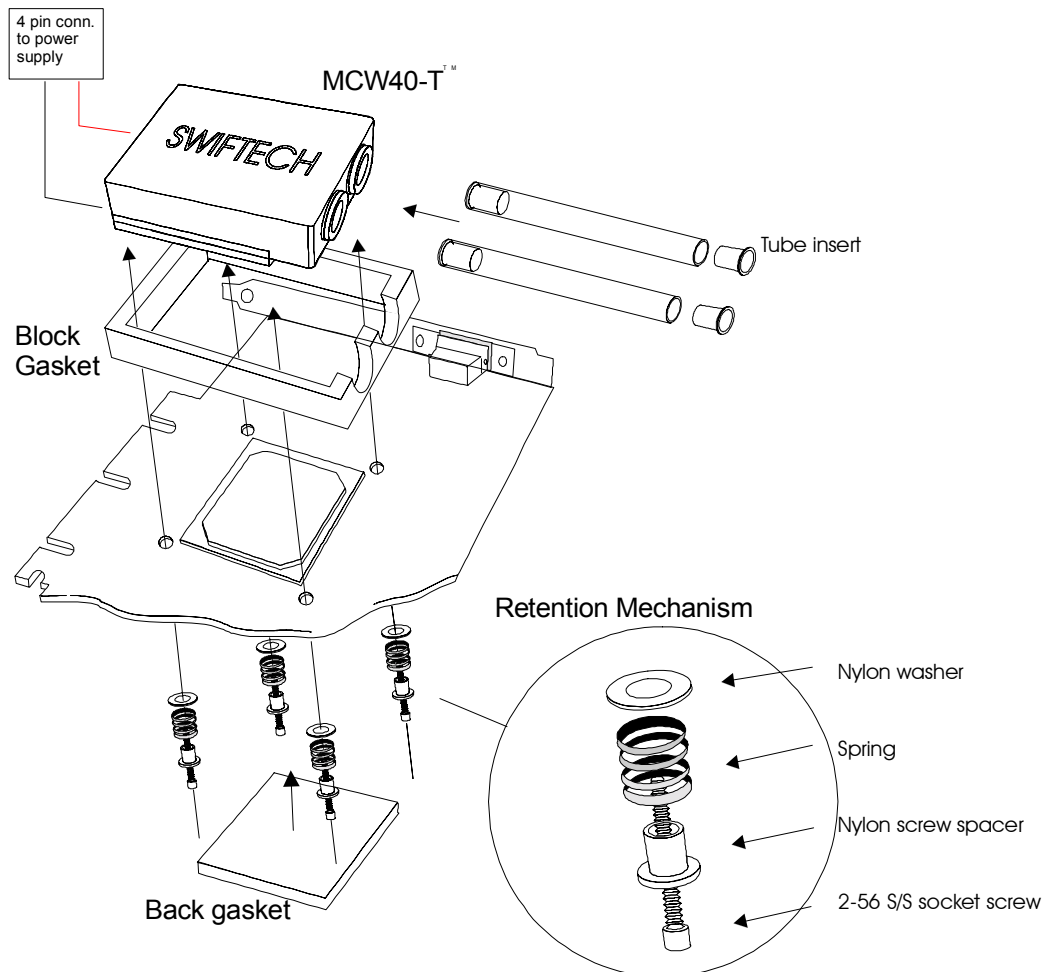
THERMO-ELECTRIC WATER-BLOCK Installation Guide

Parts list

Parts	QTY	PARTS	QTY
MCW40™ assembly	1	3/8" vinyl tubing	3'
2-56 S/S socket screw	4	Tube insert	4
Nylon screw spacer	4	Thermal compound	1
Nylon washer	4	Socket wrench	1
Spring	4	Gaskets	2

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

- a. Remove the existing heat sink
- b. Carefully clean the GPU (graphics processing unit)
- c. Install the block gasket. We recommend coating the surroundings of the graphics processor with dielectric grease, as shown in the example below. This will prevent condensation to form on the surface of the circuit board.



