FLUID GAMING

EK-AC Radeon Vega

USER GUIDE

IMPORTANT INFORMATIONS

⚠ This product is intended for installation by expert users. Please consult 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 throughly before beginning with the installation process!
2. Please remove your Graphics card from the computer to assure safest mounting process in order to prevent any possible damages to your GPU and/or graphics card circuit board (PCB).
3. The EK-ALU ACF and EK-ALU HDC 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 corrosion inhibiting coolants is always recommended for any liquid cooling system.
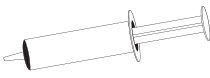
☠ This product is made from aluminum and can be only used with other aluminum liquid cooling components, such as Al fittings, water blocks and radiators. Mixing aluminum with copper and brass products can cause galvanic corrosion of the metal and render liquid cooling equipment useless. Such misuse is not covered by warranty.

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GENERAL INFORMATIONS

CONTENT:
- EK-AC Radeon Vega waterblock
- Mounting screws
- Thermal interface materials

| Thermal grease 1pc	M2,5x4 AXI 14pcs	M2,5x9 spring 8pcs
Teflon washer 9pcs	Acetal plug G1/4 2pcs	M2,5 nut 2pcs

REQUIRED TOOLS:
- Scissors
- Phillips head screwdriver
- 4 mm hex socket
- Optional: pliers

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PREPARING YOUR GRAPHICS CARD

Remove all marked screws. For removing off the backplate (if present) use a Torx 6 screwdriver. To remove stock cooler, use Phillips head screwdriver. All heat sink assembly screws should be removed, including self-adhesive washers on both sides of the PCB (if present). Also remove the encircled screws on the I/O bracket (if present) using a Phillips head screwdriver. After you remove the housing, do not forget to unplug the fan and LED connectors.

Factory backplate and heat sink screws

Two screws on the I/O bracket
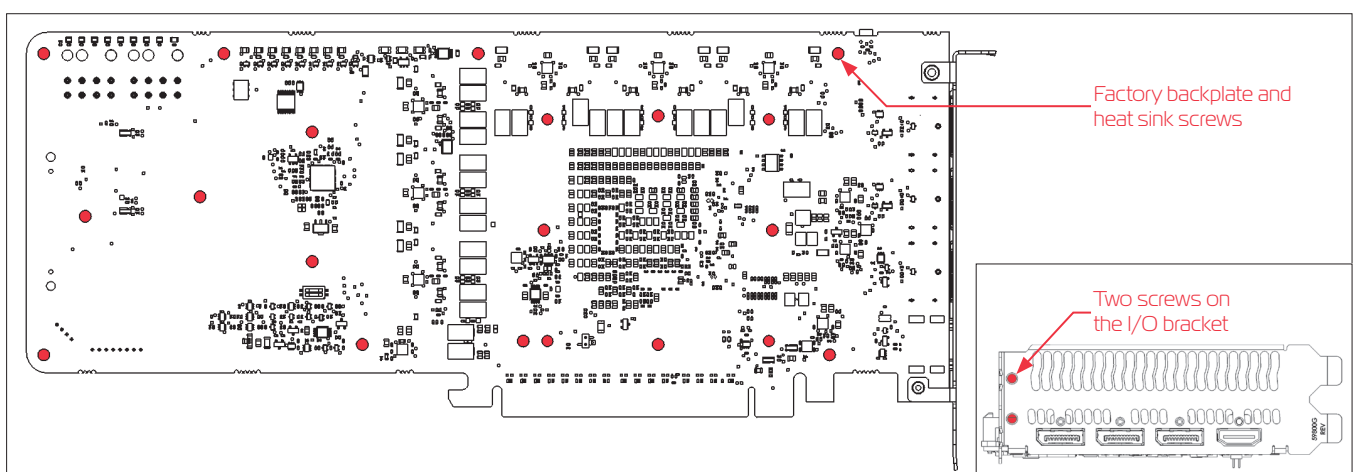
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APPLYING THE THERMAL INTERFACE MATERIAL

1) Wipe off the remains of the original thermal compound (by using non-abrasive cloth or Q-tip) until the components and circuit board are completely clean. EK WB recommends the use of denatured alcohol for removing TIM leftovers.
2) Apply enclosed thermal grease on the GPU chip. EK WB recommends to apply thermal grease in cross form for the best performance.
3) Your block comes with thermal pads, some of which are already pre-cut. Others have to be cut to smaller chunks in order to cover all the VRM components such as MOSFETs and drivers. PLEASE REMOVE THE PROTECTIVE FOIL FROM BOTH SIDES OF THE THERMAL PADS PRIOR TO INSTALL ATION. Place the thermal pads on the circuit board as shown on the picture below. Refer to numbering on left picture when applying thermal pads of different sizes or thicknesses.

