GLACIER G1080Ti GIGABYTE AORUS

PH-GB1080TiGB_BK02/CR02

INSTALLATION GUIDE

PACKAGE CONTENTS

	Glacier G1080Ti Water Block (Gigabyte Aorus 1080Ti) QTY: 1		Thermal Pads QTY: 3 Description: For applying on circuit board on GPU		Thermal Compound (PH-NDC_01) QTY: 1
	M2.5x5 QTY: 11 (Spare 4pcs)		Phanteks Plugs QTY: 2		Phanteks RGB Cable for GPU (option a) QTY: 1
	RGB Cable for Phanteks case (option b) QTY: 1		Phanteks RGB motherboard adapter QTY: 1		

⚠ **DISCLAIMER -** This product is intended for advanced users. Please consult with a qualified technician for installation, improper installation may result in damage to your equipment. While all efforts have been made to provide the most comprehensive information possible, Phanteks assumes no liability expressed or implied for any damage(s) occurring to your components as a result of using Phanteks cooling products, either due to mistake or omission on our part in the below instructions, or due to failure or defect in the Phanteks cooling products.

WARNING - Turn off the power to your system and discharge your body's static electric charge by touching a grounded surface – for example, the metal surface of the power supply or chassis – before performing any hardware procedure. Phanteks assumes no liability for any damage, caused directly or indirectly, by improper installation of any components. If you do not feel comfortable with performing the installation procedure, consult a qualified computer technician.
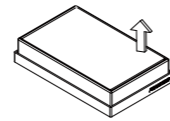
*Please do not disassemble the water block. Warranty will be voided.

INSTALLATION
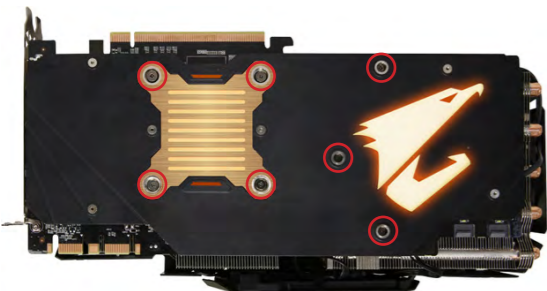
STEP 1. REMOVING STOCK COOLER

💡 **PRO TIP** Take out the top EVA-FOAM from the box to use as a base for your GPU placement.

Remove all highlighted screws. All heat sink assembly screws should be removed, including self-adhesive washers on both sides of the PCB (if present).

⚠ *Make sure to unplug the RGB LED cables when you remove the housing.*

STEP 2. APPLYING THERMAL COMPOUND

Wipe off the remains of the original thermal compound until components and circuit board are completely clean (we recommend using a isopropanol cleaning pad). Apply a light coat (see image) of the PH-NDC-)1 thermal paste.

💡 **PRO TIP** *Lightly coat Nivida GPU Chip with the enclosed thermal paste.*

STEP 3. PLACING THERMAL PADS ON PCB

Place thermal pads on the circuit board as shown on the picture. Refer to numbering in previous icture when applying thermal pads of different sizes or thickness. Phanteks made sure to provide customers with more than adequate quantity of thermal pads to complete this step.

for Memory IC — 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
for Vdd VRM — 2
for Vdd MOSFET — 3

Position 1: 16x13x0.75mm
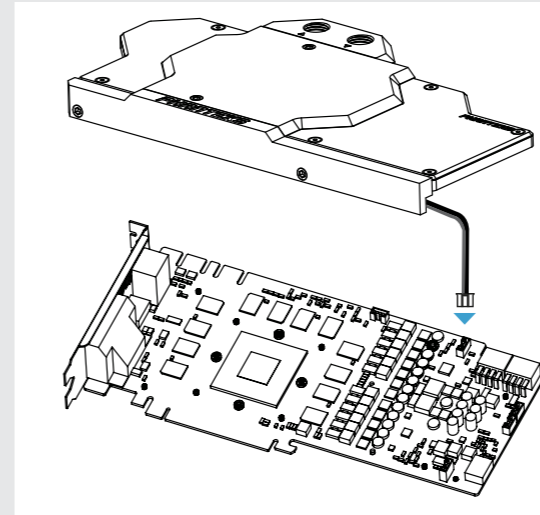Position 2: 10x90x0.75mm
Position 3: 20x90x1.25mm

