

VALKPC
.COM

VF-1 User Manual

Specifications

Volume

14.3L

Size (L x W x H)

330mm x 255mm x 170mm

Size including feet (L x W x H)

330mm x 270mm x 170mm

Supports

Motherboard

Mini-ITX, Mini-DTX

Power supply

SFX only

Drives

3 x 2.5" SSD

I/O

1 x USB-C Type-C 3.1 Gen 2

Fans

2 x 120/140mm intake standard 25mm fan

Additional fans attachment to radiator possible (see compatibility guide)

CPU cooler

Max height: 140mm when side radiator not used

GPU

4-slot GPU (Beast mode), 3-slot GPU (Classic, Reverse mode)

Max length: 310mm

Max height: 149mm

Radiator (Top)

240mm type supported

Radiator (Side)

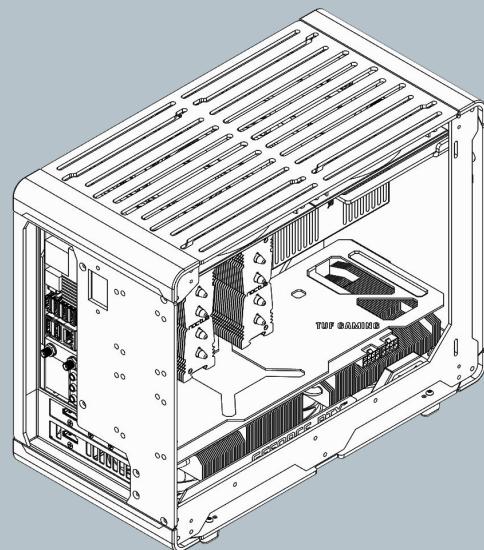
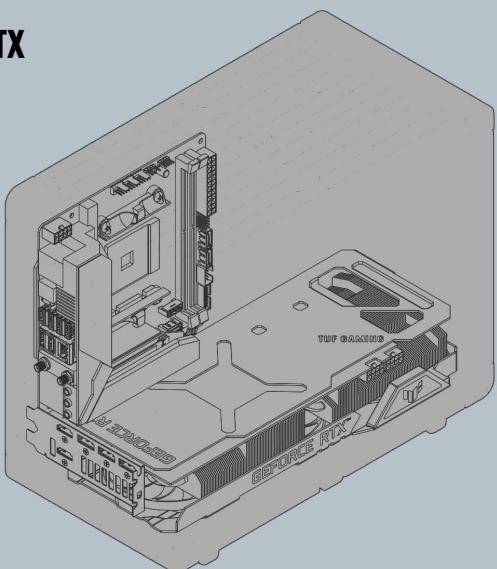
240mm or 280mm type supported

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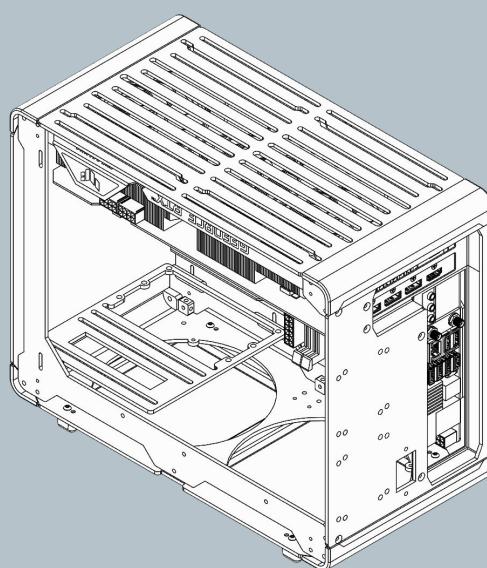
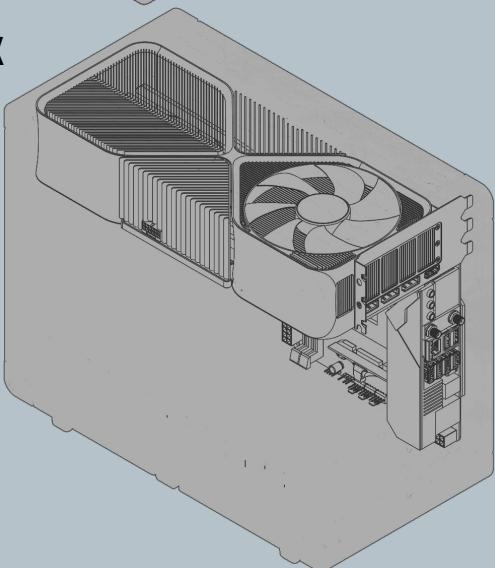
All possible layouts

