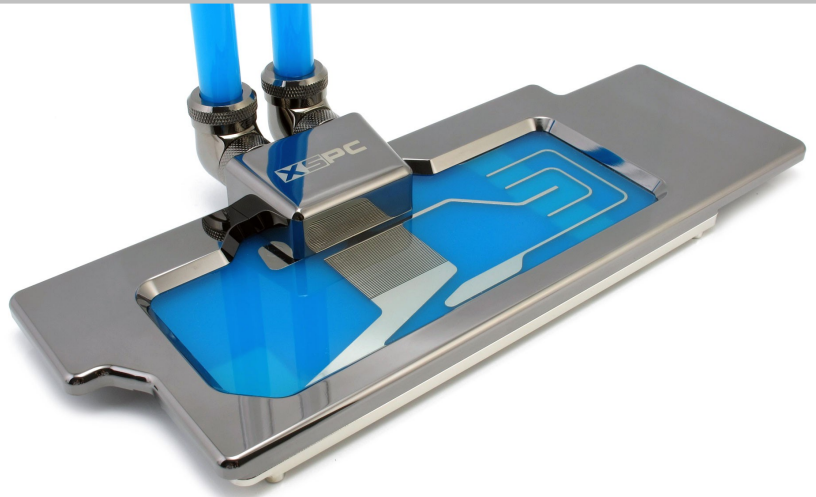


### Technical Details

- Dimensions: 260,6 x 96,4 x 30,9mm
- Ports: G1/4"

### Box Contents

- 1 x Thermal paste
- 2 x 1.5mm thermal pad
- 15 x 1mm thermal pad
- 3 x 0.5m thermal pad
- 13 x M2.5 x 6mm screw
- 13 x Red washer
- 5 x M2.5 nut
- 2 x RGB LED
- 1 x RGB Controller
- 2 x RGB needle connector



G1/4" hose fittings sold separately

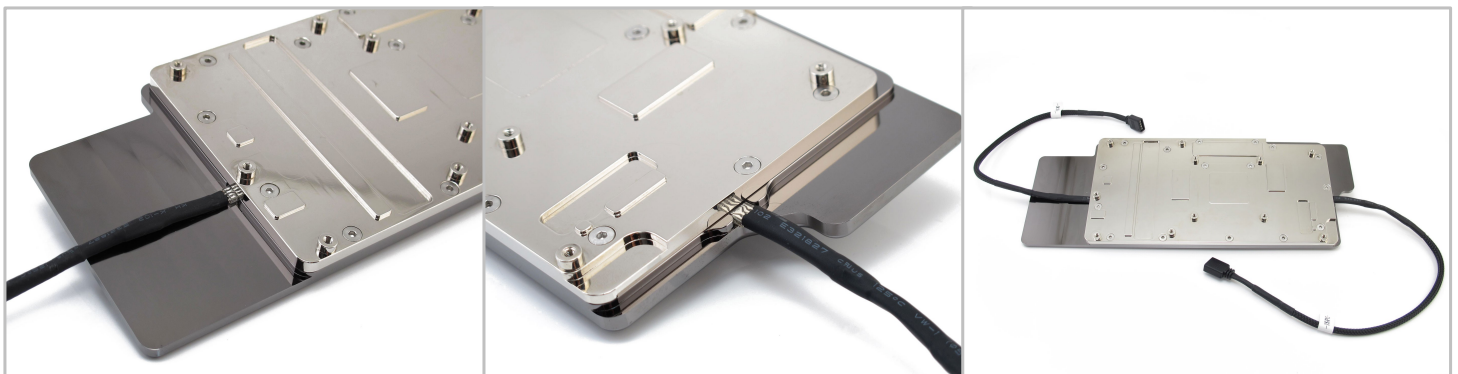
**Note:** This waterblock is only suitable for founders edition and reference design RTX 2080 Ti and 2080 cards. If you are unsure if your card is a reference design card, contact us prior to installation to make sure.



1. Check your box contents against the list above before you start the installation process. Now remove the protective plastic film from the block.