Thermal pad F – 1.0mm (for MOSFET)
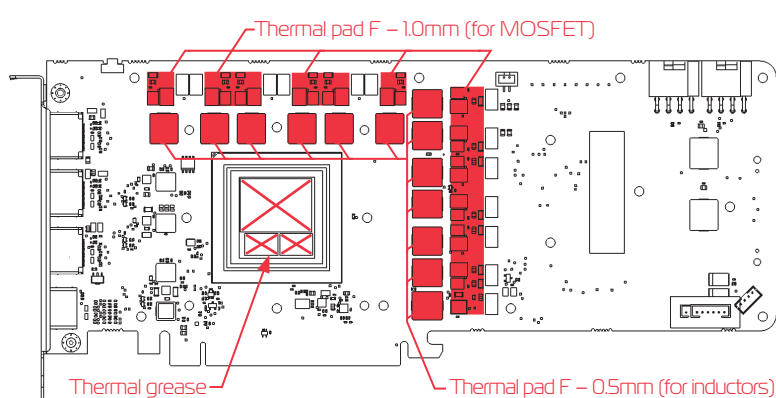
Thermal pad F – 0.5mm (120x16mm) – (EAN: 3830046996725)
Thermal pad F – 1.0mm (120x16mm) – (EAN: 3830046996732)

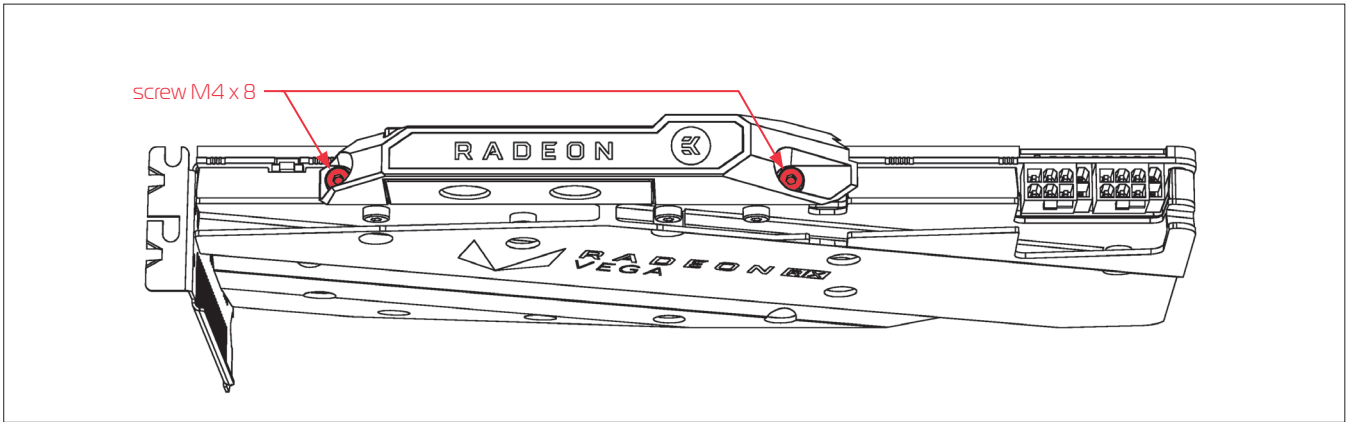⚠ Remove protective foil from the both sides of the thermal pad prior to installation.

Thermal grease

Thermal pad F – 0.5mm (for inductors)

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TERMINAL COVER REPLACEMENT (optional)

Remove 2 (two) M4x8 screws using 2,5 Allen key. Remove the terminal cover and replace with alternative one, using 2 (two) M4x8 screws.