VF-1 can be configured to all popular ITX configurations with some simple rearrangements

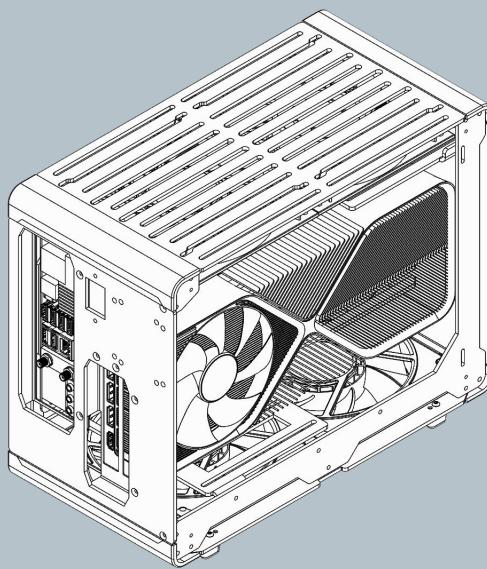
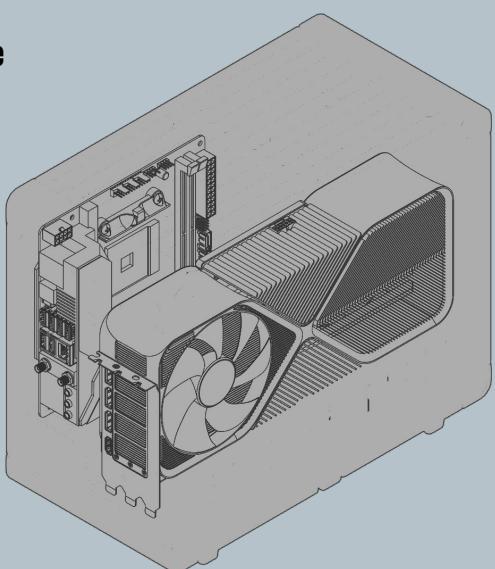
Classic ITX



Reverse ITX



Beast mode



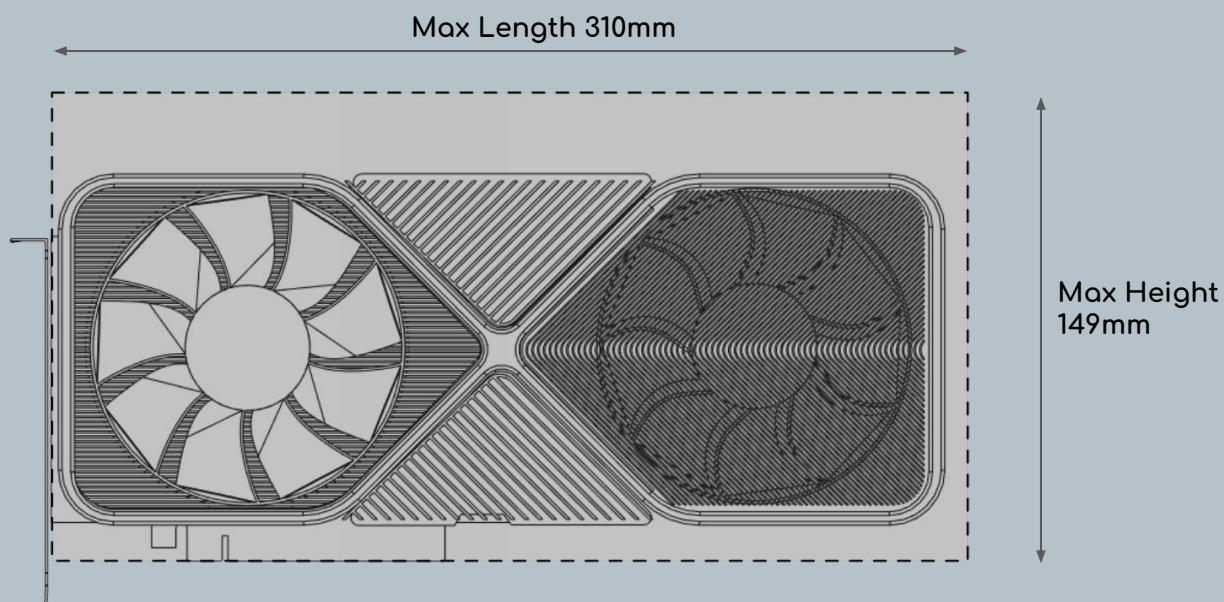
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Compatibility

