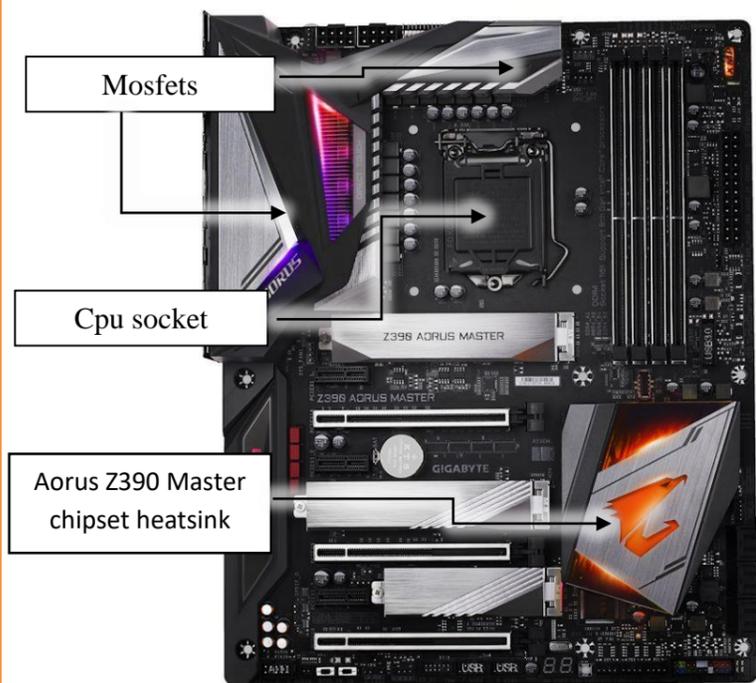


This product is intended for installation only by expert users. Please consult with a qualified technician for installation. Improper installation may result in damage to your equipment. EK Water Blocks assumes no liability whatsoever, expressed or implied, for the use of these products, nor their installation.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

Before you start using this product please follow these basic guidelines:

1. Please carefully read the manual thoroughly before beginning with the installation process!
2. Please remove your motherboard from the computer to assure safest mounting process in order to prevent any possible damages to your CPU and/or motherboard's circuit board (PCB).
3. The EK-HFB and EK-ACF type fittings require only a small amount of force to screw them firmly in place since the liquid seal is ensured by the rubber o-ring gaskets.
4. The use of quality, market proved corrosion inhibiting coolants is always strongly recommended for any liquid cooling system.

GENERAL INFORMATION Sample photo of AORUS Z390 MASTER motherboard

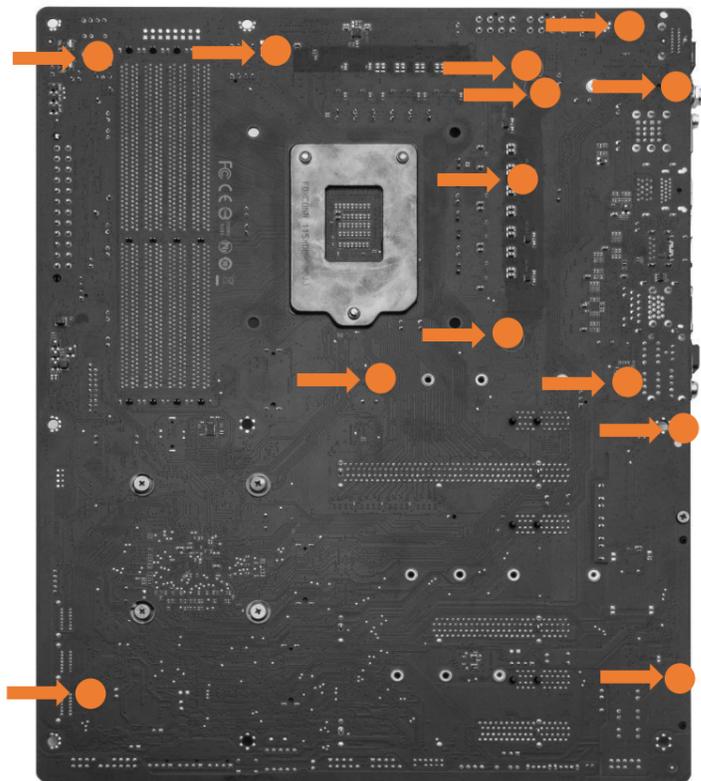


BAG CONTENT: Bag content is universal for all water blocks, you may not need all screws.

