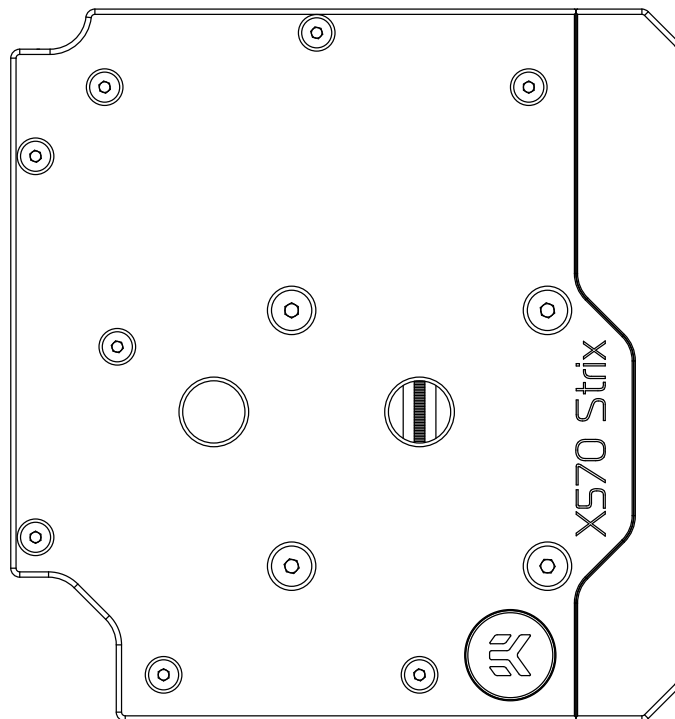# EK-Quantum
Momentum ROG Strix X570-E D-RGB

MONOBLOCK

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:

Please carefully read the manual thoroughly before beginning with the installation process!

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).
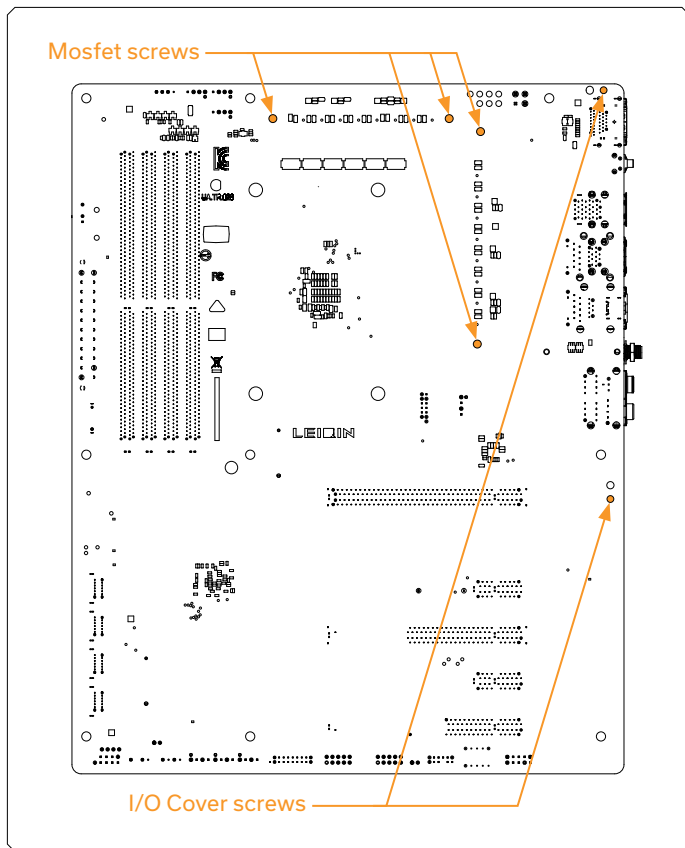
The EK- Fittings require only a small amount of force to screw them firmly in place since the liquid seal is ensured by the rubber o-ring gaskets.

The use of quality, market proved corrosion inhibiting coolants is always strongly recommended for any liquid cooling system.
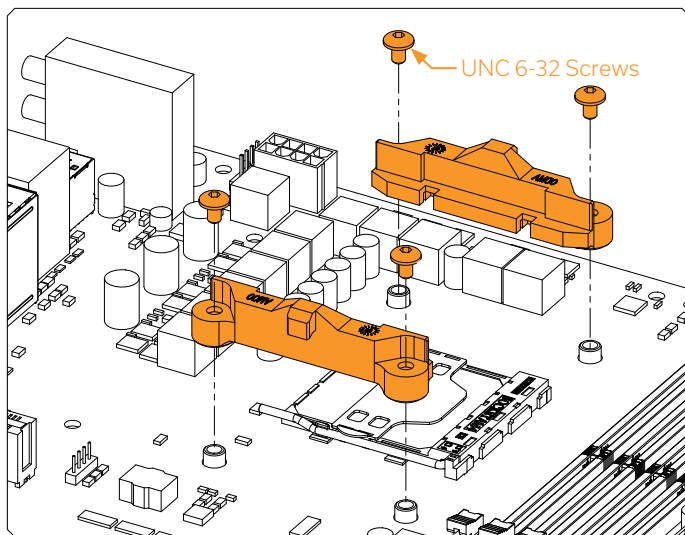
TABLE OF CONTENT

