

The following instructions and pictures are provided to assist your installation of the EVGA RTX 2080 Ti / 2080 / 2070 FTW3 Hydro Copper Waterblock Kit to the EVGA RTX 2080 Ti / 2080 / 2070 FTW3 graphics cards. Please be careful installing the Kit; there are several very small fasteners used that can be stripped if you are not careful.

Please be sure to keep your original shroud, heatsink, and screws so your card can be returned to its original condition in case you ever need to submit for warranty.

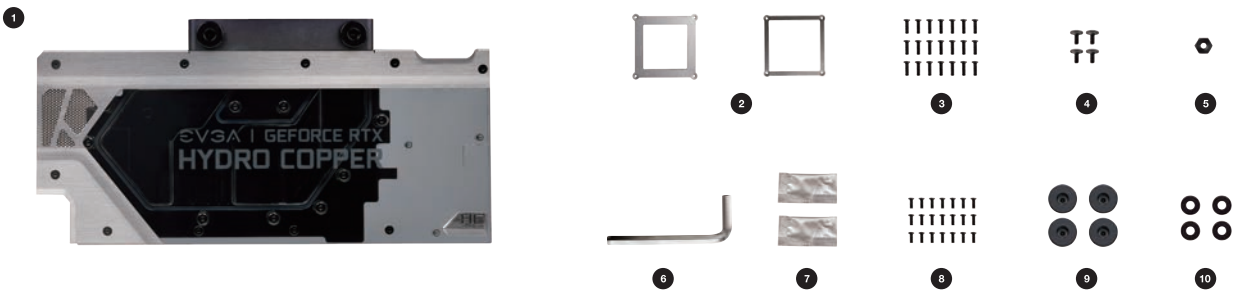
The instructions below will walk you through the removal of the original heatsink and fan(s), and installation of the EVGA Hydro Copper Waterblock module. Please see below for SKU's compatible with this cooler:

#	Graphics Cards	Part Number
A	FTW3 ULTRA with RGB LED (2.75 SLOT)	08G-P4-2287-KR 08G-P4-2277-KR 11G-P4-2487-KR 08G-P4-3287-KR 08G-P4-3277-KR
B	FTW3 with RGB LED (2.75 SLOT)	08G-P4-2283-KR 08G-P4-2273-KR 11G-P4-2483-KR 08G-P4-3283-KR 08G-P4-3273-KR

Included Accessories:

- 1 EVGA HYDRO COPPER
- 2 GPU Bracket (2080/2070 Bracket P/N:20101D0000029148)
(2080 Ti Bracket P/N:20101D0000029152)
- 3 M2x7mm 21pcs screws. (For use with a backplate.)
Use a Phillips #1 screwdriver to remove or fasten.
P/N:20701DB11E000014
- 4 M2X4mm 4pcs screws.
Use a Phillips #1 screwdriver to remove or fasten.
P/N:20701DB11E000031

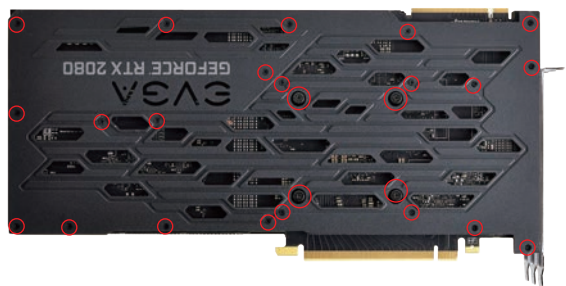
- 5 1pcs screw nut.
Use a 5mm Hex Driver to remove or fasten.
Do not use a standard wrench or pliers, as either may cause damage to the graphics card's PCB. P/N:207010000025066
- 6 78.5x31mm 1pcs Allen Key. P/N:20701D0000024786
- 7 Thermal Grease
- 8 M2x5mm 21pcs screws. (For use without a backplate.)
Use a Phillips #1 screwdriver to remove or fasten.
P/N:20701DB11E000032
- 9 Plug fittings 4pcs. Pre-installed on waterblock
- 10 Black Washer 4pcs. Paste on the back side of GPU bracket.
P/N: 20608A0000000039



* Please note that the accessory list above covers all items expected to be included in the FTW3 Hydro Copper Waterblock Kit. There are two GPU Brackets listed in the accessories, but this Kit only includes the bracket that is designed for your card. It is possible that you may receive extra accessories that will go unused after completion of the installation manual. Please follow all directions carefully, and contact EVGA Customer Service if you have any missing accessories or questions.