✂ *For thermal pad 2 & 3, adjust and cut length according to GPU, VDD, VRM chips/ Mosfet Chips.*

BEFORE PROCEEDING, PLEASE CHOOSE BETWEEN THE FOLLOWING:
Option a: Control RGB lighting through your RGB-equipped GPU.
Option b: Sync and control RGB lighting through your RGB-equipped motherboard or Phanteks case.
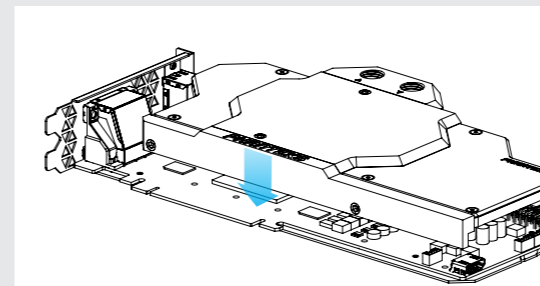
OPTION a:

STEP 4a. CONNECTING THE RGB LED TO THE PCB

Make sure to connect the RGB LED cable from the waterblock to the GPU's RGB header (see illustration).

💡 **PRO TIP** *For the RGB LED control (software), please refer to the user manual of your graphic card.*

STEP 5a. PLACING THE BLOCK ONTO THE GRAPHICS CARD

Route the RGB LED cable between the water block and GPU. Carefully position the water block onto the graphics card. During the process please make sure you align the mounting holes on the PCB with the holes on the water block.
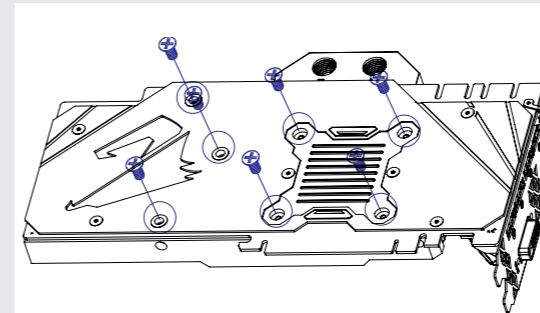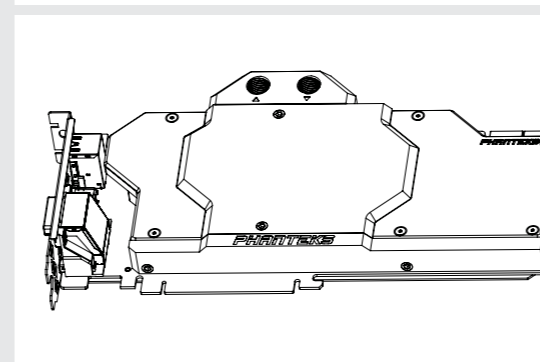

STEP 6a. INSTALLING THE BACK PLATE

Align the backplate holes with the waterblock and use the included M2.5x5 (shown in blue) to tighten the block to the GPU core.
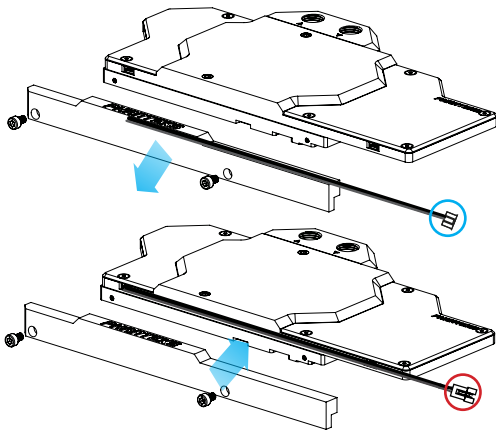
💡 **PRO TIP** *Make sure to lay the GPU with the water block flat down without resting on the PCI. Do not use too much force by pressing down on the PC. Chip dies are prone to cracking.*


Please go to Step 8

OPTION b:

STEP 4b. INSTALLING THE RGB CABLE CONNECTOR TO THE BLOCK

Remove the bottom cover by removing the two screws at the bottom of the block. Remove the installed RGB cable (option a, encircled in Blue) by disconnectig the RGB cable from the LED connector on the block. Install the new RGB cable (option b, encircled in Red) into the slot (see illustration). Align the bottom cover to the water block and screw back the two screws.