M4x8 DIN7984	M2.5x5 AX1	M4 PVC washer	M2.5 PVC washer
5pcs	5pcs	5pcs	5pcs
Thermal grease	2,5mm Allen key	M2,5 adhesive PVC washer	
1pc	1pc	5pcs	
Replacement mounting mechanism: FB Z270 MB (EAN:3831109872338)			

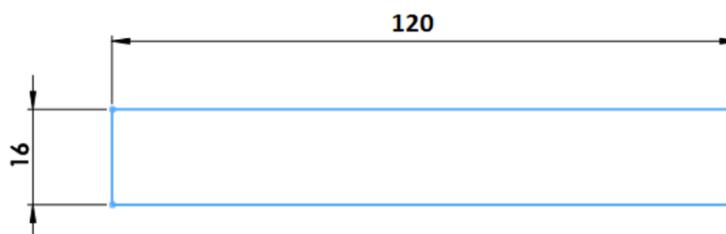
STEP 1: PREPARING YOUR MOTHERBOARD

REMOVING STOCK COOLER. Remove all encircled screws. There are screws on the back of the motherboard that need to be removed in order to remove the factory installed MOSFET cooling solution. Additional screws need to be removed to remove the plastic I/O cover.



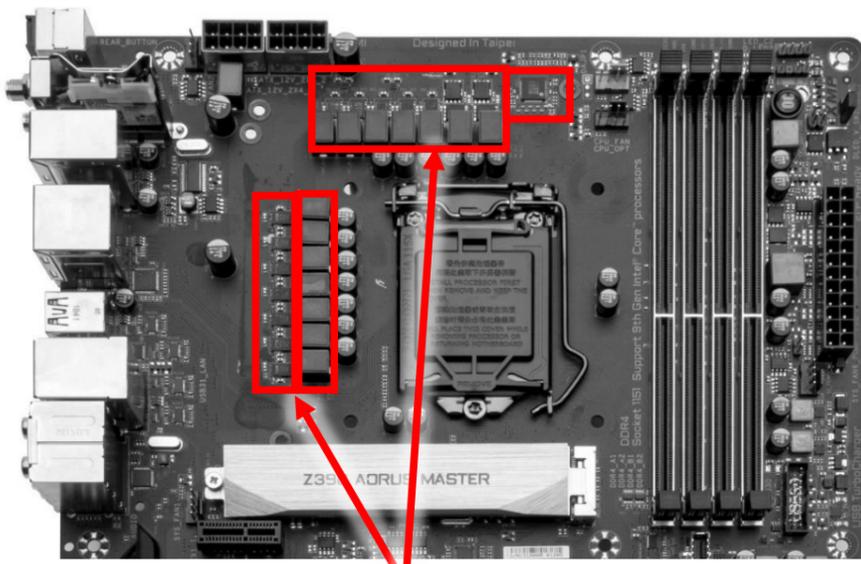
CUTTING THERMAL PADS. Your block comes with thermal pads which needs to be trimmed in order to fit the voltage regulation area (MOSFETs and coils) on the motherboard's circuit board. WARNING: DIMENSIONS ON PICTURE BELOW ARE SCALED.

1. Thermal pad F – 1.0mm (EAN: 3830046996732)



PLACING THERMAL PADS ON MOTHERBOARD. Place thermal pads on PCB as shown on the picture.
PLEASE REMOVE THE PROTECTIVE FOIL FROM BOTH SIDES OF THE THERMAL PADS PRIOR TO INSTALLATION!

