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 the parts compatible with this cooler.

### Included Accessories:

1. **EVGA HYDRO COPPER**
2. **GPU Bracket**
3. **M2x7mm 2pcs screws. (For use with a backplate.)**
4. **Use a Phillips #1 screwdriver to remove or install.**
5. **M3x4mm 4pcs screws.**
6. **Use a Phillips #1 screwdriver to remove or install.**

**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 accessoires 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/fan(s).
2. Remove the 26 screws circled in the pictures 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.
3. Remove heatsink and fan, while carefully disconnecting fan and LED connections.
   - 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 paste. Once loose, gently lift the side of the heatsink to expose the fan and LED connections.
   - 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 fingers 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. Reinstall parts as described in the instructions below.
4. Clean the card for installations:
   - Remove all thermal grease on the GPU and remove any pads that stick
     on the POG. Clean the GPU with high-percentage isopropyl alcohol and
     a static-free cloth. You may try to rework the thermal paste to the same
     location on the original cassette 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:
   - Install the GPU bracket included in this kit. Align the mounting holes
     with the POG, 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.

6. Apply Thermal Pasting:
   - Turn card over and apply thermal grease carefully to the GPU. Take care
     to avoid spilling thermal grease on any other components. If you get
     thermal grease on other components, clean any affected areas with
     high-percentage isopropyl alcohol.

7. Install the EVO HYDRO COPPER plug LED connector:
   - Carefully line up the standoff on the waterblock to their
     matching holes on the POG. Gently lower the waterblock until it is
     fully seated on the POG.

8. Complete installation:
   - Carefully turn the card and waterblock over. Tighten 20Ks screws if you
     are using a backplane. Use 20K8 screws if you do not have a backplane),
     circled in blue.

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

8. Install your barb/compression fittings, included plug fittings, and hose clamps (if
   needed). The thread size is D14A. 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.

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Important Information:

EVO HYDRO Copper Waterblocks are tested at the factory before shipping to the customer. Regardless, it is still recommended to run a full leak test after installing the EVO HYDRO Copper Waterblock and connecting it to your water loop. The EVO HYDRO Copper Waterblock is compatible with RTX 2080 Ti / 2080 / 2070 FTWs 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 EVO HYDRO Copper Waterblock. Damage caused by using an EVO HYDRO Copper Waterblock with improper liquids will void the limited warranty.

It is strongly recommended to avoid using aluminum components with the same block as the EVO HYDRO Copper Waterblock. Mixing copper and aluminum may cause corrosion, which will void the limited warranty. Refer to your manufacturer's RTX 2080 Ti / 2080 / 2070 warranty information before installing the EVO 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 EVO HYDRO Copper Waterblock.