

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:

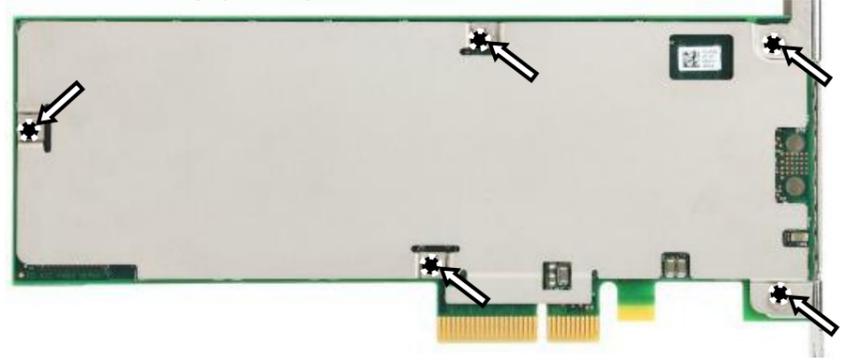
1. Please carefully read the manual before through before beginning with the installation process!
2. Please remove your motherboard from the computer to assure safest mounting process in order to prevent any possible damages to your CPU and/or motherboard's circuit board (PCB).
3. The EK-JFBand EK-ACF 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 corrosion inhibiting coolants is always recommended for any liquid cooling system.

STEP 1: GENERAL INFORMATION. Sample photo of Intel 750 SSD card.



STEP 2: PREPARING YOUR SSD CARD.

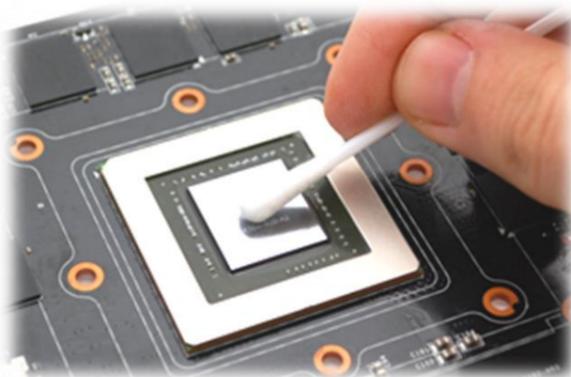
1. REMOVING STOCK COOLER: Remove all circled screws. All heat sink assembly screws should be removed, including self-adhesive washers on both sides of the PCB (if present).



STEP 2 cont.: PREPARING YOUR SSD CARD

1. CLEANING THE PCB. Carefully detach the original stock cooler after removing **all** screws securing it to the board. Wipe off the remains (by using non-abrasive cloth or *q-tip*, as shown on sample photo) of the original thermal compound until the components and circuit board are completely clean. EKWB recommends the use of denatured alcohol for removing TIM leftovers.

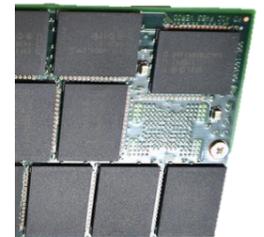
1. Clean ASIC chip



2. Clean all thermal compound from NANDs, PMIC, DRAMs



After cleaning

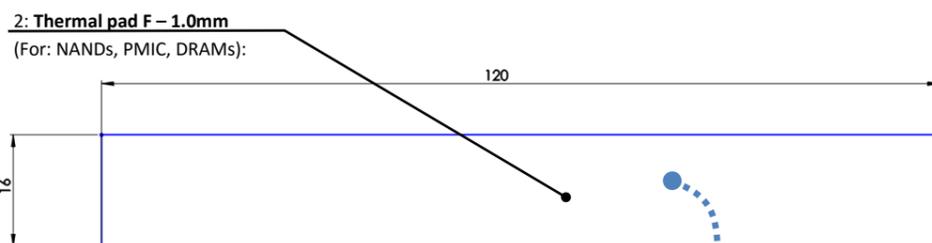


2. APPLYING THERMAL COMPOUND. Wipe off the remains (by using non-abrasive cloth or *q-tip*) of the original thermal compound until the components and circuit board are completely clean. Apply thermal compound: lightly coat chip with enclosed EK-TIM Ectotherm thermal grease. EKWB recommends to apply thermal grease in cross form for best performance (see sample picture).



