



# 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

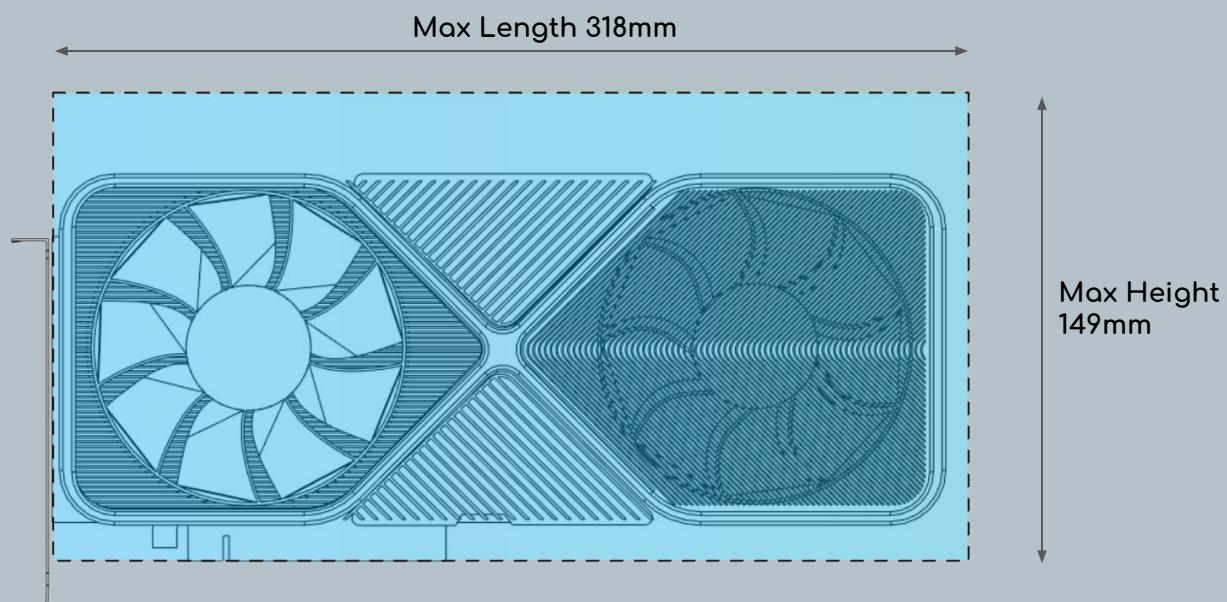
# VF-1 User Manual

## Compatibility

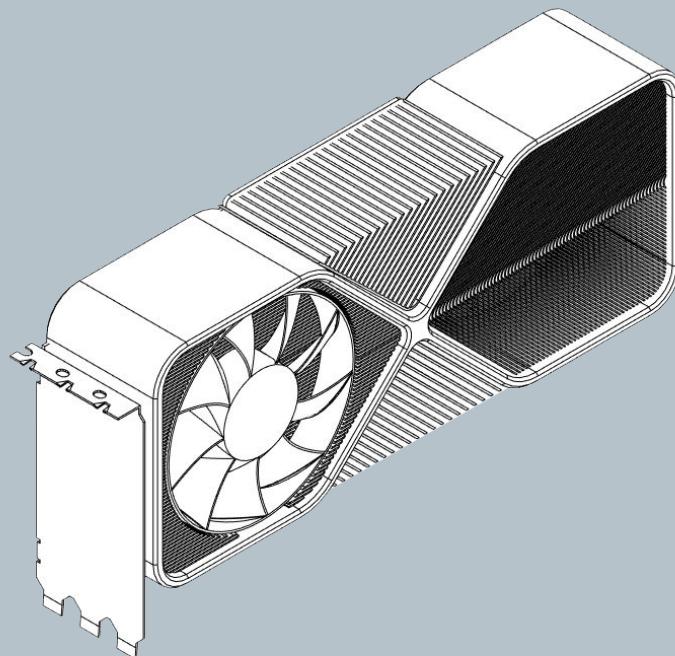
### GPU

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

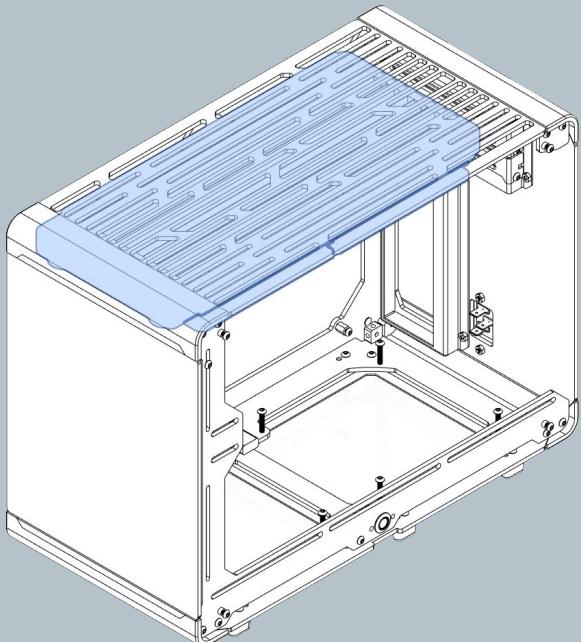
### CPU

Max height 130mm when side radiator not used.

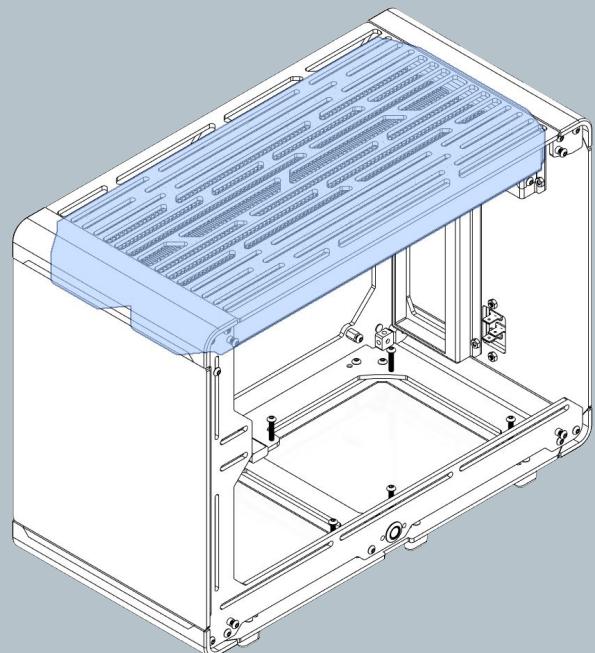
### Radiator

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

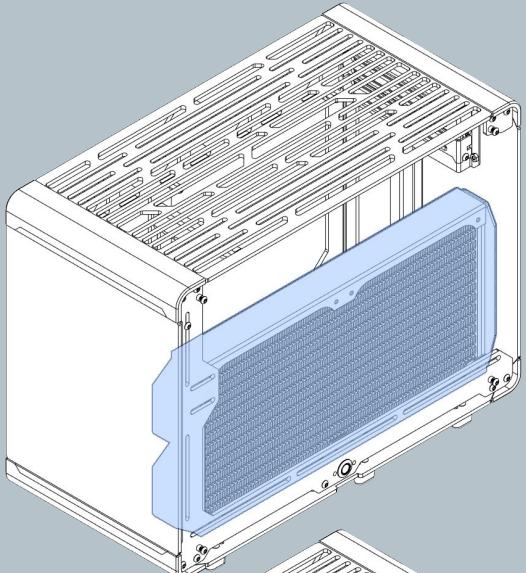


Top Mounted Passive Standard  
280mm Radiator

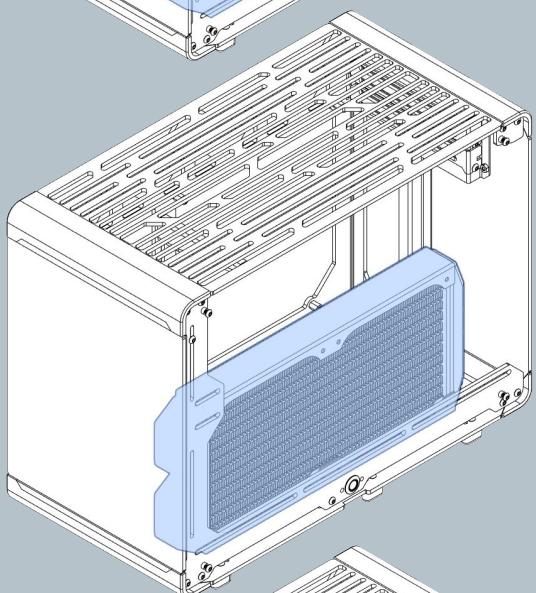
# VF-1 User Manual

## Compatibility

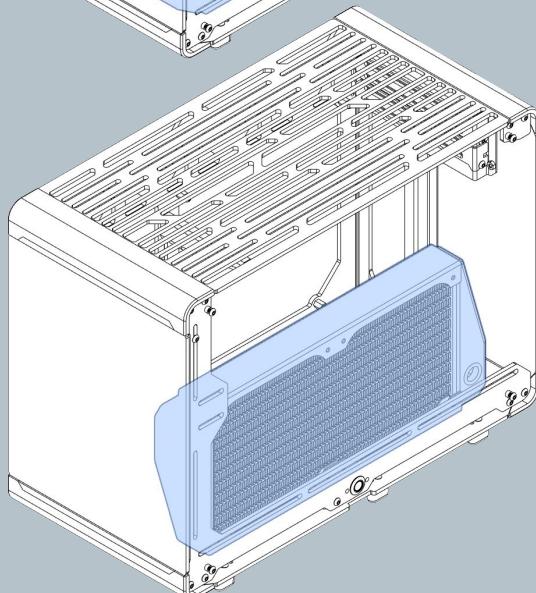
**Radiator Side Mount - Max 75mm thickness when water block is used for CPU.** Side mount allows for 240 or 280 radiator.



