

PRAETOR



Assembly Manual

Revision 1.1

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Introduction

Praetor is a large workstation case which fits up to 2x 560mm and a 280mm radiator, dual ATX PSUs and dual systems. Motherboard support is ATX and E-ATX including BTF, and also SSI depending which motherboard tray is selected. The second motherboard is ITX mounted on the mid plate and there are four different mounting locations. The case has 7x expansion slots, support for 2x Vertical GPU mounts and fits up to 5x 3.5" HDDs. It has distribution plate addons which include a vertical distribution plate for dual loops which has 2x D5 Reservoir Combos and a horizontal and top distribution plate which clean up the loop route. The case is built from CNC machined anodized black aluminium and satin black acrylic. The distribution plate addons are built from CNC machined and laser cut cast acrylic.

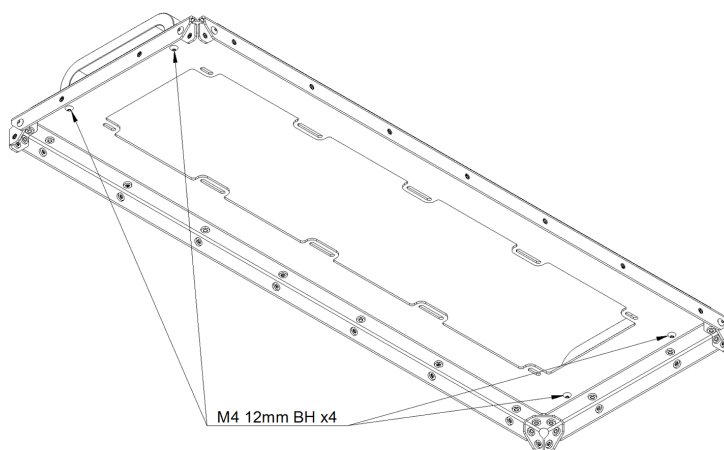
Specifications

Motherboard Form Factor	ATX, E-ATX or SSI. ATX/E-ATX motherboard tray has BTF support or fits a 140mm fan to cool the rear of the CPU socket, both cannot be used simultaneously. SSI motherboard tray fits 2x 140mm fans to cover the rear of the CPU socket/s and motherboard. Dual Systems ITX. Second motherboard ITX removes the ability to install a vertical GPU and requires a second PSU which reduces 1x 560mm size to 420mm with a PSU 160mm or shorter and to 280mm with a PSU longer than 160mm. The ITX motherboard can be installed in 4 different locations across the mid plate. Only the left two locations are compatible with the Vertical Distribution Plate. Dual Systems is compatible with the Horizontal Distribution Plate but it reduces the mounting locations for the ITX motherboard to x1 and removes all 3.5" drive mounting locations.
Expansion Slots	x7.
Vertical GPU Mount	Optional x1 or x2 Vertical GPU Mounts with PCIe 5.0 Risers.
Case Form Factor	Full Tower Workstation Case.
Package Dimensions	-mm(L) x - mm(W) x - mm(H)
Package Weight	- kg.
Case Dimensions	715mm(L) x 265mm(W) x 755mm(H – w/ handles).
Case Weight	- kg.
Radiators	2x 560mm and 280mm with 60mm maximum thickness for radiators and 40mm for fans. 1x 560mm, 1x 420mm and 1x 280mm if the PSU is 160mm or shorter. 1x 560mm and 2x 280mm if the PSU is longer than 160mm.
Storage	Up to 5x 3.5" HDD / 2.5" SSD. Installing a dual system ITX motherboard reduces this to x3. The Horizontal Distribution Plate removes all HDD/SSD mounting locations.
PSU	Dual ATX PSUs
Front Panel I/O	No Front I/O. Power and Reset Buttons.
Materials	5052 Aluminum Powder Coated Black. Cast Acrylic. Stainless Steel.
Manufacturing Process	CNC Mill, CNC Lathe, CNC Router, Laser.

Assembly Manual

Step 1 - Handles

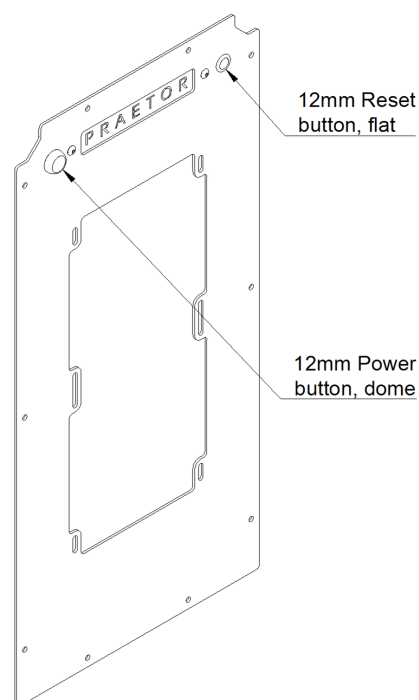
Secure the handles to the top panel using M4 12mm BH x4.



Step 2 – Front Panel

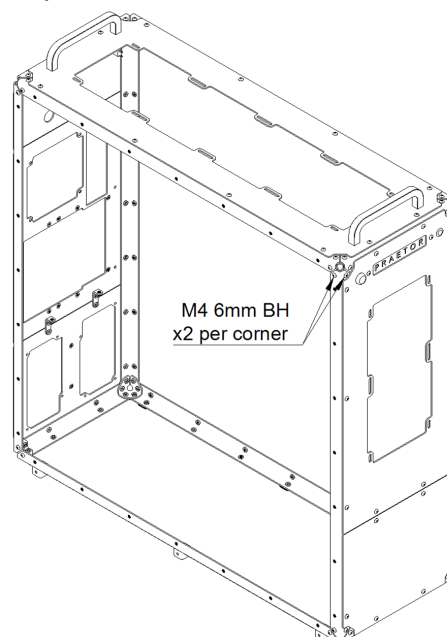
• Step 2A

Secure the Power & Reset buttons to the front panel.



• Step 2B

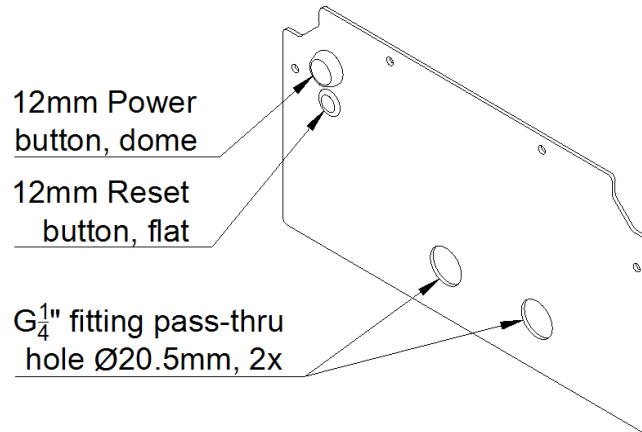
Attach the front panel to the top and bottom panel assemblies using M4 6mm BH x2 for every corner.