PROTIP *Make sure to connect the RGB cable to the LED strip connector on the water block before installing the bottom cover.*
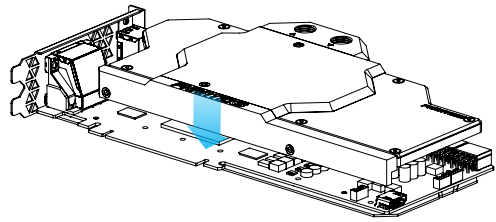
## STEP 5b. PLACING THE BLOCK ONTO THE GRAPHICS CARD

Route the RGB LED cable between the water block and GPU. Carefully position the water block onto the graphics card. During the process please make sure you align the mounting holes on the PCB with the holes on the water block.

STEP 6b. INSTALLING THE BACK PLATE

Align the backplate holes with the waterblock and use the included M2.5x5 (shown in blue) to tighten the block to the GPU core.
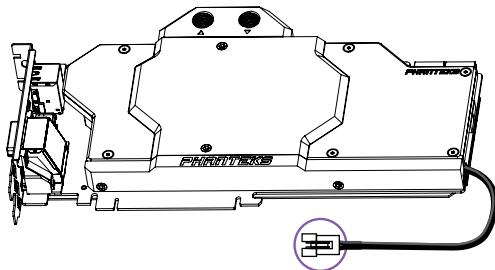
PROTIP *Make sure to lay the GPU with the water block flat down without resting on the PCI. Do not use too much force by pressing down on the PCB. Chip dies are prone to cracking.*
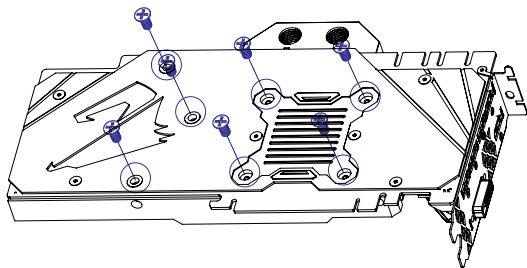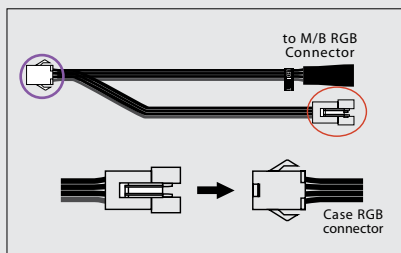
STEP 7b. CONNECTING THE PHANTEKS RGB CABLE

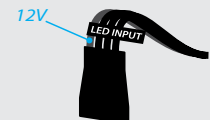There are two options available for setting up your RGB lighting:
1. Connect to Phanteks case
2. Connect to M/B RGB LED adapter *(for option 2, please see below)*

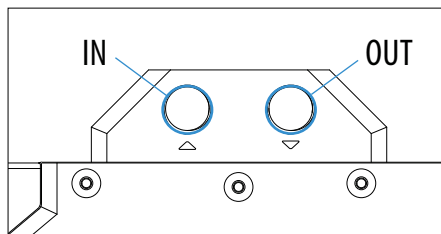*1. Connect to Phanteks Case*
2. M/B RGB LED Adapter

to M/B RGB Connector

Case RGB connector

Make sure the 12V pin (grey colored cable) is connected to the 12V pin on the motherboard header.

12V
LED INPUT

MOTHERBOARD /GPU RGB HEADER
12V G R B

STEP 8. INSTALLALTION OF FITTINGS AND TUBING

IN   OUT

Screw in the two G1/4 threaded male fittings, attach the liquid cooling tubes and connect the water block(s) into the cooling circuit. Phanteks recommends using Phanteks fitting with the Phanteks Glacier Series water blocks.

PROTIP *- For the best performance, we recommend to match the inlet/outlet configuration of the water block.*
- Do not forget to plug the remaining two openings.
- Always perform a leaktest before starting your computer.

Phanteks recommends you follow the steps below before you start your water loop setup
1. Test all your hardware before you start your water loop setup to make sure it is in working condition.
2. Plan out your loop to save some time.
3. Flush and rinse your water blocks with distilled water prior to use to ensure a clean loop.
4. Make sure that everything is unpowered and unplugged, either at the power supply end or hardware's end before you start your leak test.
5. Use paper towels under fittings and joints to avoid damage if there are leaks.
6. With the fill port open, run the loop for approximately 24 hours to completely bleed the air out of the loop.