2. The waterblock is designed for use with rotary fittings. Attach your chosen fittings to the inlet and outlet of the block. The water flow can go in either direction.



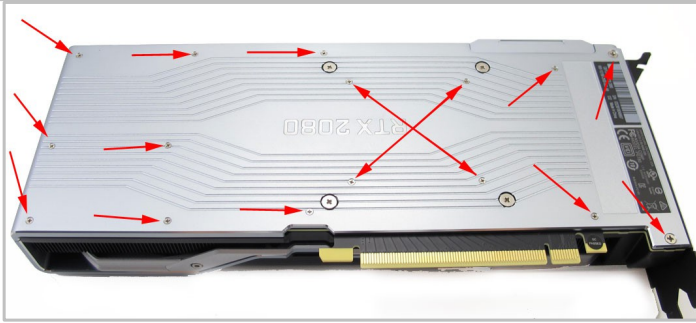
3. The LEDs must be fitted before the block is installed to the card. Simply insert the LEDs into the LED holes on the left and right side of the waterblock. The waterblock is now ready for installation.

In the next steps the waterblock is shown without tubing or other watercooling components connected. This has been done to make it easier to see the installation process.

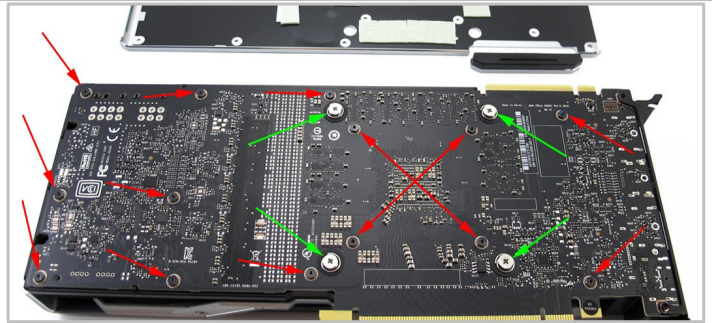
The waterblock can be installed with either the stock Nvidia backplate, an XSPC backplate, or no backplate. See pages 3 and 4 for details.

Before handling the card you should take precautions to avoid static damage.

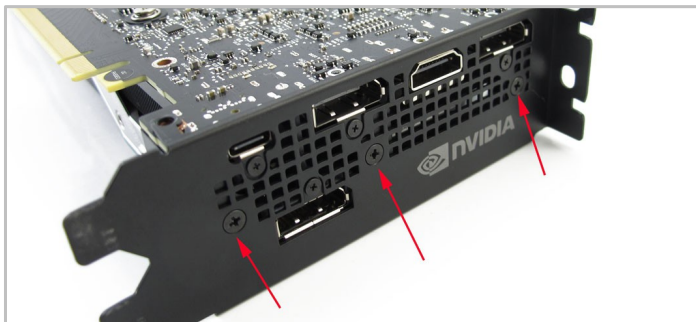
# RAZOR NEO - RTX 2080 Ti / 2080. Steps 4-9



4. Turn the card on its back and remove the 16 backplate screws highlighted above. Now remove the backplate.



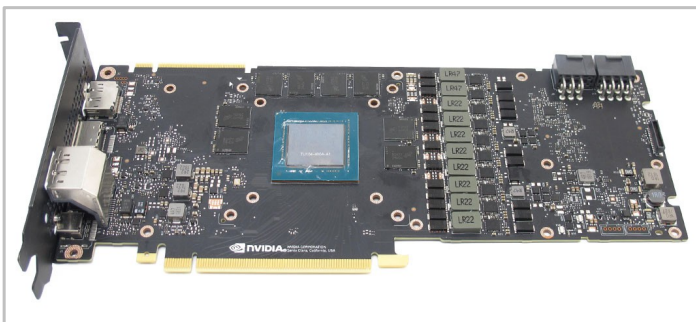
5. With the backplate removed remove the 14 bolts shown in red and the 4 screws shown in green. Keep the bolts to one side, they will be needed in later steps.



