

# EVGA | GEFORCE RTX

2080 Ti / 2080 / 2070 XC HYBRID Installation Guide

The following instructions and pictures are provided to assist your installation of the EVGA RTX 2080 Ti/2080/2070 XC HYBRID Cooling Kit to the EVGA RTX 2080 Ti/2080/2070 XC 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.**

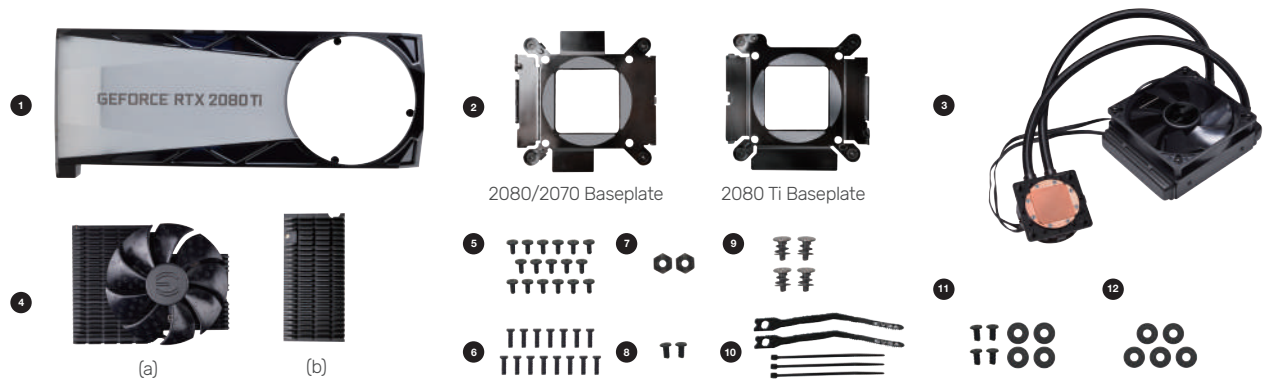
The instructions below will walk you through the removal of the original heatsink, fan(s), EVGA HYBRID module installation and replacement shroud. Please see below for SKU's compatible with this cooler:

#	Graphics Cards	Part Number		
A	EVGA BLOWER (2 SLOT)	08G-P4-2080-KR 08G-P4-2070-KR	08G-P4-3070-KR 08G-P4-3080-KR	
B	EVGA BLACK EDITION (2 SLOT)	11G-P4-2381-KR 08G-P4-2181-KR 08G-P4-2171-KR	11G-P4-2281-KR 08G-P4-2081-KR 08G-P4-3071-KR	08G-P4-3081-KR
C	XC ULTRA (2.75 SLOT)	11G-P4-2383-KR 08G-P4-2183-KR	08G-P4-2173-KR 08G-P4-3163-KR	08G-P4-3173-KR 08G-P4-3183-KR
D	XC (2 SLOT)	11G-P4-2382-KR 08G-P4-2182-KR 08G-P4-2172-KR 08G-P4-1171-KR	11G-P4-2282-KR 08G-P4-2082-KR 08G-P4-2071-KR 08G-P4-3161-KR	08G-P4-3162-KR 08G-P4-3172-KR 08G-P4-3182-KR
E	XC2 (2.75 SLOT)	11G-P4-2387-KR 08G-P4-2187-KR	11G-P4-2385-KR 08G-P4-2185-KR	08G-P4-3185-KR 08G-P4-3187-KR

## Included Accessories:

1	EVGA HYBRID Shroud
2	EVGA 2080/2070 HYBRID Baseplate EVGA 2080 Ti HYBRID Baseplate
3	EVGA HYBRID Pump and Radiator
4	EVGA 2080/2070 VRM Heatsink (a) EVGA 2080 Ti HYBRID VRM Heatsink (a+b)
5	M2x5mm 17pcs screw. PN:BAA120050052 (for users who don't install backplate)
6	M2x7mm 17pcs screw. PN:BAA120070024 (for users who do install backplate)

7	Screw nut 2pcs. PN:BAA350030000
8	M2x4mm 2pcs screws. PN:BAA120040056
9	M2x3mm 4pcs. PN:BAA125088001-B
10	Cable ties 2pcs hook and loop and 4pcs zip ties.
11	4pcs screw and 4pcs washer to mount radiator.
12	Mylar 5pcs. PN:BGD100000003



