



**GEFORCE® GTX™ 1080 / 1070  
FTW  
HYBRID**

Installation Guide



The following instructions and pictures are provided to assist you with the installation of the EVGA GTX™ 1080/GTX™ 1070 FTW Hybrid Cooling Kit on compatible GTX™ 1080/GTX™ 1070 FTW graphics cards. Please be careful when install the FTW Hybrid Cooling Kit; there are several very small screws used, which can be easily stripped.

**Please keep your original cooling solution, including screws. If you ever need to submit a warranty claim, EVGA requires that you reinstall the original cooling solution prior to sending your product in for warranty.**

Steps to install the FTW Hybrid Cooling Kit include removing the backplate, the original heatsink/fan, and the original baseplate before installing a new baseplate, thermal pads on the memory chips and VRM, cleaning the GPU, and installing the waterblock and shroud. This manual will explain the process in much greater detail below. The FTW Hybrid Cooling Kit is officially-compatible with the graphics cards listed below:

GTX™ 1080 FTW	08G-P4-6286-KR
GTX™ 1080 FTW DT	08G-P4-6284-KR
GTX™ 1070 FTW	08G-P4-6276-KR
GTX™ 1070 FTW DT	08G-P4-6274-KR

**Before you begin:**

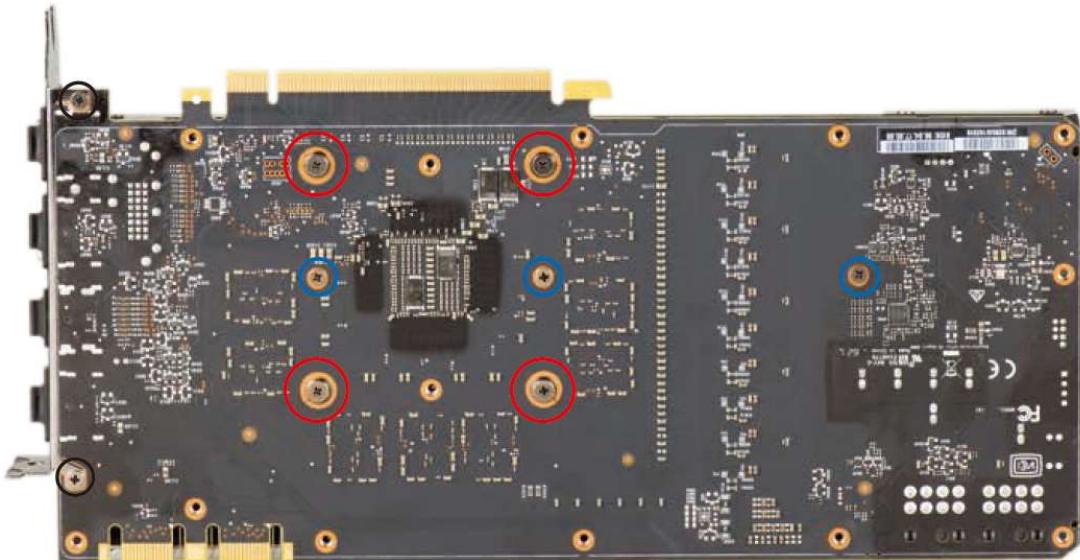
Please look at the table above to confirm that your graphics card is compatible with the FTW Hybrid Cooling Kit. If your graphics card model is not on the list, do not attempt to install the FTW Hybrid Cooling Kit. If you have questions, please call EVGA Customer Support at (888) 881-EVGA, or e-mail Support at [support@evga.com](mailto:support@evga.com).