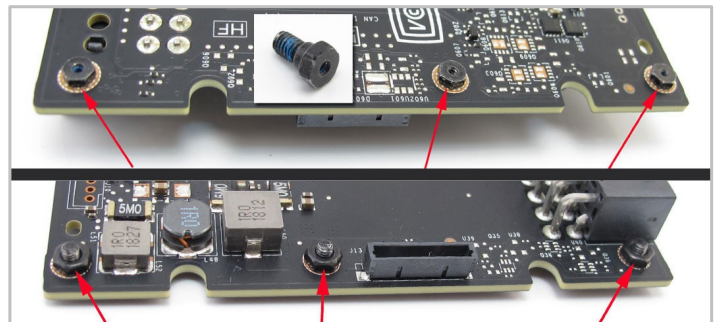
6. Remove the 3 screws highlighted above from the IO plate.



7. Turn the card back over and carefully remove the heat sink and fan.



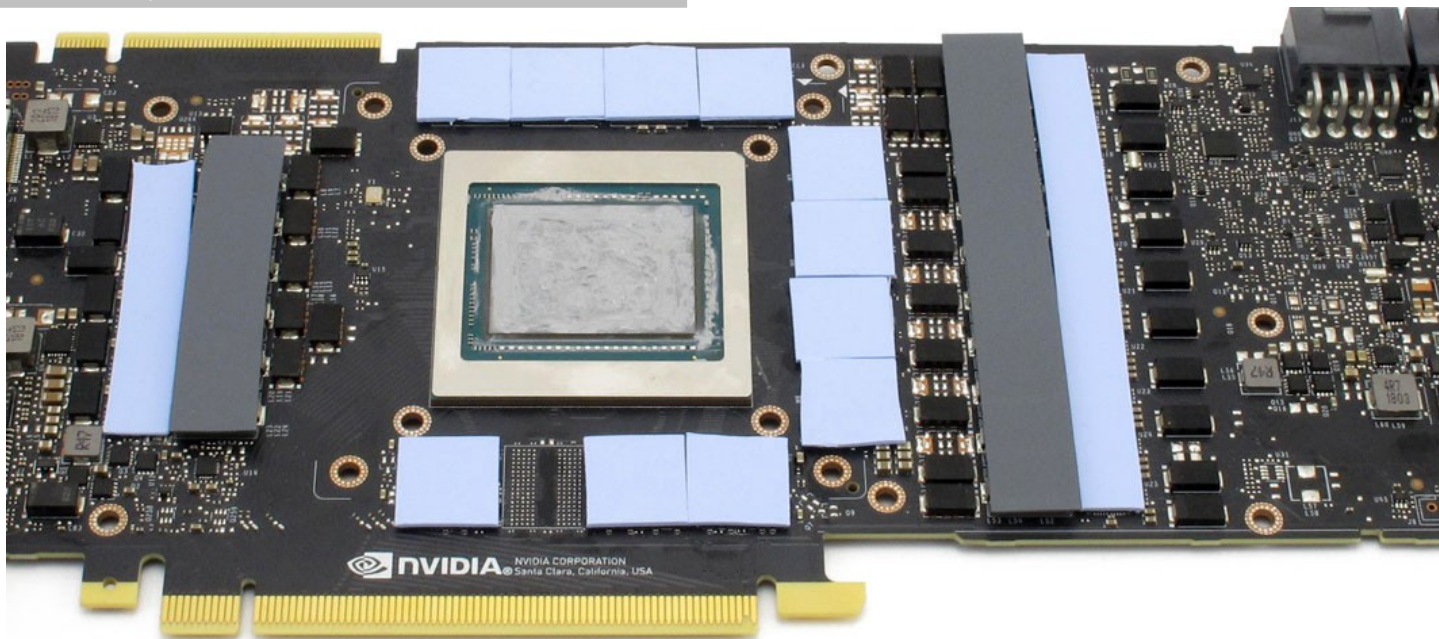
8. Clean the thermal paste from the GPU core and remove any residue left from the thermal pads.