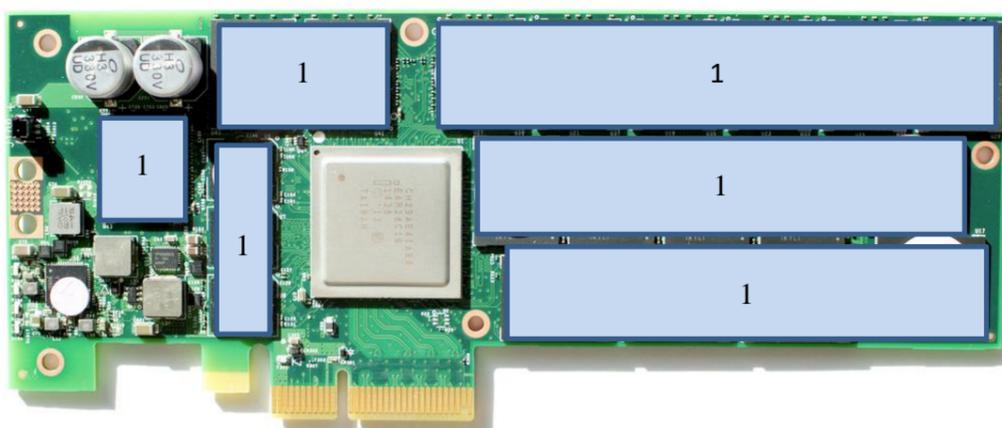
3. CUTTING THERMAL PADS. Your block comes with thermal pads, some of which are already pre-cut. Others have to be cut to smaller chunks in order to cover all the components such as NANDs, DRAMs and PMICs. PLEASE REMOVE THE PROTECTIVE FOIL FROM BOTH SIDES OF THE THERMAL PADS PRIOR TO INSTALLATION.

Replacement thermal pads:
Thermal Pad F – 1.0mm (120x16mm)