**Please follow the instructions below:**

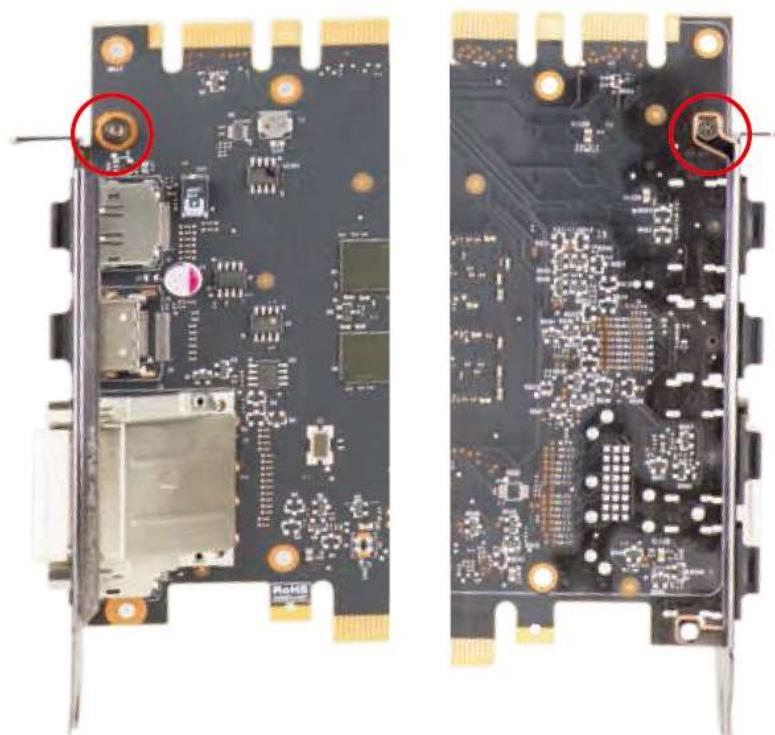
- 1) Remove the screws on the back of the card to separate the backplate from the card. The image below will outline which screws will need to be removed.



- 2) Remove the 4 spring-loaded screws on the back side of the card, as this will allow you to remove the original cooling solution. Set these screws aside for now, as you'll use them again in Step 6. After removing the cooling solution, carefully unplug the fan's power connector from the graphics card's fan header (this is necessary for Step 7). Then, remove any remaining screws on the back side of the card, as this will allow you to remove the metal baseplate. Lastly, remove the screw and nut on the bracket, as this needs to be clear for the new shroud.



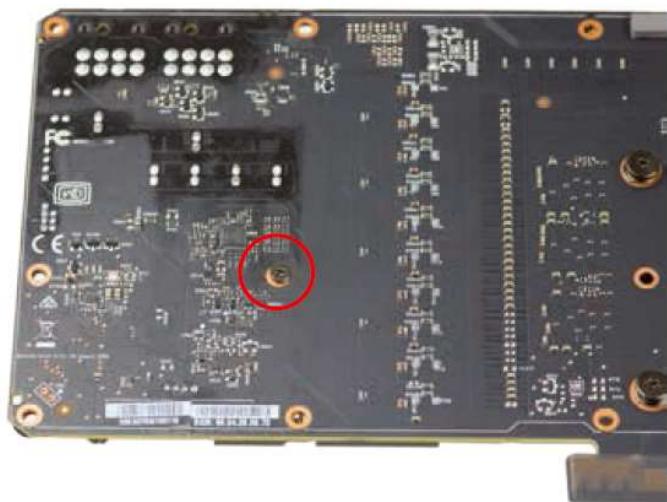
- 3) Mount one screw and nut on bracket.



4) Be sure to fully clean the GPU (see picture) with a high-percentage Isopropyl Alcohol—preferably 90% or higher—and a lint-free cloth to remove all thermal compound.