9. Refit 3 of the original bolts to the end of the card using the supplied M2.5 nuts.

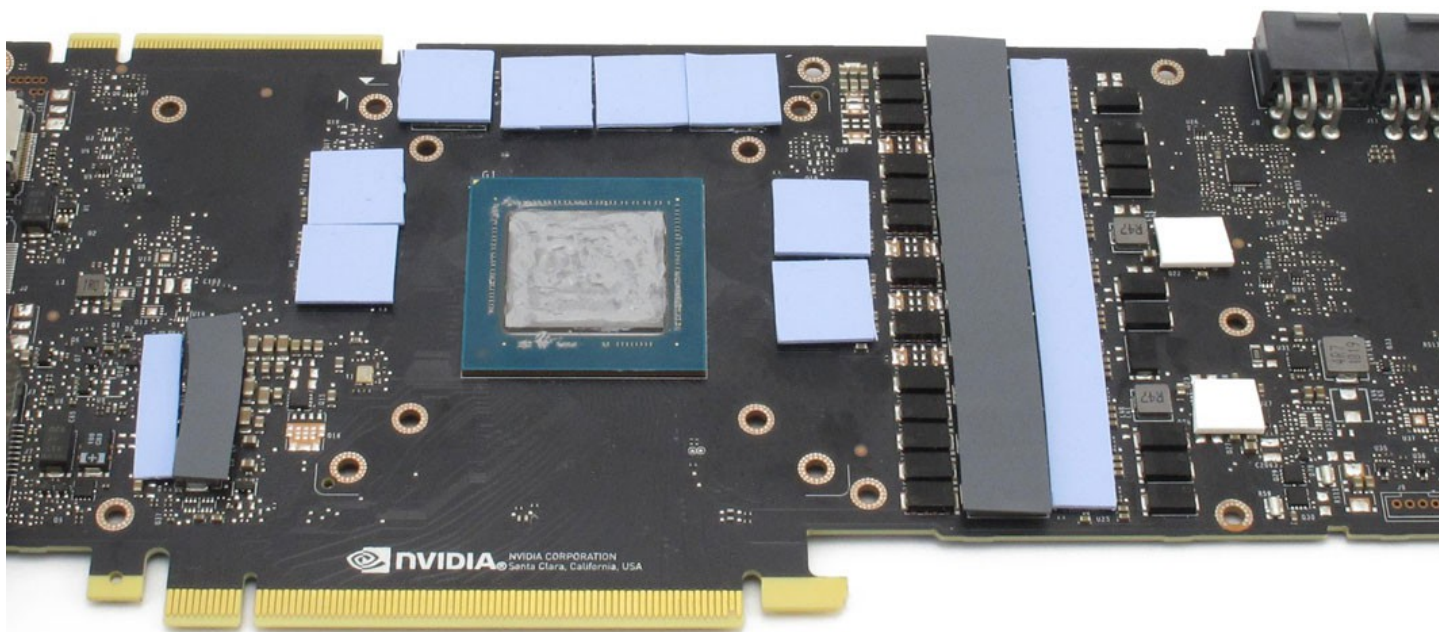
# RAZOR NEO - RTX 2080 Ti / 2080. Step 10

## Step 10 for RTX 2080 Ti



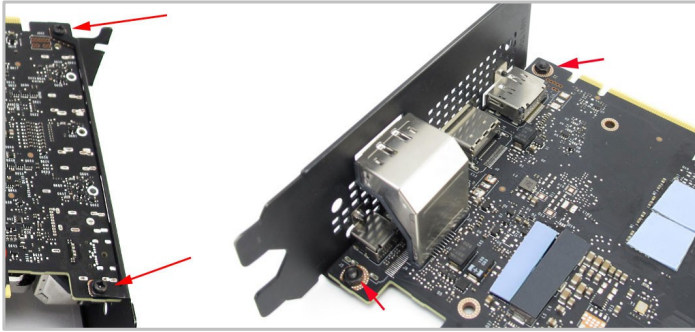
10. Remove the tape from both sides of the thermal pads. Place the blue and grey on the fifteen positions shown above and apply thermal paste to the GPU core. It's important to match the colour and size of the pads to the photo above.

