

VF-1 User Manual

Specifications

Volume

14.1L

Size (L x W x H)

338mm x 246mm x 170mm

Size including feet (L x W x H)

338mm x 261mm x 170mm

Motherboard

Mini-ITX, Mini-DTX

Power supply

SFX

Drives

1 x 2.5" SSD

I/O

1 x USB-C Type-C 3.1 Gen 2, 12mm LED Vandal resistant switch

Fans

2 x 120mm Slim fan (up to 15mm)

Additional fans attachment to radiator possible (up to 4 additional)

CPU cooler

Max height: 130mm when side radiator not used

GPU

3-slot GeForce RTX™ 3090 Founders Edition (note only 2-slot opening)

Max length: 318mm

Max height: 149mm

Radiator (Top)

Max thickness (including fan): 36mm when single slot GPU water block used

Max length: 320mm

Max width: 144mm

240mm or 280mm type supported

Radiator (Side)

Max thickness (including fan): 75mm

Max length: 320mm

Max width: 144mm

240mm or 280mm type supported

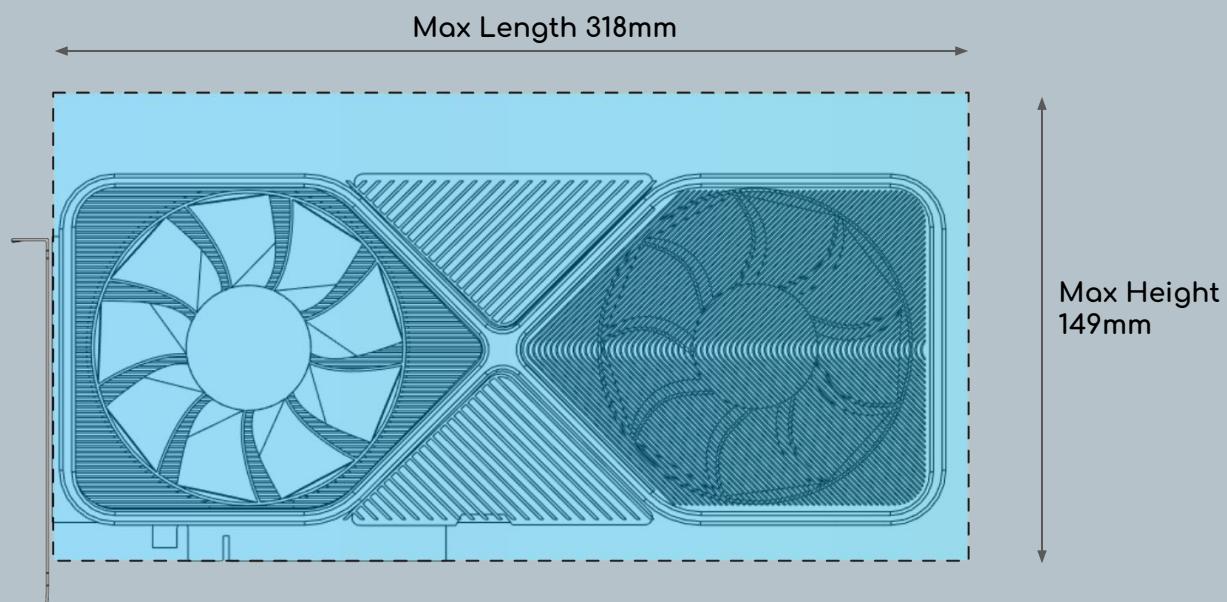
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Compatibility

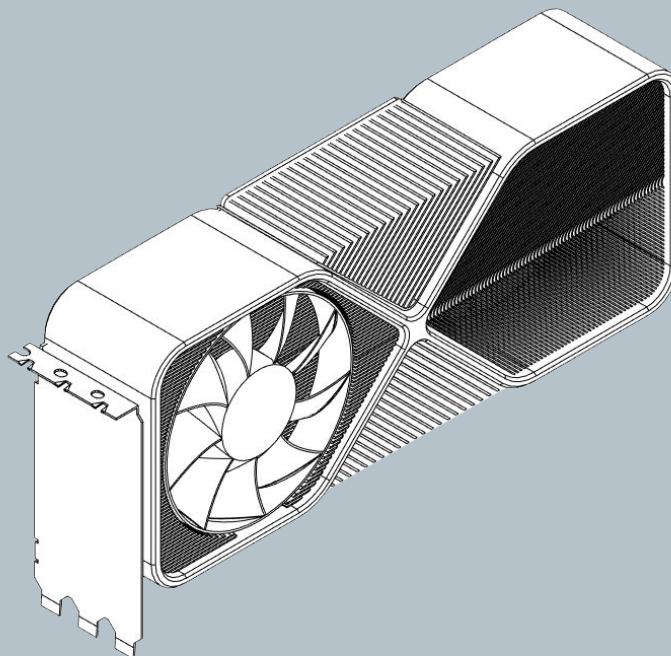
GPU

Graphics card specifications vary by add-in-card manufacturer. Please refer to the following guidelines when picking your GPU.

Max supported GPU dimension, 318mm x 149mm. Note that if you are installing a water block, they often have protruding fitting mounts that adds to the height/length.



Up to 3-slot GPU is supported. Please note that the rear IO Panel only has 2 slot openings. This is not a problem for 3-slot cards like the GeForce RTX™ 3090 Founders Edition as the 3rd slot has no ports.



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Compatibility

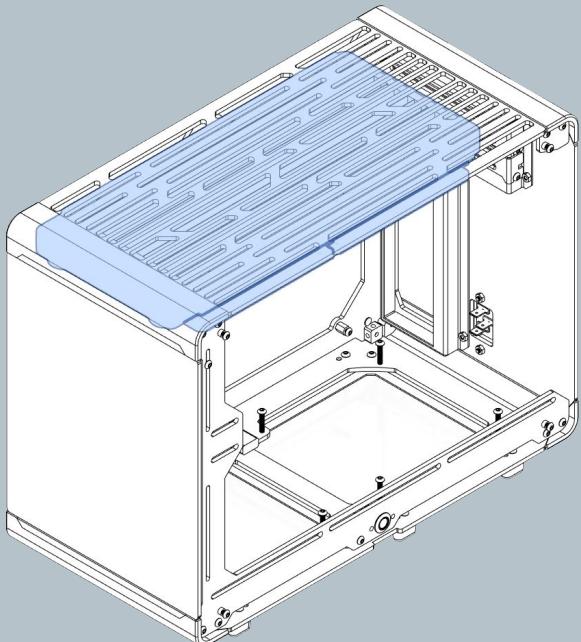
CPU

Max height 130mm when side radiator not used.

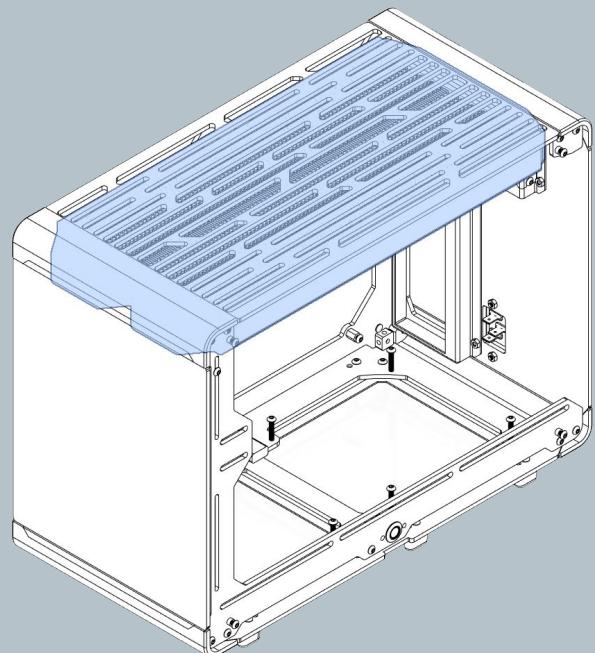
Radiator

There are 2 positions for mounting radiators, **side** and **top**.

Radiator Top Mount - Max 36mm thickness (including fans) when single-slot water block is used for GPU. Top mount allows for 240 or 280 radiator, slim active or normal passive cooling.



Top Mounted Active Slim
240mm Radiator With Slim Fans

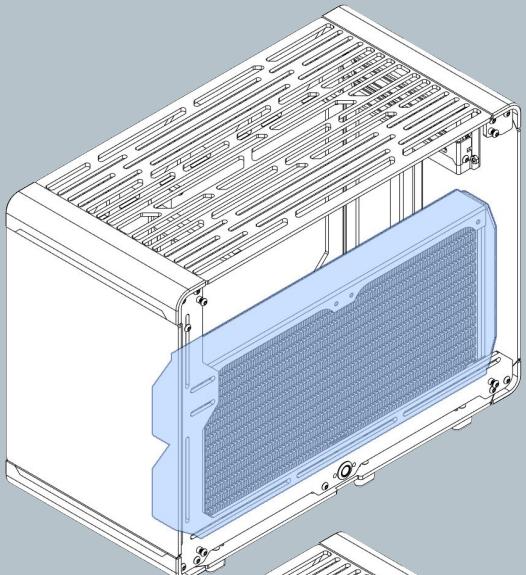


Top Mounted Passive Standard
280mm Radiator

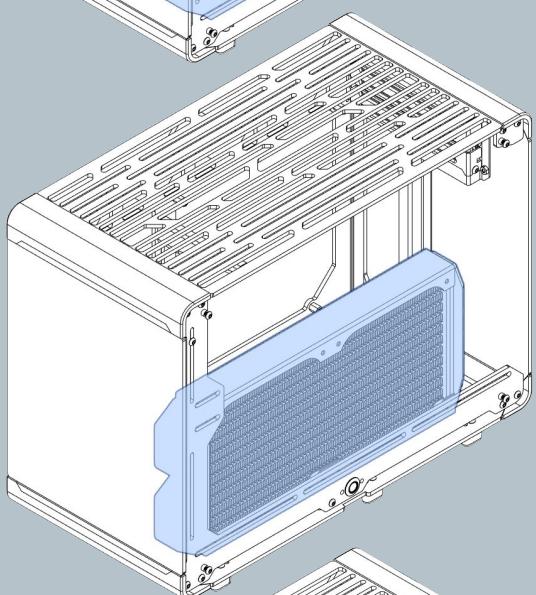
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Compatibility