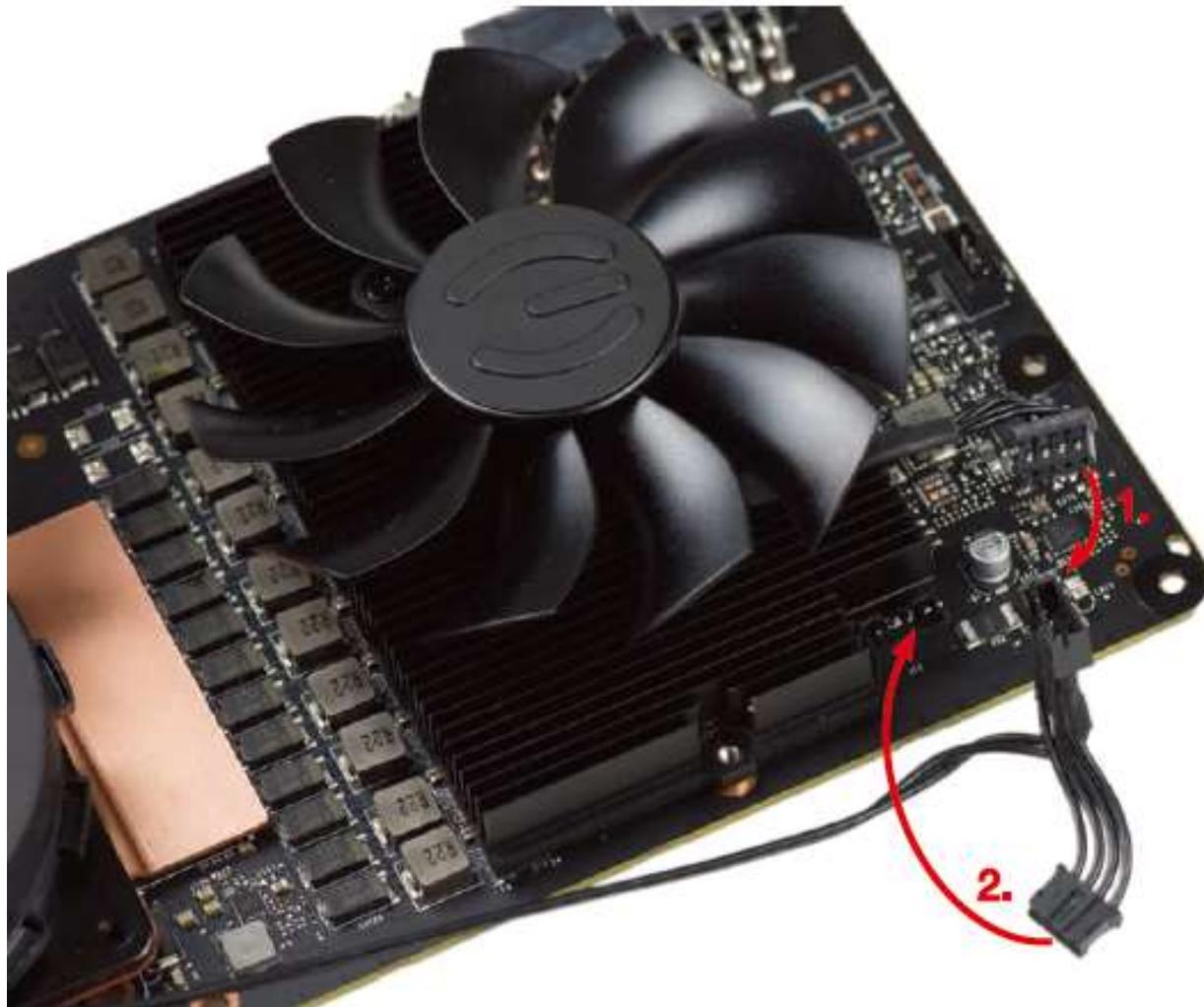
5) Remove the watercooler from the FTW Hybrid Cooling Kit packaging, then separate the shroud, copper memory plate, and heatsink and fan. Carefully place the new heatsink and fan over the VRM, making sure to line up the screw holes on the graphics card's PCB. Secure the new heatsink and fan to the graphics card using a single screw, as shown in the image below:



6) Remove the plastic cover on top of the waterblock. The waterblock comes with pre-applied thermal compound. First, line up the copper heatsink such that the thermal pads go over the memory. Then, mount the waterblock to the card, using the picture below as a guide. Use the spring-loaded screws you previously removed in Step 2 to secure the waterblock to the card.