## Step 10 for RTX 2080

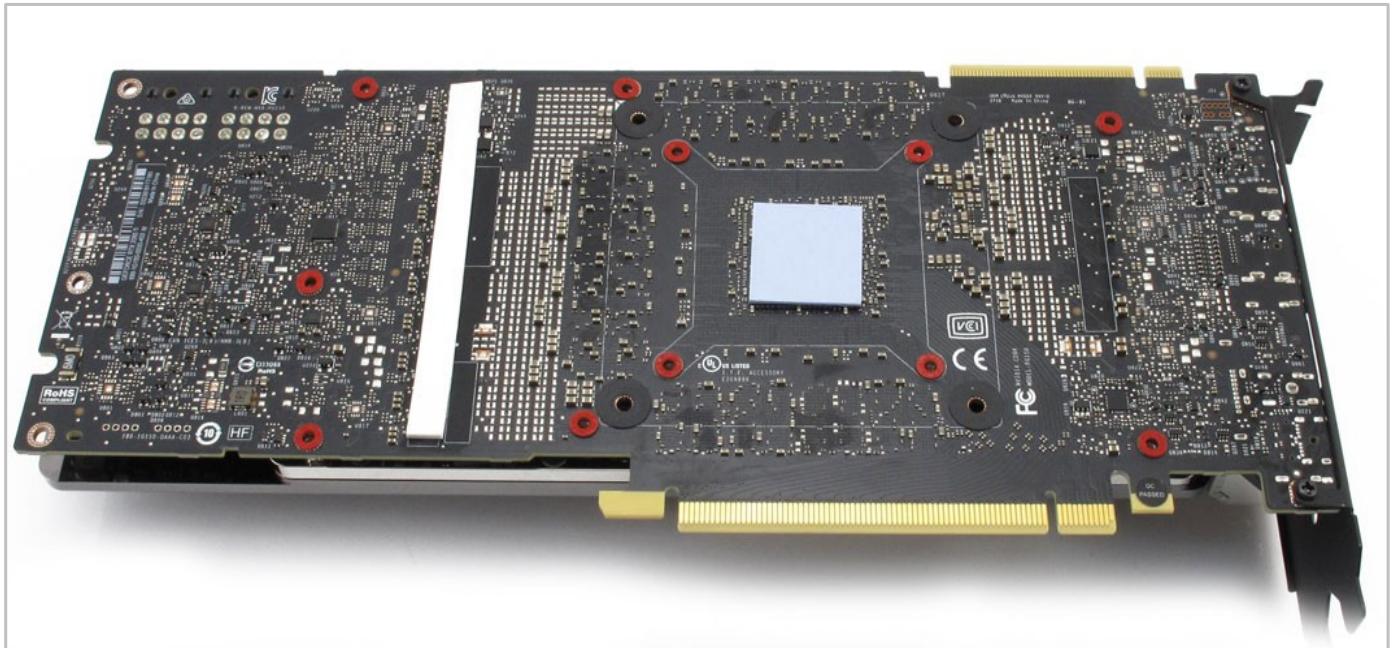


10. Remove the tape from both sides of the thermal pads. Place the blue, grey and white pads on the fourteen positions shown above and apply thermal paste to the GPU core. It's important to match the colour and size of the pads to the photo above.

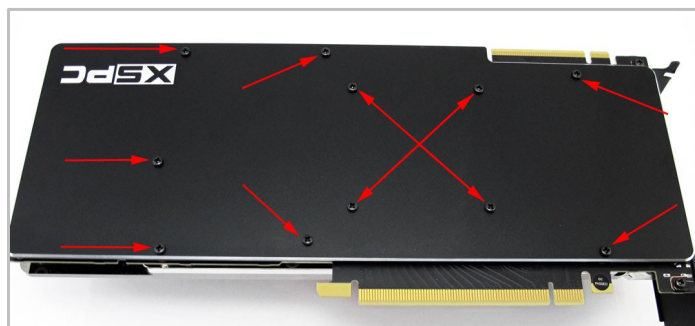
# Installing with XSPC backplate. Steps 11-14