Step 3 – Rear Panel

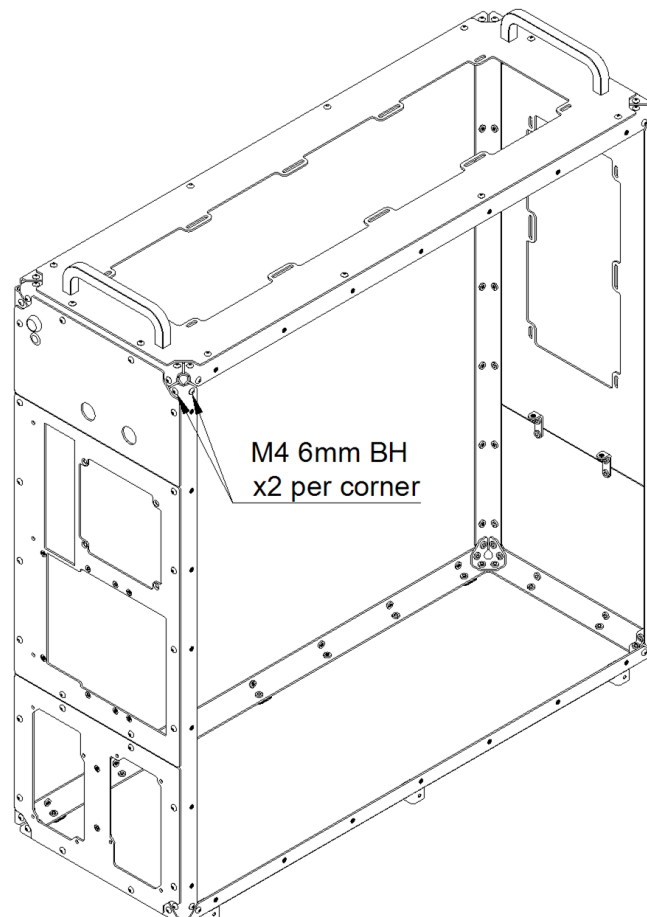
- Step 3A

Secure the Power and Reset buttons to the rear panel if a 2nd system is used.



- Step 3B

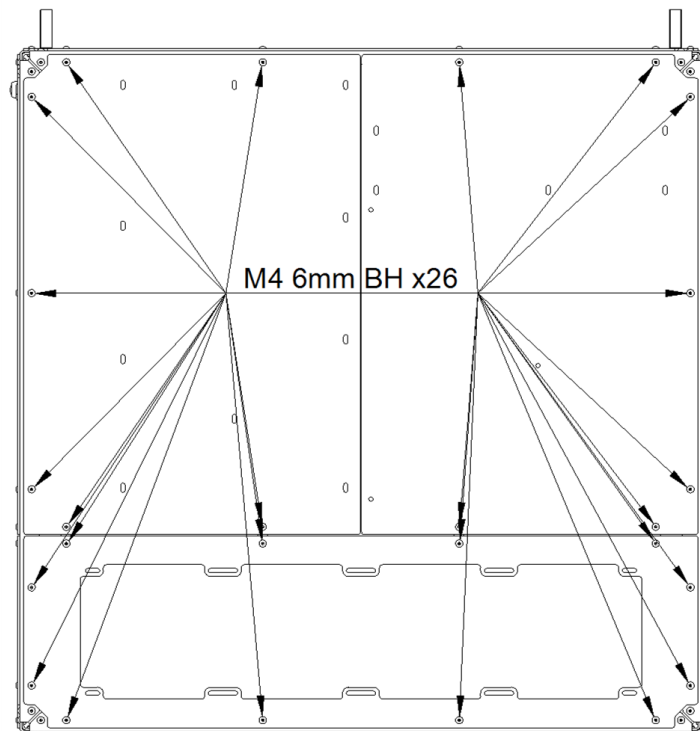
Attach the rear panel to the top and bottom panel assemblies using M4 6mm BH x2 for every corner.



Step 4 – Right-Side Panels

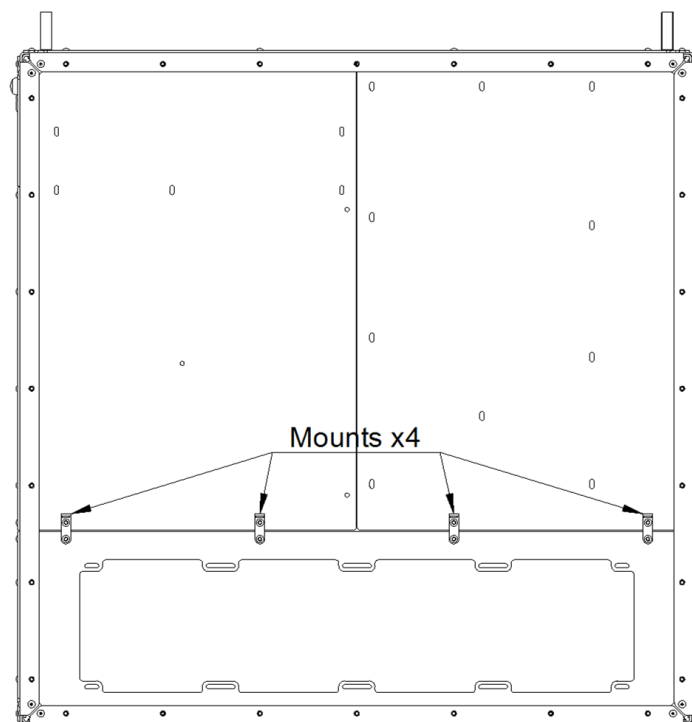
• Step 4A

Attach the right-side panels to the case assembly using M4 6mm BH x26.



• Step 4B

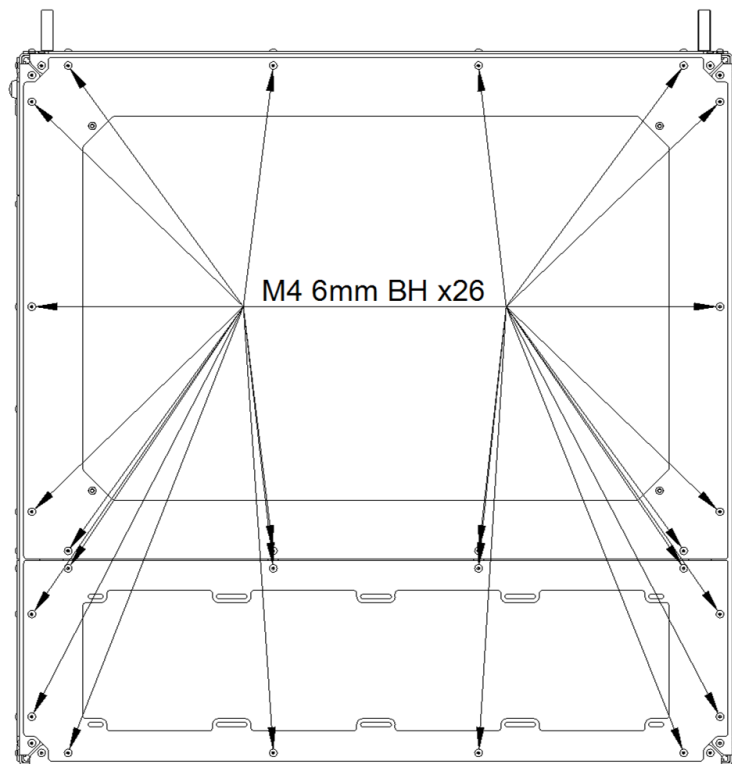
Secure 4x mounts to the right-side panels from the inside.