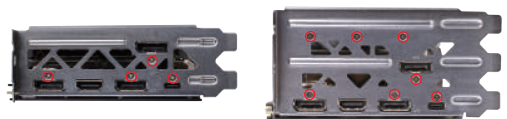
\*Please note that the accessory list above covers all items expected to be included in the XC HYBRID Kit. There are two types of heatsinks for the Memory and VRM, but this Kit only includes the heatsink that is designed for your card. It is possible that you may receive extra accessories that will go 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 20 screws circled in the picture to the right using a Phillips #1 screwdriver. Carefully set aside, as these screws will not be used again. If your card has a backplate, it is not necessary to remove the backplate to install the XC HYBRID Kit, but it is necessary to remove the screws so that the heatsink and fan can be removed.



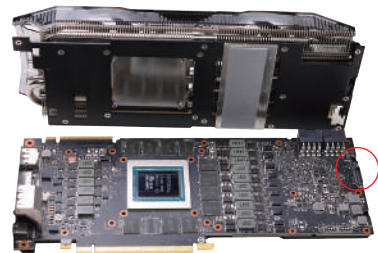
2. Loosen, but don't remove, the screws circled on the bracket in the images to the right with a Phillips #1 screwdriver. You will tighten both the bracket and these screws at a later step. There is no need to remove the bracket to complete all steps.



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

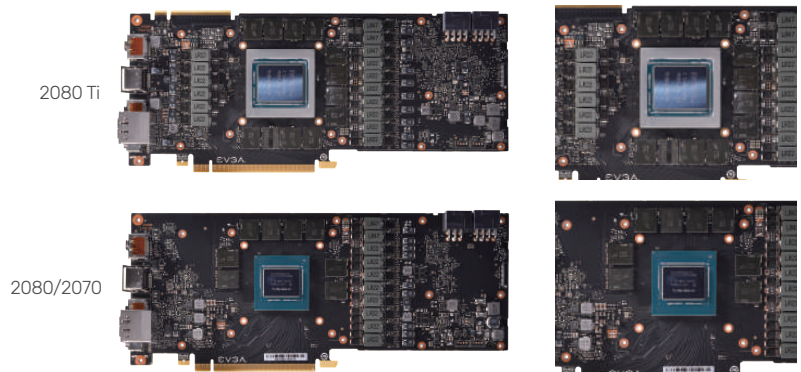
(a) You may need to gently twist the thermal module to loosen up the heatsink from the thermal pads and GPU thermal grease. Once loose, gently lift the side of the heatsink to expose the fan and LED connector.

(b) Please be careful when removing the fan/LED connector, because the wires can snap if pulled too hard. Set aside the heatsink/fan, as it will no longer be needed for this Kit.



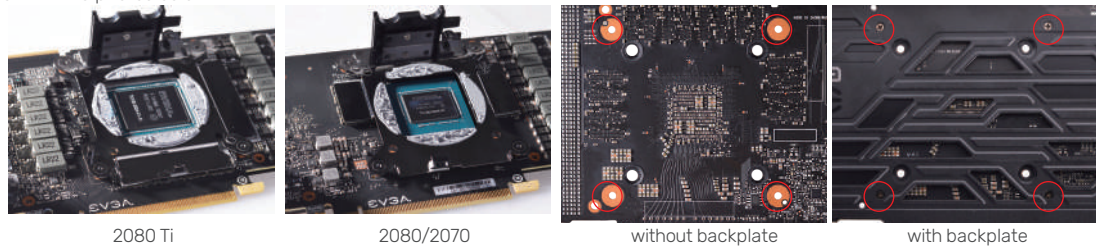
4. Clean the card for installation:

Remove all thermal grease on the GPU and remove any pads that stick to 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:



