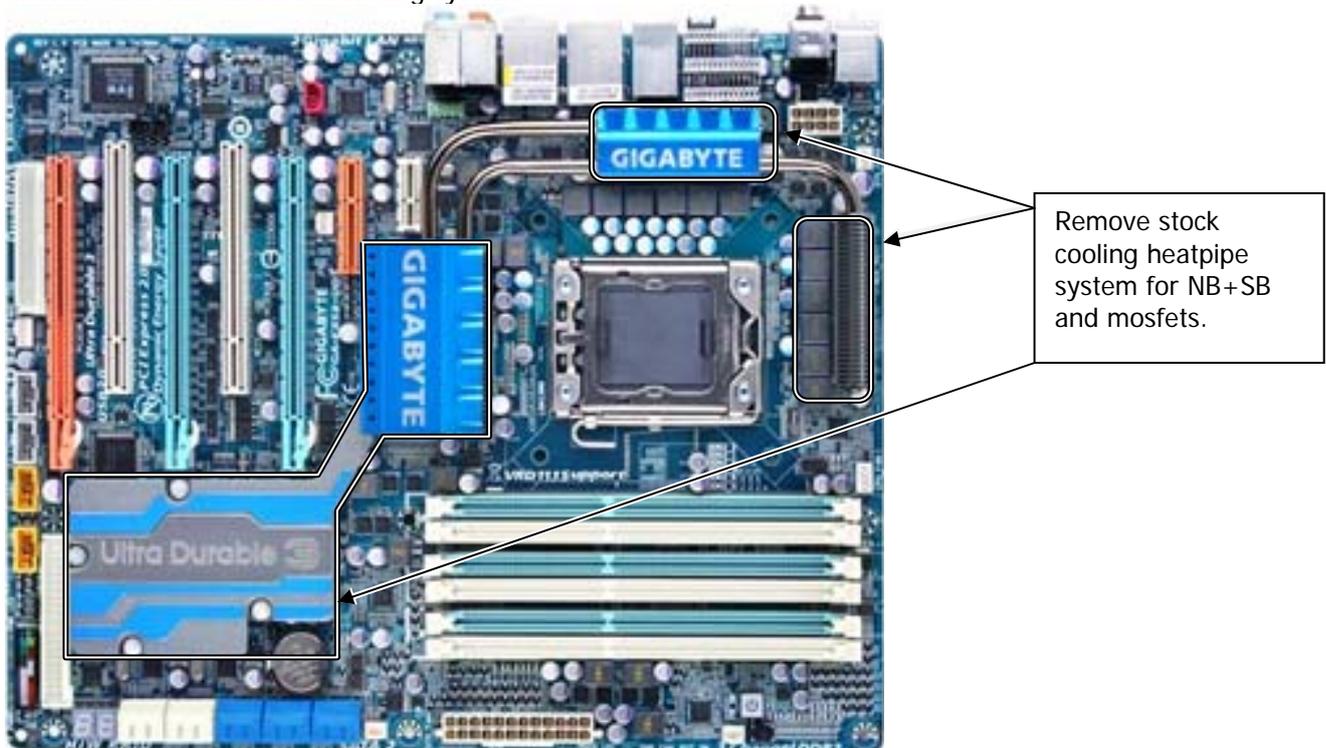# Installation and mounting instructions for **EK-FB KIT GA X58** water blocks:

This product is intended for expert users. Please consult with a qualified technician for installation. Improper installation may result in damage to your components. EK Water Blocks 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.ekwaterblocks.com for updates.

If you need to screw in the fittings, please use small amount of force otherwise the high flow fittings might break. The fittings do not need to be tightened with high force.

Step 1. Please remove the motherboard from the computer case and unscrew all the screws on the back of the motherboard that hold stock cooling system.

Remove stock cooling heatpipe system for NB+SB and mosfets.
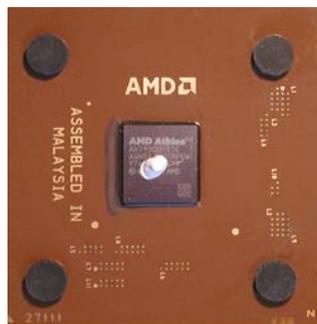
Picture 1: Case shown on GA EX58 UD5 motherboard

Step 2. Remove the stock cooling heat pipe system.

Step 3. Apply thermal compound: lightly coat the heatpipe system over the northbridge with for example Céramique™ thermal compound. Follow this link http://www.arcticsilver.com/ceramique_instructions.htm for detailed instructions. EK Water Blocks recommends non-conductive thermal compound.
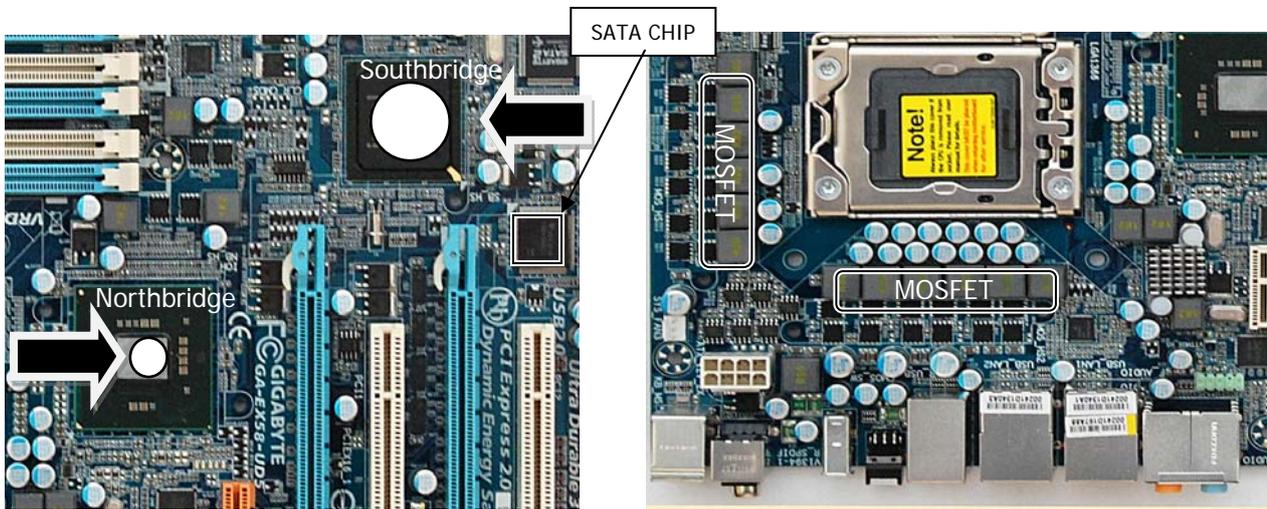