Step 5 – Left-side Panel

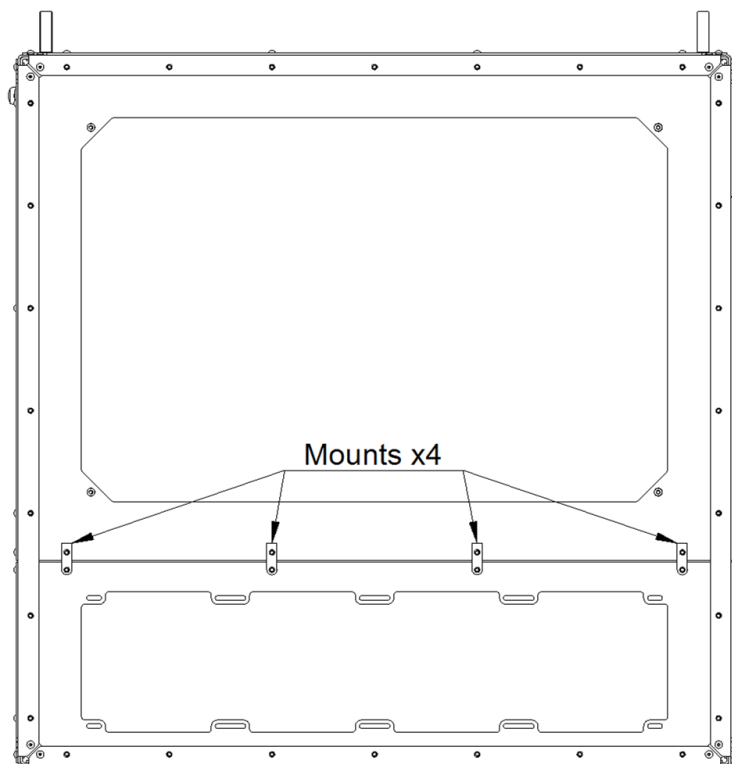
• Step 5A

Attach the left-side panels to the case assembly using M4 6mm BH x26.



• Step 5B

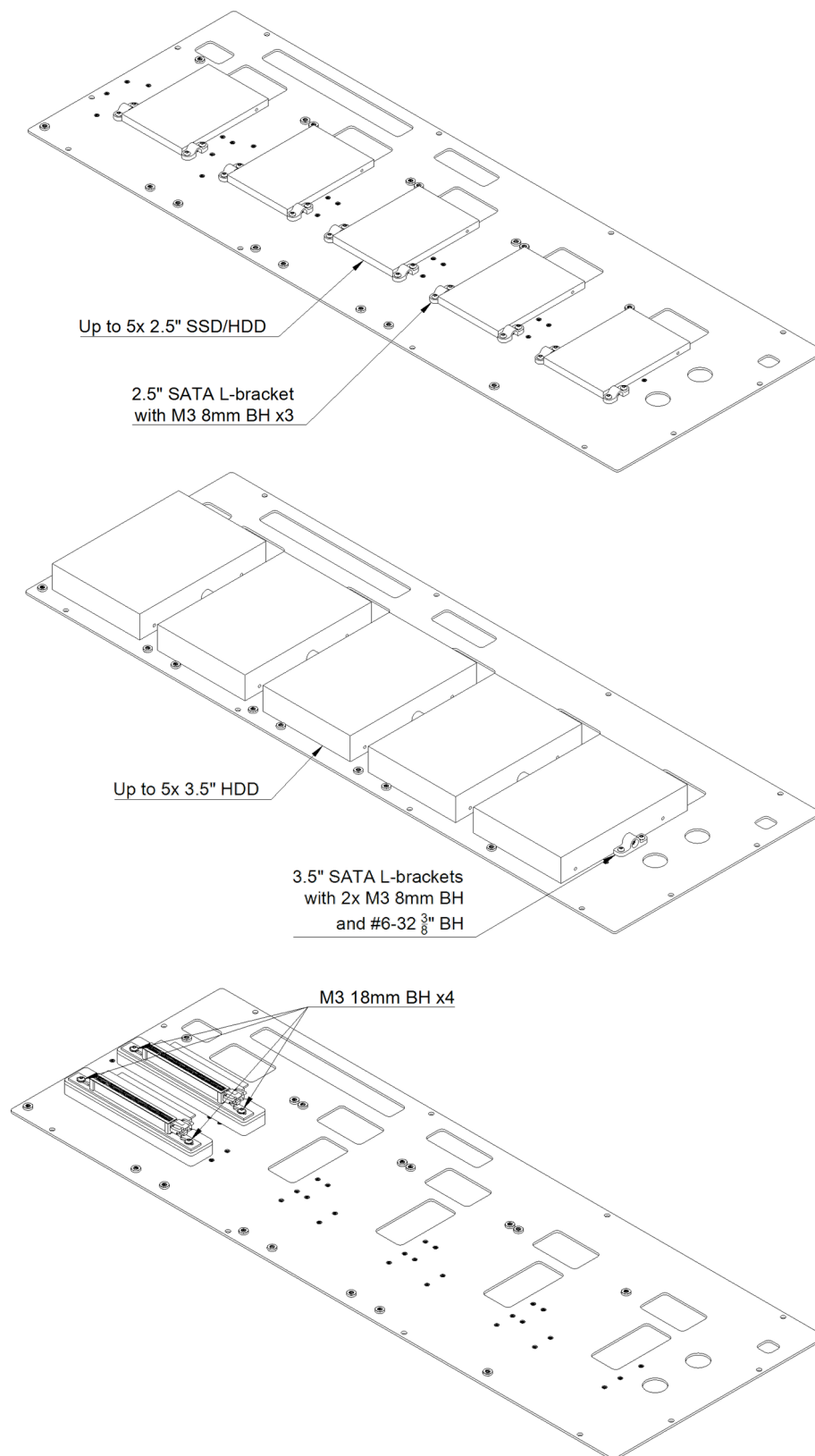
Secure 4x mounts to the left-side panels from the inside.