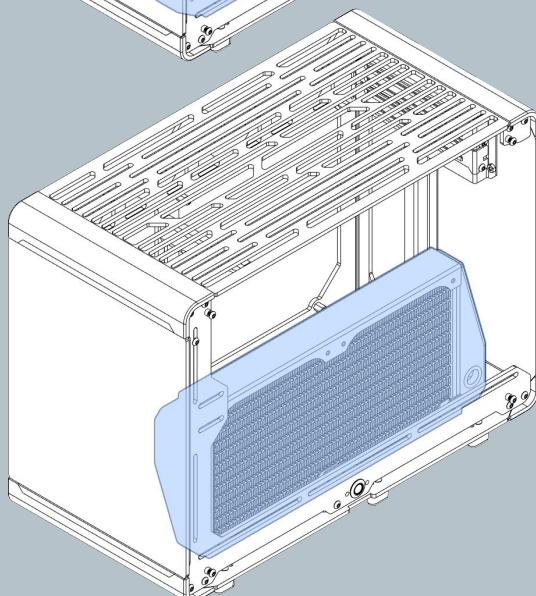
Radiator Side Mount - Max 75mm thickness when water block is used for CPU. Side mount allows for 240 or 280 radiator.



Side Mounted Standard 280mm
AIO Radiator/Fan



Side Mounted Standard 240mm
AIO Radiator/Fan



Side Mounted Custom Water
Cooling 240mm CrossFlow
Radiator/Fan

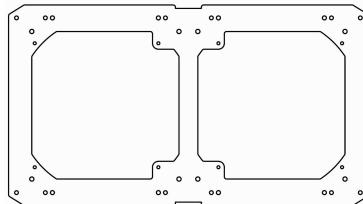
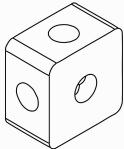
Read before assembly

- ★ Study the instructions thoroughly before assembly.
- ★ There are many small screws, nuts and similar parts. Assembly them carefully referring to the drawings.
- ★ It is advised to assemble each step exactly as shown.
- ★ This product is designed to be easy to assemble. But this is not a toy and should be kept out of children's reach.
- ★ It is important to **NOT** over-tighten screws.

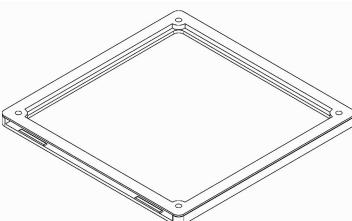
3D printed parts

- ★ This product contains 3D printed parts.
- ★ 3D printed parts included are printed at the highest quality settings. But due to the nature of such parts, small surface blemishes are unavoidable and do not affect performance.

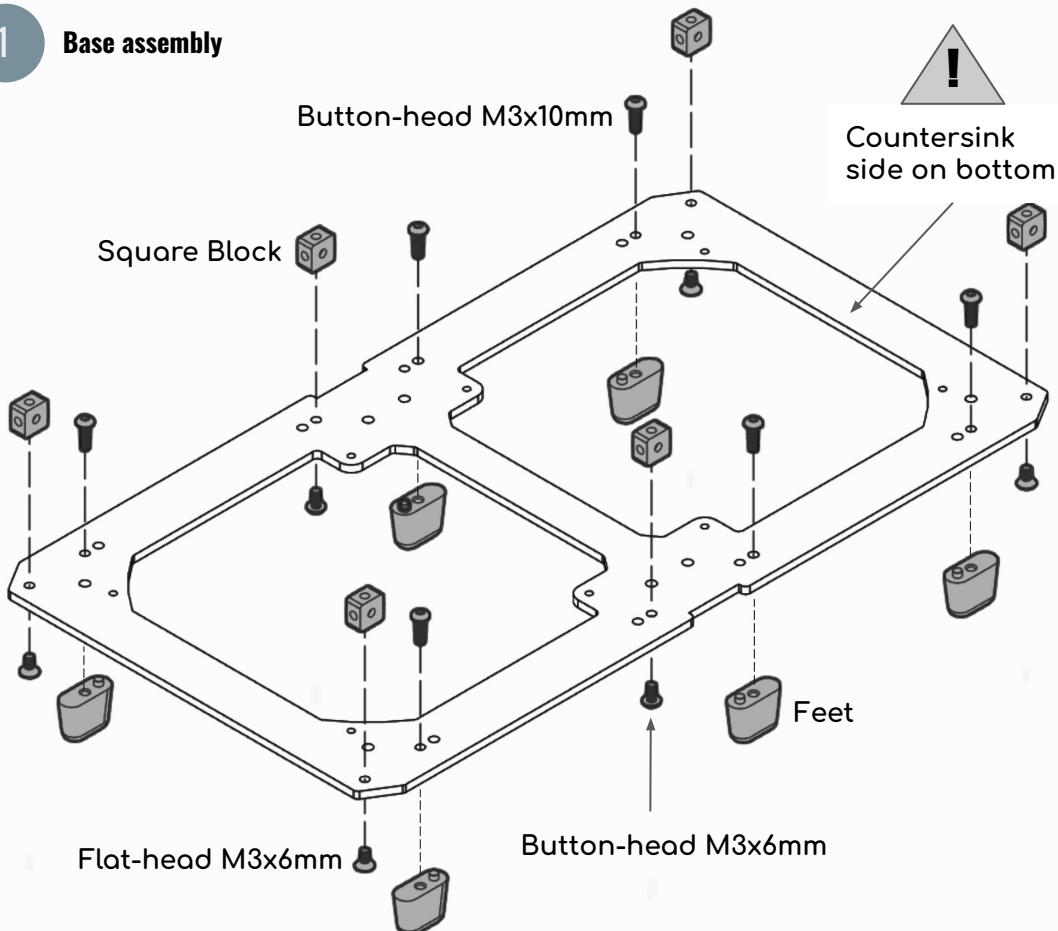
1

**Shell - Bottom****Square Block x 6****Flat-head M3x6mm x 4****Button-head M3x6mm x 2****Feet x 6****Button-head M3x10mm x 6**

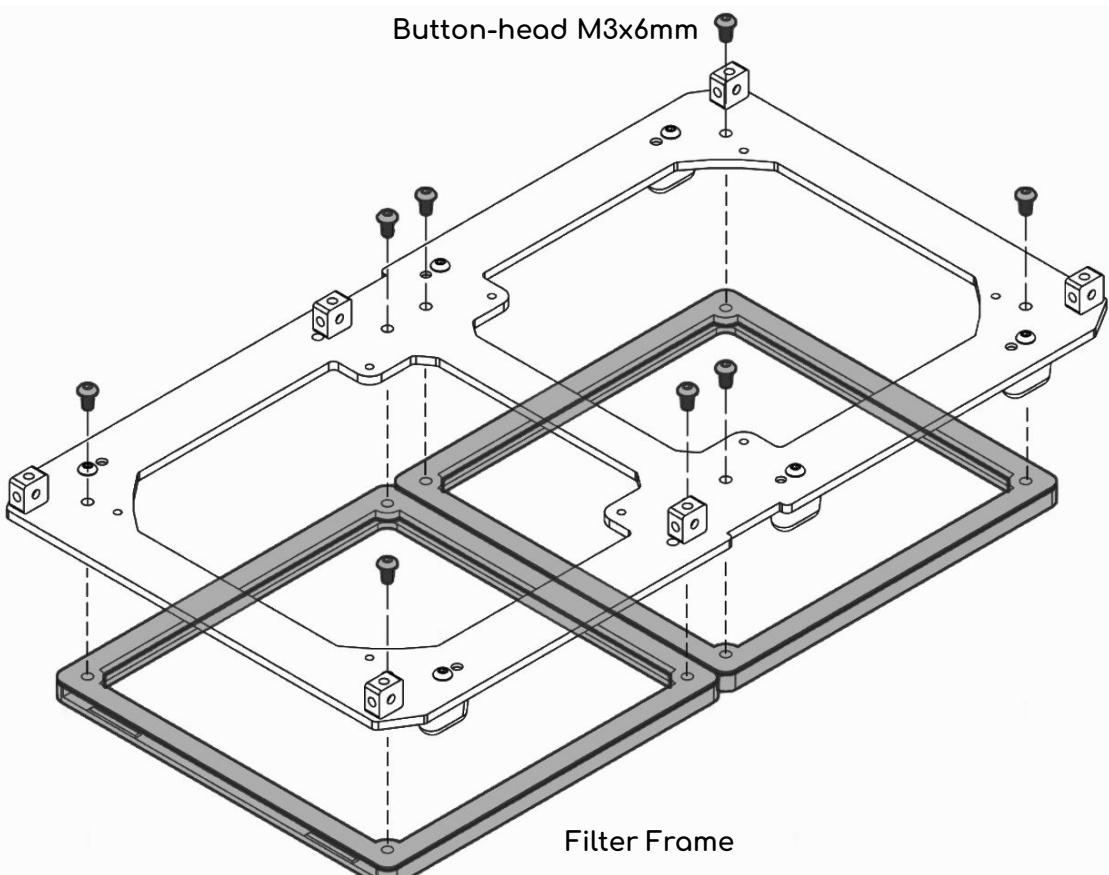
2

**Filter Frame x 2****Button-head M3x6mm x 8**

1

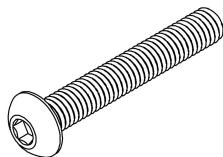
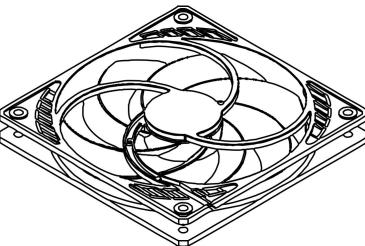
Base assembly