screw M4 x 8

INSTALLING THE WATER BLOCK

1. PLACING THE BLOCK ON TO THE GRAPHICS CARD. Carefully position the water block with preinstalled standoffs on to the graphic card. During this process please make sure you align mounting holes on the PCB with holes on the water block. Also pay attention not to use too much force by pressing the block down to the PCB. Chip dies are prone to cracking.
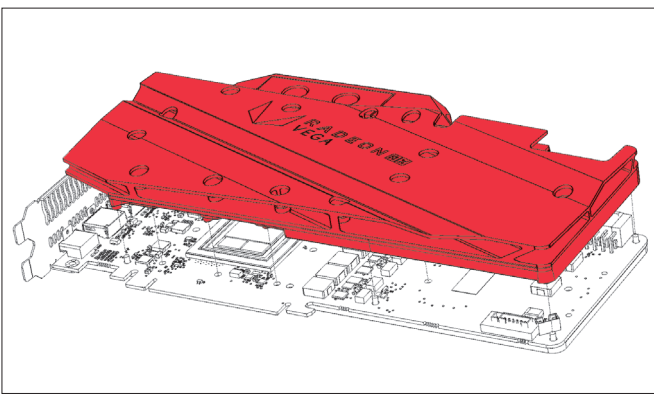
2. SECURING THE BLOCK TO THE GRAPHICS CARD. Use a Phillips screwdriver, screw with the enclosed 8 (eight) M2.5x4 A X 1 screws and 4 (four) M2.5x9 spring screws. EK WB recommends users to start tightening the screws around the GPU core and continue outwards. Always use a plastic washer under each and every screw and teflon washers under spring screws! If the washer is already present on the circuit board (usually around the GPU core screw holes) there is no need for additional washer.

M2,5x4 AX1 screw

M2,5 washer

M2.5x9 spring screws with teflon washer
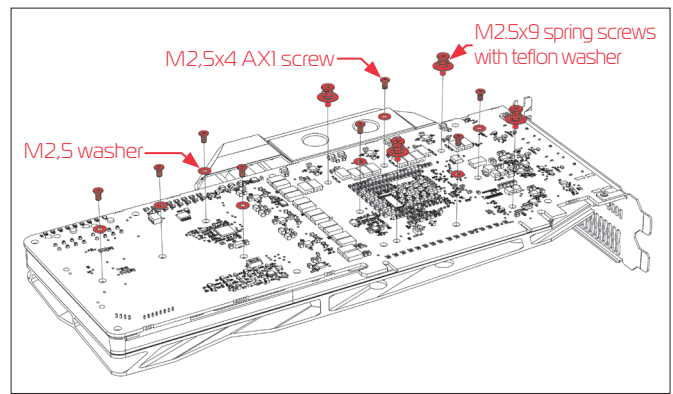
INSTALLING THE original BACKPLATE

3. ATTACHING THE BLOCK AND BACKPLATE TO THE GRAPHICS CARD. Use a Phillips screwdriver, screw with the original enclosed 6 (six) M2.5x8 AX1 screws.

6x M2,5x8 AX1 screws
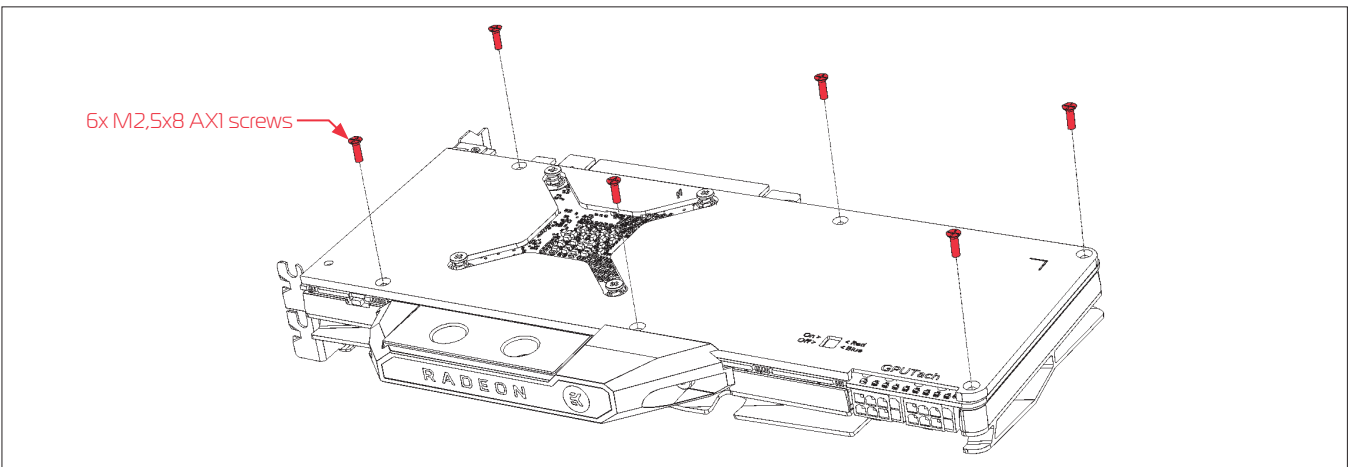
CONNECTING THE TERMINAL COVER LED