Step 6 – Metal Mid-plate

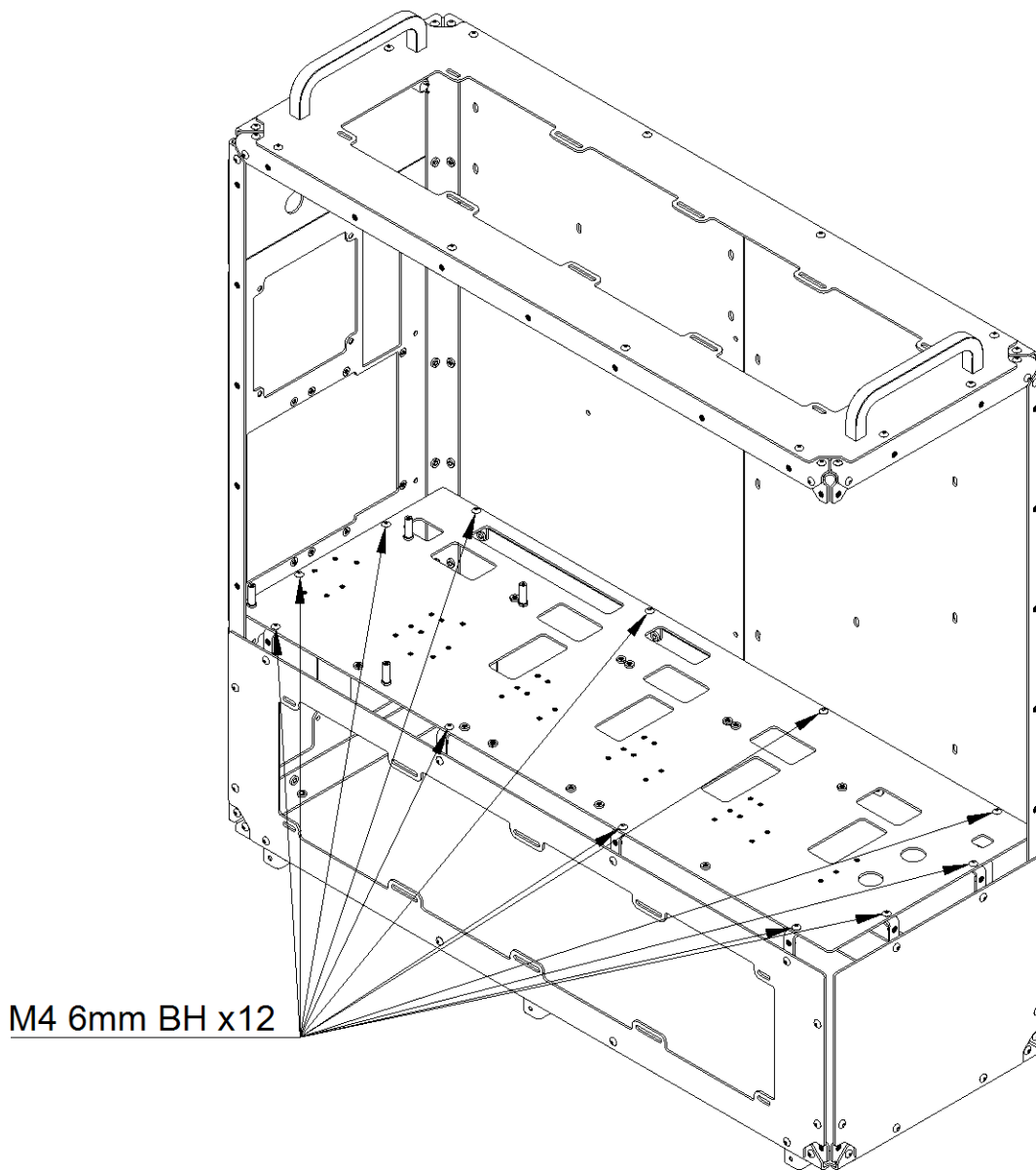
- Step 6A

Install HDDs, SSDs, vertical GPU mounts, an ITX motherboard or a mix of these to the metal midplate.



- Step 6B

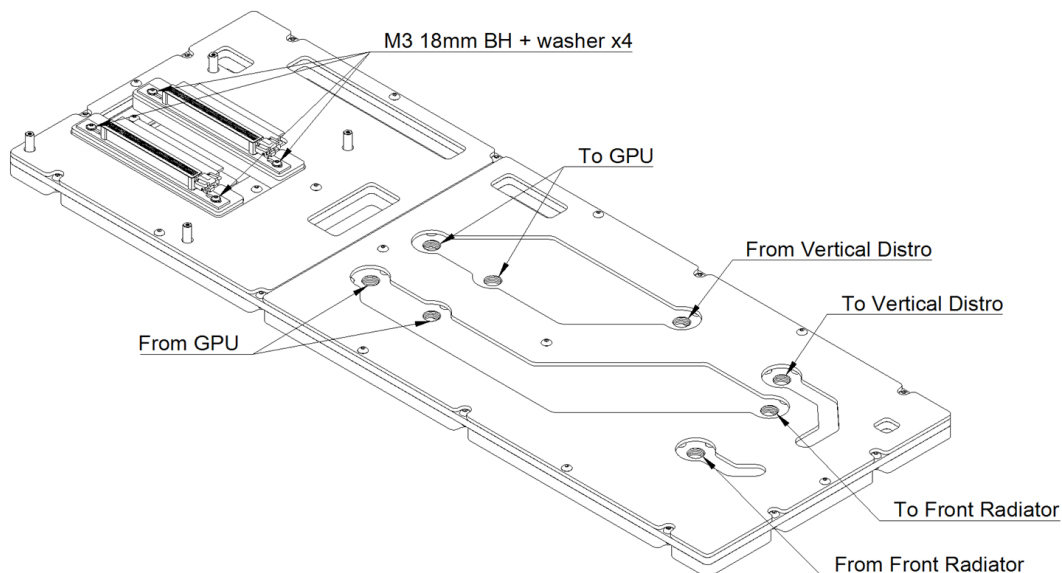
Install the metal mid-plate to the case assembly using M4 6mm BH x12.



Step 7 – Horizontal Distribution Plate

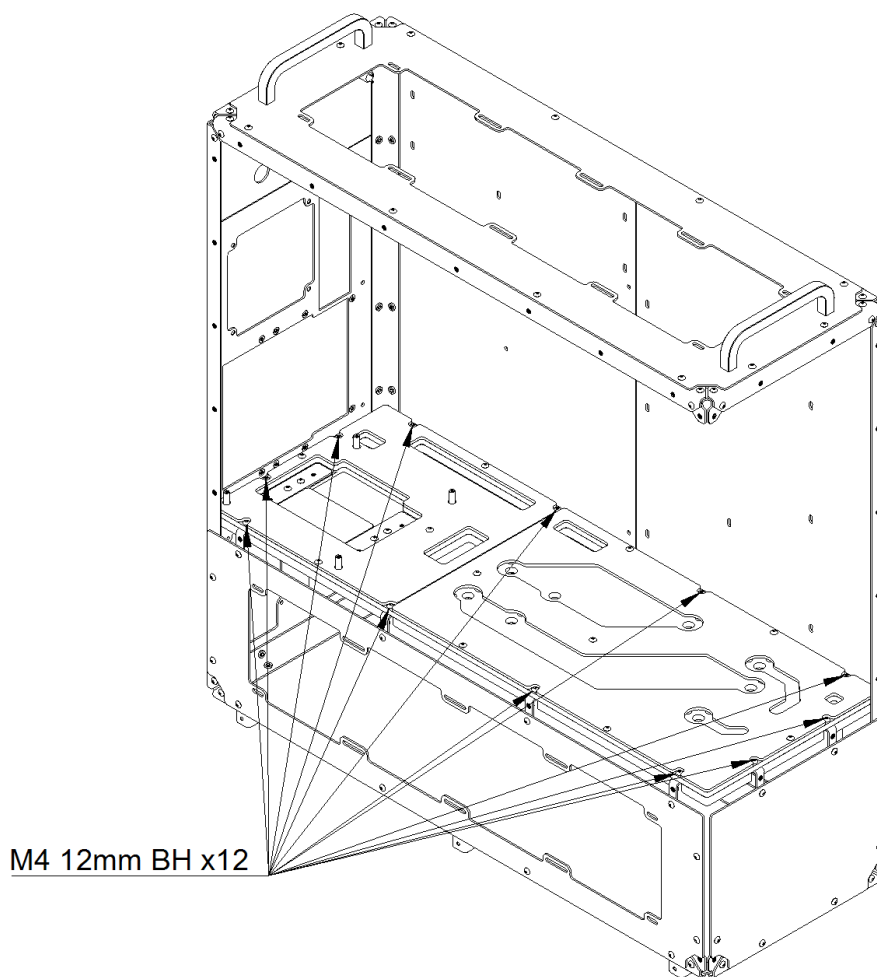
• Step 7A

Install VGPU mounts to the horizontal distribution plate if they are used with M3 18mm BH + washer x4.