See the instructions below.

1. Remove the screws holding the heatsink/shroud
(a) Remove the 25 screws circled in the picture to the right using a Phillips #1 screwdriver. Carefully set aside, as these screws will not be used again. Remove the backplate and set aside for now, carefully keeping all thermal pads in their original locations.



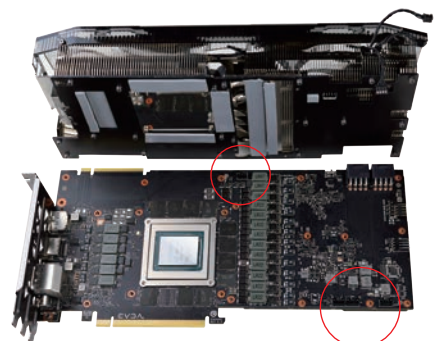
2. Remove the screws circled on the bracket to the right with a Phillips #1 screwdriver and set the screws aside. You will need to reinstall some screws after installation of the waterblock.



3. Remove heatsink and fan, while carefully disconnecting fan and LED connectors

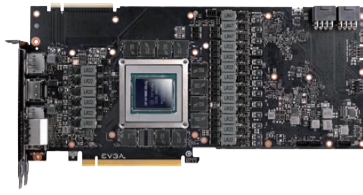
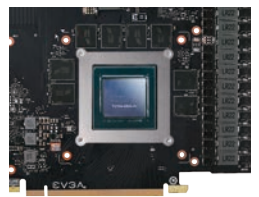
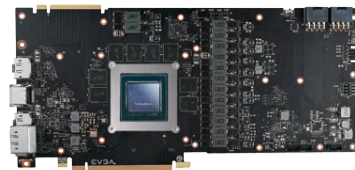
(a) Carefully remove the original heatsink and fan. You may need to gently twist the thermal module to loosen up the heatsink from the thermal pads and GPU thermal grease. Once loose, gently lift the side of the heatsink to expose the fan and LED connectors.

(b) Please be careful when removing the fan and LED connectors, the wires can snap if pulled too hard. The safest way to remove the connector is with a small flat-head screwdriver, tweezers, or fingernails to raise the edge of the headers a little at a time. Set aside the heatsink/fan; it will no longer be needed for this Kit.



4. Clean the card for installation:

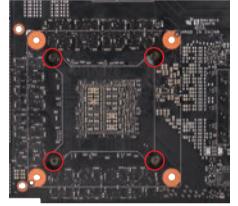
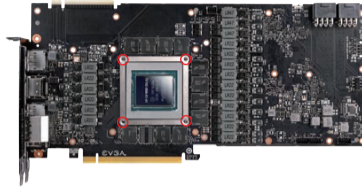
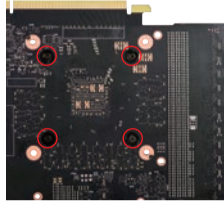
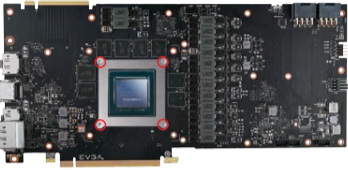
Remove all thermal grease on the GPU and remove any pads that stick on the PCB. Clean the GPU with high-percentage isopropyl alcohol and a lint-free cloth. You may try to reattach the thermal pads to the same location on the original cooler in case you need to return the card to its original state for warranty purposes. After you are finished cleaning, the card should look like these photos:



5. Install GPU Bracket

(a) Install the GPU bracket included in this kit. Align the mounting holes with the PCB, as shown in the photos to the right. If the GPU bracket is too large or too small, you may have purchased the wrong HYDRO COPPER Kit for your graphics card. Discontinue installation and contact EVGA Customer Service to verify whether your graphics card is compatible with this kit.