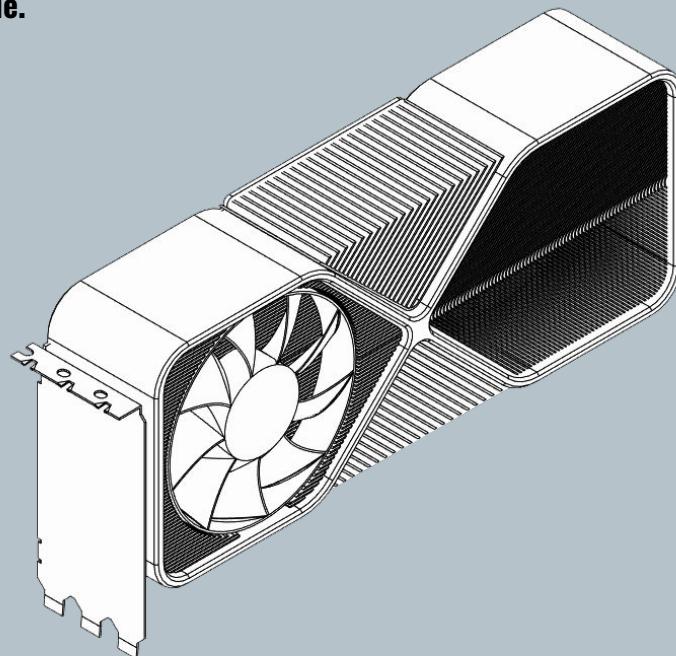
GPU

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

Max supported GPU dimension, 310mm 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 4-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™ Founders Edition as the 3rd slot has no ports. **Only 3-slots supported for Classic and Reverse mode.**