• Step 7B

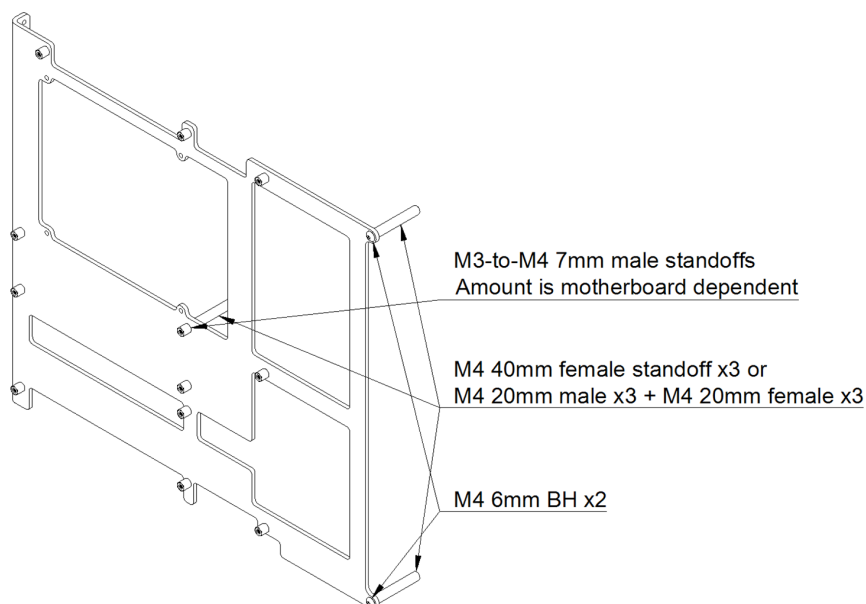
Install the horizontal distribution plate to the case assembly using M4 12mm BH x12.



Step 8 – ATX & SSI Motherboard Tray

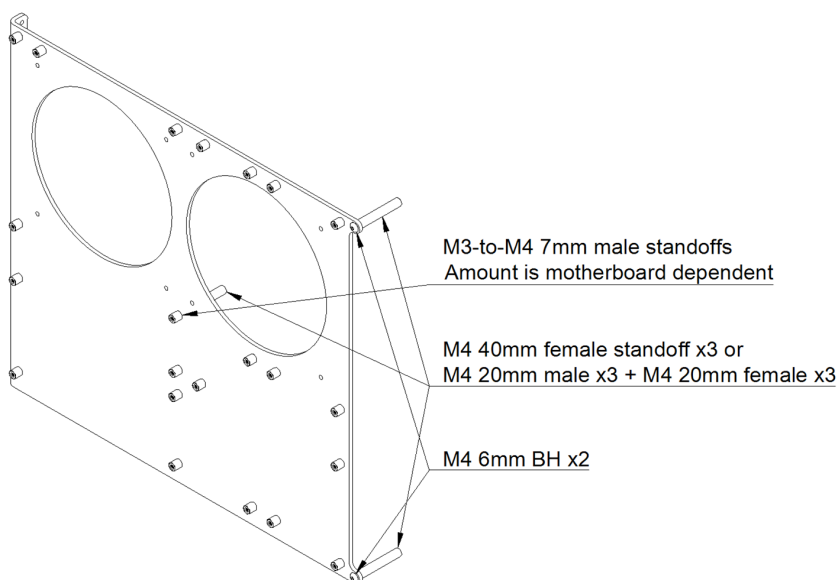
• Step 8A

Install as many M3-to-M4 7mm male standoffs as Your motherboard needs and in the appropriate locations to the ATX motherboard tray. Install M4 40mm standoffs x3 to the marked locations and secure the middle one to the M3-to-M4 7mm male standoff, and secure the right-side ones with M4 6mm BH x2.



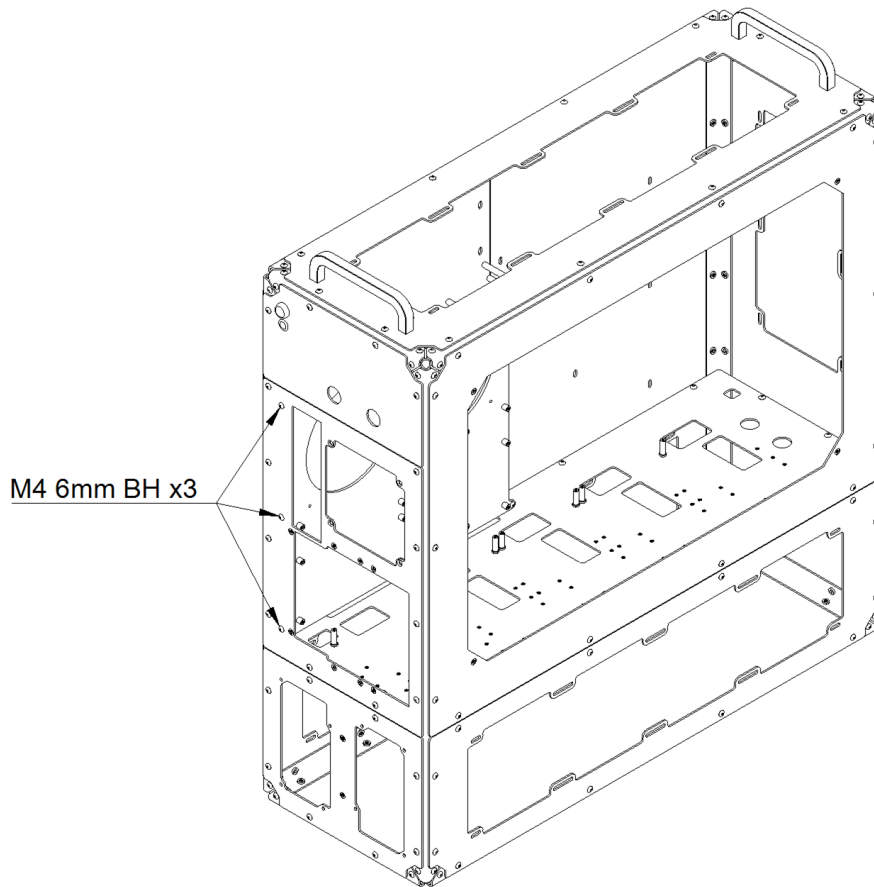
• Step 8B

Install as many M3-to-M4 7mm male standoffs as Your motherboard needs and in the appropriate locations to the SSI motherboard tray. Install M4 40mm standoffs x3 to the marked locations and secure the middle one to the M3-to-M4 7mm male standoff, and secure the right-side ones with M4 6mm BH x2.