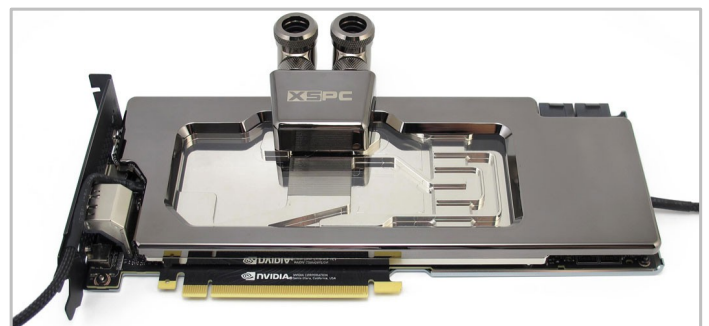
11. Secure the IO plate using two of the supplied M2.5 screws and nuts.



12. Place the waterblock on the card to line up the screw holes and then flip it over (make sure the thermal pads stay in place). Now remove the tape from both sides of the backplate thermal pads. Place the blue and white pads on the two positions shown above. It's important to match the colour and size of the pads to the photo above. Finally add red washers to the 11 screw holes shown above.

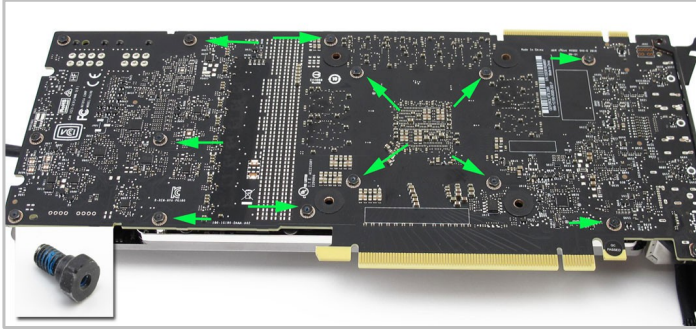


13. Place the backplate on the card and attach it using the supplied screws. Do not over tighten the screws as this may bend the card and cause permanent damage.

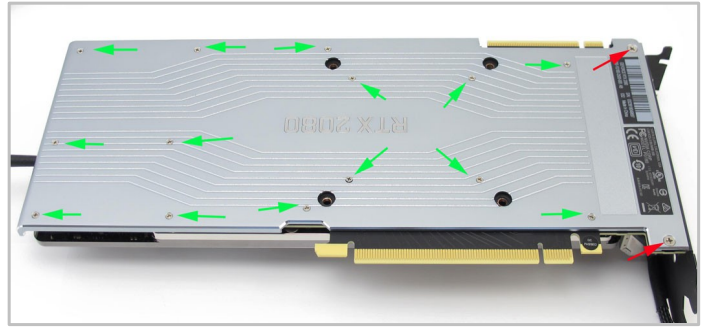


14. The card is now ready for use. When you first boot it is advisable to use software to check the core temperature. If the temperature is high you will need to remount the block.

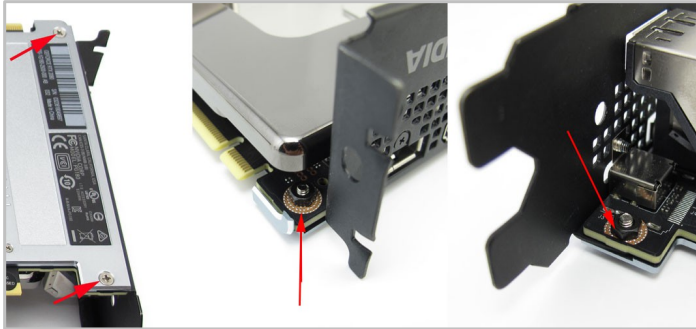
# Installing with stock Nvidia backplate. Steps 11-14