7) The FTW The Hybrid Cooling Kit's waterblock uses a pass-through cable to power the pump on the waterblock and the fan on the graphics card. Using the pictures below as a guide, (1) plug the fan's power connector into the waterblock's female pass-through connector, then (2) connect the remaining connector into the graphics card's fan header. Once all connectors are attached, please use the included strips of tape to secure the wires to the plastic around the perimeter of the fan; the wires must not come into contact with the fan. Lastly, install the three washers at the end of the card by placing the adhesive side on the PCB.



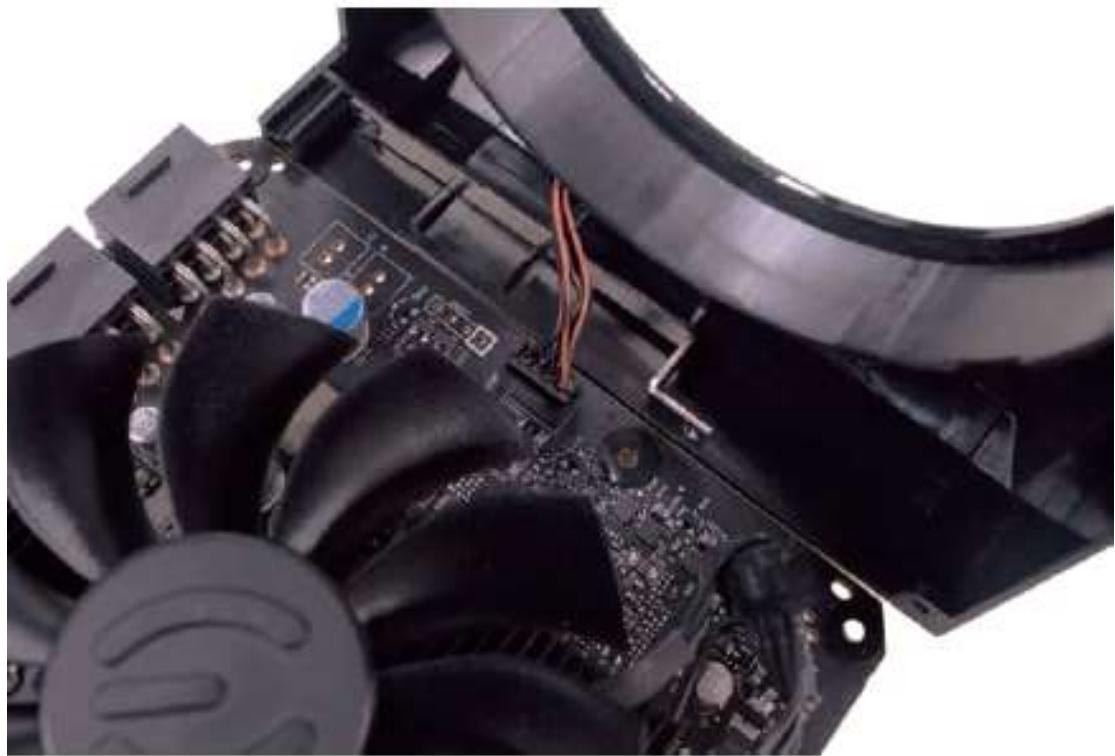
8) Use the fins in the heatsink to run the wires underneath the fan, then gently flatten the cables parallel to the PCB. We recommend using the 6<sup>th</sup> fin from the bottom, as shown in the pic below.