Side Mounted Standard 280mm  
AIO Radiator/Fan



Side Mounted Standard 240mm  
AIO Radiator/Fan



Side Mounted Custom Water  
Cooling 240mm CrossFlow  
Radiator/Fan

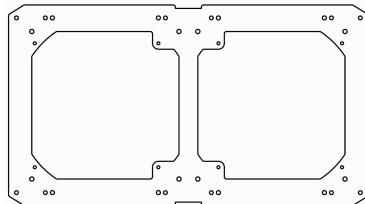
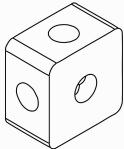
## **Read before assembly**

- ★ 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.

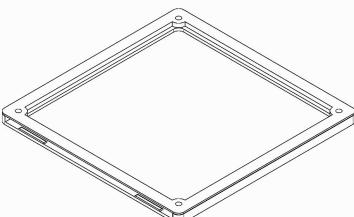
## **3D printed parts**

- ★ 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.

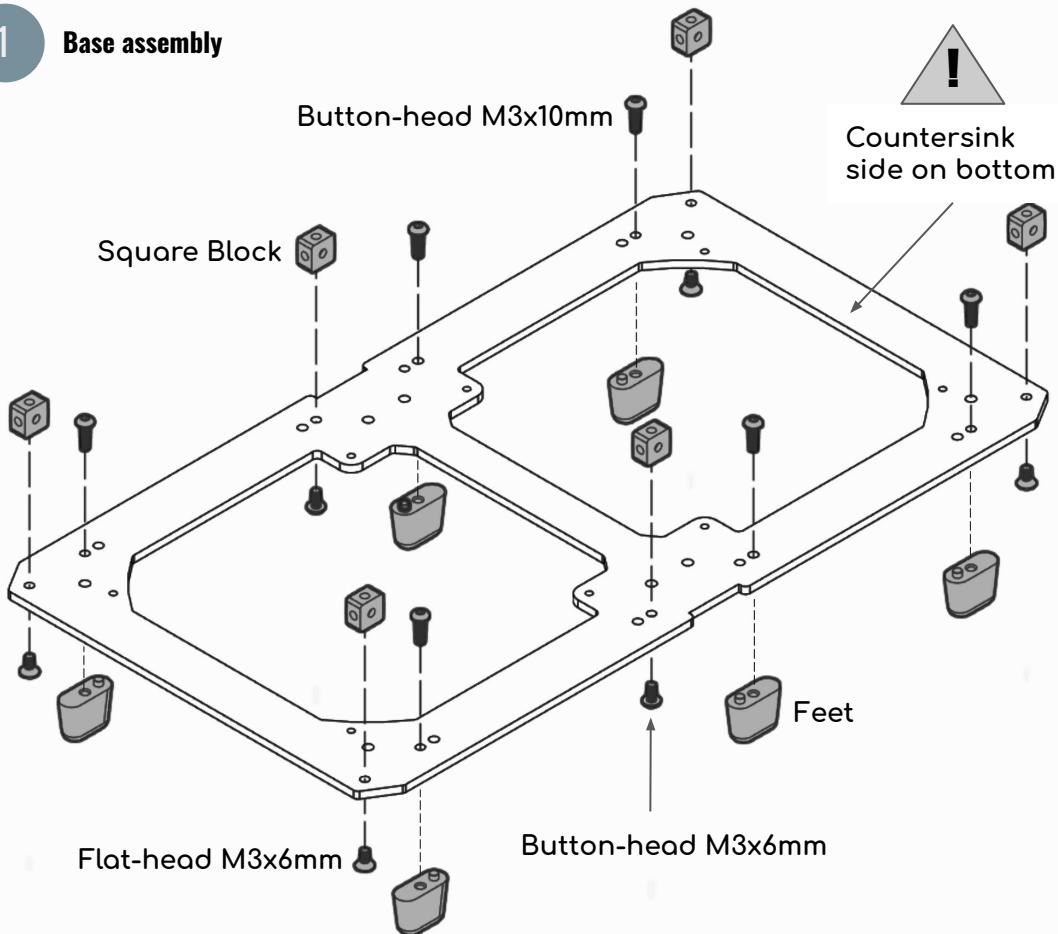
1

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

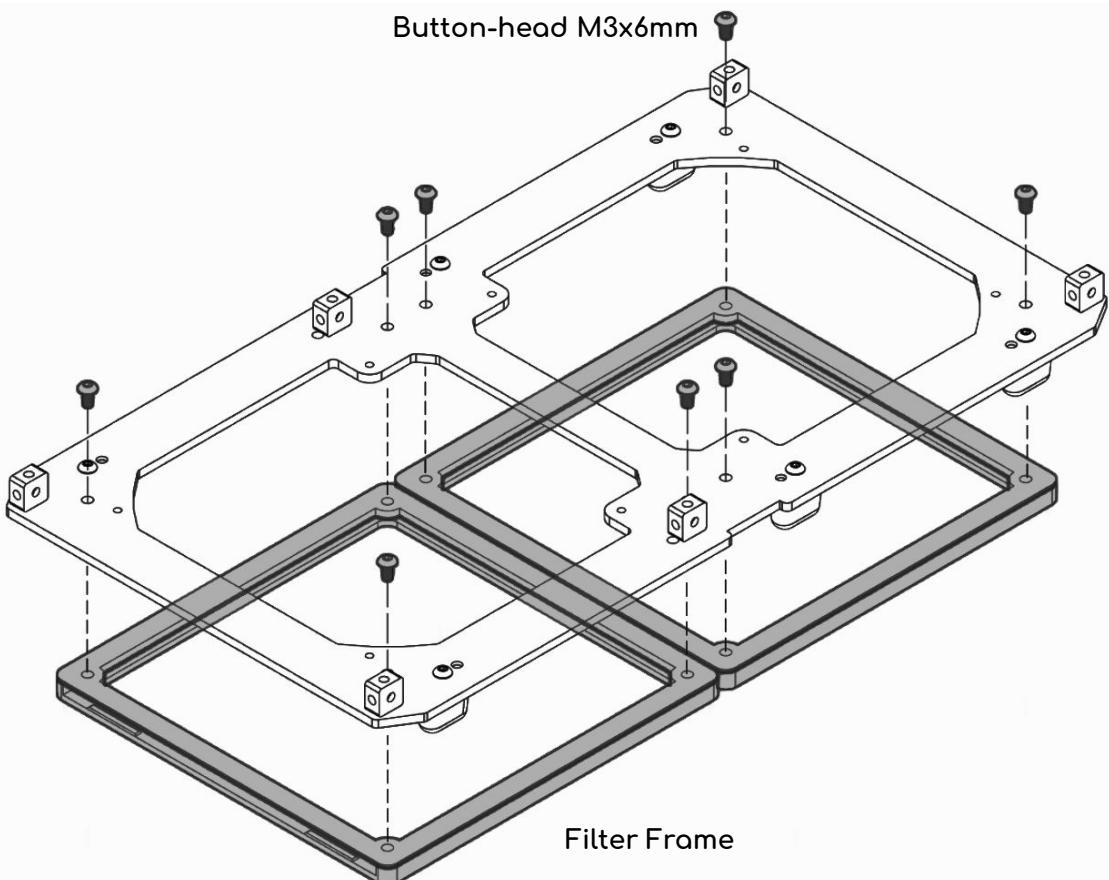
2

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

1

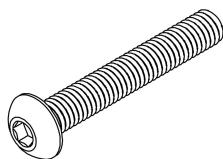
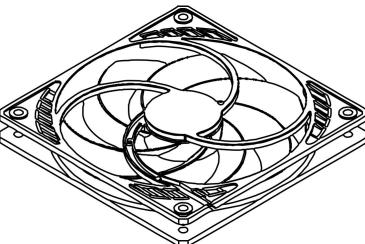
**Base assembly**

