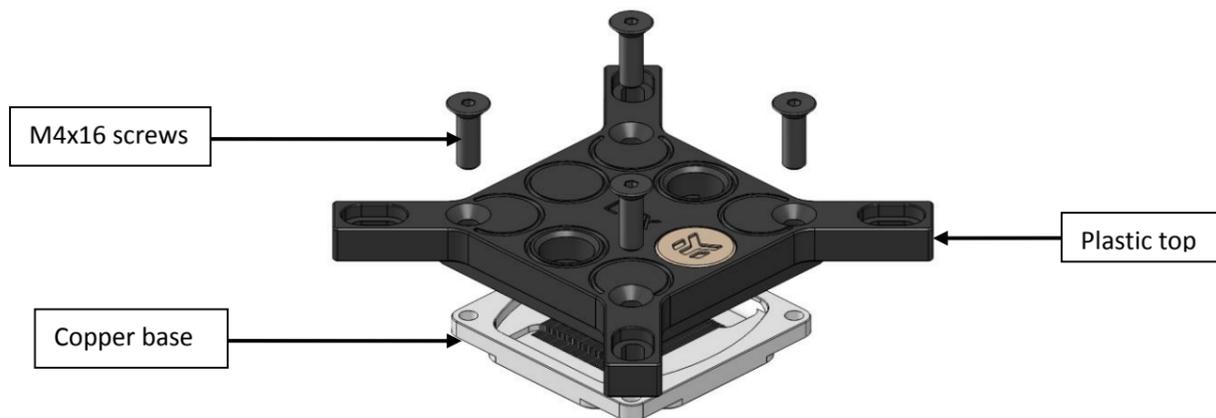


This product is intended for installation only by expert users. Please consult with a qualified technician for installation. Improper installation may result in damage to your equipment. EK Water Blocks assumes no liability whatsoever, expressed or implied, for the use of these products, nor their installation. The following instructions are subject to change without notice. Please visit our web site at www.ekwaterblocks.com for updates. Before installation of this product please read important notice, disclosure and warranty conditions printed on the back of the box.

The barb hose fittings require only a small amount of force to screw them in; otherwise the high flow fittings might break. These fittings do not need to be tightened with much force because the liquid seal is made using o-rings.

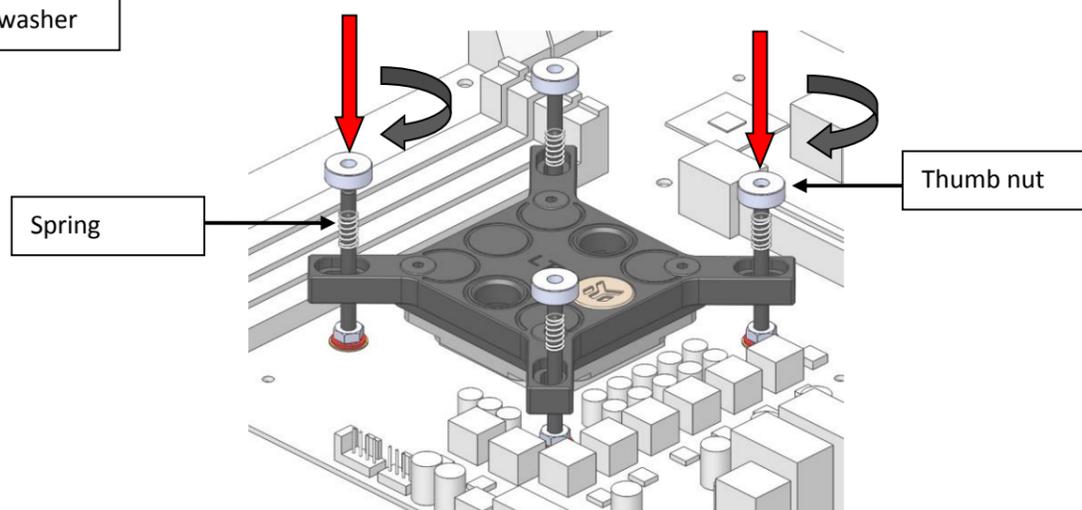
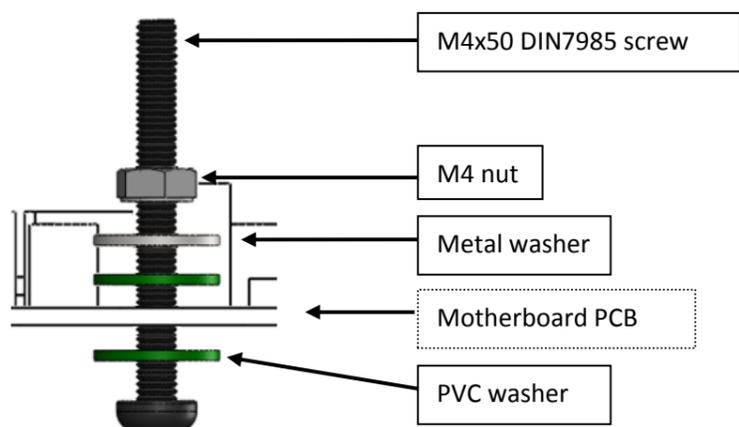
STEP 1: GENERAL INFORMATION

