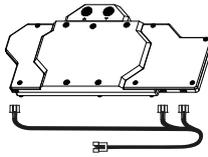
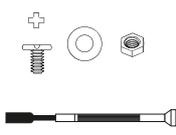
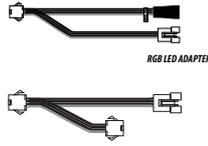


### PACKAGE CONTENTS

	Glacier G1080 Water Block with pre-installed RGB LED QTY: 1  RGB LED Cable QTY: 1		Thermal Pads QTY: 3  Description: For applying on circuit board on GPU
	Thermal Compound (PH-NDC_01) QTY: 1		Phanteks Plugs QTY: 2
	M2.5x5, washers QTY: 20 Hex Nuts QTY: 4  H4 Hex Socket Wrench QTY: 1		Phanteks Motherboard RGB Adapter QTY: 1  RGB Y-Splitter 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 FACTORY PROVIDED BACKPLATE

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 REMOVE THE TWO SCREWS LOCATED ON THE I/O. KEEP THE SCREWS ASIDE TO USE LATER IN STEP 5.

#### STEP 2. REMOVING STOCK COOLER

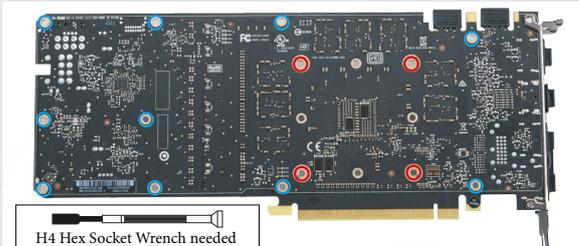
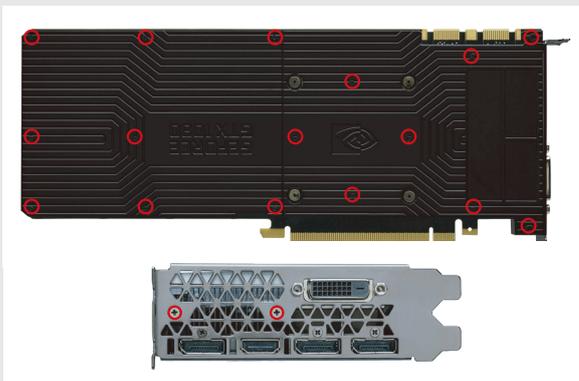
UNFASTEN THE SCREWS AND USE THE PROVIDED H4 HEX SOCKET WRENCH TO REMOVE THE HEX AGONAL SPACER-SCREWS (BLUE CIRCLES). AFTER YOU REMOVE THE HOUSING, DO NOT FORGET TO UNPLUG THE FAN.

**!** MAKE SURE TO KEEP THE HEXAGONAL SPACER-SCREWS ASIDE FOR LATER USE (STEP 5).

#### STEP 3. APPLYING THERMAL COMPOUND

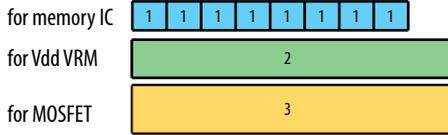
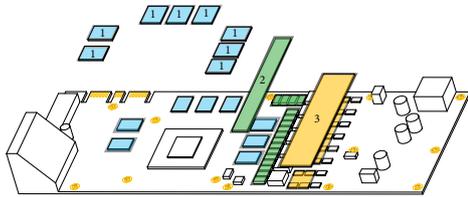
WIPE OFF THE REMAINS OF THE ORIGINAL THERMAL COMPOUND UNTIL COMPONENTS AND CIRCUIT BOARD ARE COMPLETELY CLEAN (WE RECOMMEND USING A ISOPROPRANOL CLEANING PAD) . APPLY A LIGHT COAT (SEE IMAGE) OF THE PH-NDC\_01 THERMAL PASTE.

**!** APPLY THERMAL COMPOUND: LIGHTLY COAT NVIDIA GPU CHIP WITH ENCLOSED THERMAL PASTE.



## STEP 4. PLACING THERMAL PADS ON PCB

PLACE THERMAL PADS ON THE CIRCUIT BOARD AS SHOWN ON THE PICTURE BELOW. REFER TO NUMBERING IN PREVIOUS PICTURE 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.



Position 1: 16 x 13 x 0.75mm  
Position 2: 10 x 90 x 0.75mm  
Position 3: 20 x 90 x 1.25mm



FOR THERMAL PAD 2 & 3, ADJUST AND CUT LENGTH ACCORDING TO GPU VDD VRM CHIPS/MOSFET CHIPS.

## STEP 5. PLACING THE BLOCK ON TO THE GRAPHICS CARD

CAREFULLY POSITION THE WATER BLOCK ONTO THE GRAPHICS CARD. DURING THIS PROCESS PLEASE MAKE SURE YOU ALIGN MOUNTING HOLES ON THE PCB WITH HOLES ON THE WATER BLOCK.

USE THE INCLUDED FOUR (4) M2.5X5 SCREWS AND WASHERS (SHOWN IN RED) TO TIGHTEN THE BLOCK TO THE GPU CORE. \*USE THE STOCK HEXAGONAL SPACER-SCREWS (SHOWN IN BLUE) FROM STEP 2 THAT YOU SET ASIDE AND FASTEN IT TO THE PCB USING THE PROVIDED H4 HEX SOCKET WRENCH.

ONCE THE WATER BLOCK IS INSTALLED TO THE PCB, TAKE THE BACK PLATE AND ALIGN WITH THE MOUNTING HOLES OF THE HEXAGONAL SPACER-SCREWS. FASTEN THE STOCK SCREWS THAT YOU SET ASIDE IN STEP 1 (SHOWN IN BLUE) TO THE HEXAGONAL SPACER-SCREWS. FINALLY, USE THE TWO (2) INCLUDED SCREWS WITH THE HEX NUT TO COMPLETE THE INSTALLATION (SHOWN IN RED).



DO NOT USE TOO MUCH FORCE BY PRESSING THE BLOCK DOWN TO THE PCB. CHIP DIES ARE PRONE TO CRACKING.

## STEP 6. CONNECTING THE RGB LED

STEP 1: PLUG IN THE CONNECTORS OF THE RGB LED CABLE.

STEP 2: TWO OPTIONS TO INSTALL THE RGB LIGHTING FROM THE G1080 BLOCK:

A. CONNECT TO A COMPATIBLE PHANTEKS CASE (SEE PHANTEKS.COM FOR COMPATIBILITY)

B. CONNECT TO A COMPATIBLE MOTHERBOARD FEATURING A RGB HEADER, USING THE RGB LED ADAPTER (SEE PHANTEKS.COM FOR COMPATIBILITY).

IF YOU HAVE TWO OR MORE GPU BLOCKS, YOU CAN USE THE INCLUDED RGB Y-SPLITTER TO CONNECT YOUR TWO CARDS TO EITHER OF THE OPTION ABOVE.

*\*If available, connect RGB adapter to the RGB LED extension connector of the Phanteks case.*

## STEP 7. 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 FITTINGS WITH THE PHANTEKS GLACIER SERIES WATER BLOCKS.



DO NOT FORGET TO PLUG THE REMAINING TWO OPENING. FOR BEST PERFORMANCE, WE RECOMMEND TO MATCH THE INLET/OUTLET CONFIGURATION OF THE WATERBLOCK.