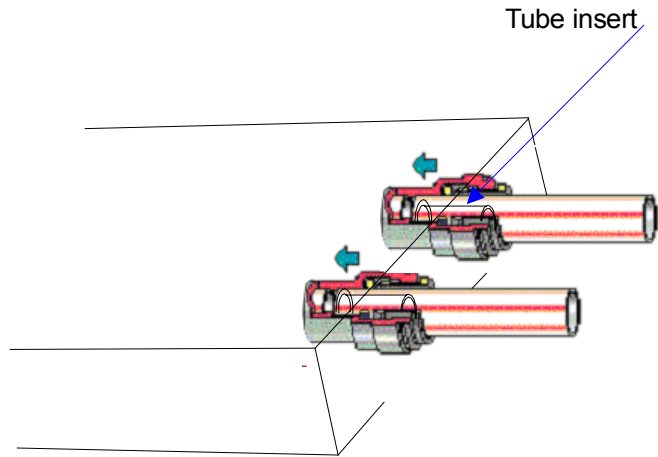
- d. Lightly coat the GPU with the provided thermal compound. **Only a paper-thin coat is necessary.** It should be applied using preferably a razor blade, or a credit card, held between thumb and index at a 45-degree angle.

2. Installing the MCW40-T™ cooler

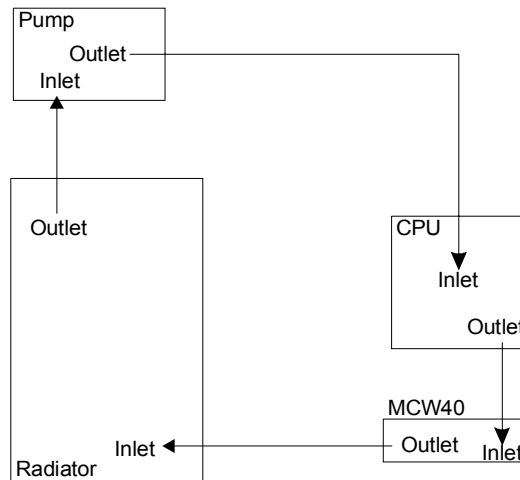
- a. The MCW40-T™ retention mechanism uses the four mounting holes standard specified in GeForce™ GPU's as shown in the schematic above. It can also be installed with other graphics processors by using permanent bonding agents, such as thermally conductive epoxies. We recommend Arctic Silver™ or Arctic Alumina™ epoxy.
- b. The MCW40-T™ can be oriented in any position, as needed to clear components on the board, except for one: the inlet and outlet should not be oriented towards the motherboard as the block would otherwise interfere with installation of the graphics card.
- c. If the graphics card comes equipped with memory heat sinks, it may become necessary to remove or replace the heat sinks with low profile after-market parts. To re-install these heat sinks, Arctic Alumina™ epoxy is recommended for optimum performance instead of thermally conductive tape.
- d. Install the back gasket centered between the 4 retention screws/springs assemblies.
- e. Connect the thermo-electric element to your power supply. Minimum required amperage is 8 amps at 12 volts. A good quality 400 Watts power supply is recommended.

3. Connecting the MCW40T™ to the rest of the cooling circuit

- a. Terminate each end of the tubing with the provided plastic tube inserts. These inserts are mandatory with vinyl tubing, such as provided in your package, but are not necessary with harder types of tubing such as polyethylene.
- b. Insert each tube in the inlet and outlet of the MCW40™. It is essential to ensure that the tube is pushed all the way inside the fitting: with transparent vinyl tubing, a good way to verify correct installation is to make sure that the plastic tube insert is no longer visible outside of the block.



- c. 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 removed with a firm pull. 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
- d. Recommended insertion of the MCW40™ in a liquid cooling circuit:



- e. Re-install the graphics card in the AGP slot, and proceed with filling and bleeding the cooling circuit. A mix of 75% purified water and 25% antifreeze is recommended

4. 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.