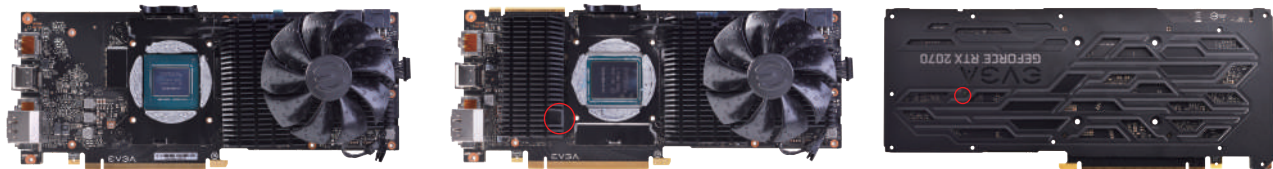
#### 5. Install the memory baseplate

- (a) Remove the protective tape on the bottom of the #2 memory baseplate. Next, install the memory baseplate as shown in the photos below. Note that the RTX 2080/2070 cards have a different memory orientation than the RTX 2080 Ti; the bracket in your kit will be designed for your model of card.
- (b) Hold the memory plate in place and turn the card over. Tighten 4 #5 screws (without a backplate) or #6 screws (with a backplate) with a #1 Phillips screwdriver, as shown in the photos below.



#### 6. Install the VRM Heatsink. Remove the protective tape on the bottom of the heatsink(s).

- (a) For 2080/2070 models, install the #4 (a) heatsink, as shown in the left photo below.
- (b) For 2080 Ti models, install both #4 (a) and (b) heatsinks. #4 (b) will slide over a post on the memory heatsink. Fasten #4 (b) with 1 #8 screw, as shown in the middle photo below. Next, install #4 (a) heatsink.
- (c) For all models, hold the #4 (a) heatsink in place and turn the card over. Tighten 1 #5 screw (without a backplate) or #6 screw (with a backplate) to secure the heatsink, as shown in the right photo below.



#### 7. Install Pump

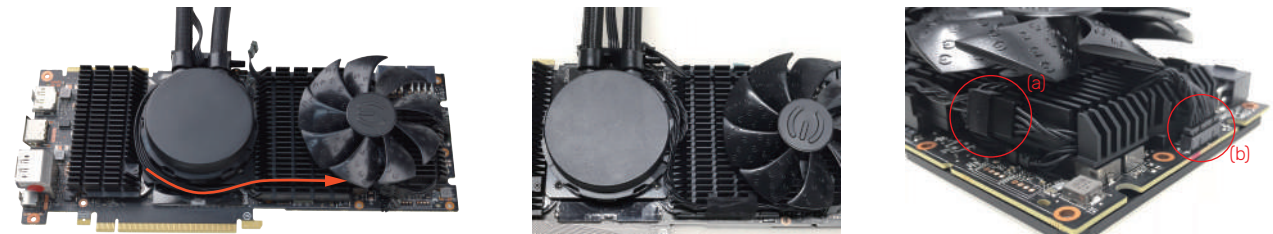
- (a) Carefully remove the plastic cover over the #3 pump without touching the thermal grease. Before you install the pump, make sure to wrap the fan cable that connects to the VRM heatsink around the pump in a counter-clockwise manner, and run the radiator fan wire between the tubing so that it will fit in the middle of the grooves of the insert, as shown in the photo to the left. You will not be able to adjust the wiring after securing the pump, so it's recommended to do this now.

- (b) Install the pump over the memory baseplate (see Step 8 to see the pump fully installed). Next, turn the card over while holding the pump in place. Insert 4 #12 mylar washers as shown in the middle photo, then fasten the pump to the card using 4 #8 spring screws with a #1 Phillips Screwdriver, as shown in the photo on the right.



#### 8. Install Pump Power Cable

- (a) For all cards, run the wires from the pump to the VRM heatsink connector. Make sure the wiring covered with acetate tape is seated within the groove of the #4 (a) heatsink, as shown in the left and middle photos, and plug the power adapter into the passthrough fan connector.
- (b) Finally, plug the MOSFET fan cable into the 19-pin fan/RGB connector (see right photo).

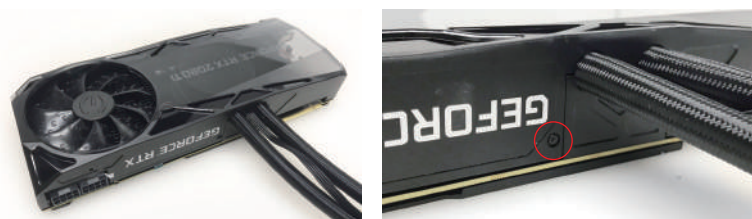


#### 9. Position the shroud adjacent to the graphics card by using the tubes as a reference. Carefully connect the RGB LED connector on the shroud to the RGB connector that runs through the VRM heatsink. Take care that the cables remain away from the fan.