2

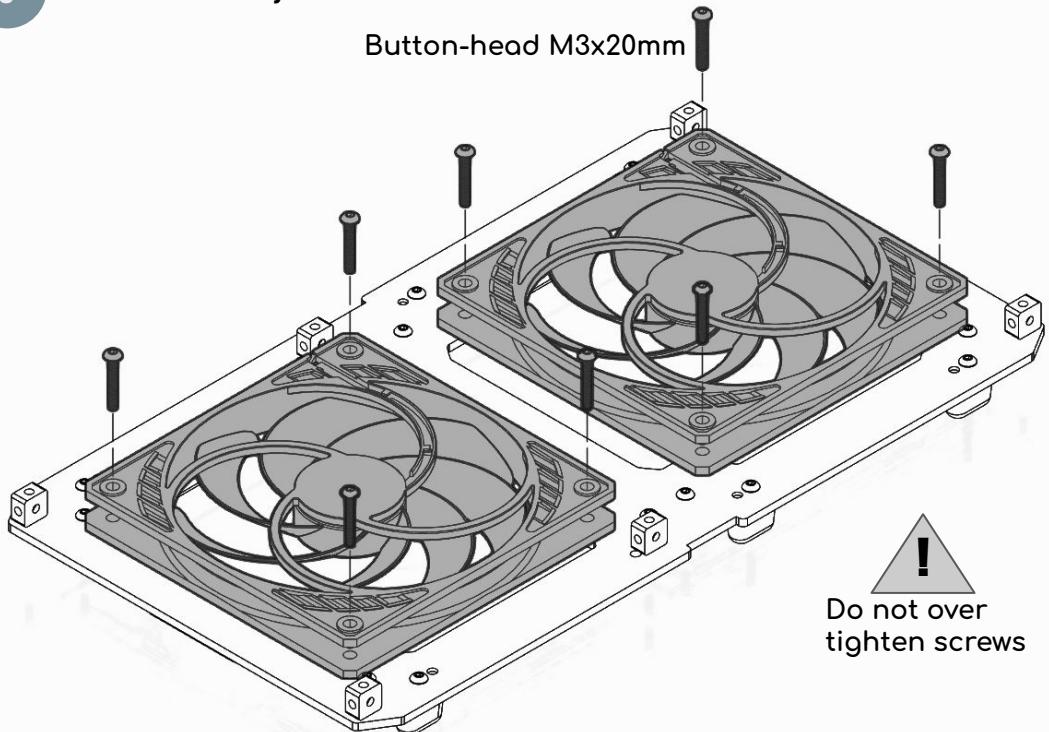
Attaching filter frames

3

3

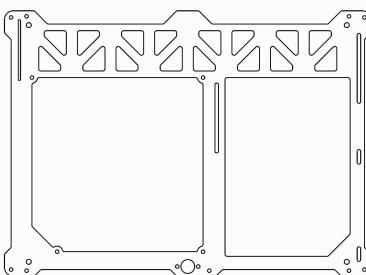
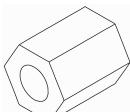
Intake fan assembly**Button-head M3x20mm x 8****120mm Fan x 2
(User supplied)**

Button-head M3x20mm

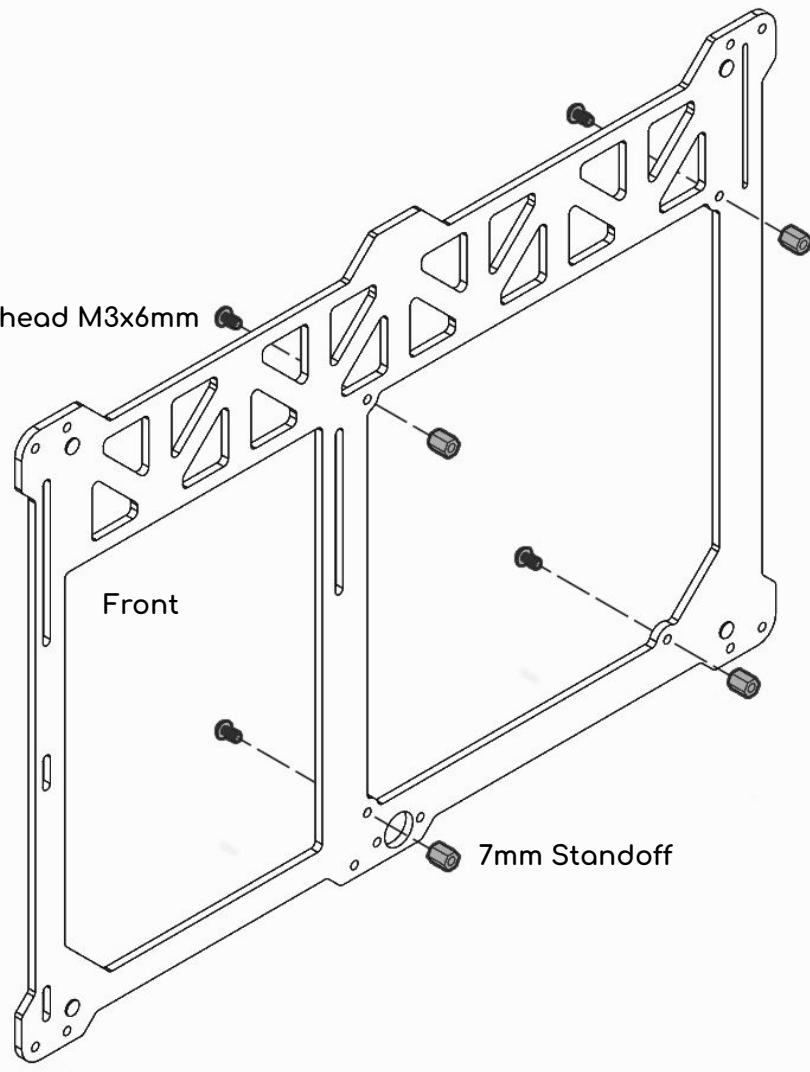


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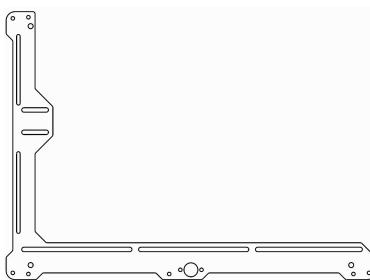
4

Attach motherboard standoff**Frame - Back****7mm Standoff x 4****Button-head M3x6mm x 4**

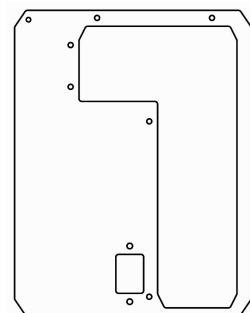
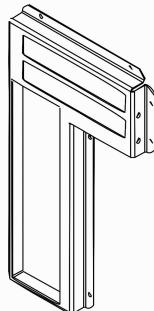
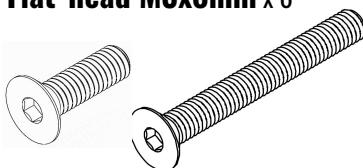
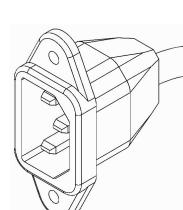
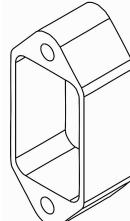
Button-head M3x6mm



