

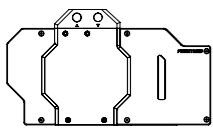


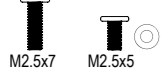




**GLACIER G1080Ti**

**MSI GAMING**

PH-GB1080TiMS\_BK01/CR01

## INSTALLATION GUIDE

## PACKAGE CONTENTS

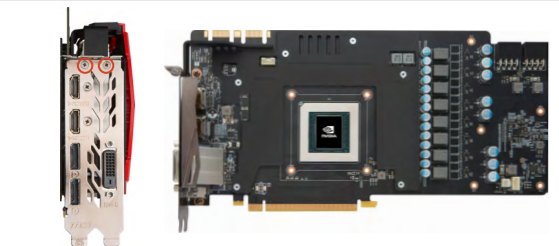
	Glacier G1080 Water Block (MSI GTX 1080TI GAMING X) QTY: 1		Thermal Pads QTY: 3  Description: For applying on circuit board on GPU		Thermal Compound (PH-NDC_01) QTY: 1
	M2.5x7 QTY: 15 (spare 4pcs)  M2.5x5, washers QTY: 8 (spare 4pcs)		Phanteks Plugs QTY: 2		Phanteks RGB Cable for GPU (option a) QTY: 1
	Phanteks RGB Cable for Phanteks Case (option b) QTY: 1		Phanteks RGB Adapter for Motherboard 4pin header 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.

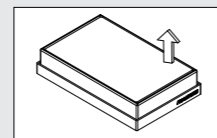
*\*Please do not disassemble the water block. Warranty will be voided.*

## 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 and fan cables when you remove the stock cooler and backplate.

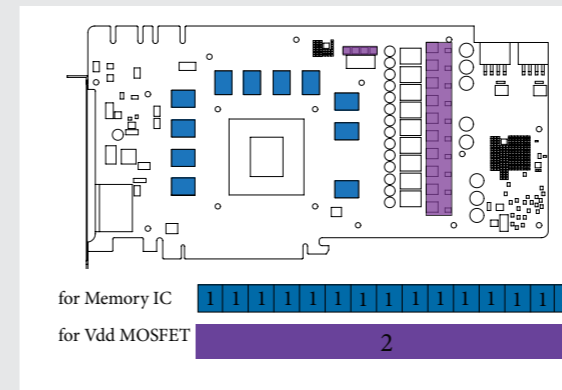
### STEP 2. REMOVING COOLING PLATES AND THERMAL PADS

Remove the two encircled screws (in red) on the PCI bracket. Remove the cooling plates and thermal pads.

### STEP 3. 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-01 thermal paste.

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



### STEP 4. PLACING THERMAL PADS ON PCB

Remove the protective film and place thermal pads on the PCB as shown on the picture. A spare thermal pad is included.

**!** Make sure to remove the protective film on both sides of the thermal pads.

Pad 1: 13x160x1.5mm

**✂** For thermal pad 2, adjust and cut length according to MOSFET chips.

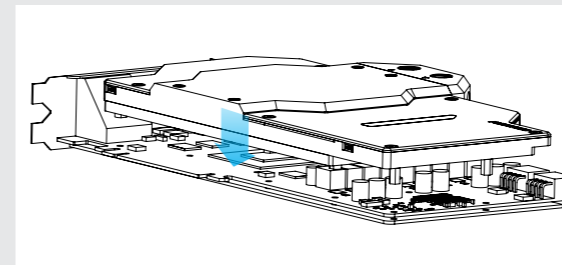
Pad 2: 20x120x1.5mm

### BEFORE PROCEEDING, PLEASE CHOOSE BETWEEN THE FOLLOWING:

Option a: Sync and control RGB lighting through your RGB-equipped motherboard or Phanteks case.

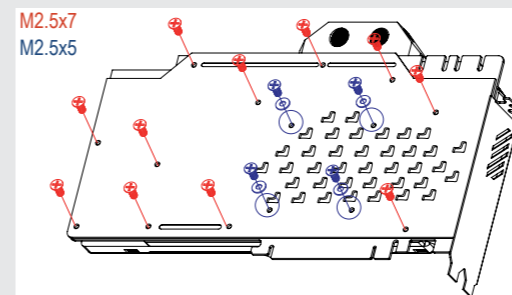
Option b: Control RGB lighting through your RGB-equipped GPU.

### OPTION a:



### STEP 5a. PLACING THE BLOCK ONTO THE GRAPHICS CARD

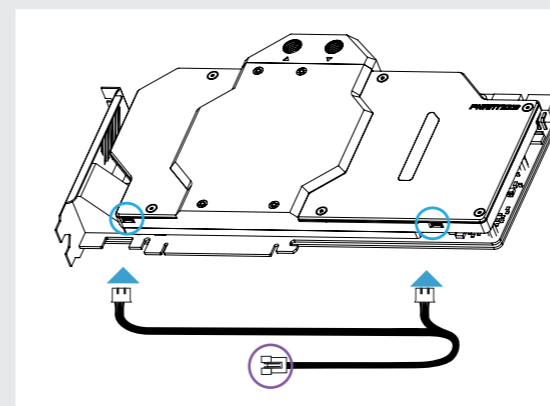
Carefully position the water block onto the graphics card. During the process please make sure you align the mounting holes on the PCB with the holes on the water block.