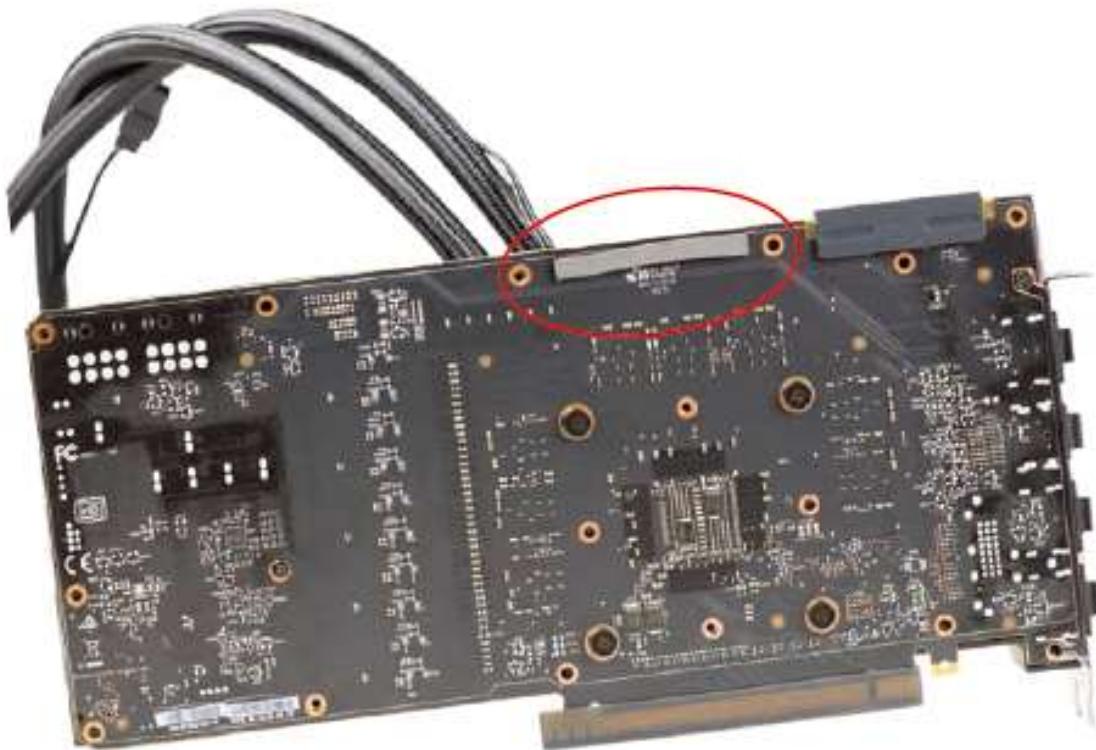
9) Attach the included rubber insert to the edge of the card, which will be used to hold the tubes in place. Make sure to run the fan-connector underneath the small channel provided under the rubber insert.



10) Plug in the 2-pin LED power cable from the shroud into the LED header. Use the picture below as a guide:



11) Place one thermal pad on the back of PCB.



12) Place the shroud over the top of the card. The rubber insert is held down only by the tubing and shroud, so ensure the insert is aligned properly before installing the shroud (See pic in Step 9). Make sure to align the shroud with the tubing and the cutouts in the rubber insert, and then insert the shroud into place. Turn the card over and place the backplate on the PCB. Secure the backplate to the card and shroud using the screws provided. Make sure the screw is attached to the rubber insert.



## **Important Information**

The EVGA GTX™ 1080/GTX™ 1070 FTW Hybrid Cooling Kit is an AIO (All-In-One) Water Cooling System. With AIO Water Cooling Systems, you do not need to add any coolant, and the system is completely self-contained. All EVGA Hybrid Cooling Kits are leak tested at the factory, and are ready to install when received. EVGA GTX™ 1080/GTX™ 1070 FTW Hybrid Cooling Kits are only officially-compatible with air-cooled NVIDIA Reference PCB designs for EVGA GTX™ 1080 and GTX™ 1070 graphics cards, and are neither designed for, nor officially-supported for, any other graphics cards or graphics card brands.

## **Warranty for the GTX™ 1080/GTX™ 1070 FTW Hybrid Cooling Kit**

Your EVGA GTX™ 1080/GTX™ 1070 FTW Hybrid Cooling Kit comes with a 1 (one) year warranty. Refer to your GTX™ 1080/GTX™ 1070 manufacturer's warranty information before installing the EVGA GTX™ 1080/GTX™ 1070 FTW Hybrid Cooling Kit. EVGA will not be held liable for the physical damage of your GTX™ 1080/GTX™ 1070, FTW Hybrid Cooling Kit, case, motherboard or any other associated hardware when damage is caused by improper installation.



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