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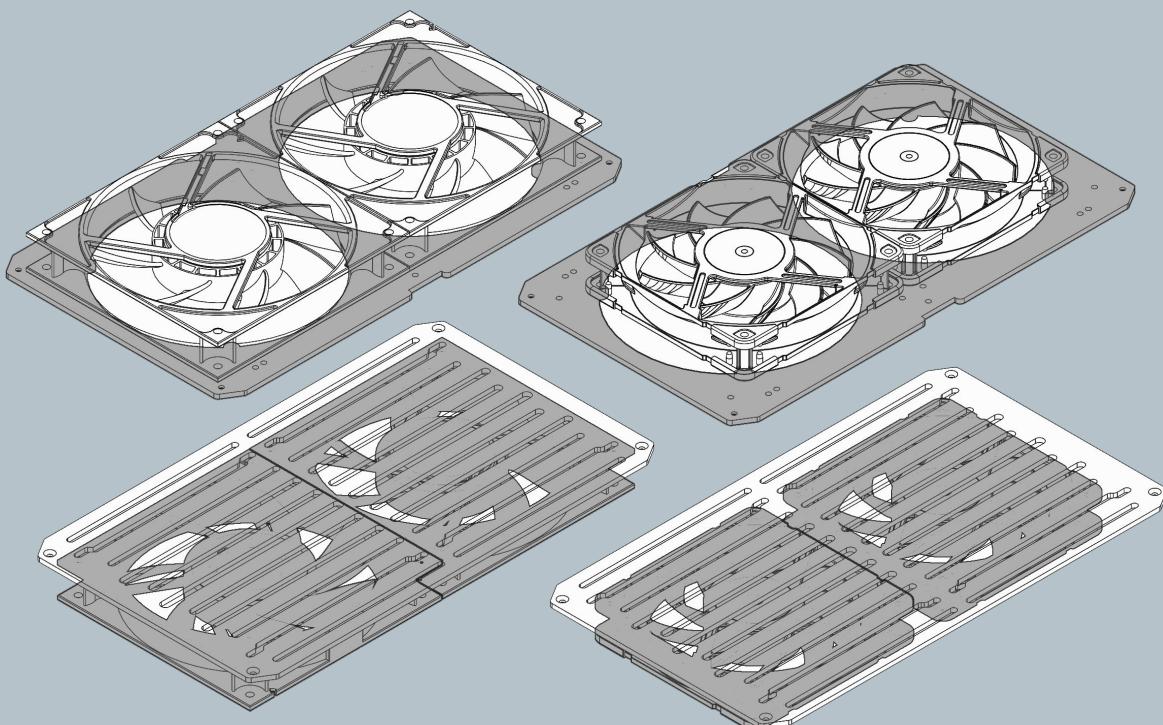
Compatibility

CPU

Max height 140mm when side radiator not used.

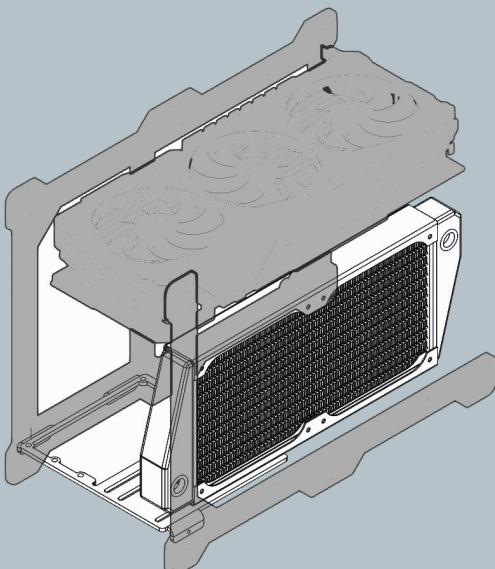
Fan mounts

120mm or 140mm fans can be mounted on the **base** or **top** panels.



Radiator

240mm radiators can be mounted on the **base** or **top** panels in positions same as fans. In addition, radiators can also be side mounted by resting on the PSU panel.



Radiator thickness

When used together with fans, total radiator thickness must be carefully considered.

Side mounted radiator allows for the biggest flexibility with standard thickness fans and radiator.