PREPARING YOUR MOTHERBOARD
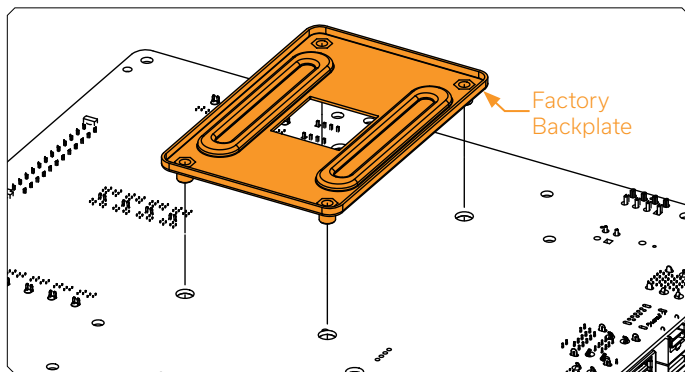

Mosfet screws

I/O Cover screws

REMOVING STOCK COOLER

Remove all encircled screws. There are screws on the back of the motherboard, that needs to be removed in order to remove the factory installed MOSFET cooling solution. Additional screws need to be removed to remove I/O cover. You can attach the I/O cover back, after you mount the Monoblock.
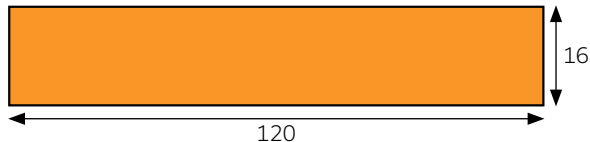
UNC 6-32 Screws

REMOVING OF THE ORIGINAL PLASTIC HOLD-DOWN AND THE FACTORY BACKPLATE

Using Philips-head screwdriver remove the four(4) UNC 6-32 screws securing the original plastic hold-down clamps around the socket as shown on the sketch. Remove the original backplate and the hold-down clamps.

Factory Backplate

Thermal Pad F – 1.0 mm

16

120

Thermal Pad F 1.0mm

WI-FI GO!

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!

CUTTING THERMAL PADS

Your block comes with thermal pads which needs to be trimmed in order to fit the voltage regulation area (MOSFET) on the motherboard's circuit board.

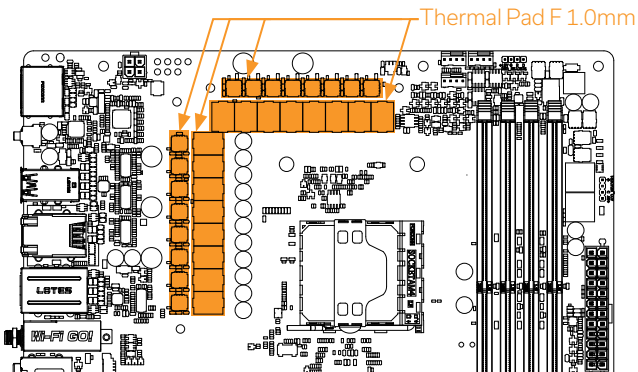1. Thermal PAD F 1,0mm - (120x16mm) EAN: 3830046996732

⚠ **WARNING:** Dimensions on pictures below are scaled.

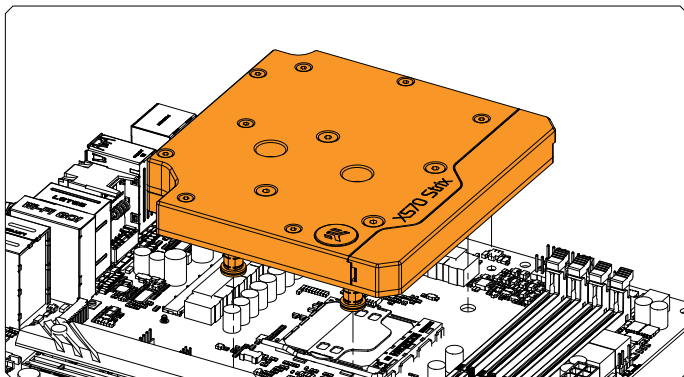## PLACING THERMAL PADS ON THE MOTHERBOARD

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!