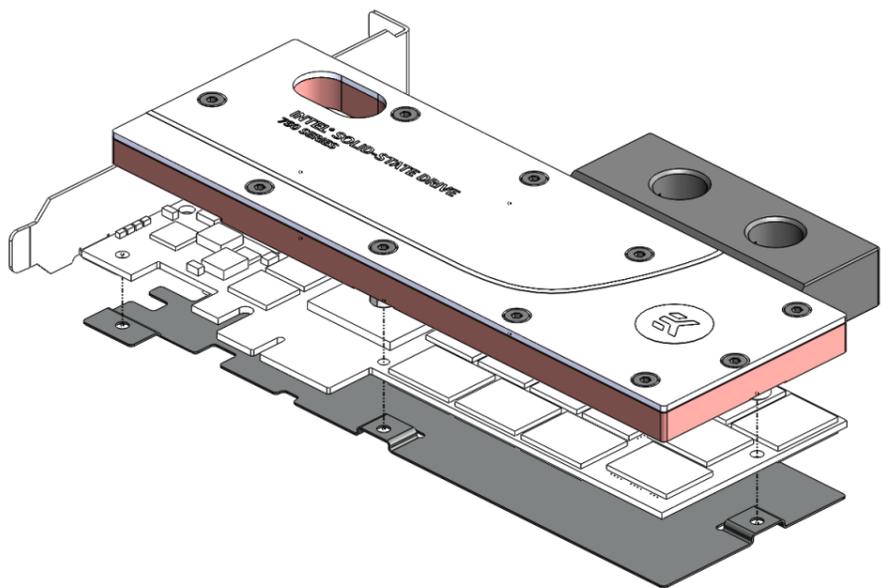


STEP 3: INSTALLING THE WATER BLOCK

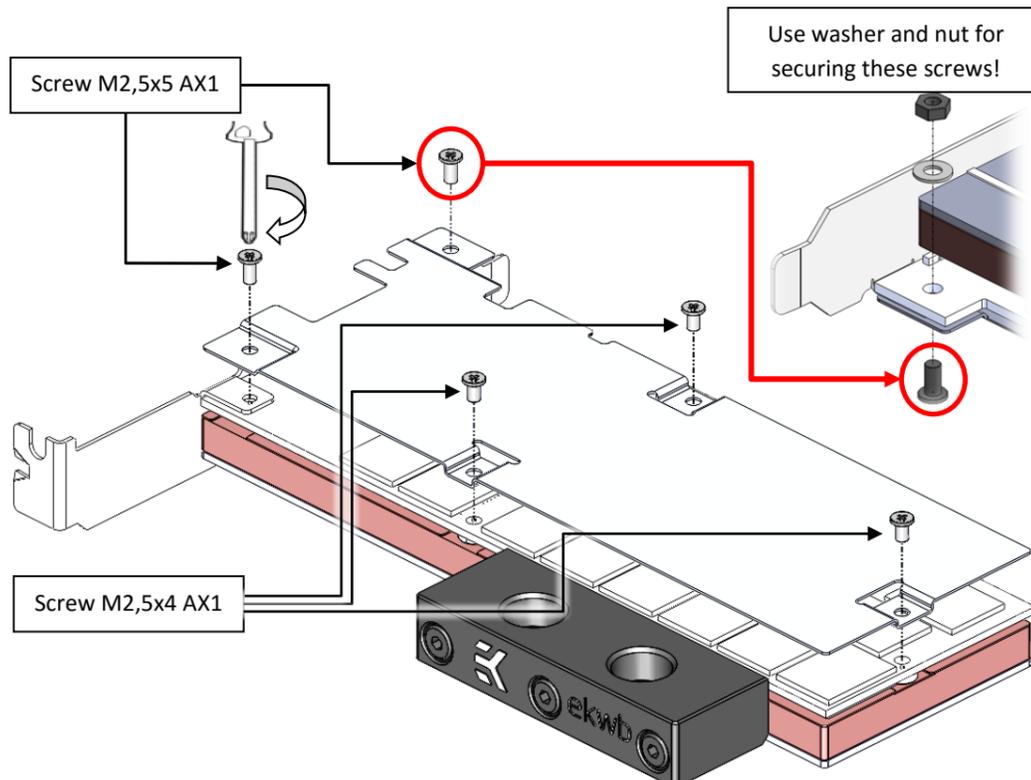
1. PLACING THERMAL PADS ON PCB. Place thermal pads on chips so that numbers on chips match size of thermal pads. EKWB made sure users have more than enough pads to cover all surfaces that need to be covered to make block fully functional.



2. PLACING THE BLOCK ON TO THE SSD CARD. Carefully position the water block with preinstalled 2.1 mm standoffs on to the SSD card. During this process please make sure you align mounting holes on the PCB with holes on the water block (same applies for other tops). Also pay attention not to use too much force by pressing the block down to the PCB. Chip dies are prone to cracking.



3. ATTACHING THE BLOCK TO THE SSD CARD. Use a Philips screwdriver screw with the enclosed M2,5x4 AX1 and M2,5x5 AX1 screws. For securing screw on edge use M2,5x5 AX1 with plastic washer and nut.



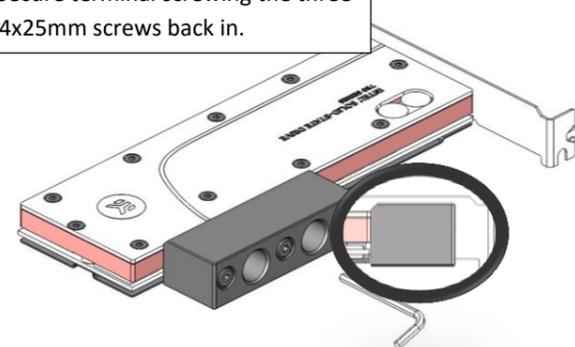
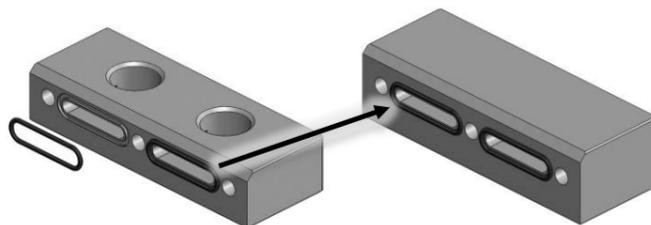
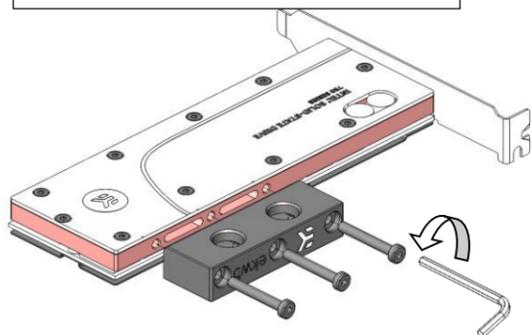
STEP 3.1: (optional) REPLACING THE TERMINAL