2

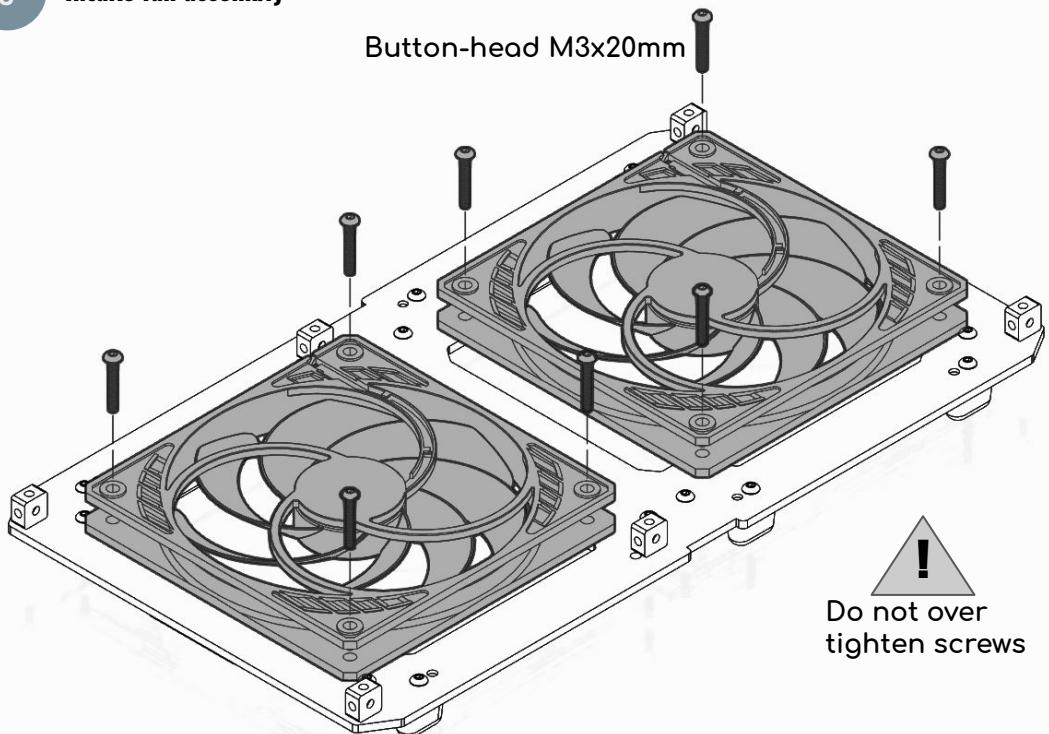
**Attaching filter frames**

3

3

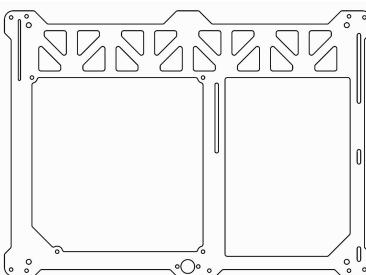
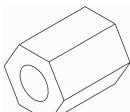
**Intake fan assembly****Button-head M3x20mm x 8****120mm Fan x 2  
(User supplied)**

Button-head M3x20mm

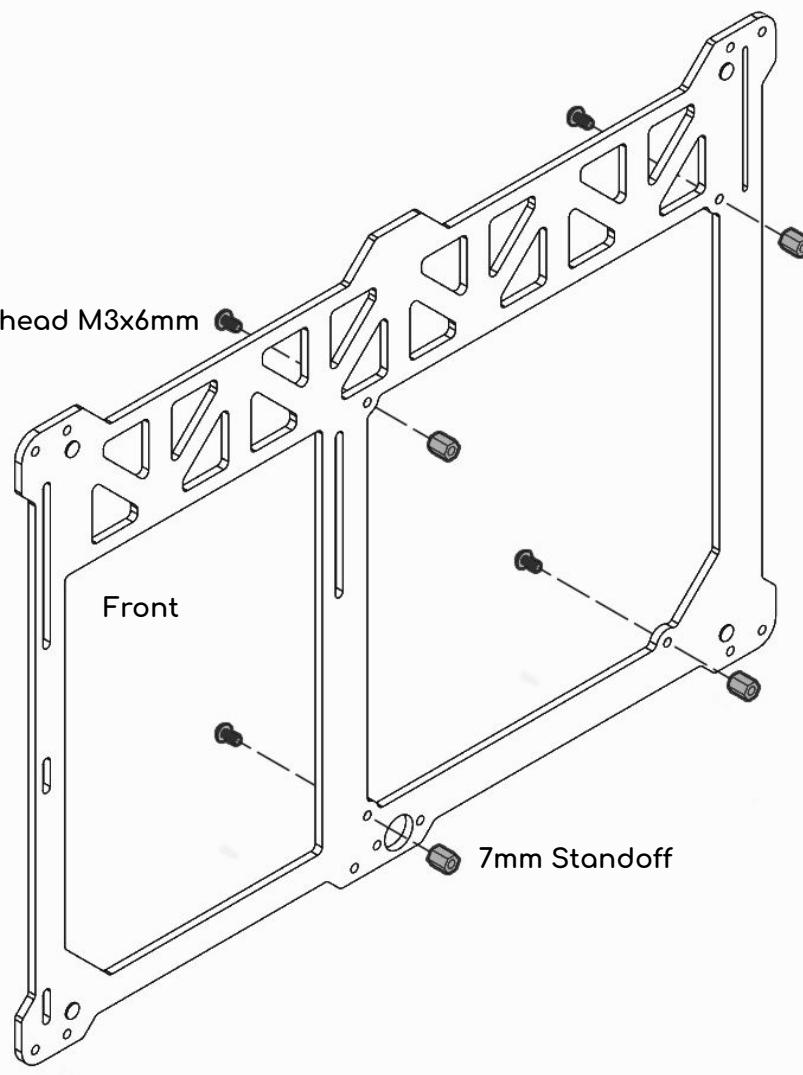


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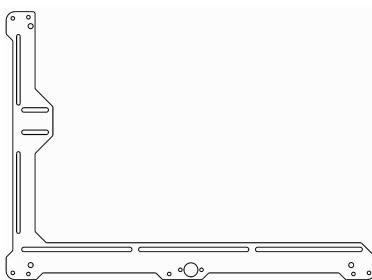
4

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

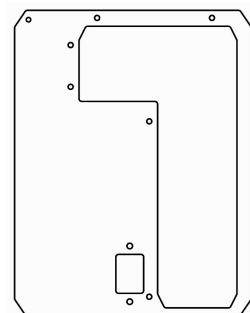
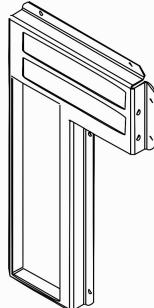
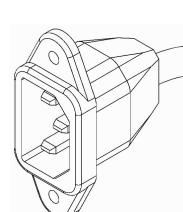
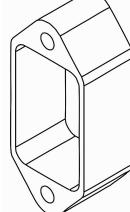
Button-head M3x6mm