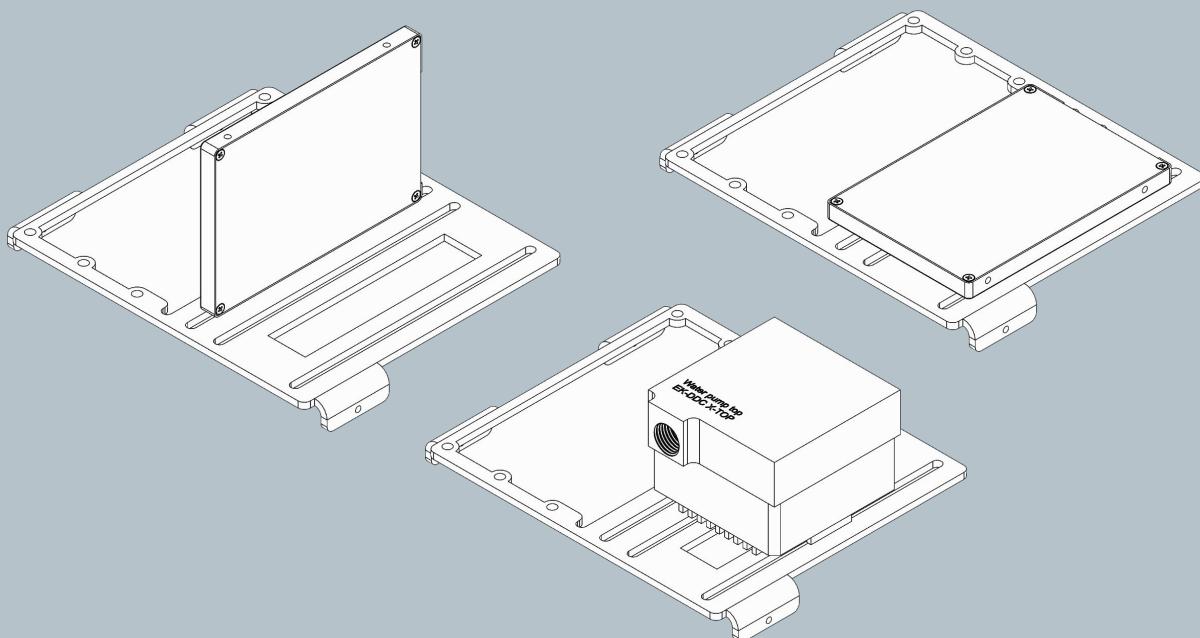
For other positions, consider using slim fans and radiators.

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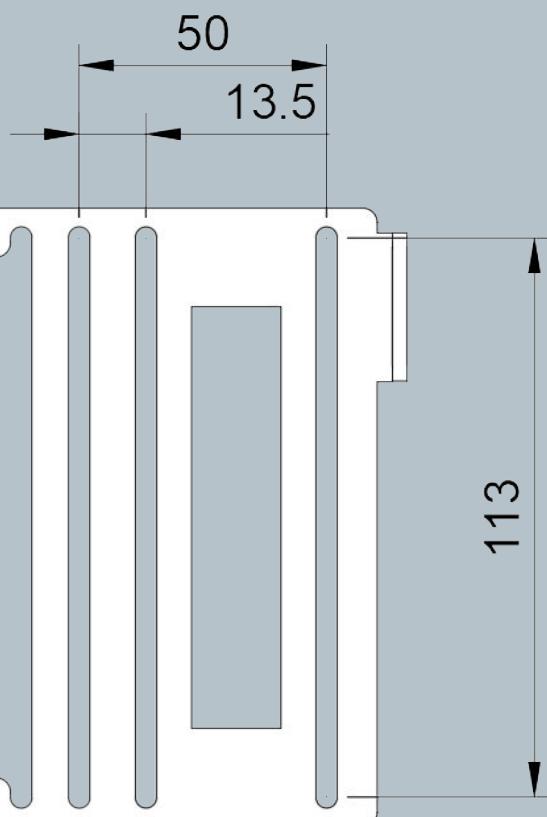
Compatibility

PSU Mount

The PSU mount is a multipurpose panel and can be used for mounting SSD drives or pump.