In the box you will find enclosed FC terminal with two ports on the side. You will need it if there isn't enough space to install the fittings on regular terminal. You will need Unscrew the three M4x25mm screws. Take terminal from the block and swap the o-ring gaskets to the new terminal. Make sure that the gaskets are sitting in the groove and then screw the three M4x25mm screws back in.

1. Unscrew the three M4x25mm screws.

2. Swap the gaskets to the new FC terminal

3. Secure terminal screwing the three M4x25mm screws back in.



STEP 4: CHECKING FOR CONTACTS

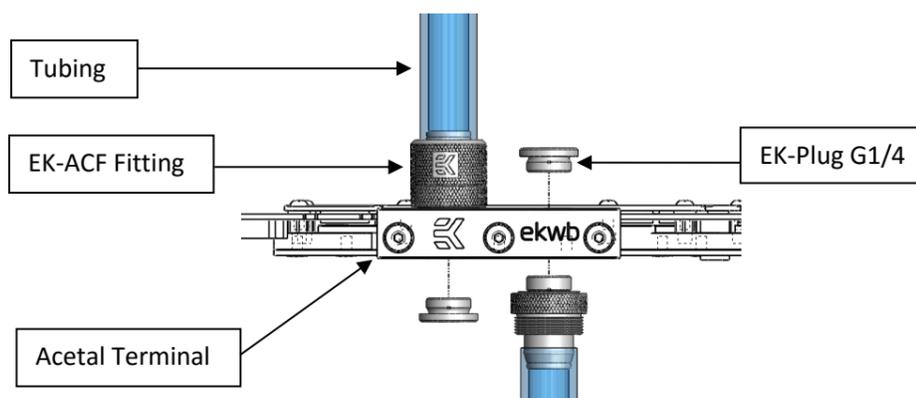
If necessary temporarily remove the water block to check for uniform surface contact between the block and the components, pay special attention to ASIC chip the section of the SSD card. Check whether the water block makes contact with the intended integrated circuit. Then repeat sub-steps in previous section to re-attach the block. **In case you fail to obtain good contact, please check again that your thermal pad thickness or contact our support service at <http://support.ekwb.com>.**

STEP 6: INSTALLATION OF FITTINGS AND TUBING

Screw in the two G1/4 threaded male fittings. Attach the liquid cooling tubes and connect the water-block(s) into the cooling circuit. **EKWB recommends using EK-ACF fittings with the EK-FC I750 SSD series water blocks.** To ensure that the tubes are securely attached to the barb/fittings, please use hose clamps or an appropriate substitute.

You can use any opening as an inlet/outlet port. Do not forget to plug the remaining two opening with enclosed EK-Plug G1/4 or equivalent.

CAUTION: In case of using connectors other than EK-ACF series compression fittings, take special attention to the length of the fittings' male G1/4" thread. 5mm is the maximum allowed G1/4" thread length!



STEP 7: INSERTING THE CARD IN YOUR PC CASE

Carefully lift your SSD card with installed block and insert it in your PC's motherboard PCI-express expansion slot. Please bear in mind that your SSD card is probably heavier than when it was equipped with original heat sink fan assembly. One needs to be very careful when handling the SSD card. Avoid all un-needed manipulation of the SSD/water block assembly that might damage your card or water block during final installation.

REQUIRED TOOLS:



scissors



Philips head screwdriver