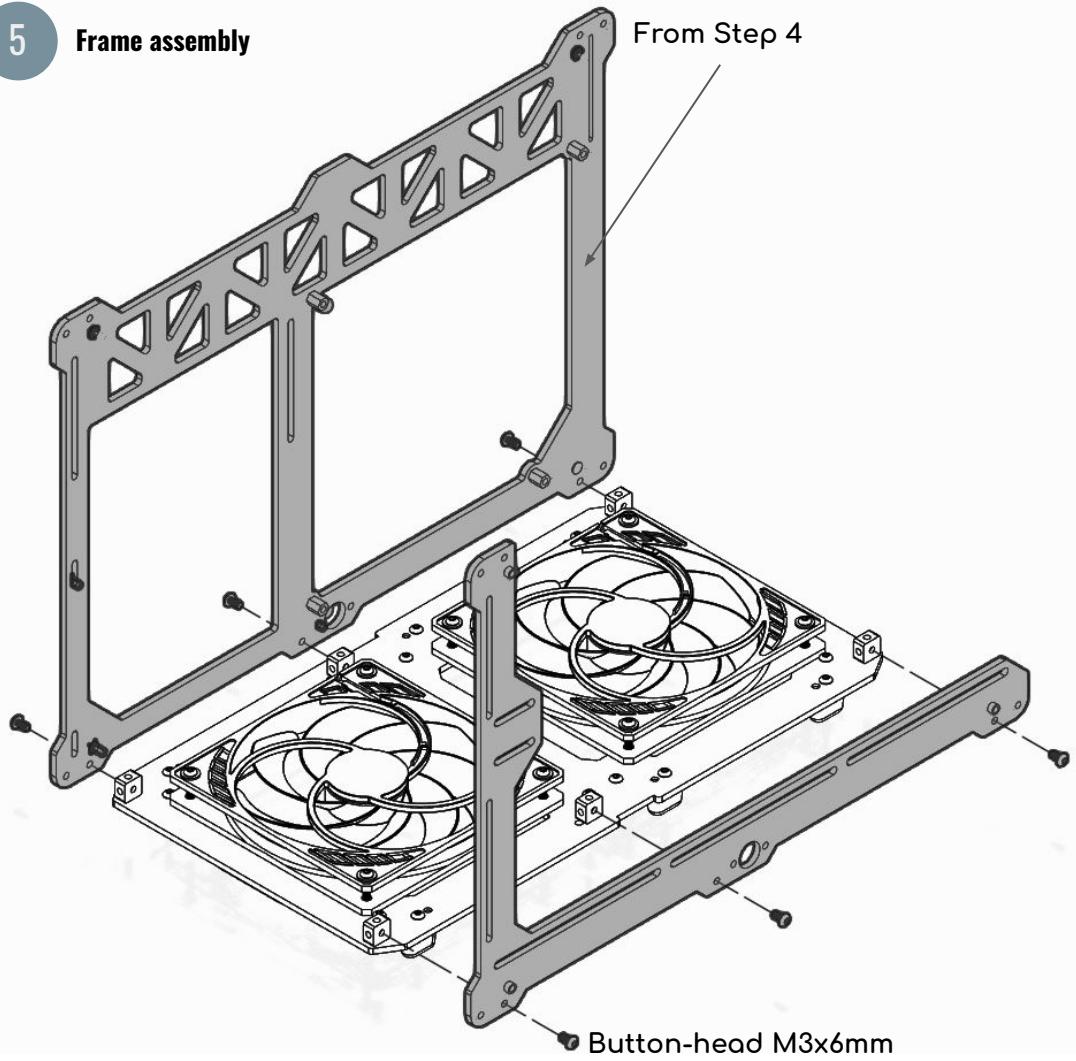
5

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

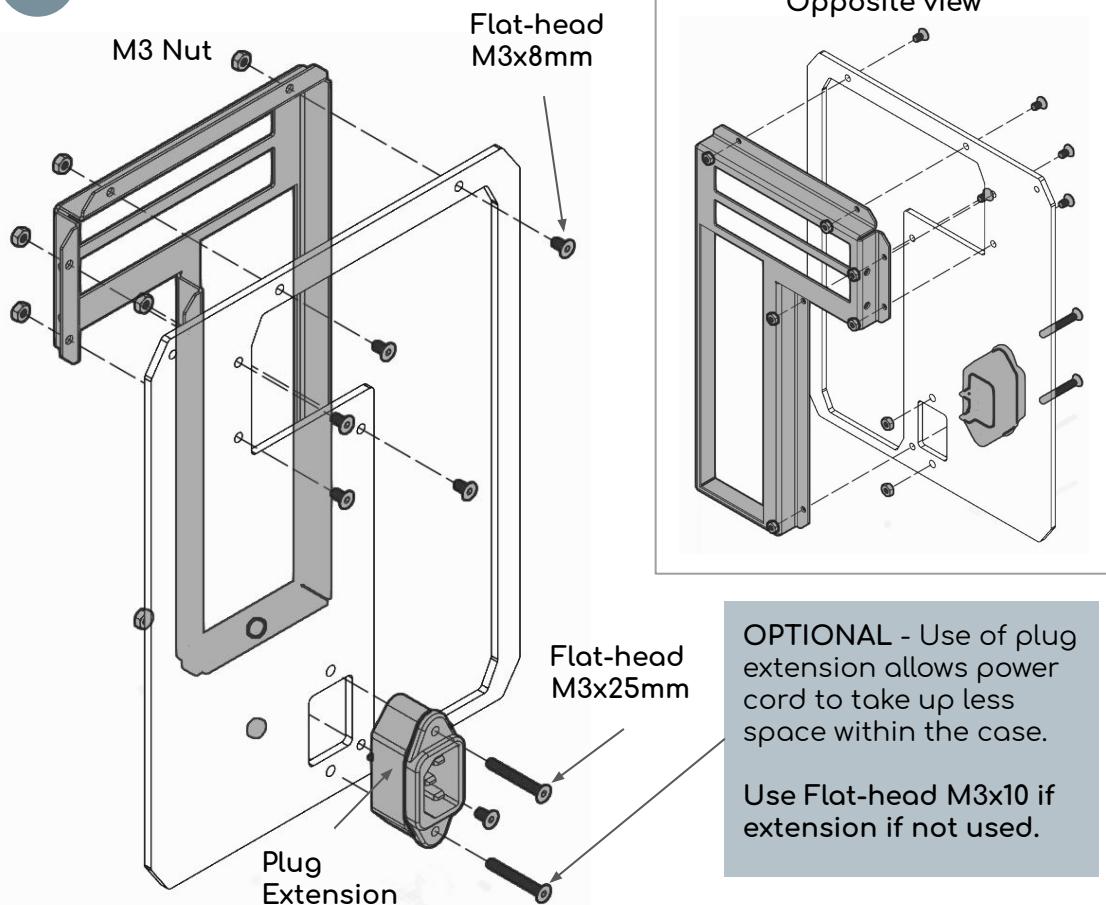
6

**Shell - Bottom****IO 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**

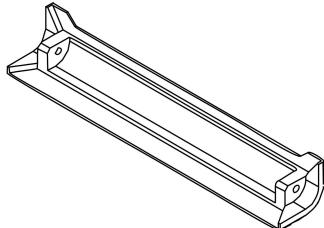
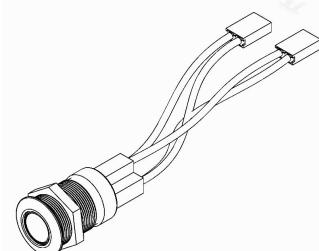
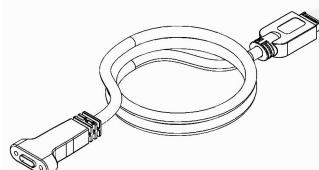
5

**Frame assembly**

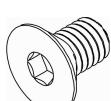
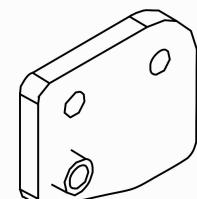
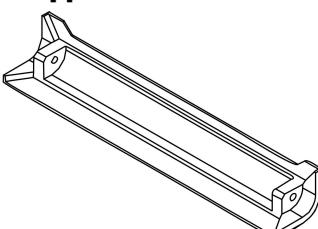
6