PLACING THE BLOCK ON TO MOTHERBOARD

Place the EK-Quantum Momentum ROG Strix X570-E Monoblock series water block to the motherboard or vice versa (as shown on the photo). Make sure that mounting holes are aligned.
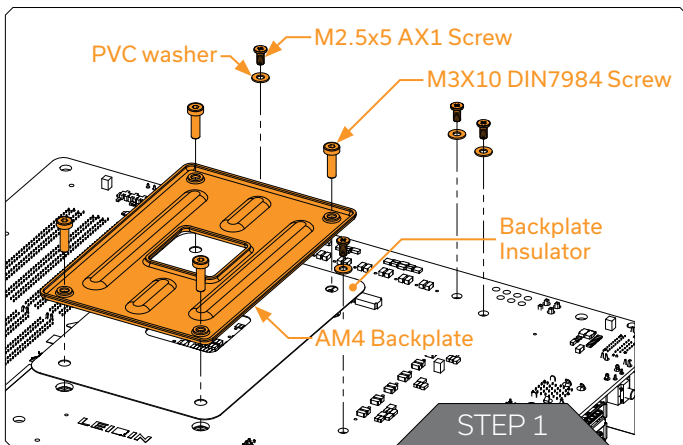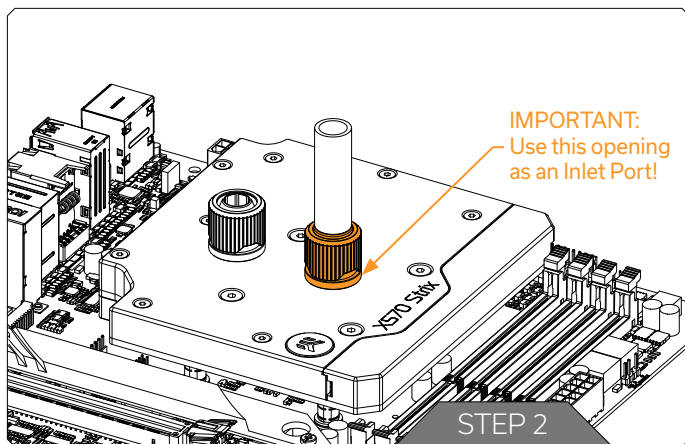
ATTACHING BLOCK ON THE MOTHERBOARD

STEP 1

Prior to fastening the screws please make sure the mounting holes on the motherboard's circuit board are aligned with the water block.

Mosfet part: Use four(4) M2.5X5 AX1 screws with PVC washers. Tighten the screws evenly. Do not use excessive force when tightening the screws.

CPU part: Use four (4) M3X10 DIN 7984 with screws. Tighten the screws using enclosed 2mm Allen Key.
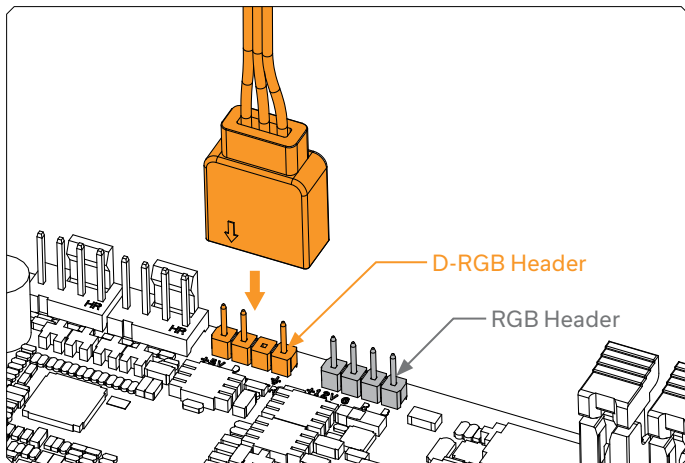
⚠️ Do not forget install the Backplate Insulator and AM4 Backplate (as shown on the photo).

PVC washer — M2.5x5 AX1 Screw
M3X10 DIN7984 Screw
Backplate Insulator
AM4 Backplate
STEP 1

IMPORTANT:
Use this opening
as an Inlet Port!

STEP 2

STEP 2

For the EK-Quantum Momentum ROG Strix X570-E 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.

D-RGB Header

RGB Header
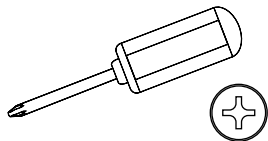
CONNECTING THE D-RGB LED STRIP

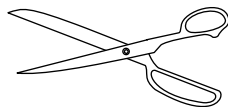Plug the 3-pin connector from Monoblock D-RGB LED strip to the motherboard.

> ⚠ 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.
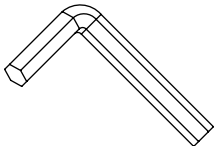
REQUIRED TOOLS

Phillips-head screwdriver

Scissors

Allen Key

SUPPORT AND SERVICE

For assistance please contact:
http://support.ekwb.com/

EKWB d.o.o.
Pod lipami 18
1218 Komenda
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