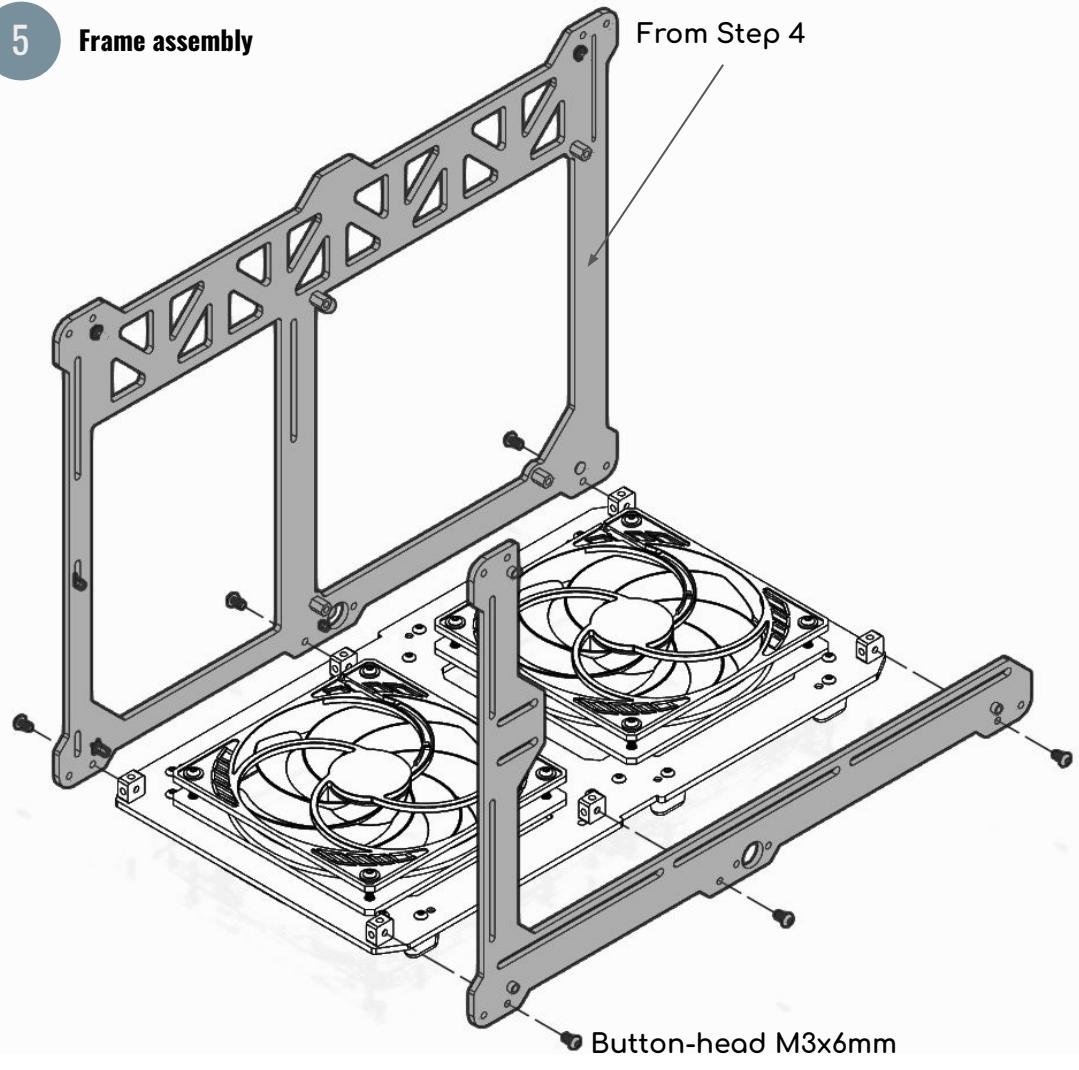
5

**Frame - Front****Button-head M3x6mm x 6**

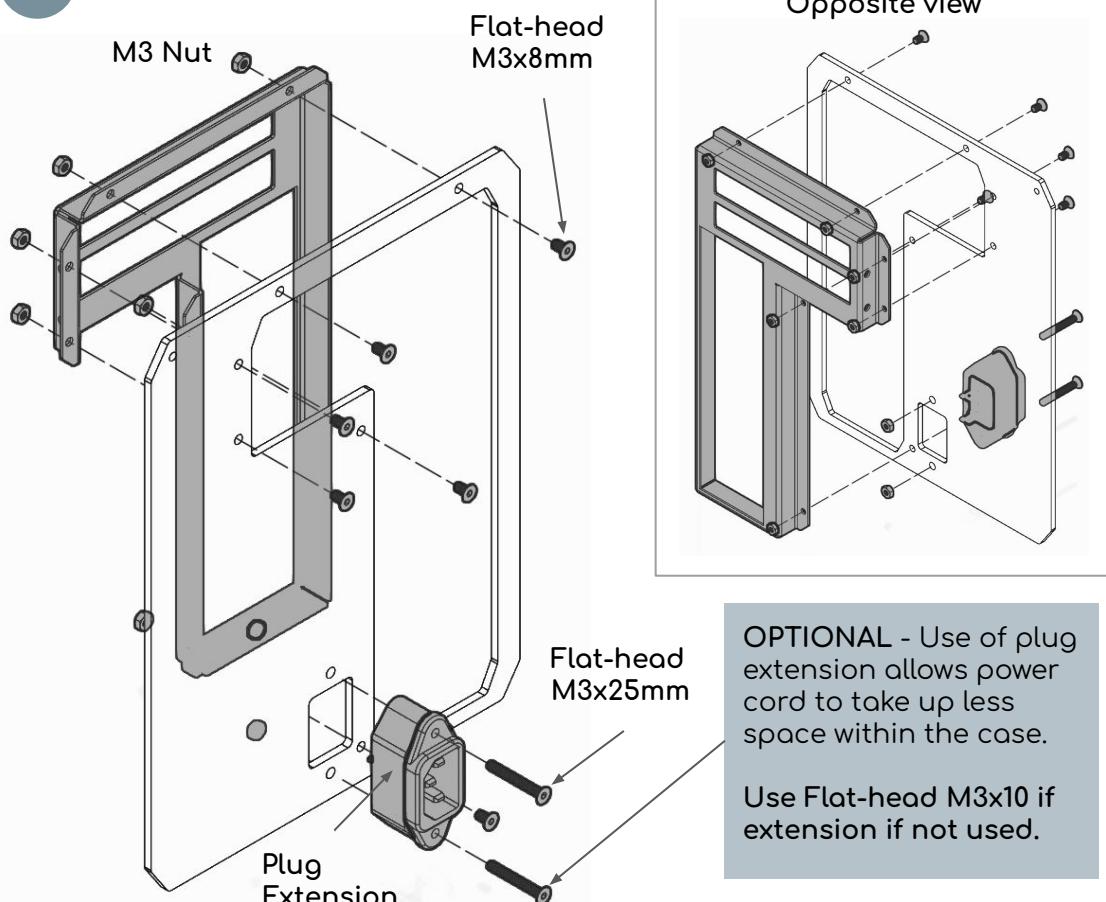
6

**Shell - Bottom****I0 Panel x 1****M3 Nut x 8****Flat-head M3x8mm x 6****Flat-head M3x10mm x 2****Flat-head M3x25mm x 2****IEC320 C14 x 1****Plug Extension x 1**

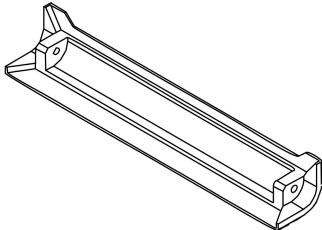
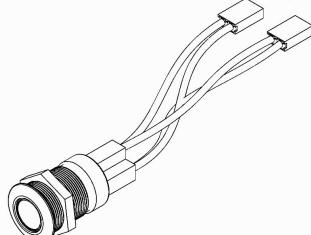
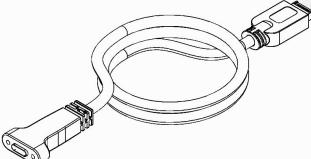
5

Frame assembly

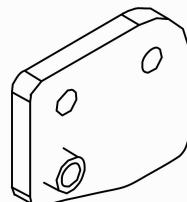
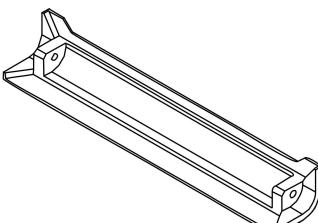
6