**Back panel sub-assembly**

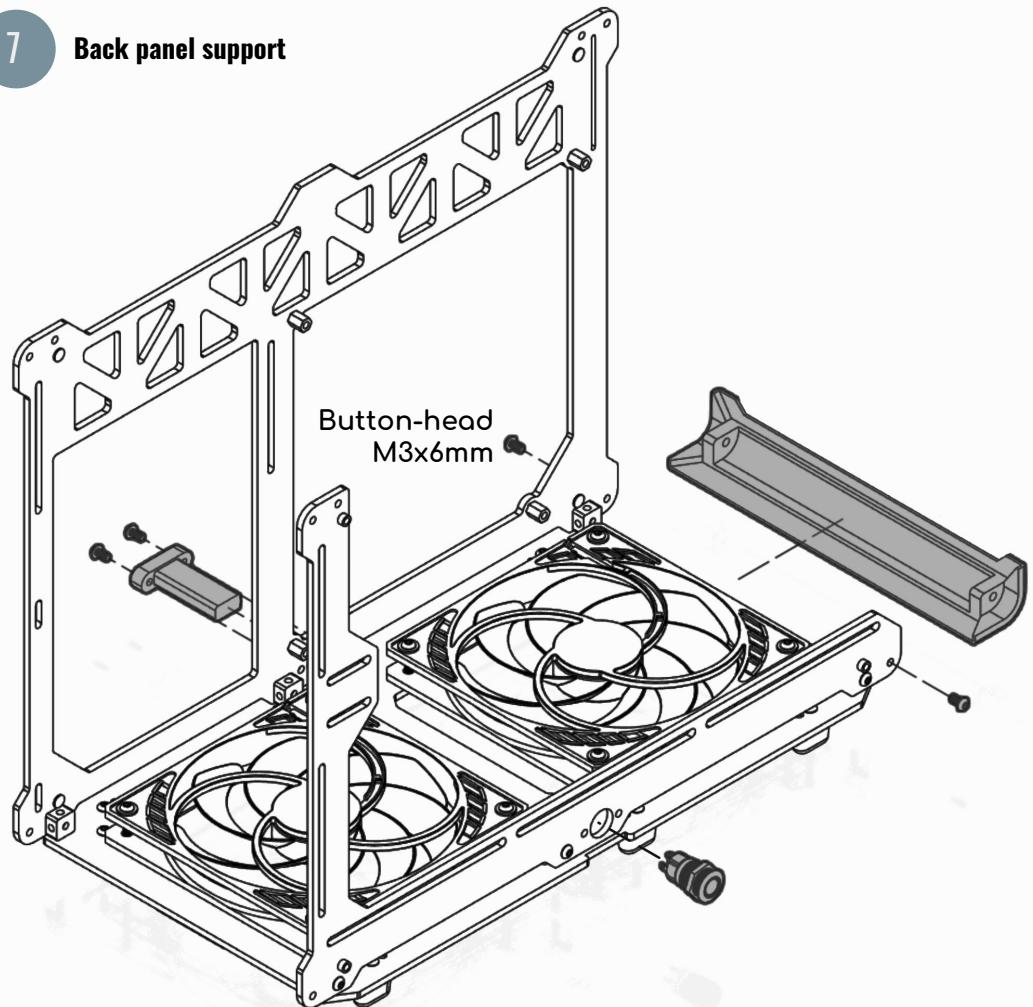
7

**Shell - Back Corner****Button-head M3x6mm x 4****12mm Switch Assembly****USB-C Assembly**

8

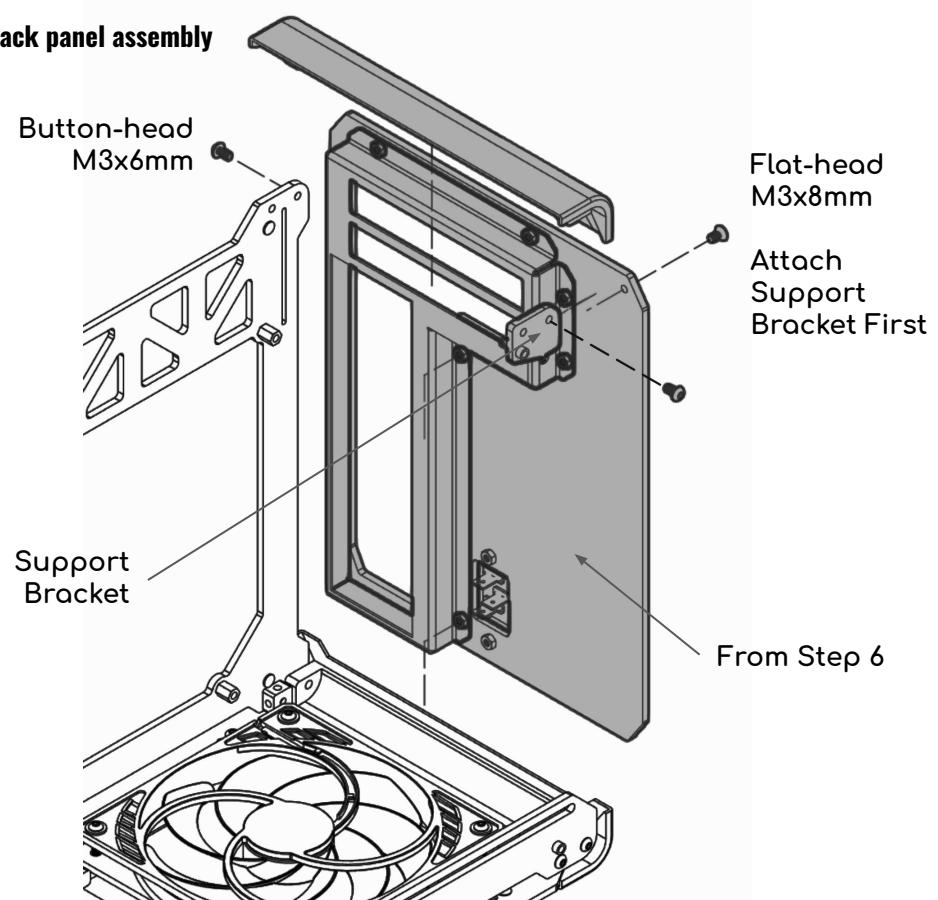
**Button-head M3x6mm x 2****Flat-head M3x8mm x 1****Support Bracket****Shell - Back Corner**

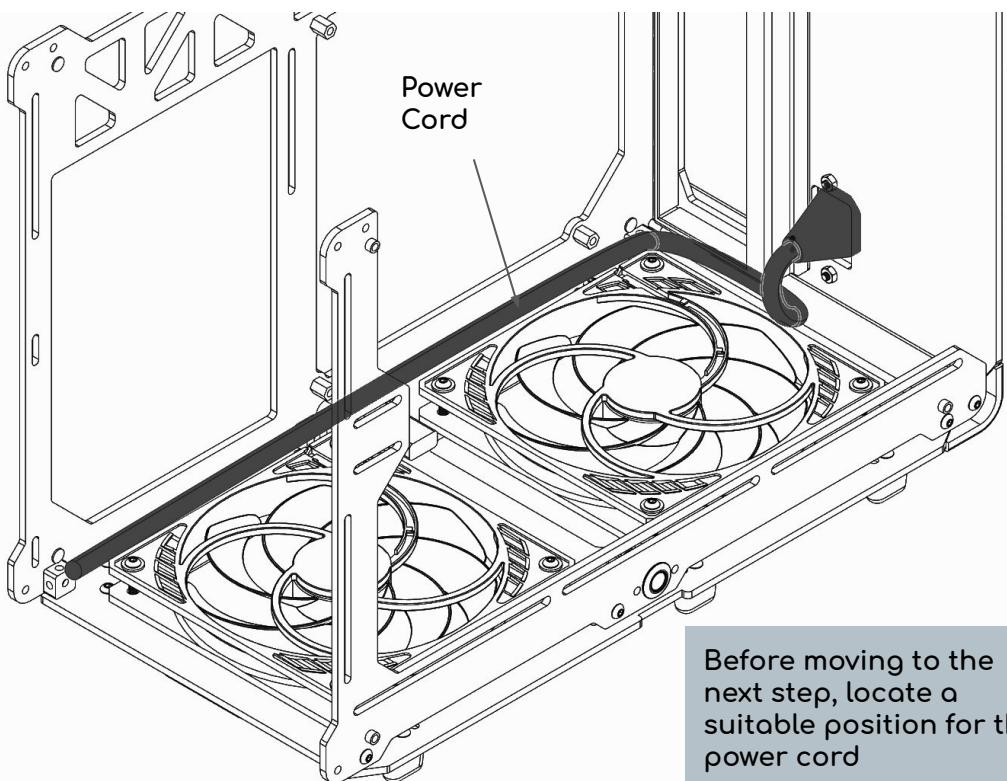
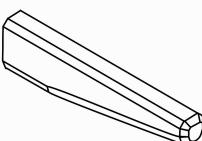
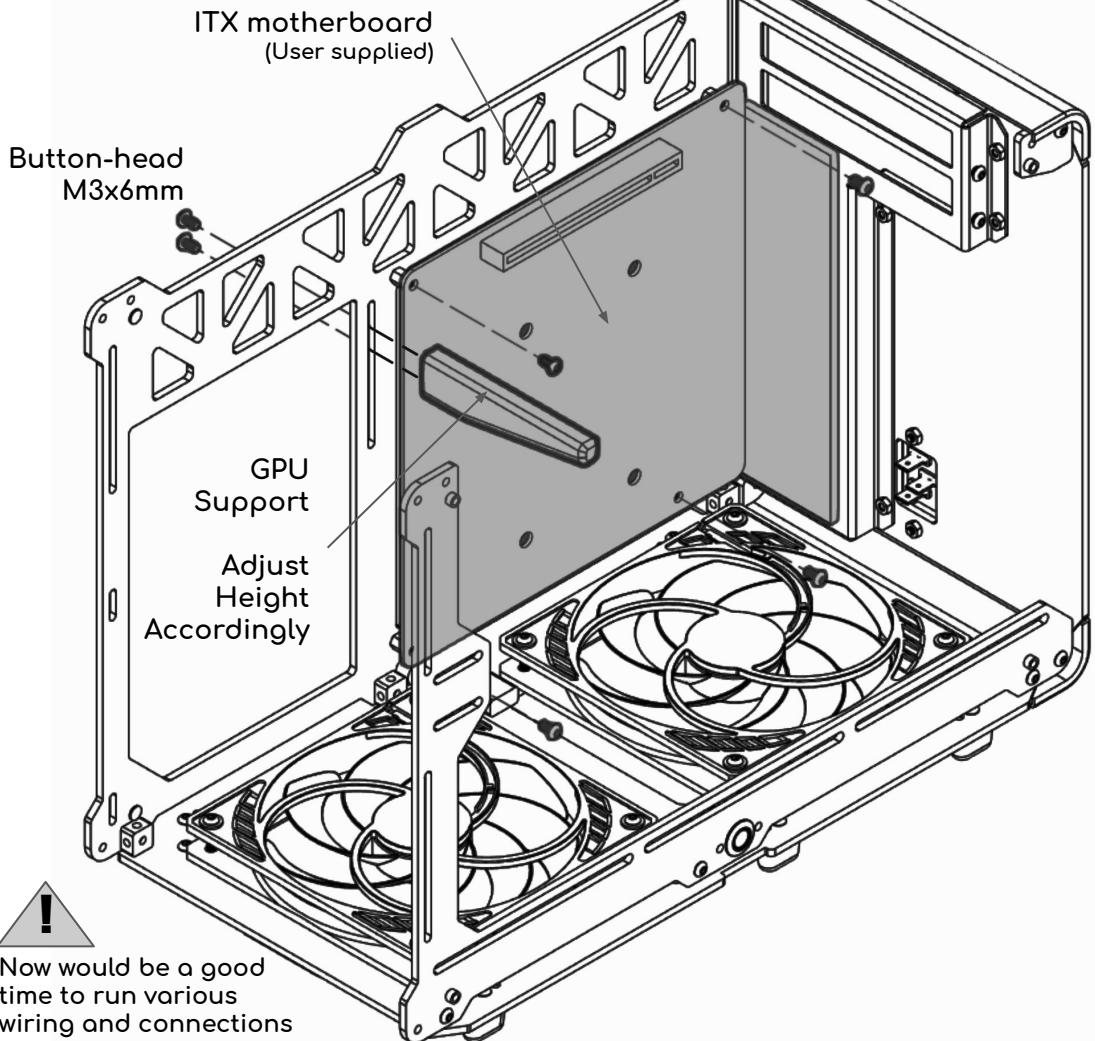
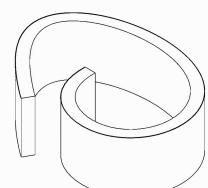
### 7 Back panel support