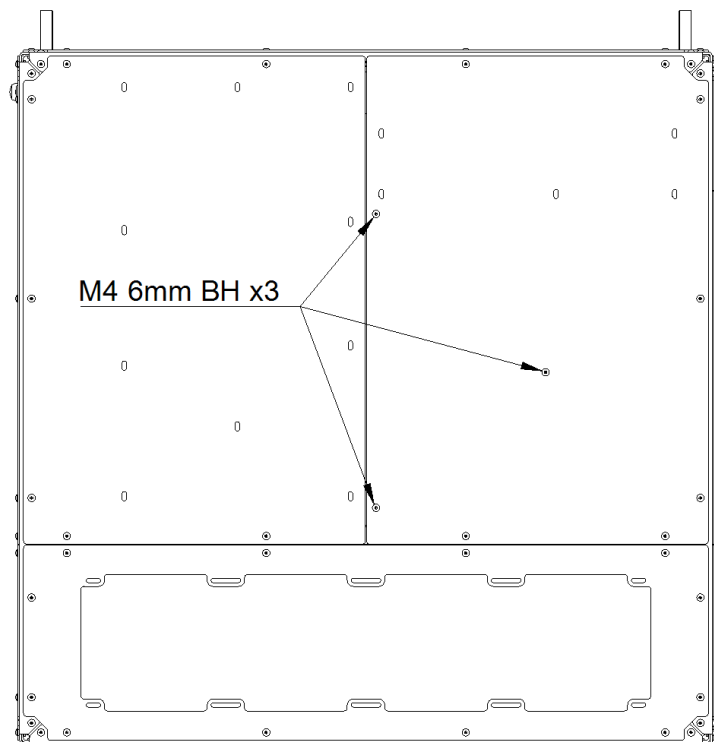
- Step 8C

Install the motherboard tray to the rear panel using M4 6mm BH x3.



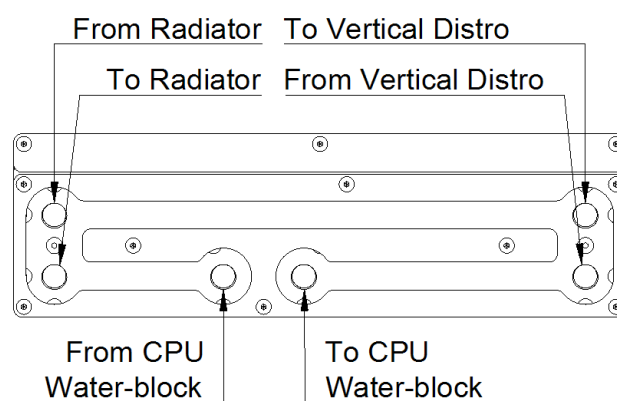
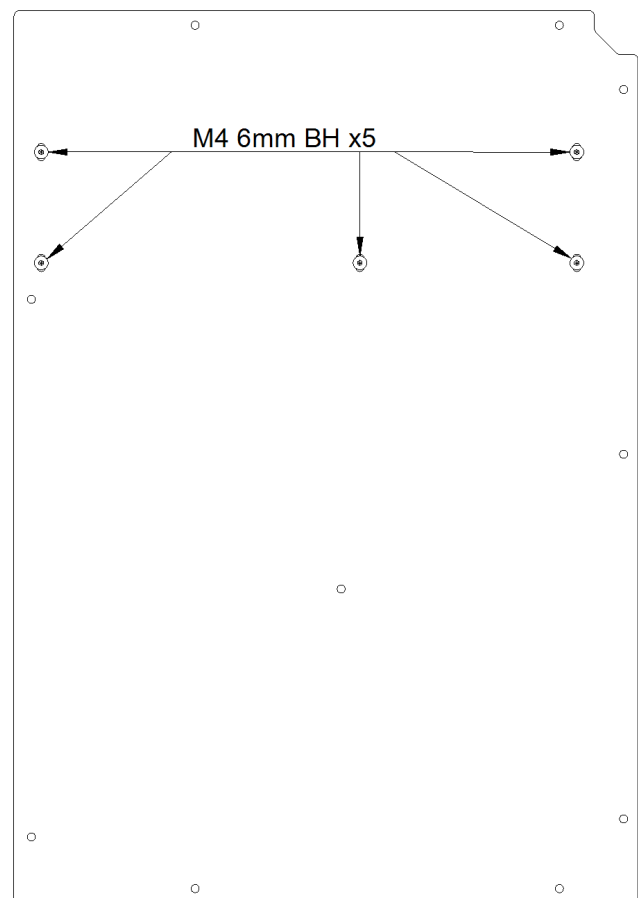
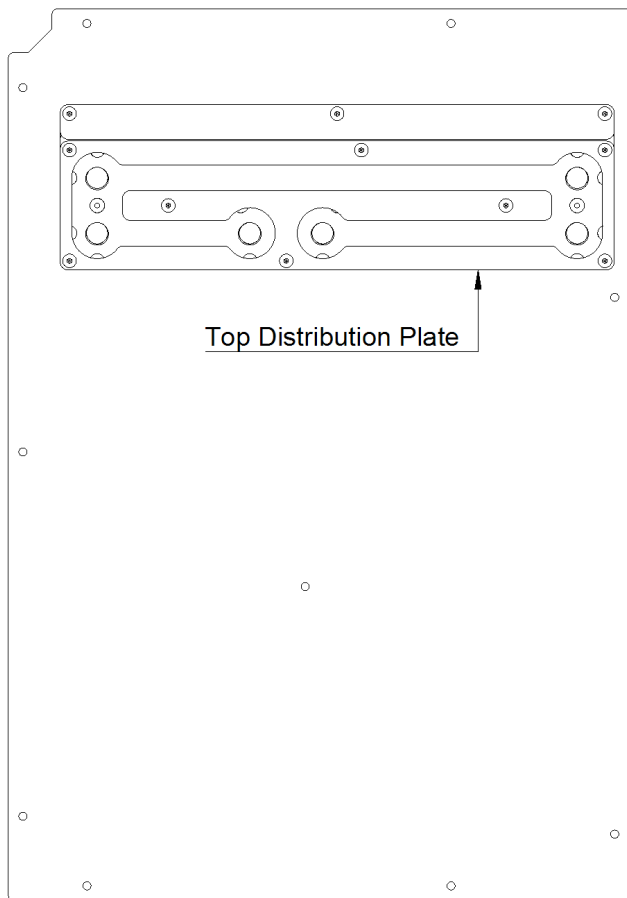
- Step 8D

Secure the motherboard tray to the right-side panel using M4 6mm BH x3.