Your new CPU waterblock comes prepared for attaching on your Intel LGA-775/115x/1366/2011 socket motherboard. Please follow simple instruction in order to provide safest mount. First remove motherboard from the chassis and put it on even and static-free surface. Remove protection foil from waterblock's copper base. Your block is now ready for installation on motherboard.



STEP 2a: ATTACHING THE CPU BLOCK TO THE MOTHERBOARD'S SOCKET

- 1) Install the mounting mechanism consisting of screws, nuts and washers on each of the four (4) openings of the motherboard's circuit board.
- 2) **Apply thermal compound:** As per instructions lightly coat the CPU with for example Arctic Cooling MX-4 thermal compound (**not enclosed with the EK-Supreme LTX series water block**)
- 3) **Cleaning the CPU:** Once mounting mechanism is attached install the CPU into the socket. Wipe the CPU's contact surface (by using non-abrasive cloth or *Q-tip*, as shown on a sample photo).
- 4) **Applying thermal compound:** EK recommends blob or line method of applying the enclosed Gelid GC-Extreme™ thermal compound to the CPU heatspreader (IHS) - see sample photo on right. The quantity of about two rice grains is just about right. There is no need to cover the whole IHS. Applying too much thermal grease will have negative impact on the cooling performance!
- 5) Place the waterblock onto a CPU and place a spring and thumb nut on each M4x50 DIN7985 screw. Start screwing two thumbnuts at a time, preferably in a cross pattern. Check the motherboard circuit board (PCB) for any signs of warping or bending.
- 6) Please be very careful when installing the LTX series water block without the use of retention backplate (**not included with the EK-Supreme LTX series water block**). Warping and/or bending of the motherboard's circuit board can occur as a result of overtightening of thumb nuts. Such mechanical stress can result in permanent damage to your motherboard and/or CPU.
- 7) EK recommends the use of retention backplate such as **EK-Supremacy Backplate** (EAN: 3830046990648) or **EK-LGA115x TRUE Backplate** (EAN: 3830046997647). Once installed one can apply greater mounting pressure without any motherboard circuit board warping or bending. With retention backplate one will obtain better cooling performance of EK-Supreme LTX water block.



STEP 3b: (OPTIONAL) USING BACKPLATE WITH EK-SUPREME LTX CSQ

We recommend using a Backplate when using this product on a LGA-775, LGA-115x or LGA-1366 socket motherboard. The following backplates are compatible with EK-Supreme LTX CSQ series water block:

- **EK-Supremacy Backplate** (EAN: 3830046990648)
- EK-LGA115x TRUE Backplate (EAN: 3830046997647)
- EK-CPU Backplate Universal (EAN: 3831109855553)

This installation manual will cover the installation of EK-Supremacy Backplate only. Please follow specific installation manual (enclosed with each product) when using other types of Backplate.