8

### 8 Back panel assembly



**Power cord routing****Motherboard and GPU Support****GPU Support****Button-head M3x6mm x 6****EVA foam tape**

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

Before moving to the next step, locate a suitable position for the power cord

11

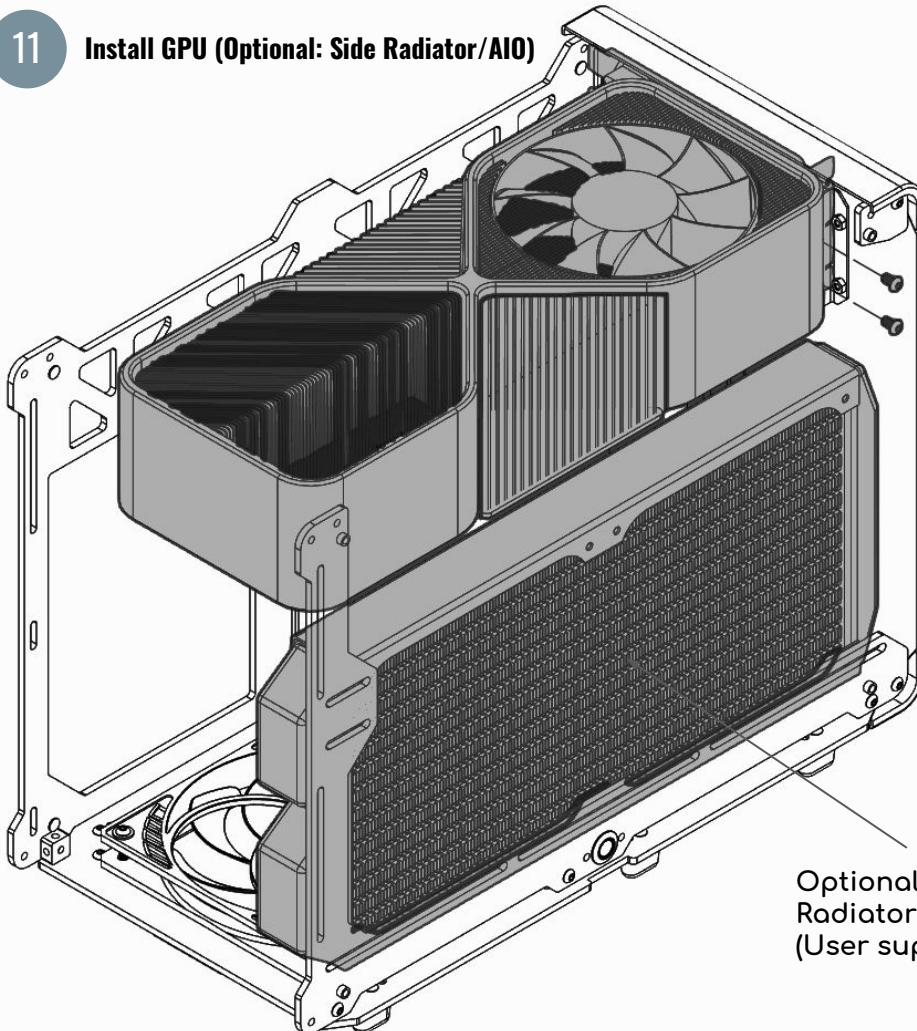


### Button-head M3x6mm x 2

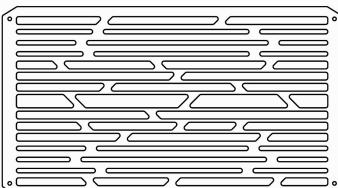
Install and route side radiator/AIO at this point with easy access to components.

11

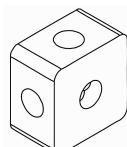
### Install GPU (Optional: Side Radiator/AIO)



12



### Shell - Top



### Square Block x 4

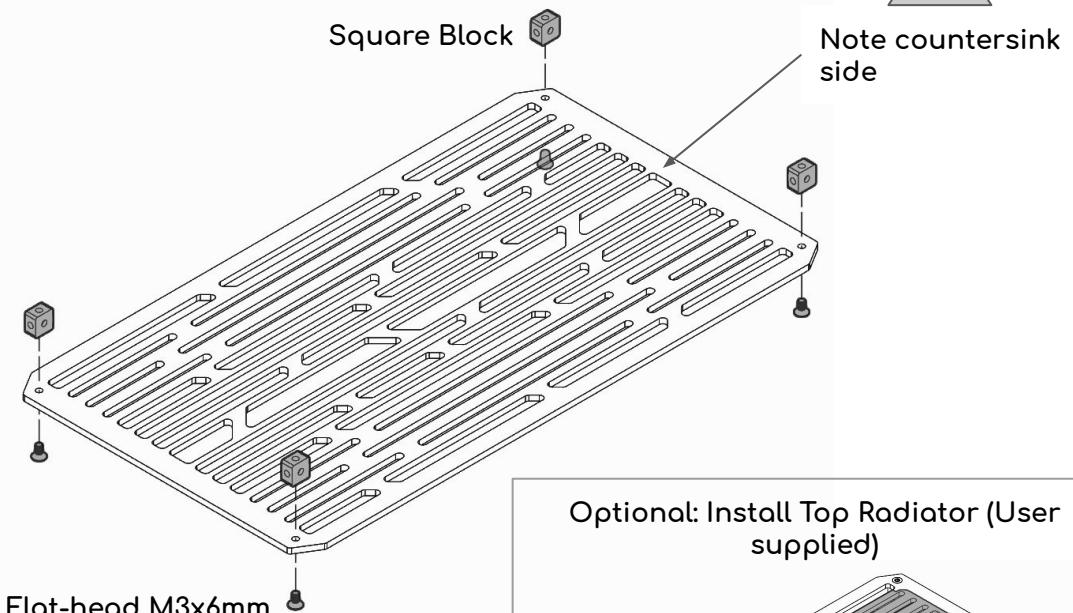


### Flat-head M3x6mm x 4

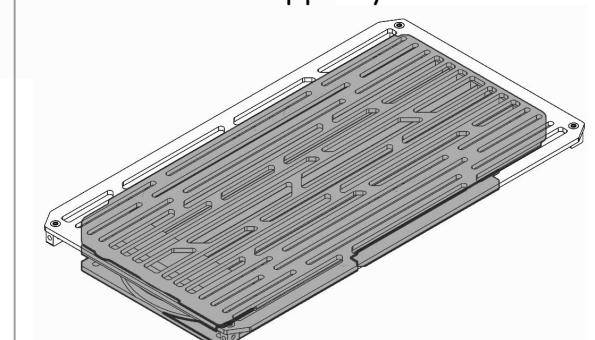
Install and route top radiator/AIO now to 'Shell - Top' if this is your desired configuration.

12

### Top panel sub-assembly



Optional: Install Top Radiator (User supplied)