Reference dimension of mount positions



Read before assembly

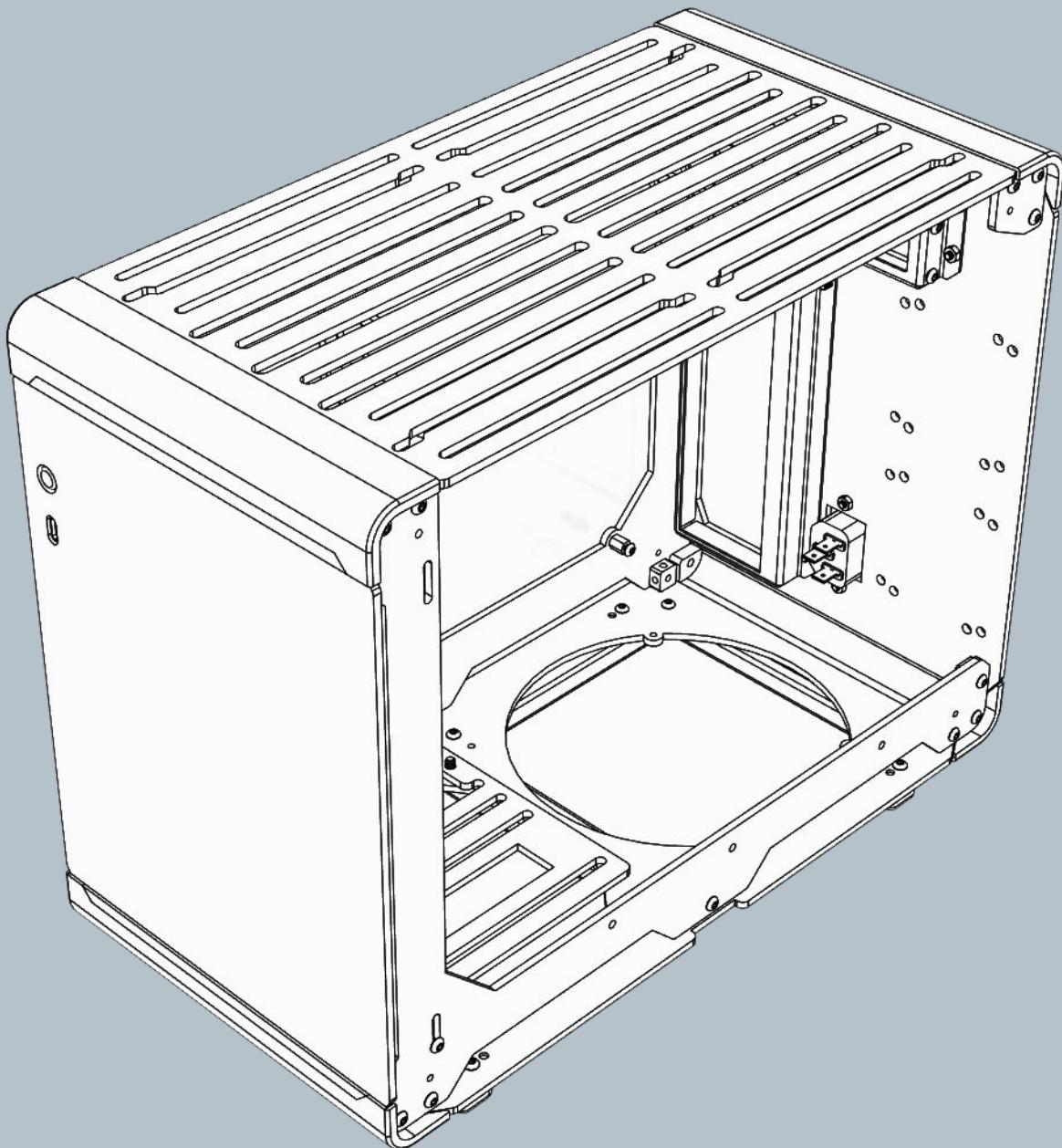
- ★ Study the instructions thoroughly before assembly.
- ★ There are many small screws, nuts and similar parts. Assembly them carefully referring to the drawings.
- ★ It is advised to assembly each step exactly as shown.
- ★ This product is designed to be easy to assemble. But this is not a toy and should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

3D printed parts

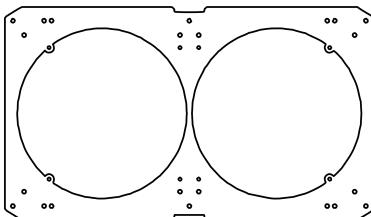
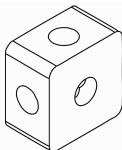
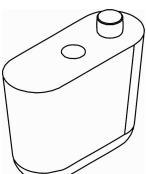
- ★ This product contains 3D printed parts.
- ★ 3D printed parts included are printed at the highest quality settings. But due to the nature of such parts, small surface blemishes are unavoidable and do not affect performance.