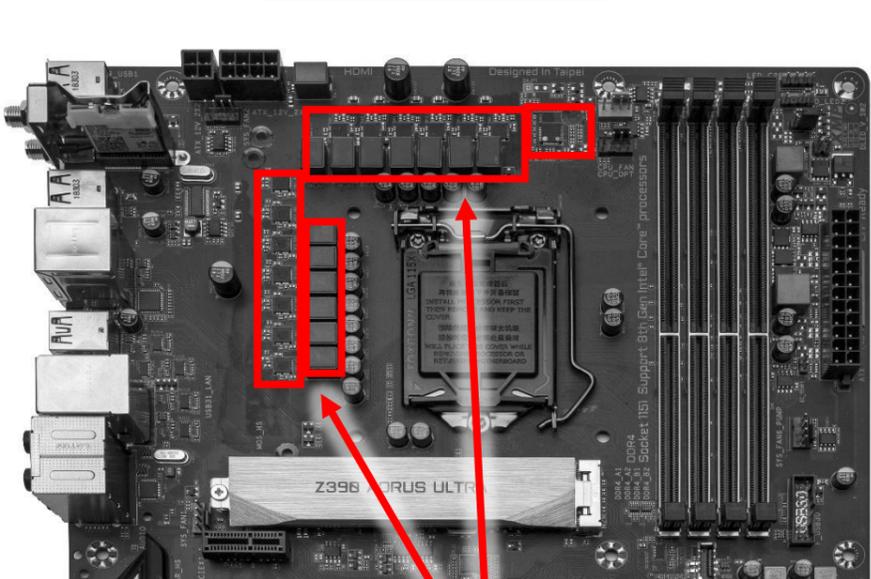
1.AORUS Z390 MASTER



Place **1mm** thermal pads over marked area and make sure all mosfet chips and coils are covered.

PLACING THERMAL PADS ON MOTHERBOARD. Place thermal pads on PCB as shown on the picture.
PLEASE REMOVE THE PROTECTIVE FOIL FROM BOTH SIDES OF THE THERMAL PADS PRIOR TO INSTALLATION!

2.AORUS Z390 ULTRA



Place **1mm** thermal pads over marked area and make sure all mosfet chips and coils are covered.

STEP 2: PREPARING YOUR MOTHERBOARD

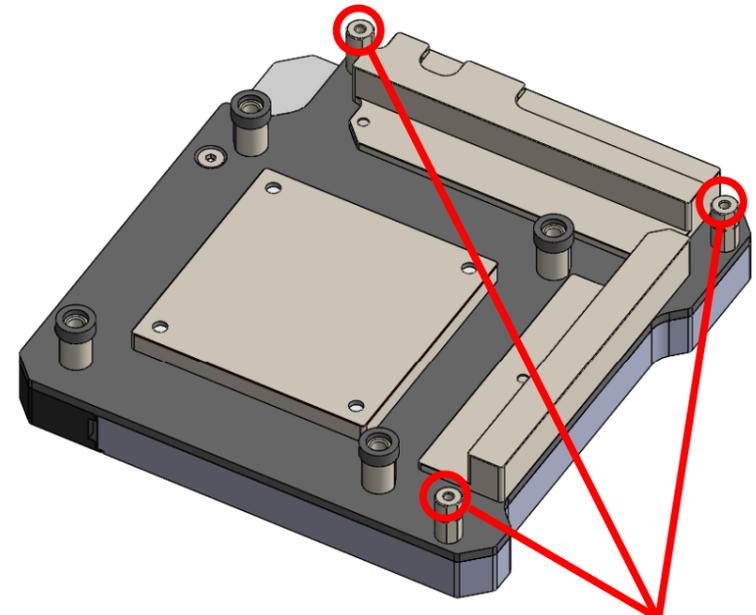
APPLYING THERMAL COMPOUND. Apply thermal compound on CPU heat spreader (IHS) with enclosed EK-TIM Ectotherm thermal grease.

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!