Back panel sub-assembly

7

**Shell - Back Corner****Button-head M3x6mm x 2****Button-head M3x10mm x 2****12mm Switch Assembly****USB-C Assembly**

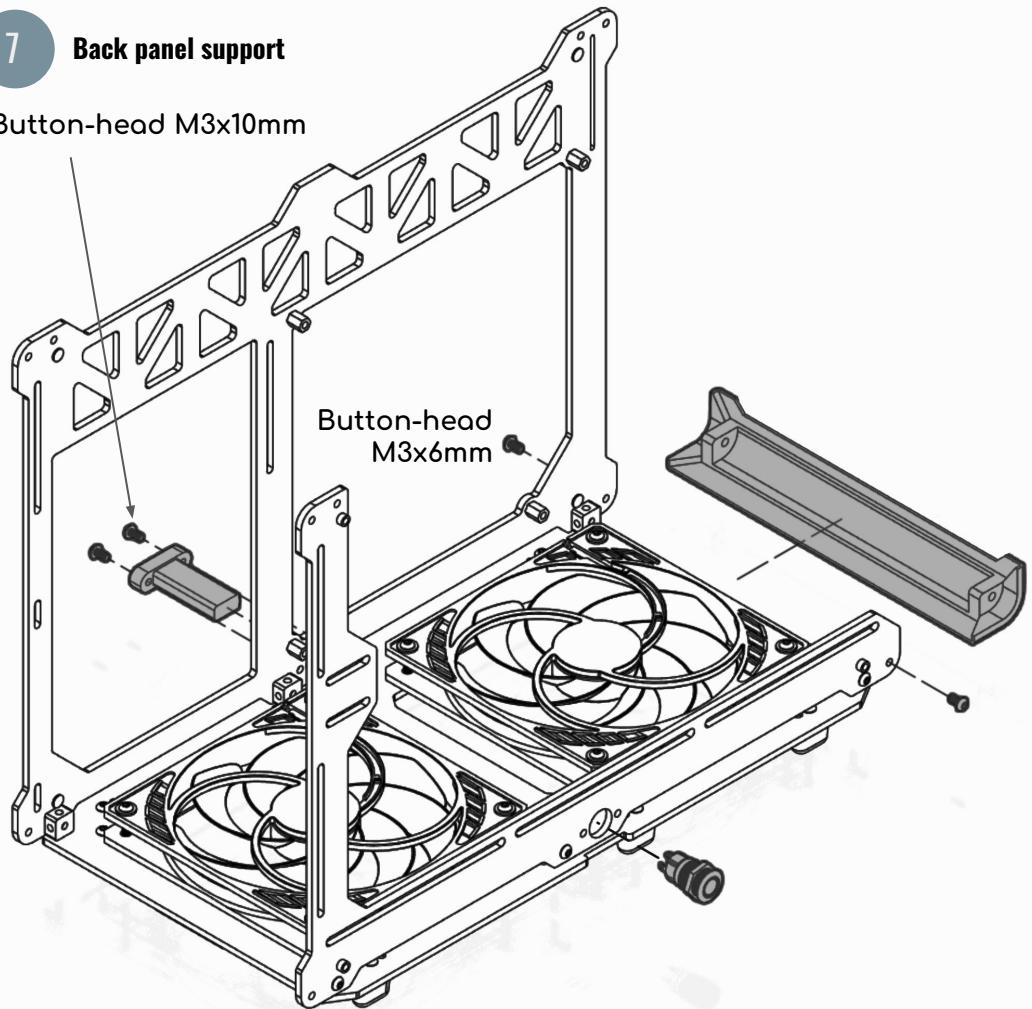
8

**Button-head M3x6mm x 2****Flat-head M3x8mm x 1****Support Bracket****Shell - Back Corner**

7

Back panel support

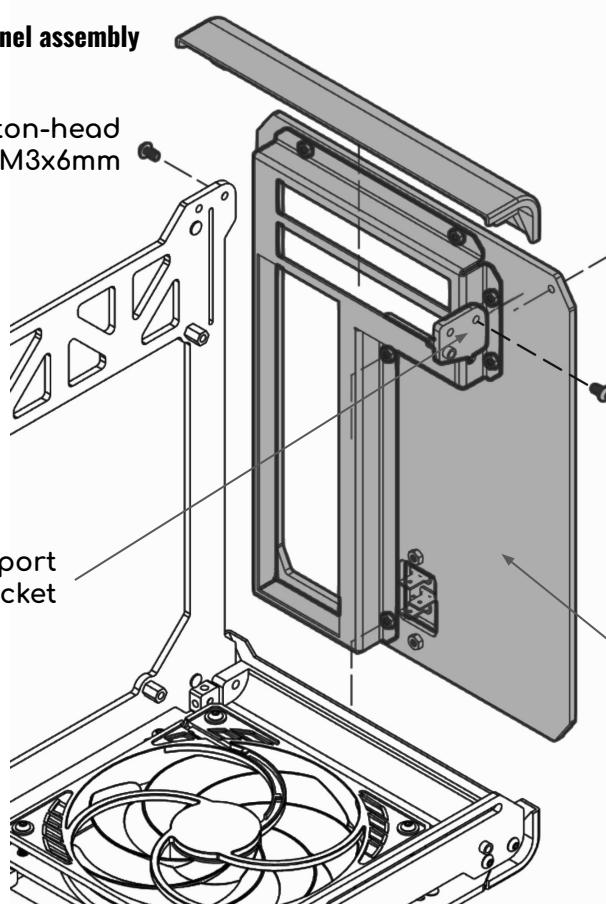
Button-head M3x10mm



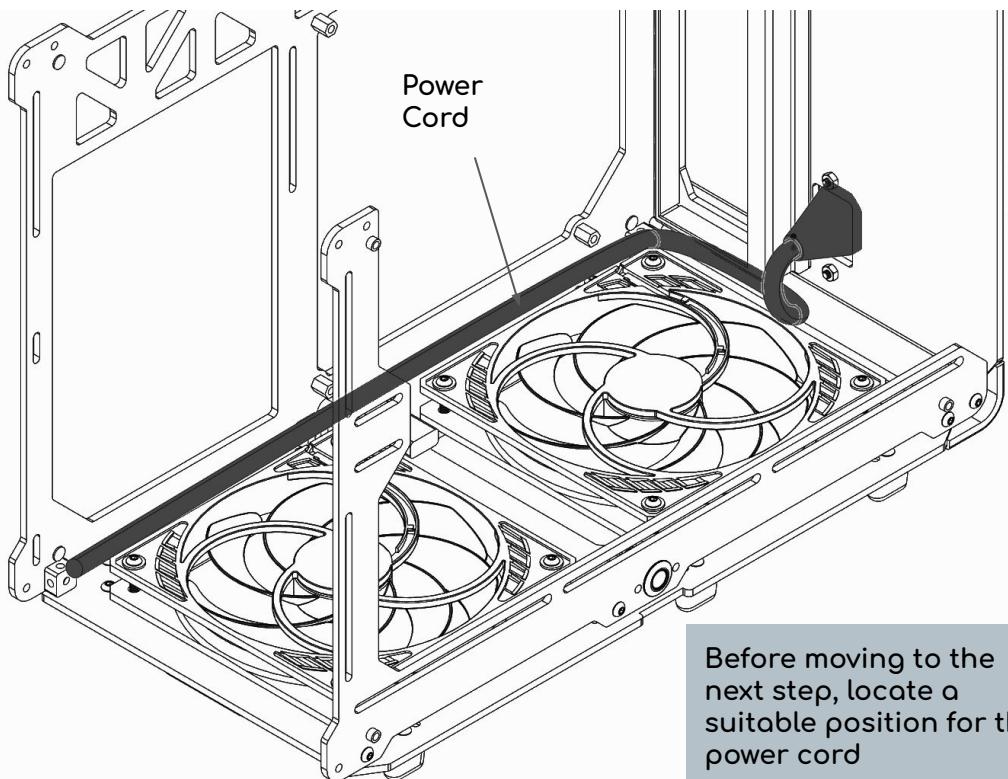
8

Back panel assemblyButton-head
M3x6mmSupport
BracketFlat-head
M3x8mmAttach
Support
Bracket First

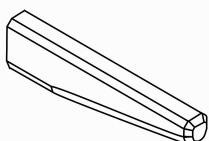
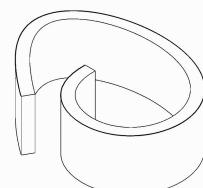
From Step 6



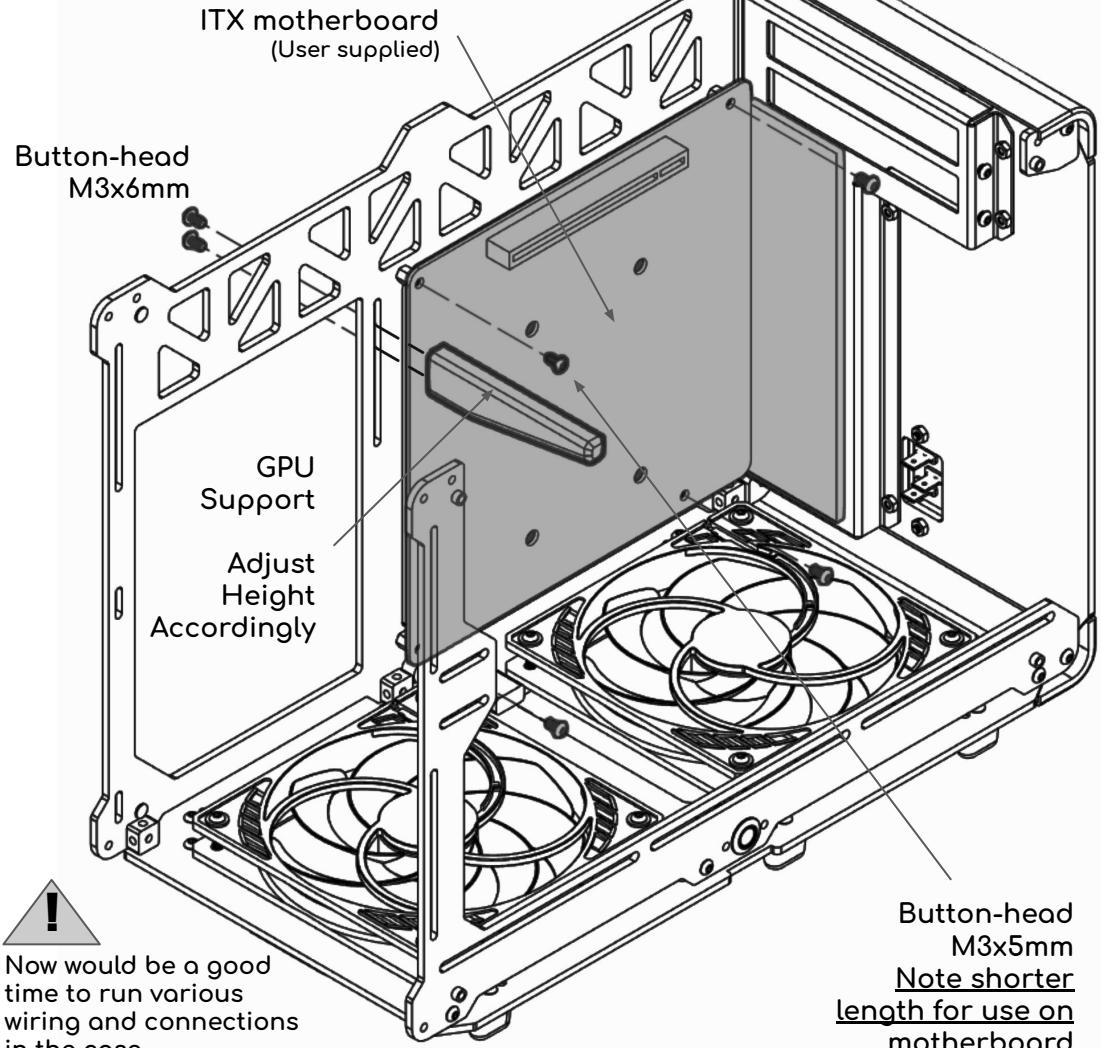
9

Power cord routing

10

Motherboard and GPU Support**GPU Support****Button-head M3x6mm x 2****Button-head M3x5mm x 4****EVA foam tape**

Adjust position and apply EVA foam insulation tape on GPU Support as suitable.