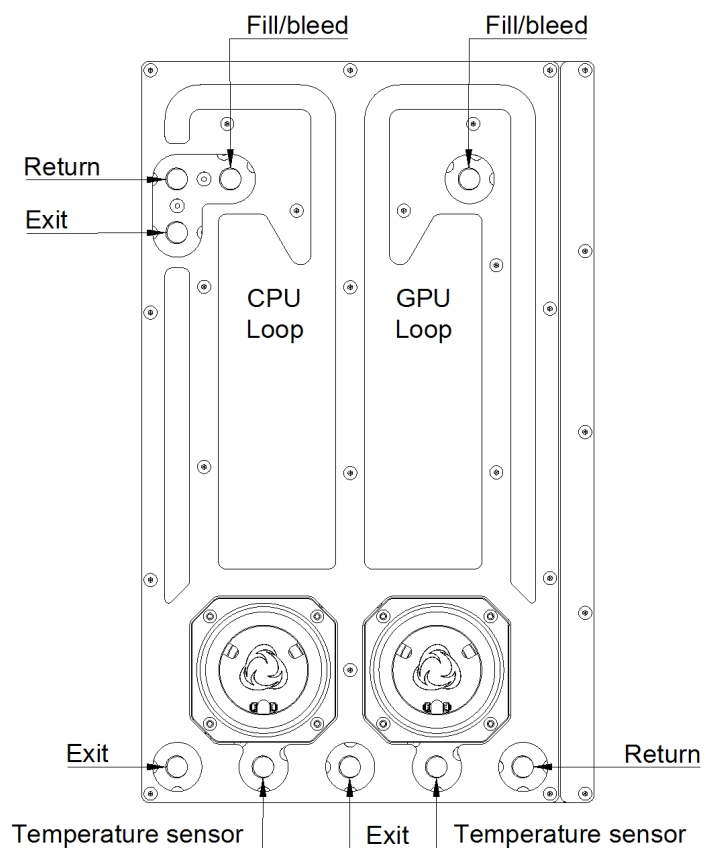
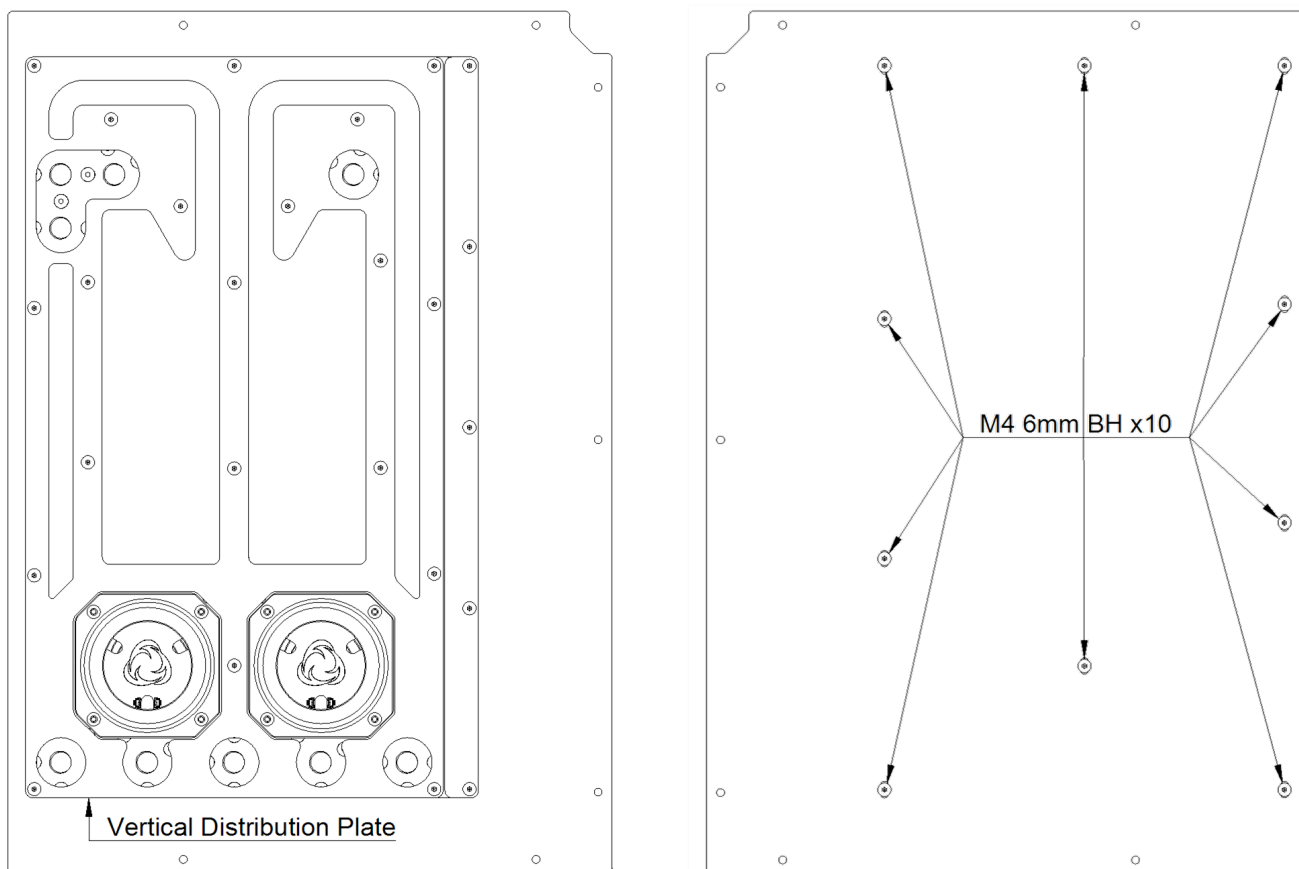
Step 9 – Top Distribution Plate

Install the optional Top Distribution plate to the right-side panel using M4 6mm BH x5.



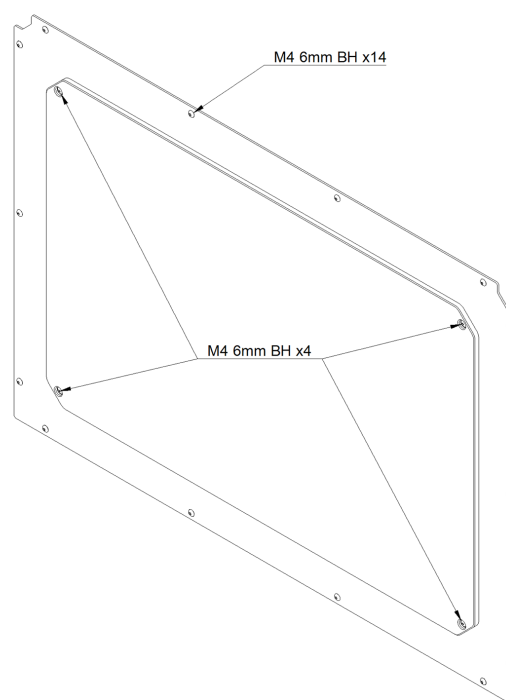
Step 10 – Vertical Distribution Plate

Install the optional Vertical Distribution Plate to the right-side panel using M4 6mm BH x10.



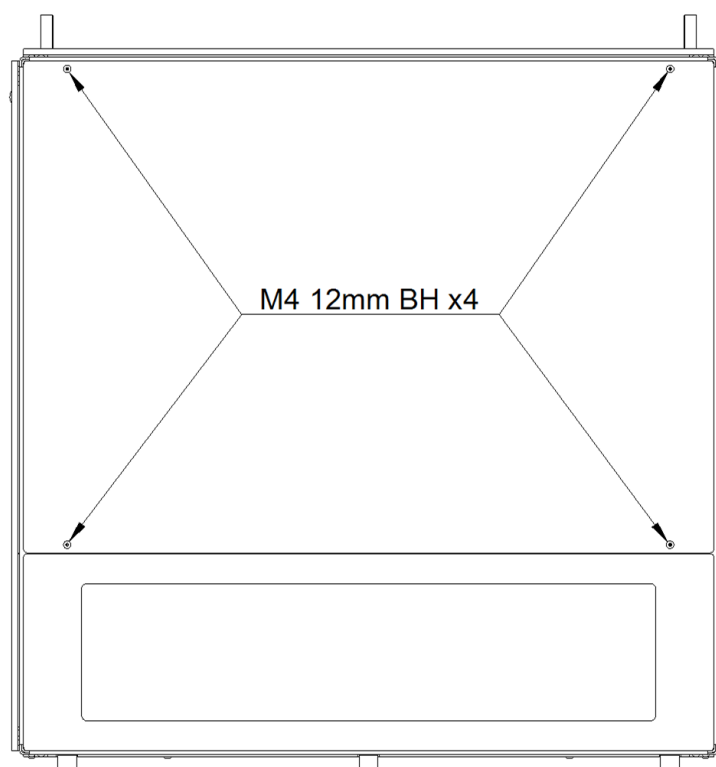
Step 11 – Left-side Window

Install the acrylic window to the left-side panel using M4 6mm BH x4.