← Rub some compound in base of water-block first, and then clean off with lint-free cloth.

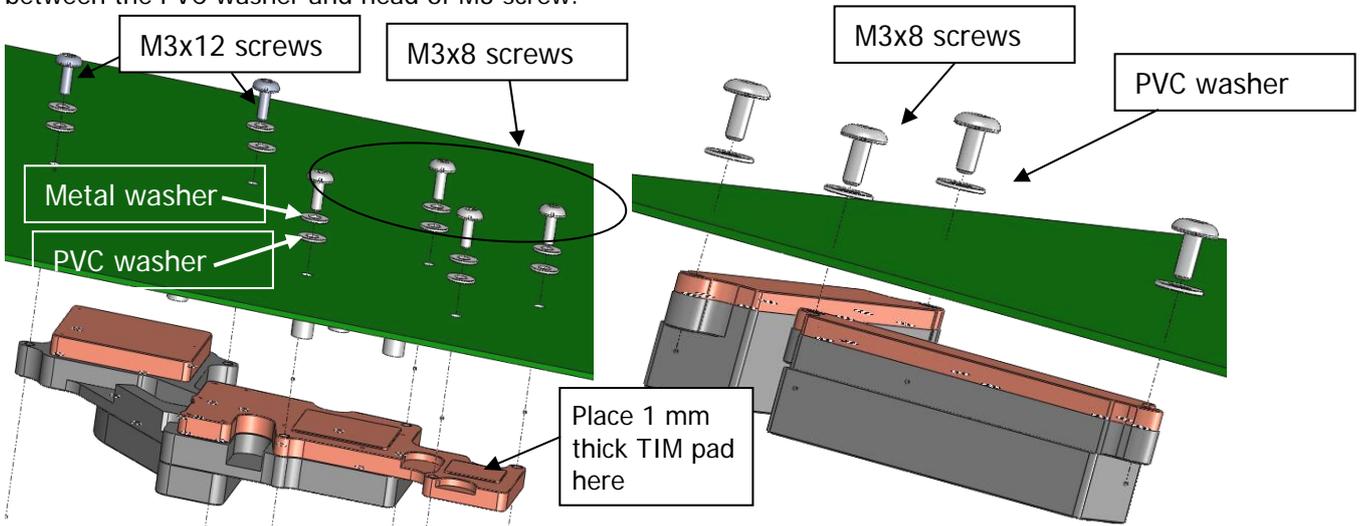Apply small → amount of compound on the NB/SB core like on CPU.

Step 4. Cut enclosed thermal pads to needed custom sizes in and make sure all surfaces on VRM's are covered! See picture 5 (on next page).

Picture 4: Apply thermal grease on NB and SB chipsets like shown in step 3. And 1mm thermal pad on Sata chip.

Picture 5: Place appropriate sizes of enclosed thermal pads in order to cover marked VRMs

Please use four M3×8mm and two M3x12 screws to install FB block as shown on picture 6. For Mosfet block, please use two M3x12 screws as shown.

Make sure you place M3 PVC washer so it has direct contact with motherboard and then place M3 metal washer between the PVC washer and head of M3 screw.

Picture 6: Installing the FB block.

Picture 7: Installing 2 Mosfet blocks.

Step 5. Tighten all M3 screws equally and gradually to prevent the chipset cores from breaking.
Please be very careful while screwing on Mosfet blocks. In case of using too much force bending of copper base might occur and lead to poor performance.

Step 6. Remove the block and check for contact surface. Then repeat steps 3 to 5. And apply more or less pressure on area where you have found it necessary.

Step 7. Connect the water-block(s) to your water cooling system and attach the tubes. Any fitting can be used as an inlet. To ensure the tubes stays properly on the fittings please use hose clamps or appropriate substitute. The use of an algaecide is nonetheless recommended in any liquid cooling system.

VERY IMPORTANT NOTICE:

Once the installation is completed, it is a recommended practice to test the cooling circuit for leaks prior to powering up the computer. We recommend a 24 hour leak test prior to powering up the computer. Do not test the water block using city water pressure. This will rupture the top of the housing and render the block unusable (and will void your warranty).

WARRANTY:

Our products are warranted against defects in materials or workmanship for a period of 24 months beginning from the date of delivery to the final user. During this period, products will be repaired or have parts replaced at our discretion provided that: (I) the product is returned to the agent from whom it was purchased; (II) the product has been purchased by an end user and has not used for commercial purposes; (III) the product has not been misused, handled carelessly, or used in a manner other than in accordance with the instructions provided describing its installation and proper use. This warranty does not confer rights other than those expressly set out above and does not cover any claims for consequential loss or damage. This warranty is offered as an extra benefit and does not affect your statutory rights as a consumer. **This warranty is voided if the product comes in contact with aggressive UV additives.**