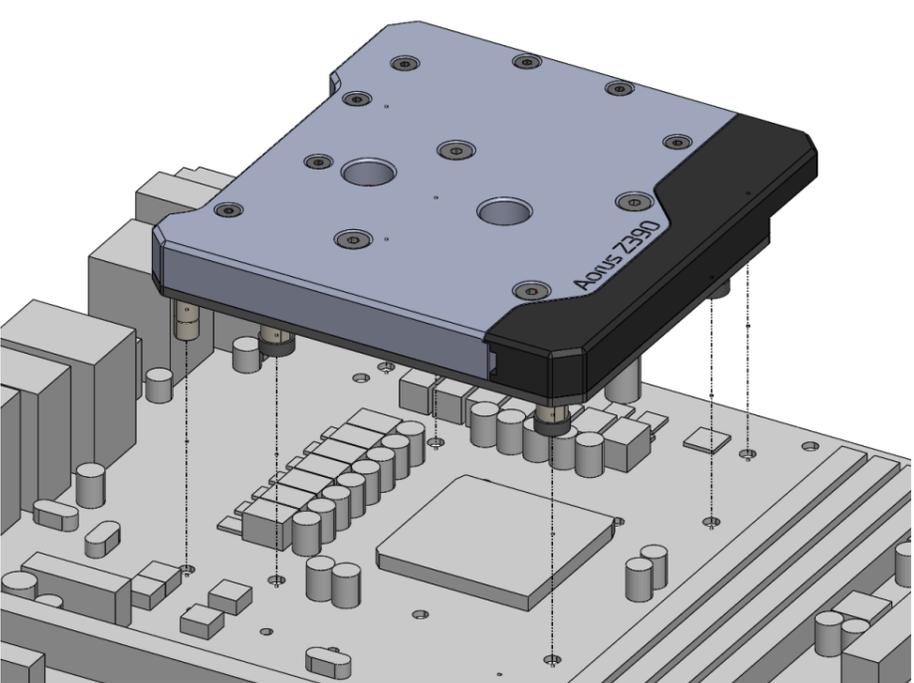
STEP 3: PLACING THE BLOCK ON TO THE MOTHERBOARD

Install three (3) M2.5 self adhesive PVC washers under marked standoffs as shown on the picture below.



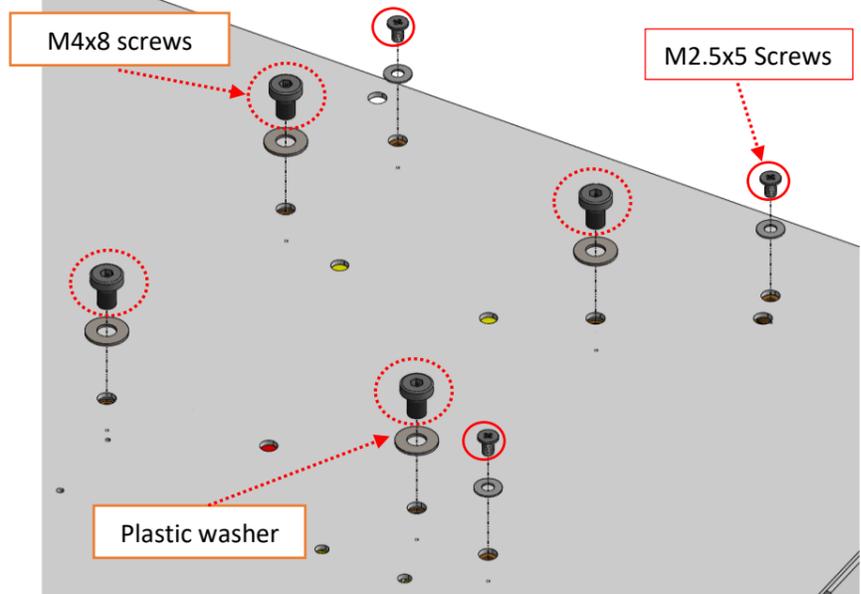
Place the M2,5 self-adhesive PVC washers under marked standoffs!

PLACING THE BLOCK ON THE MOTHERBOARD. Place the EK-AORUS Z390 MASTER D-RGB Monoblock series water block gently to the motherboard. Make sure that mounting holes are aligned.



STEP 4: ATTACHING BLOCK ON TO THE MOTHERBOARD

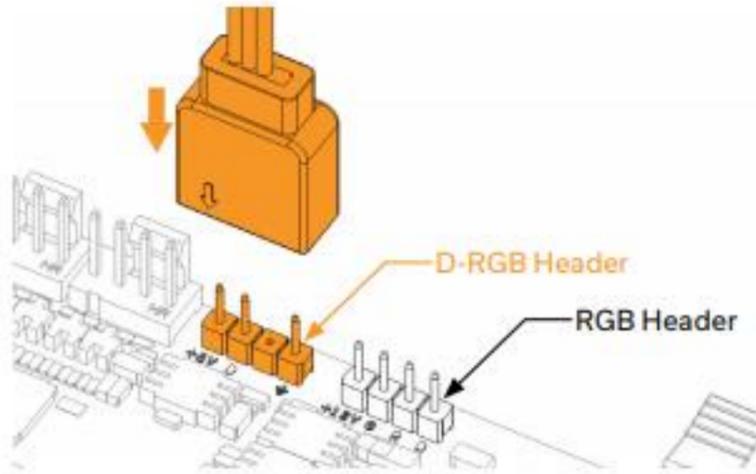
Prior to fastening the screws please make sure the mounting holes on the motherboard's circuit board are aligned with the water block.
A) Mosfet part: Use three M2,5x5 AX1 screws. Tighten the screws evenly. Do not use excessive force when tightening the screws!
B) CPU part: Use four M4x8 DIN7984 screws and washers. Tighten the screws using enclosed 2.5mm allen key.
Use the enclosed screws and washers as shown on picture below:



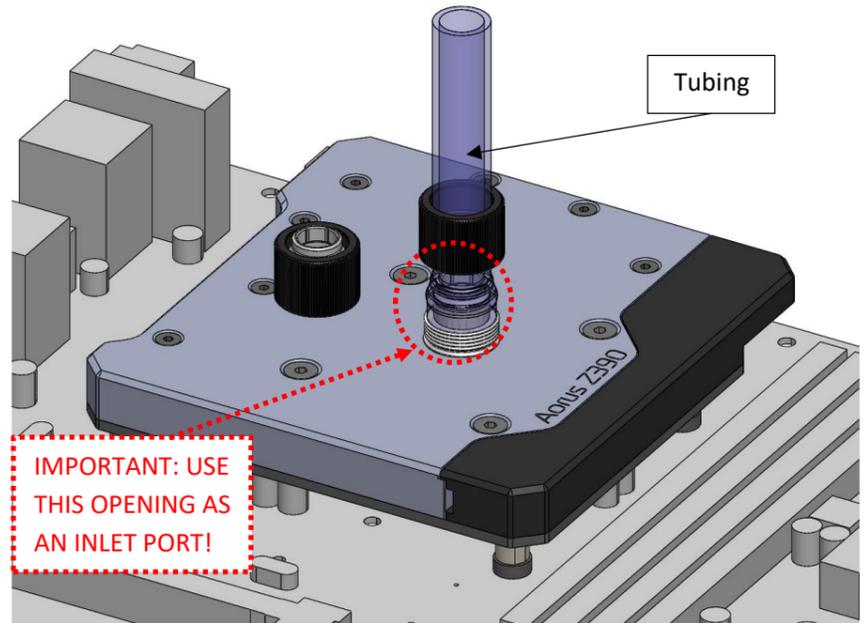
STEP 5: CONNECTING THE RGB LED STRIP (optional)

CONNECTING THE D-RGB LED (LED with 3 wires)

Plug the 4-pin connector from Monoblock D-RGB LED strip to the motherboard. Please ensure that the arrow indicated on the connector is plugged into the +5V line as indicated on your motherboard. Failure to do so will damage your motherboard or LED strip.

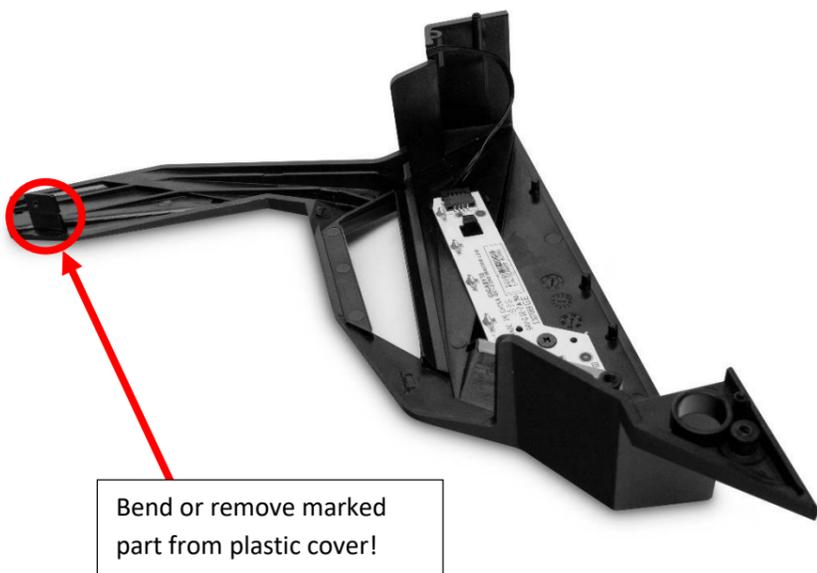


For the EK- AORUS Z390 MASTER D-RGB Monoblock series water block to operate properly the G1/4 port nearest to the right edge of the water block **MUST BE USED AS THE INLET PORT**. EK recommends the use of EK- Fittings. When using fittings other than EK- series please use hose clamps or appropriate substitute to secure the tubing to the barb. The use of biocide containing and corrosion inhibiting coolant is always recommended for any liquid cooling system.



OPTION TO MOUNT WATER BLOCK WITH PLASTIC COVER:

If you want to install the plastic cover along with water block on the motherboard, you need to bend or remove small piece of plastic, which is indicated in the photo.



REQUIRED TOOLS AND MOUNTING SCREWS:



Scissors



Philips screwdriver



Allen key