Step 12 – Dust Covers

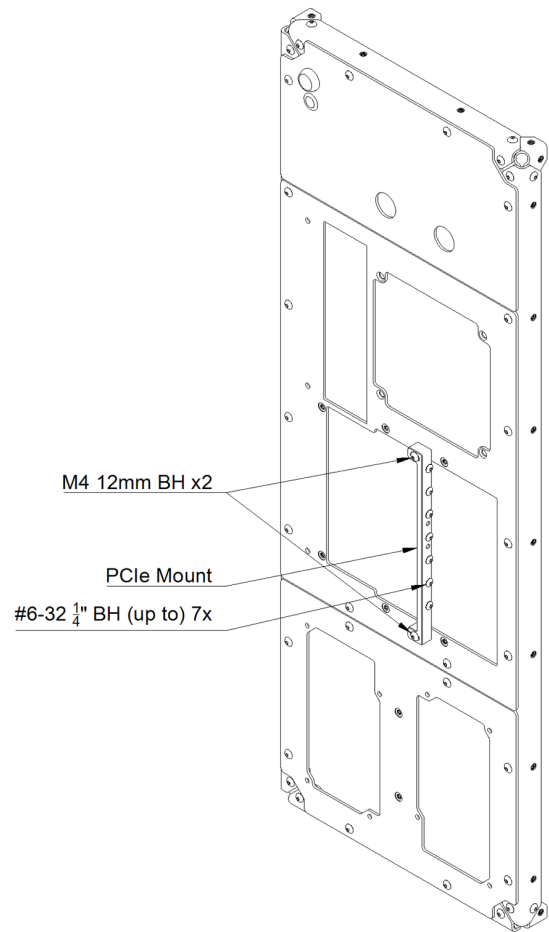
Install the dust covers to the metal panels. All dust covers attach magnetically except the large right-side one, which is secured with M4 12mm BH x4. Remove the M4 6mm BH present in these 4 locations first before replacing them with the new fasteners.



Step 13 – GPU Mounting Options

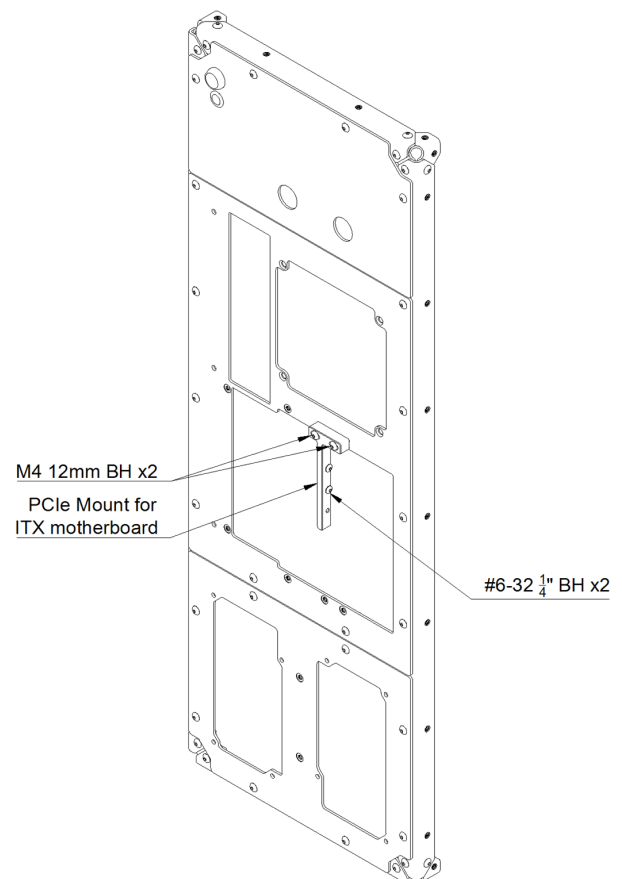
- Step 13A

If PCIe devices are installed horizontally, then install the PCIe mount in the below position using M4 12mm BH x2 and secure the PCIe devices with #6-32 $\frac{1}{4}$ " BH fasteners.



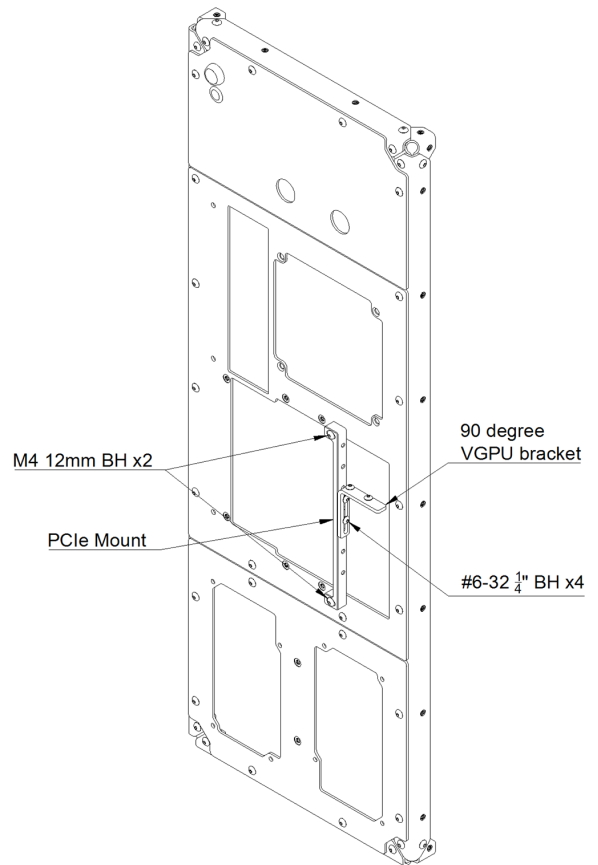
- Step 13B

If PCIe devices are installed horizontally but there is also an ITX motherboard on the metal horizontal plate, then install the PCIe mount for ITX motherboard in the below position using M4 12mm BH x2 and secure the PCIe devices with #6-32 $\frac{1}{4}$ " BH fasteners.



- Step 13C

If a single PCIe device is installed vertically, then install the PCIe mount in the below position using M4 12mm BH x2 and attach the 90° VGPU bracket to it using #6-32 ¼" BH x2 then secure the PCIe device with #6-32 ¼" BH fasteners.



- Step 13D

If dual PCIe devices are installed vertically, then install 2x PCIe mounts in the below position using M4 12mm BH x4 and attach 2x 90° VGPU brackets to them using #6-32 ¼" BH x4 then secure the PCIe devices with #6-32 ¼" BH fasteners.