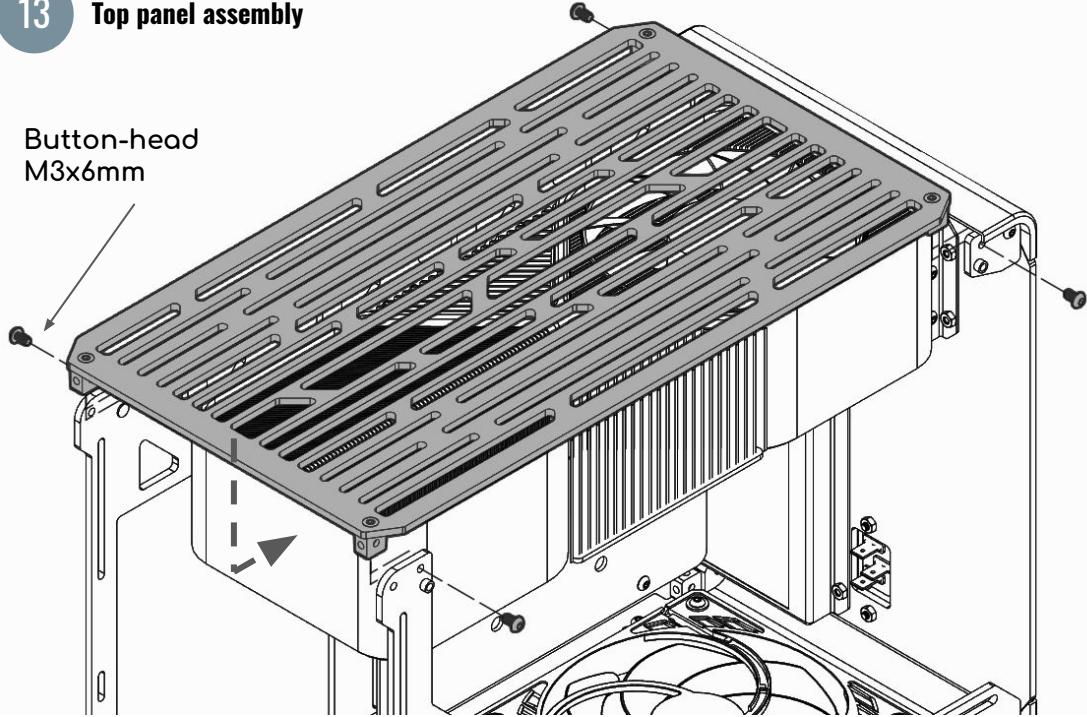


13

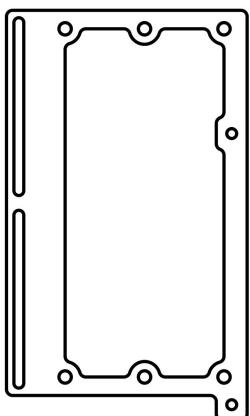


Button-head M3x6mm x 4

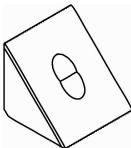
13

**Top panel assembly**Button-head  
M3x6mm

14



Frame - PSU

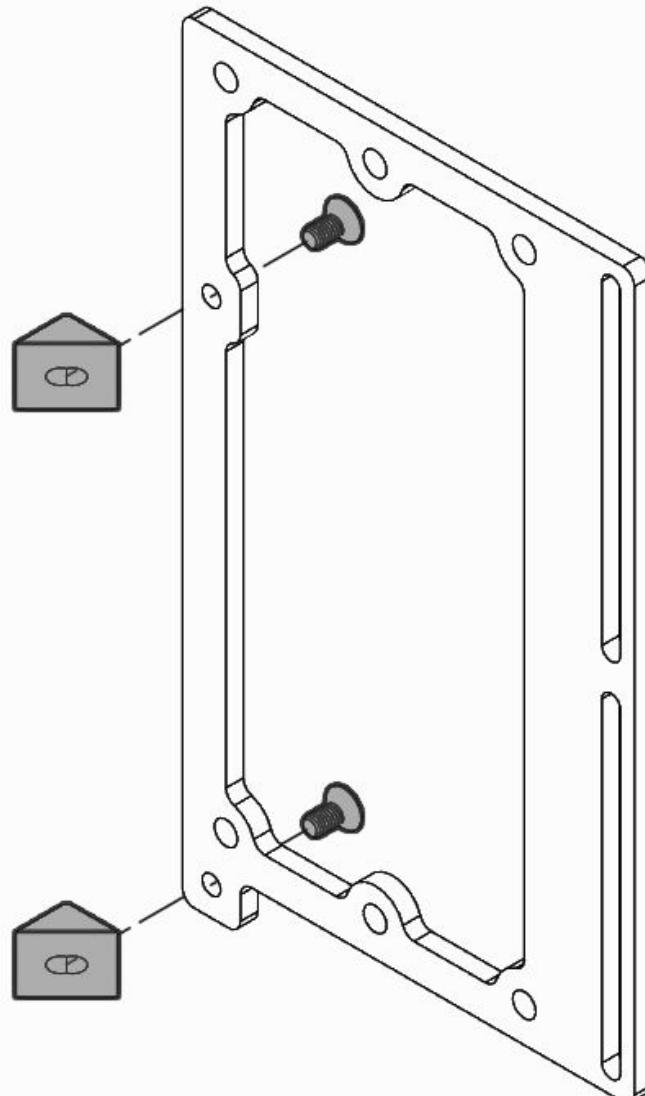


Triangle Block x 2



Flat-head M3x6mm x 2

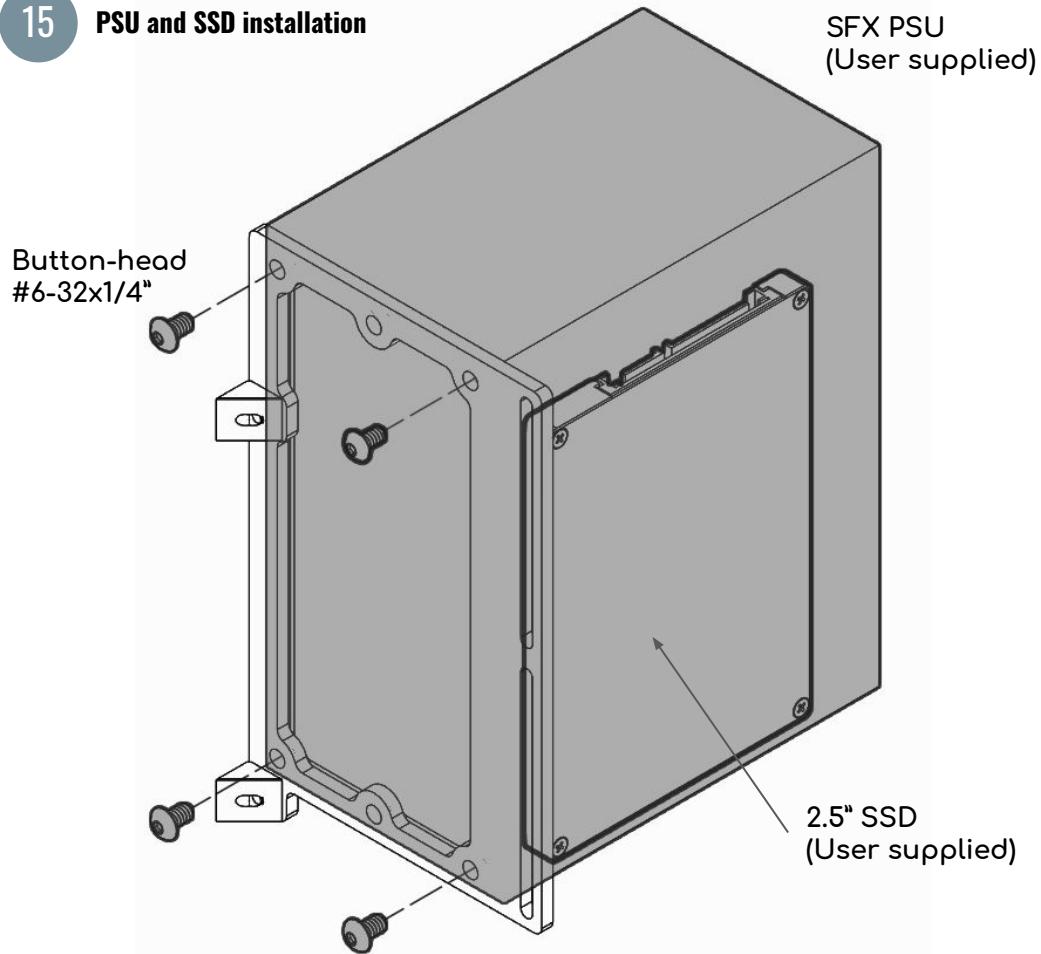
14

**PSU mount sub-assembly**

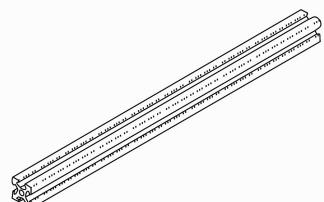


**Button-head  
#6-32x1/4" x 4**

### PSU and SSD installation

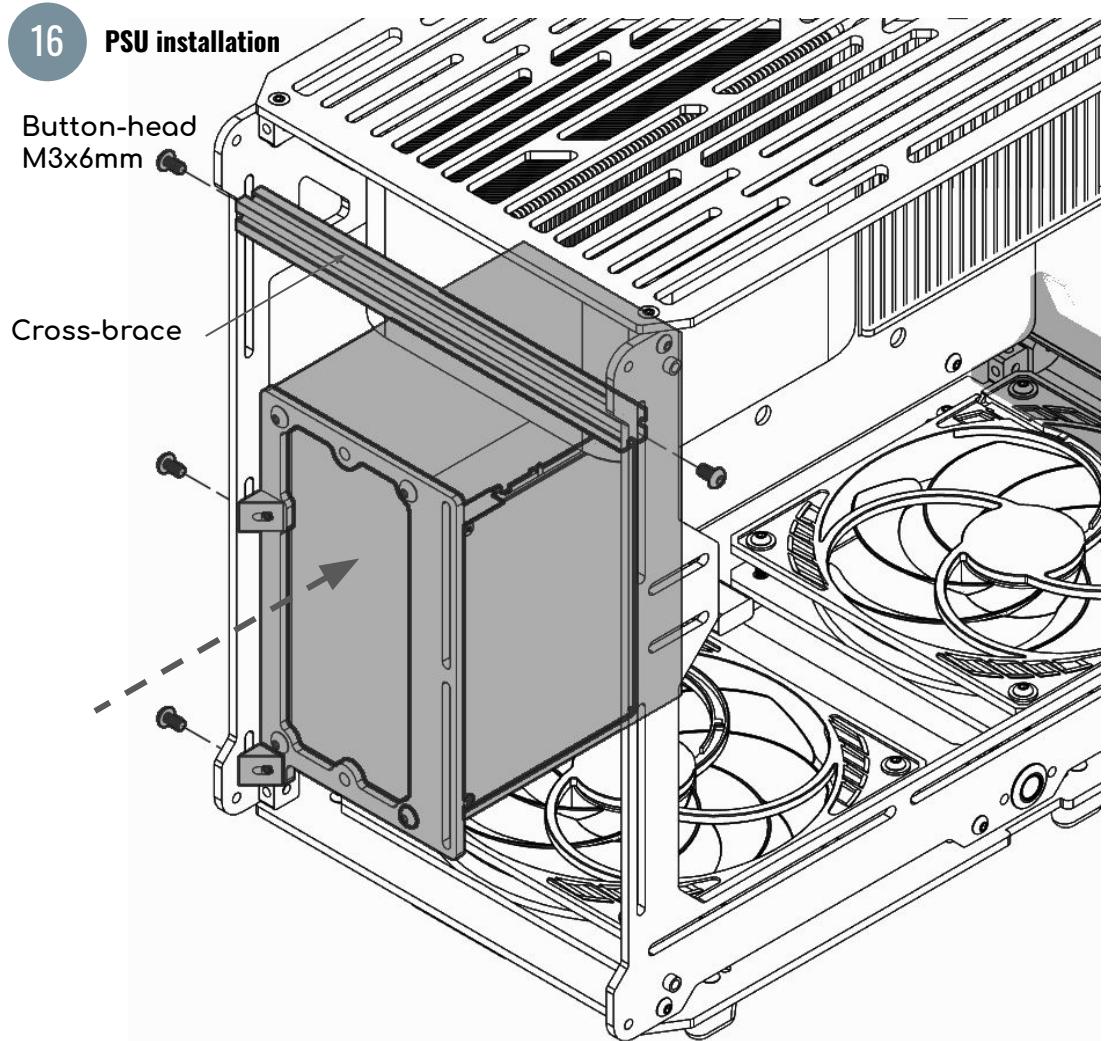


**Button-head M3x6mm x 4**

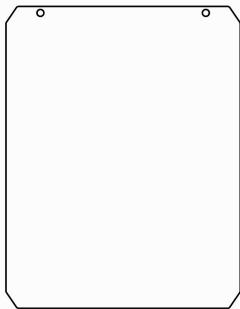
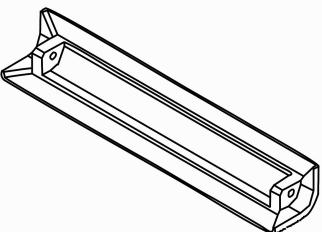