4. CONNECTING THE TERMINAL COVER LED TO THE GRAPHICS CARD. You will find 2-pin header on your graphic card near the power connectors.
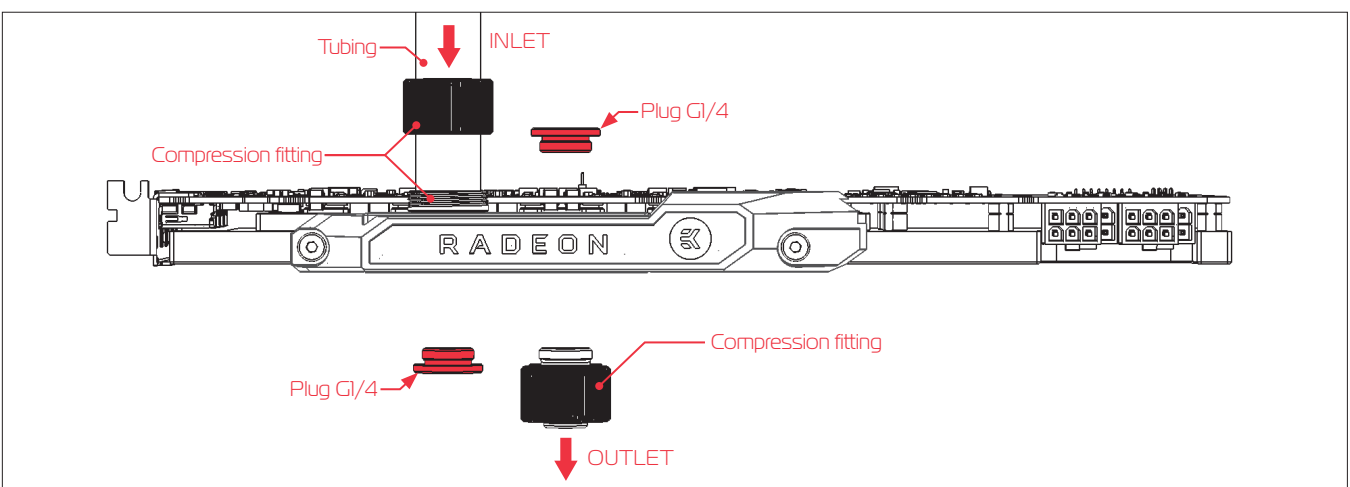
2-pin LED connector
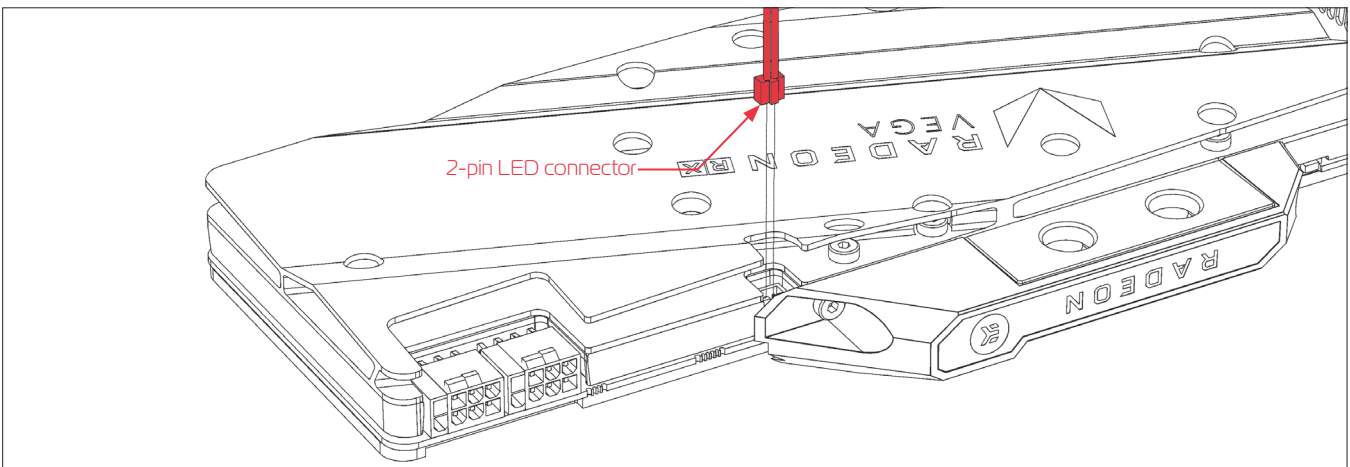
INSTALLING THE FITTINGS AND TUBING

Screw in the two G1/4 threaded male fitting. Attach the liquid cooling tubes and connect the waterblock(s) into the cooling circuit. On other two G1/4 openings attach the enclosed plugs. For best cooling performance use left side of terminal as Inlet and right side as outlet port (look picture below).

100203

Tubing

INLET

Compression fitting

Plug G1/4

Plug G1/4

Compression fitting

OUTLET