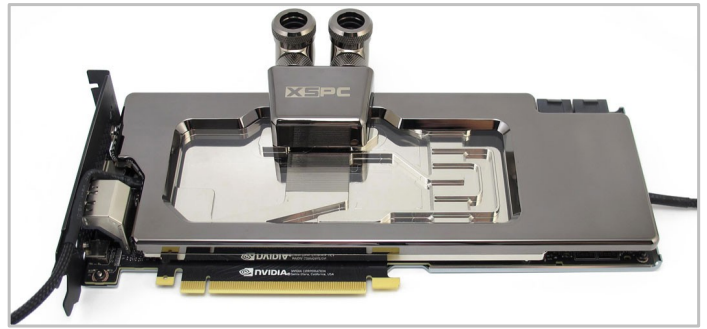
11. Place the waterblock on the card to line up the screw holes and then flip it over (make sure the thermal pads stay in place). Now attach the waterblock to the card using eleven of the original bolts. Do not over tighten the bolts as this may bend the card and cause permanent damage.



12. Check that the original thermal pads are still in place on the backplate. Now place the backplate on the card and attach it using fourteen of the original screws.

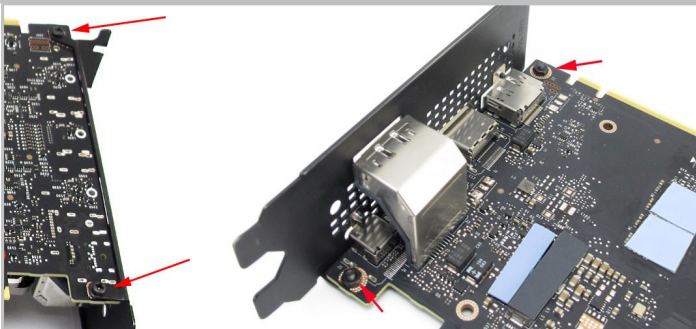


13. Use two of the original screws and two M2.5 nuts to secure the I/O bracket.

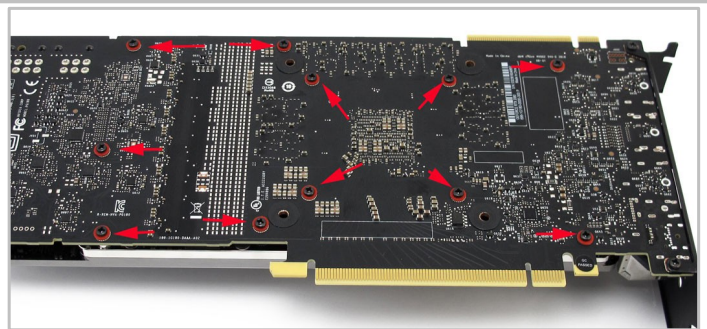


14. The card is now ready for use. When you first boot it is advisable to use software to check the core temperature. If the temperature is high you will need to remount the block.

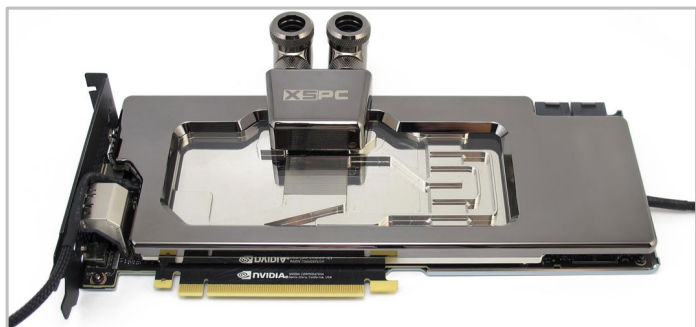
# Installing without a backplate. Steps 11-13



11. Secure the IO plate using two of the supplied M2.5 screws and nuts.



12. Place the waterblock on the card to line up the screw holes and then flip it over (make sure the thermal pads stay in place). Now attach the waterblock to the card using eleven of the supplied M2.5 screws and washers. Do not over tighten the screws as this may bend the card and cause permanent damage.



14. The card is now ready for use. When you first boot it is advisable to use software to check the core temperature. If the temperature is high you will need to remount the block.