PREPARING THE EK-SUPREMACY BACKPLATE: RUBBER GASKET

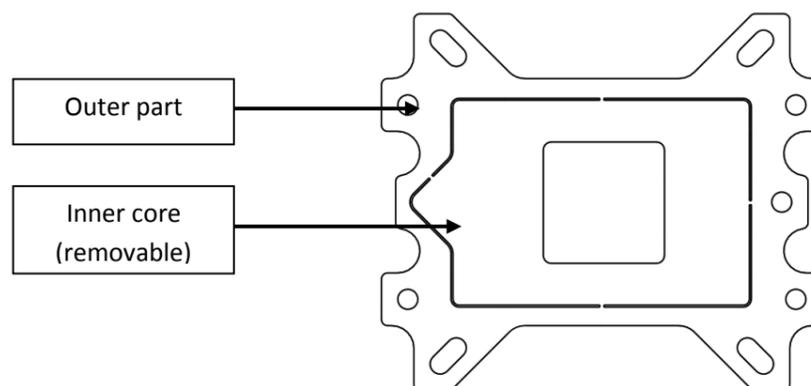
The enclosed rubber gasket is essential part of the backplate and mounting system and must be used every time you install this water block. The rubber backplate has a partially cut inner part which needs to be removed when installed on Intel LGA-115x and LGA-2011 motherboard. The rubber is held on four places and can be peeled away with hand. These two pieces can be reassembled later if needed. You may trim excess rubber in case of interference with adjacent components on the circuit board.

Intel LGA-115x and LGA-1366 socket:

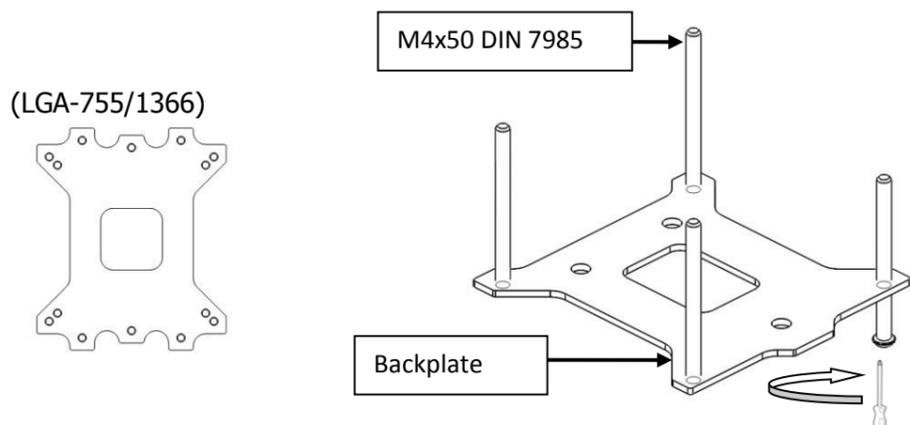
Remove the inner core of the rubber and use the outer part only

Intel LGA-775:

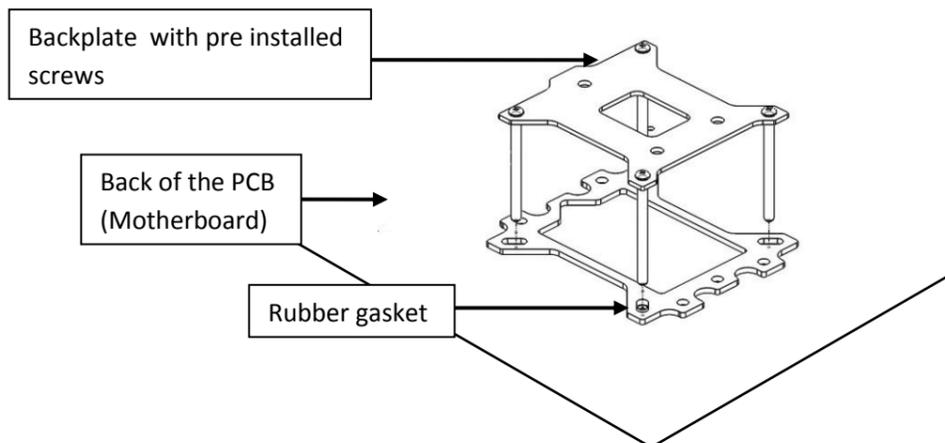
Use the rubber gasket in whole!