11

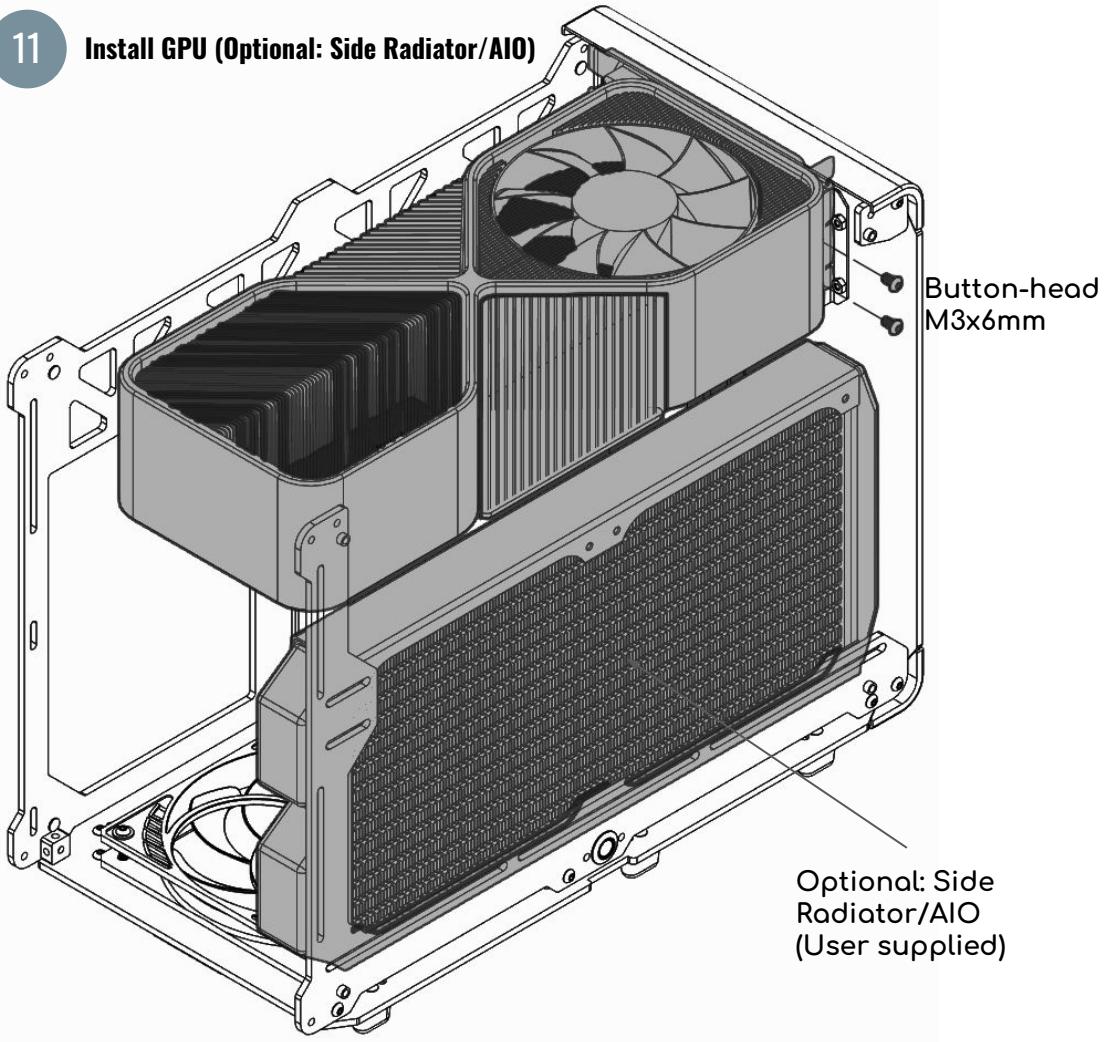


Button-head M3x6mm x 2

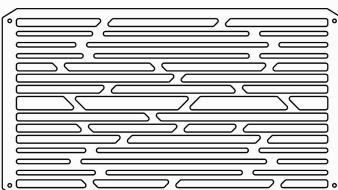
Install and route side radiator/AIO at this point with easy access to components.

11

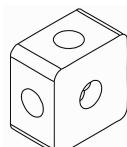
Install GPU (Optional: Side Radiator/AIO)



12



Shell - Top



Square Block x 4

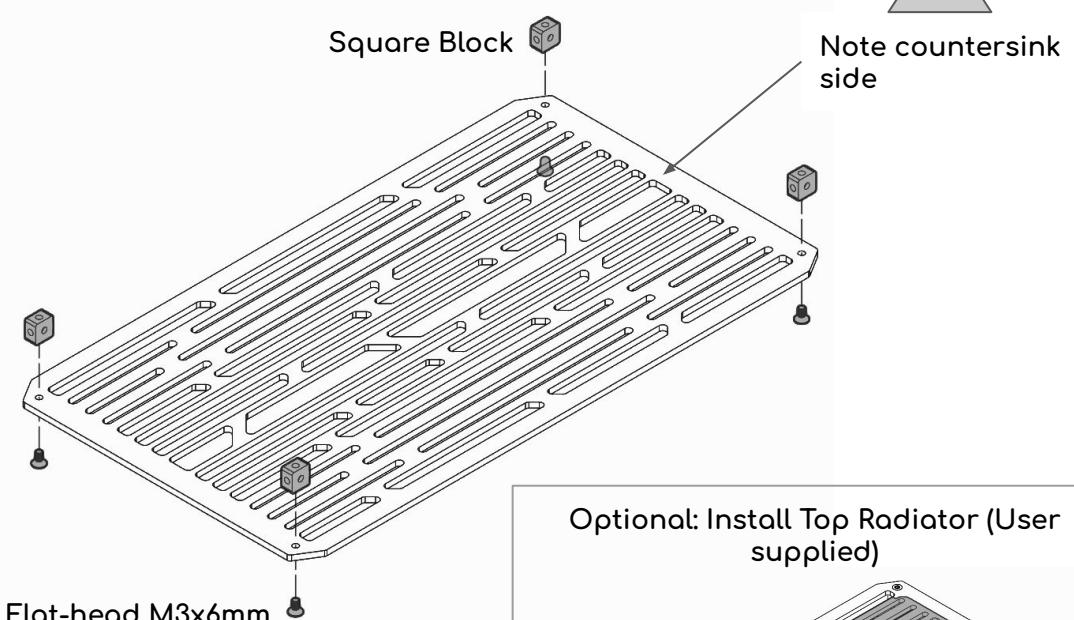


Flat-head M3x6mm x 4

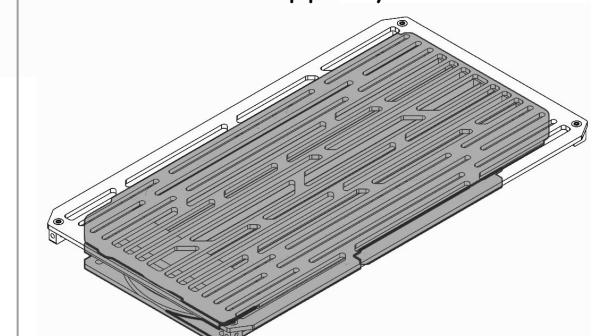
Install and route top radiator/AIO now to 'Shell - Top' if this is your desired configuration.

12

Top panel sub-assembly



Optional: Install Top Radiator (User supplied)