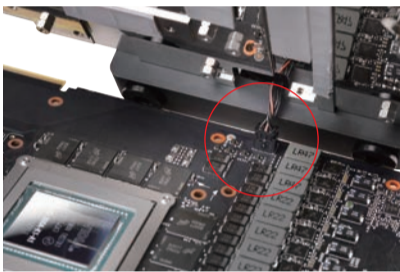
(b) Carefully turn the card over and paste 4 #10 black washers on the holes indicated below. Use 4 #4 screws to fasten the GPU bracket, similar to the images below.



6. Apply Thermal Grease

(a) Turn card over and apply thermal grease carefully to the GPU. Take care to avoid putting thermal grease on any other components. If you get thermal grease on other components, clean any affected areas with high-percentage isopropyl/rubbing alcohol.

(b) Install the 6pin EVGA HYDRO COPPER plug LED connector.



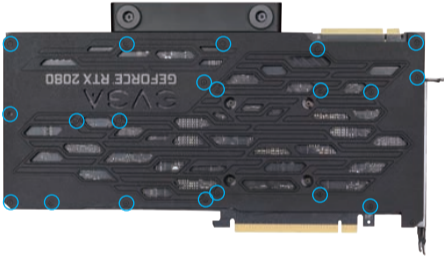
(c) Carefully line up the standoffs on the waterblock to their matching holes on the PCB. Gently lower the waterblock until it is fully seated on the PCB.



7. Complete installation

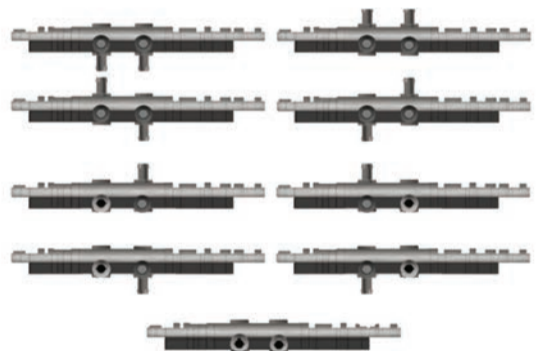
(a) Carefully turn the card and waterblock over. Tighten 20#3 screws if you are using a backplate (use 20#8 screws if you do not have a backplate), circled in blue.

(b) Fasten 1#3 screw using 1#5 nut, as shown in the photos below.



At this point, your waterblock should be fully tightened and ready to test. As noted before, please use care to avoid overtightening, as this may strip the screws and/or damage the graphics card. Lastly, do not use power tools to install the waterblock or backplate.

8. Install your barb/compression fittings, included plug fittings, and hose clamps (if needed). The thread size is G1/4. You may use either the left or right side of the terminal as an inlet or an outlet; make sure that you use no more than one barb or compression fitting on the same side or you will drastically reduce cooling performance. Lastly, double-check to confirm that all terminal ports contain either a barb/compression fitting or a plug fitting. To properly position your fittings, follow the diagram to the right.



Important Information

EVGA FTW3 Hydro Copper Waterblocks are leak tested at the factory before shipping to the customer. Regardless, it is still recommended to run a full leak test after installing the EVGA FTW3 Hydro Copper Waterblock and connecting it to your water loop. The EVGA FTW3 Hydro Copper Waterblock is compatible with RTX 2080 Ti / 2080 / 2070 FTW3 and FTW3 Ultra graphics cards.

It is recommended to use distilled water or any other popular, certified, and approved liquid coolant. Using tap water or any other liquid not meant for water cooling will cause damage, including corrosion, to the EVGA FTW3 Hydro Copper Waterblock. Damage caused by using an EVGA FTW3 Hydro Copper Waterblock with improper liquids will void the limited 1 year warranty.

It is strongly recommended to avoid using aluminum components within the same loop as the EVGA FTW3 Hydro Copper Waterblock. Mixing copper and aluminum may cause corrosion, which will void the limited 1 year warranty. Refer to your manufacturer's RTX 2080 Ti / 2080 / 2070 warranty information before installing the EVGA FTW3 Hydro Copper Waterblock. If you damage your RTX 2080 Ti / 2080 / 2070 series graphics card due to improper installation, EVGA will not be held liable for physical damage to your RTX 2080 Ti / 2080 / 2070 series graphics card or your EVGA FTW3 Hydro Copper Waterblock.