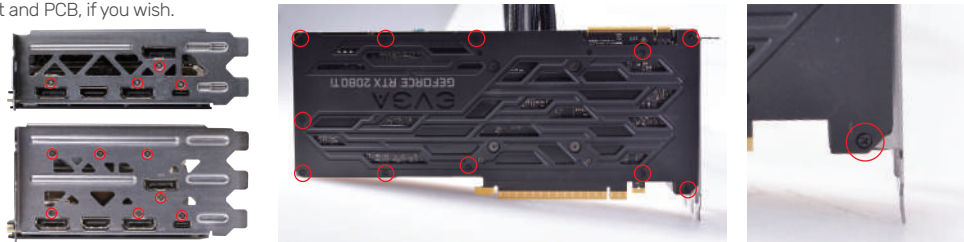
#### 10. Install HYBRID radiator fan cable and the shroud

- (a) Install the #1 shroud onto the card, making sure the shroud is beneath the edge of the bracket, and fits into the grooves on the insert. It is important that the radiator fan cable is centered between the tubes. You may connect the pump cable to the radiator fan cable at this time.
- (b) Once seated, use one #8 screw to fasten the shroud to the insert.



#### 11. Tighten the bracket, fasten the backplate, and finish.

- (a) At this point, tighten the bracket that you loosened in Step 2.
- (b) Tighten the shroud and VRM heatsinks using the remaining #5 screws (without a backplate) or #6 screws (with a backplate) using a #1 Phillips screwdriver, as shown in the middle image.
- (c) For 2080/2070 models, fasten one #5 or #6 screw with a #7 nut in the circled area, as shown in the right photo below. There should be one extra #12 mylar washer you can use between the nut and PCB, if you wish.



### Mounting the Radiator

- To mount the radiator, it is recommended that the radiator be installed at a level above the HYBRID graphics card. This will reduce pump noise and the potential to create an air bubble in the loop.
- The radiator will fit mounting holes designed for a 120mm x 120mm case fan.
- The default setting for the HYBRID's radiator/fan is to blow through the radiator and outside the chassis. For the reason, we recommend installing the radiator at the back or top of the chassis.
- If installing the radiator in the back of the chassis, we recommend positioning the tubes at the bottom of the radiator.
- Make sure that you leave some slack in the tubing lines to prevent damage to the tubing or internal fittings. If the tubes are twisted too much or pulled too tightly, you may cause damage to the pump/radiator or cause the HYBRID kit to begin leaking.
- When ready, line-up the radiator with mounting holes on the chassis. On the outside of the chassis use #11 washers and screws to fasten the radiator to the chassis.
- Once fully mounted, use the remaining #10 cable ties to secure the radiator fan wire to the tubing.
- Your EVGA RTX 2080 Ti/2080/2070 XC HYBRID Kit installation is now fully complete!

### Important Information

EVGA RTX 2080 Ti/2080/2070 XC HYBRID Kit is an AIO Water Cooling System. You do not need to add any coolant, and the system is completely self-contained. EVGA RTX 2080 Ti/2080/2070 XC HYBRID Kits have been leak-tested at the factory before shipping to customers. EVGA RTX 2080 Ti/2080/2070 XC HYBRID Kits are exclusive only to EVGA RTX 2080 Ti/2080/2070 XC graphics cards and were not designed to fit any other graphics cards.

### Warranty for the RTX 2080 Ti/2080/2070 XC HYBRID Kit

Your EVGA RTX 2080 Ti/2080/2070 XC HYBRID Kit comes with a 1 (one) year warranty. Refer to your RTX 2080 Ti/2080/2070 manufacturer's warranty information before installing the EVGA RTX 2080 Ti/2080/2070 XC HYBRID Kit. Should you damage your RTX 2080 Ti/2080/2070 graphics card during the installation process, EVGA will not be held responsible for any physical damage to your EVGA RTX 2080 Ti/2080/2070 XC HYBRID Kit, case, motherboard or any associated hardware when damage is caused by improper installation.