### STEP 6a. INSTALLING THE BACK PLATE

Align the backplate holes with the waterblock and use the included M2.5x8 screws (shown in red) to tighten the block to the back plate. Screw the 4x M2.5x5 (shown in blue) to tighten the block to the GPU core.

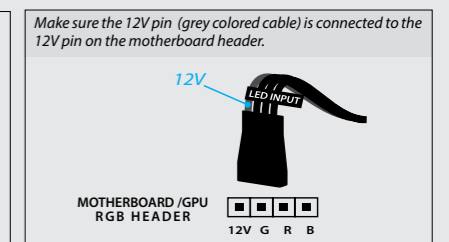
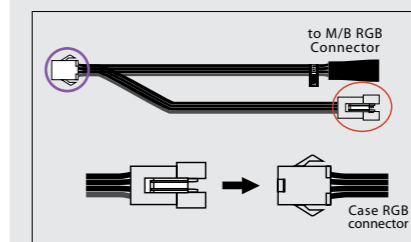
**PRO TIP** Make sure to lay the GPU with the waterblock flat down without resting on the PCI bracket. Do not use too much force by pressing the block down to the PCB. Chip dies are prone to cracking.



### STEP 7a. CONNECTING THE PHANTEKS RGB CABLE

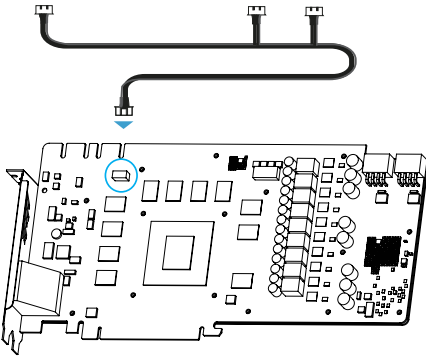
There are two options available for setting up your RGB lighting:

1. Connect to Phanteks case
2. Connect to M/B RGB LED adapter (for option 2, please see below)



Please go to STEP 8

## OPTION b:

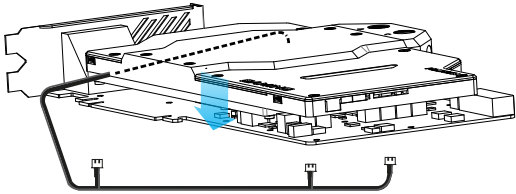


### STEP 5b. CONNECTING THE RGB LED cable for GPU

Connect the RGB LED cable for the GPU before proceeding to the next step.  
This step only apply's to RGB equipped GPU's.

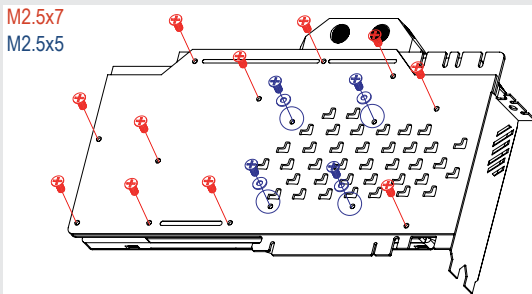


For RGB LED control (software), please refer to the user manual of your graphic card.



### STEP 6b. PLACE THE BLOCK ON TO 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.



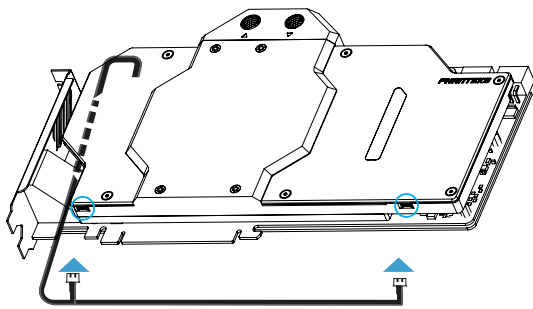
### STEP 7b. INSTALLING THE BACK PLATE

Align the backplate holes with the waterblock and use the included M2.5x7 screws (shown in red) to tighten the block to the back plate. Screw the 4x M2.5x5 (shown in blue) to tighten the block to the GPU core.

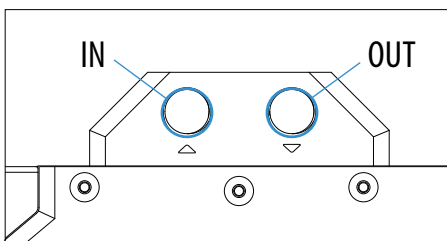


Make sure to lay the GPU with the waterblock flat down without resting on the PCI bracket. Do not use too much force by pressing the block down to the PCB. Chip dies are prone to cracking.

Connect the 2 RGB connectors to the RGB LED strips.



## STEP 8. INSTALLATION OF FITTINGS AND TUBING



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.



- 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.