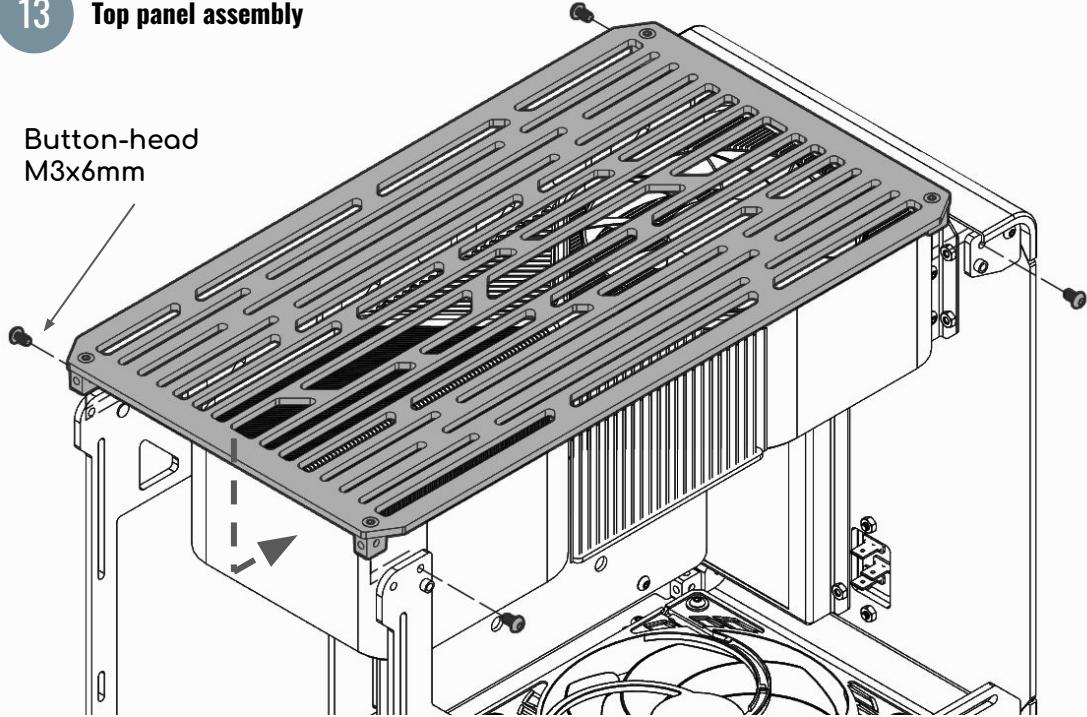


13

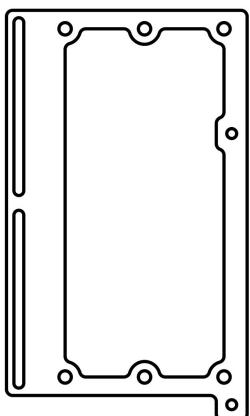


Button-head M3x6mm x 4

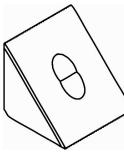
13

Top panel assemblyButton-head
M3x6mm

14



Frame - PSU

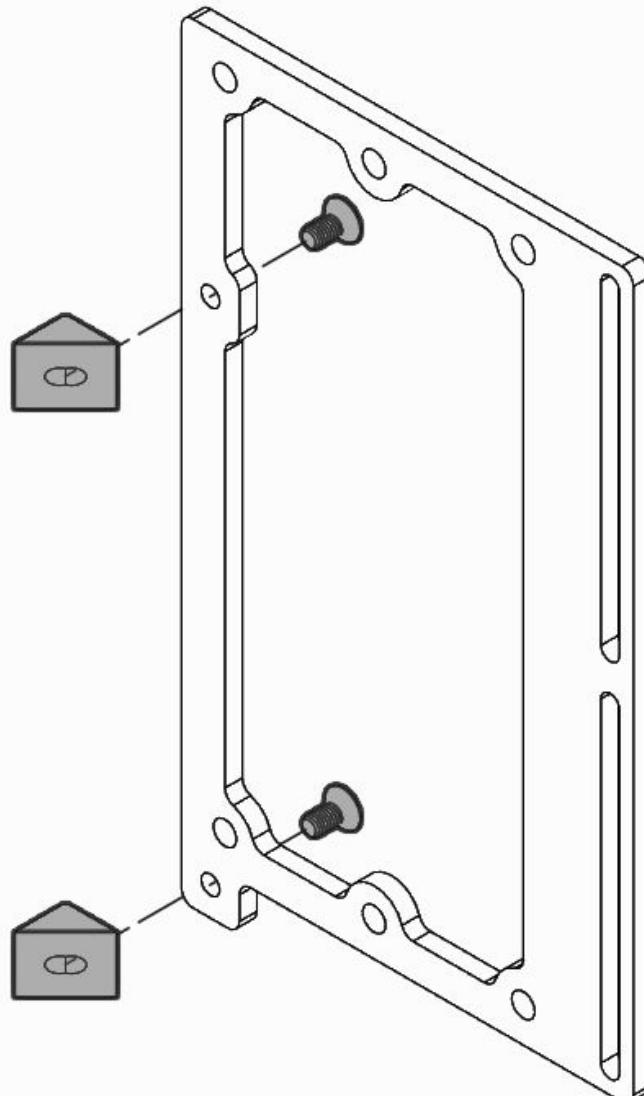


Triangle Block x 2



Flat-head M3x6mm x 2

14

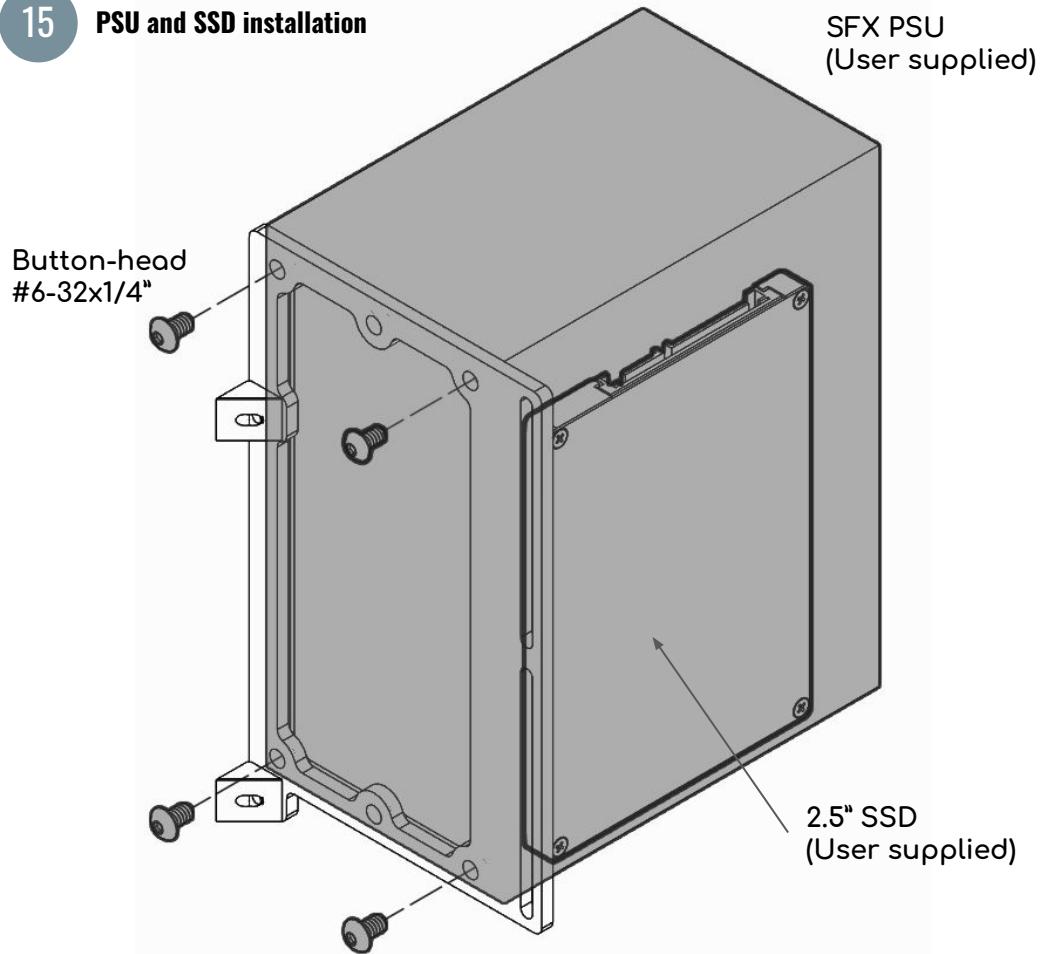
PSU mount sub-assembly



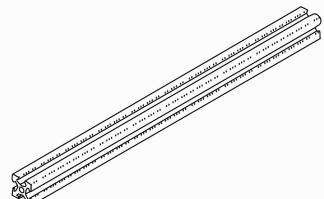
**Button-head
#6-32x1/4" x 4**

15

PSU and SSD installation



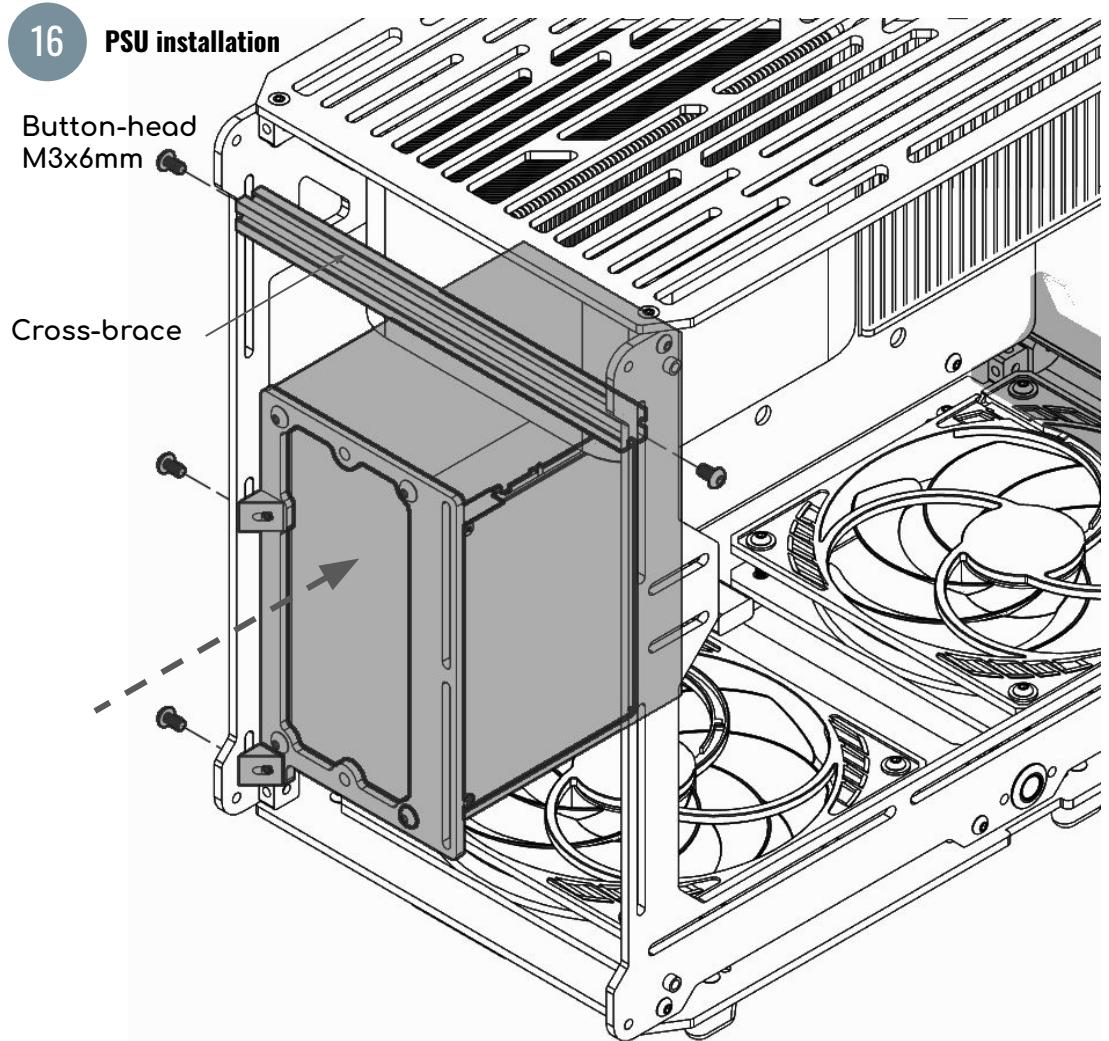
Button-head M3x6mm x 4



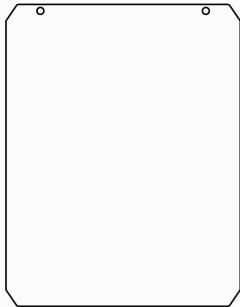
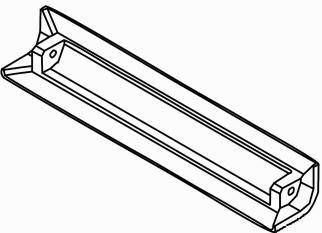
Cross-brace