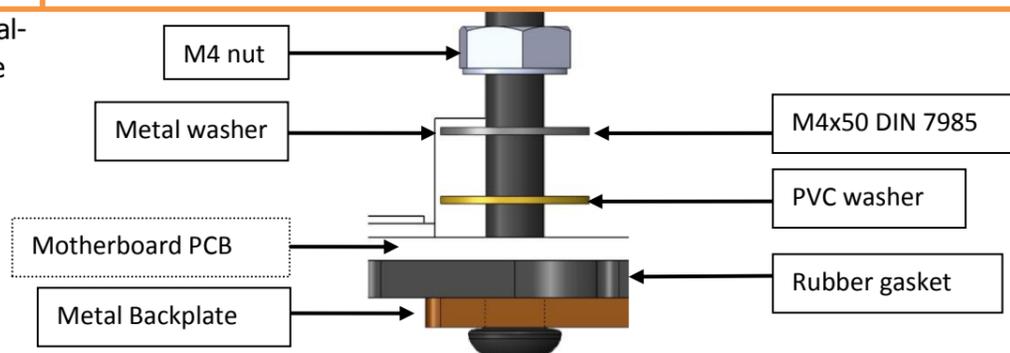
1. Attach the mounting screws to the Backplate: Picture illustrates the use of LGA-115x Backplate. When using LGA-775 or LGA-1366 please use alternative Backplate metal (enclosed with each EK-Supremacy Backplate):



2. Install the Backplate with pre-installed screws to the motherboard: Make sure you use rubber gasket underneath the Backplate and mind the orientation of both metal as well as Backplate.



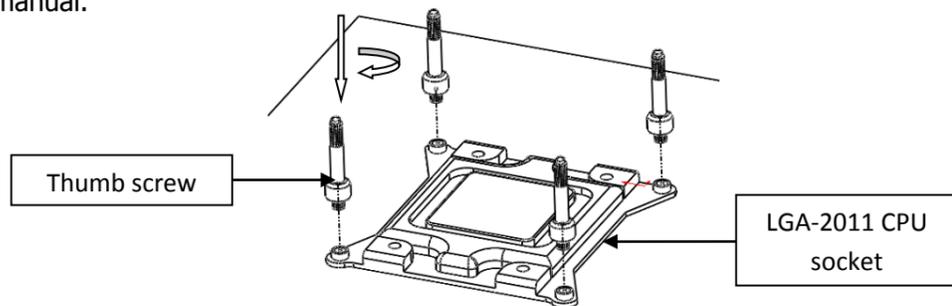
3. Secure the backplate assembly to the circuit board using M4 Nut, Metal- and PVC washer. Continue with installation of the water block by following the STEP 2a!



STEP 4: INTEL SOCKET LGA-2011 WATER BLOCK INSTALLATION PROCEDURE

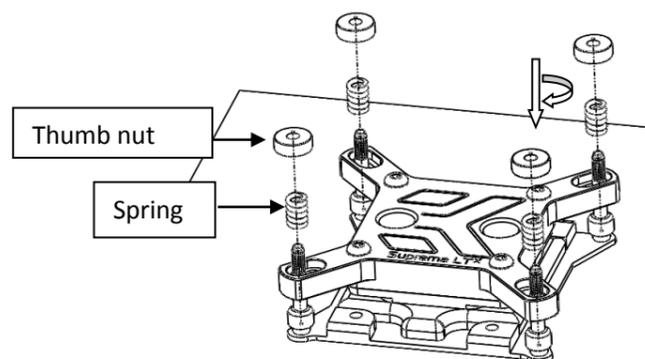
STEP 4a: Installation of thumb screws

- 1) Place motherboard with preinstalled Intel LGA-2011 processor on an even surface with front side facing up.
- 2) Install four (4) thumb screws into four M4 threaded stubs on the LGA-2011 socket integrated latch mechanism (ILM). The screws are to be installed using no tools (i.e. pliers).
- 3) Install Thermal Interface Material (TIM) or thermal grease as per installation manual.



STEP 4b: Fastening the waterblock:

Install the waterblock on your CPU. Place an enclosed compression spring and thumb nut over each threaded stub. Start fastening two thumb nuts at a time, preferably in cross pattern and do not tighten them fully until all of them are partially screwed in. Then - using your fingers only - screw in all four thumb nuts until you reach the end of the thread.



STEP 5: ATTACHING FITTINGS ON WATERBLOCK

Attach the liquid cooling tubes and connect the water-block(s) into the cooling circuit. For the EK-Supreme LTX CSQ one can use any opening as an inlet or outlet port. To ensure that the tubes are securely attached to the barb fittings, please use hose clamps or an appropriate substitute. The use of an algacide and corrosion inhibitors is always recommended for any liquid cooling system. EK recommends the use of EK-CSQ compression fittings.

IMPORTANT DISCLOSURES:

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 additives.