**Cross-brace**

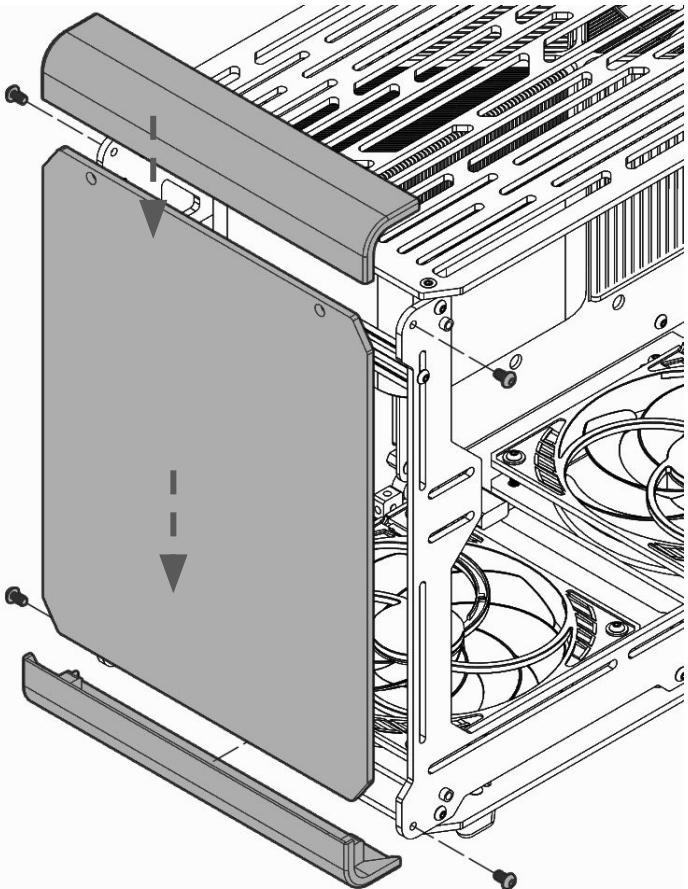
### PSU installation



17

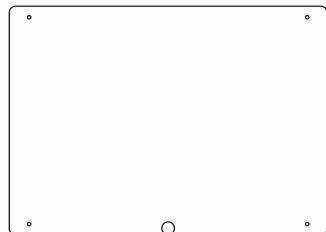
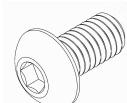
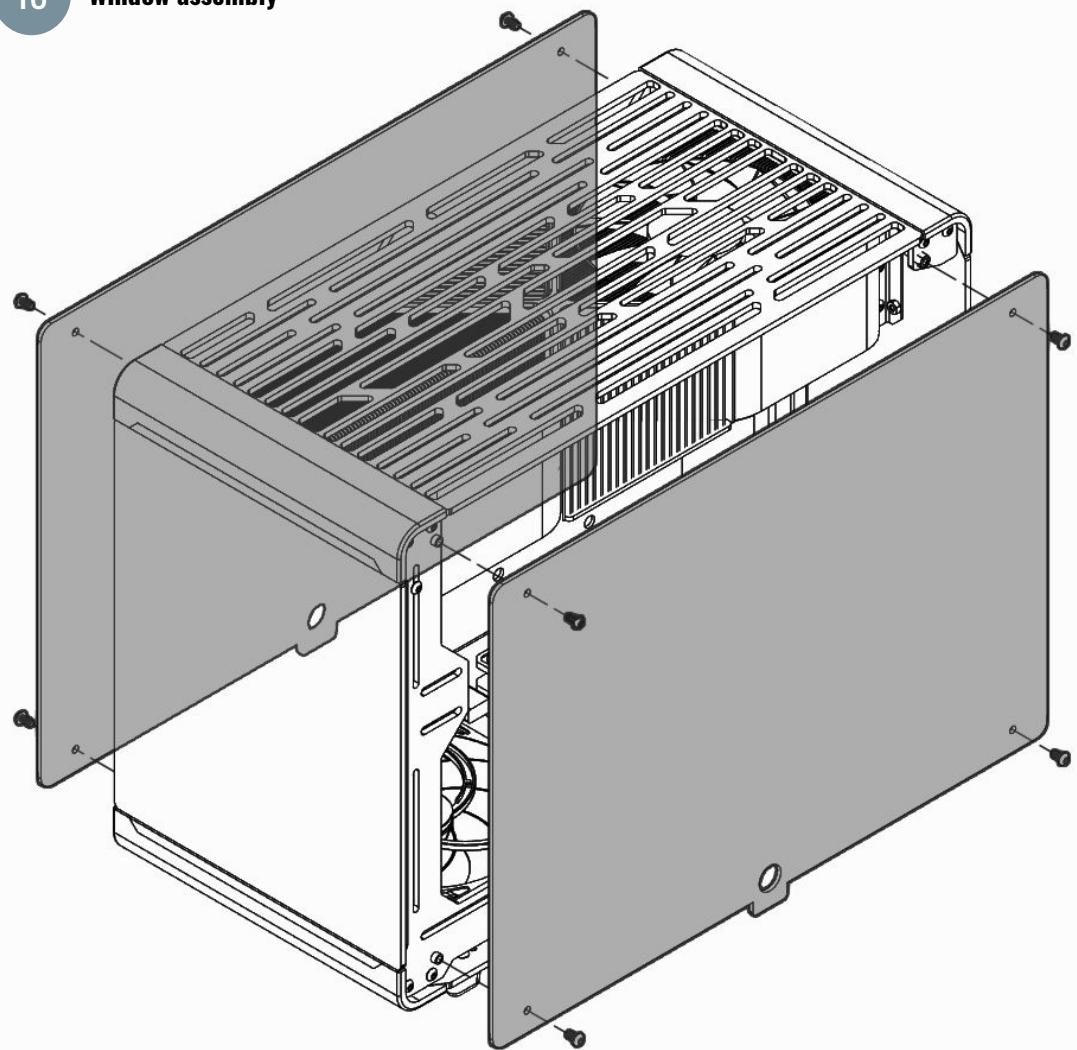
**Shell - Front****Shell - Front Corner x 2****Button-head M3x6mm x 4**

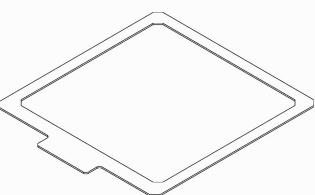
17

**Front panel assembly**Button-head  
M3x6mm

18

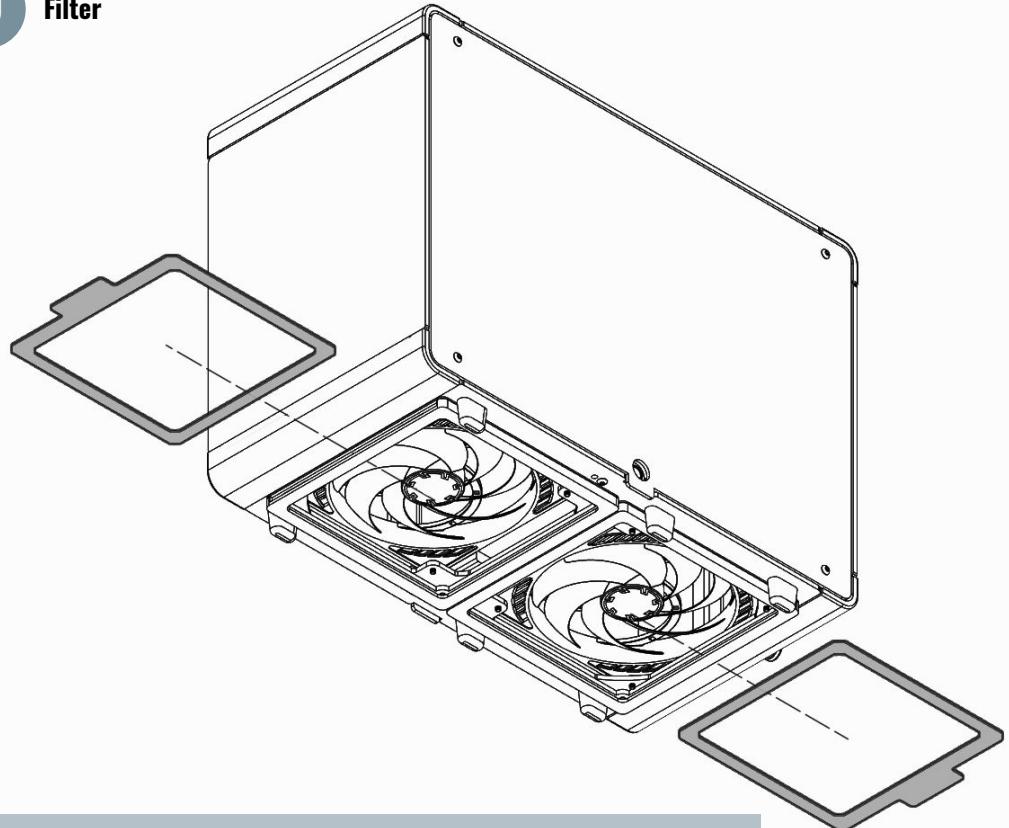
18

**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

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