16

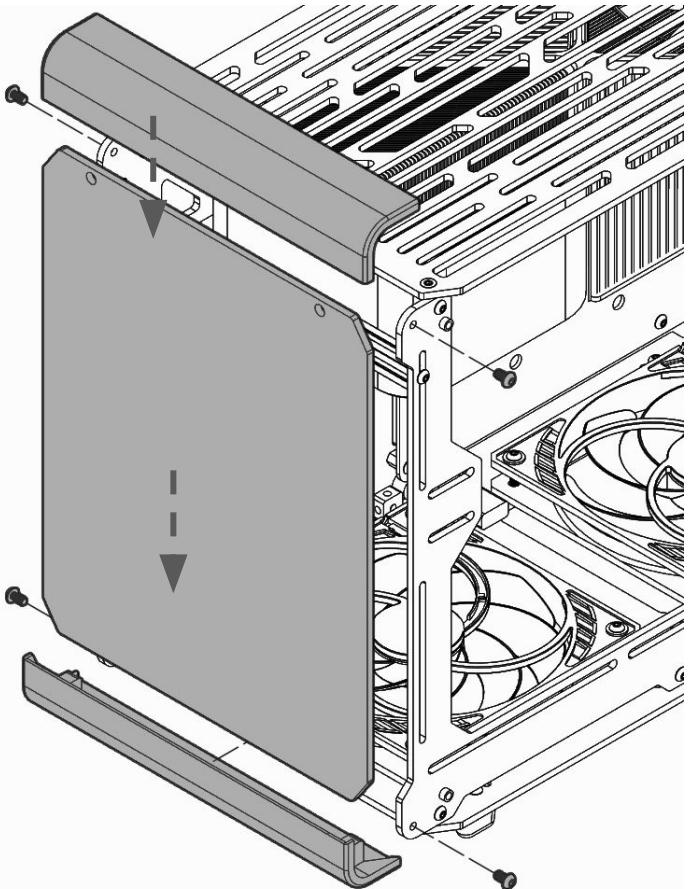
PSU installation



17

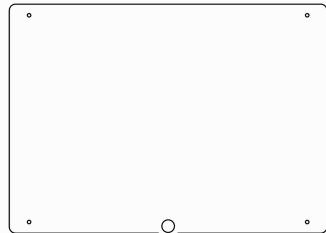
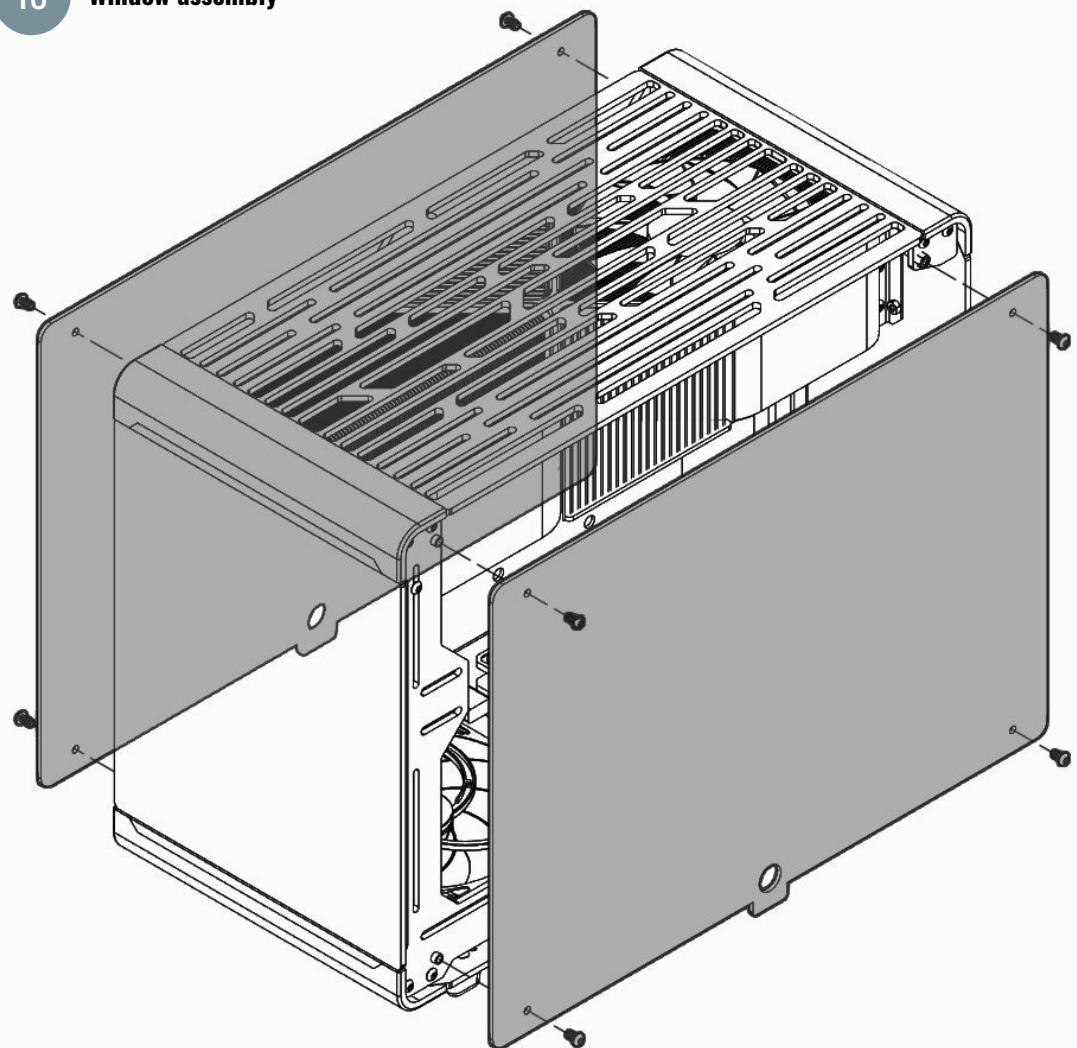
**Shell - Front****Shell - Front Corner x 2****Button-head M3x6mm x 4**

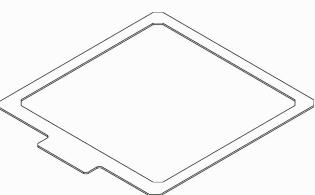
17

Front panel assemblyButton-head
M3x6mm

18

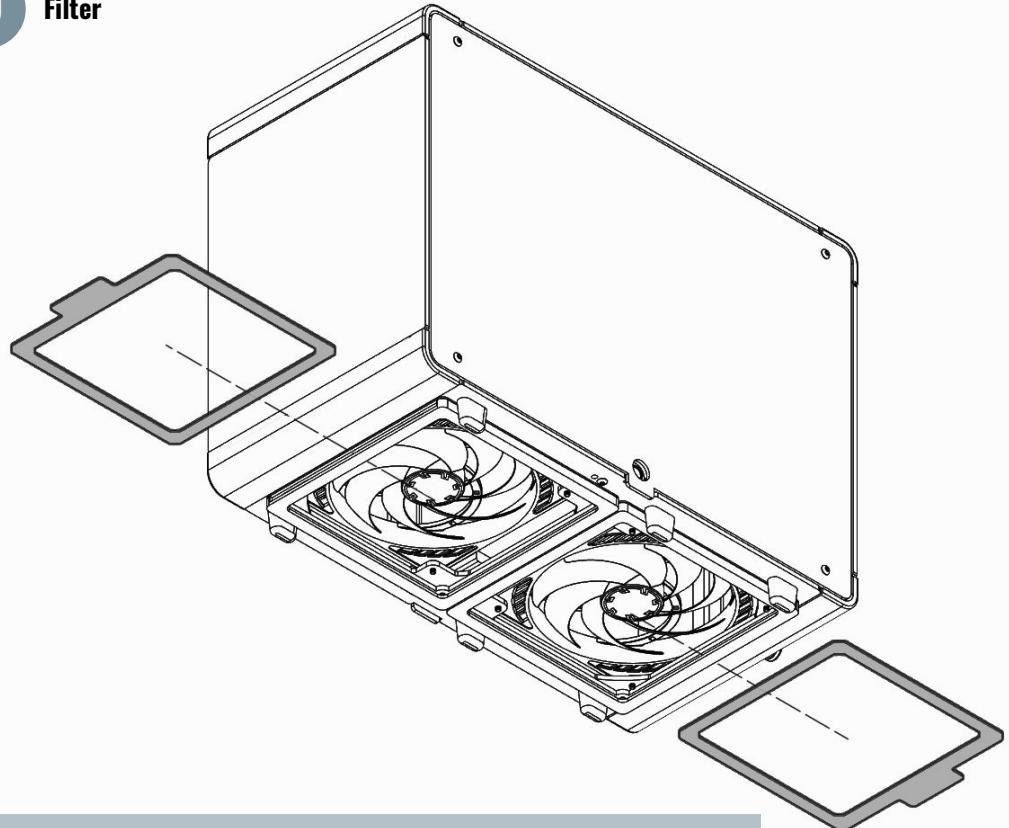
18

Window assembly**Window x 2****Button-head M3x6mm x 8**

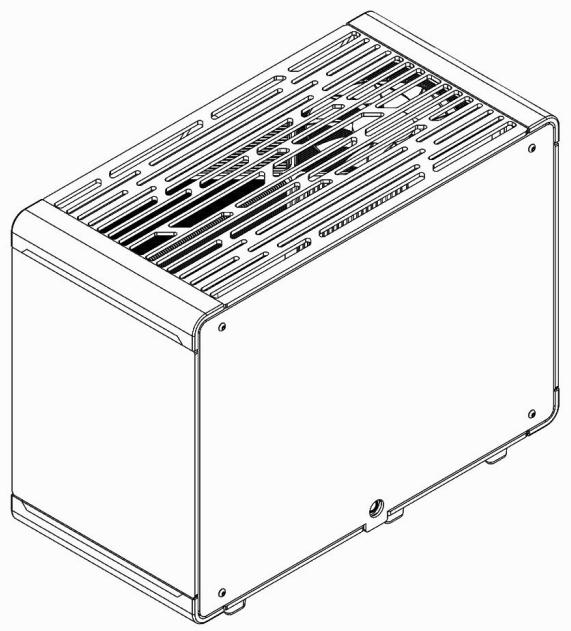


Filter x 2

Filter



★ Clean filters regularly to ensure optimum airflow



Date _____

Motherboard _____

GPU _____

CPU _____

Memory _____

SSD _____

PSU _____

Cooling _____

Notes