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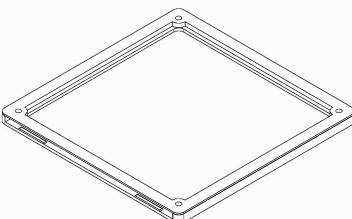
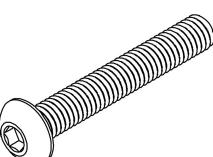
Reverse ITX



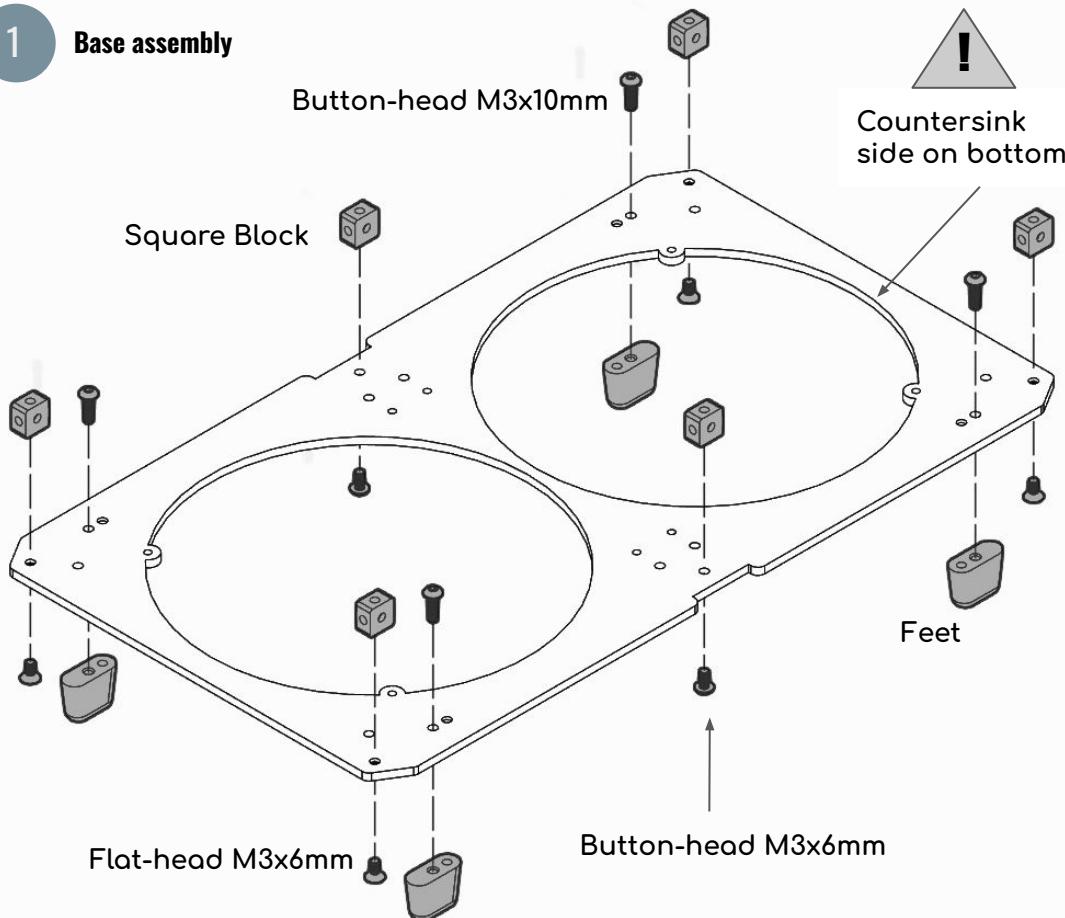
1

**Outer - Base****Square Block x 6****Flat-head M3x6mm x 4****Button-head M3x6mm x 2****Feet x 4****Button-head M3x10mm x 4**

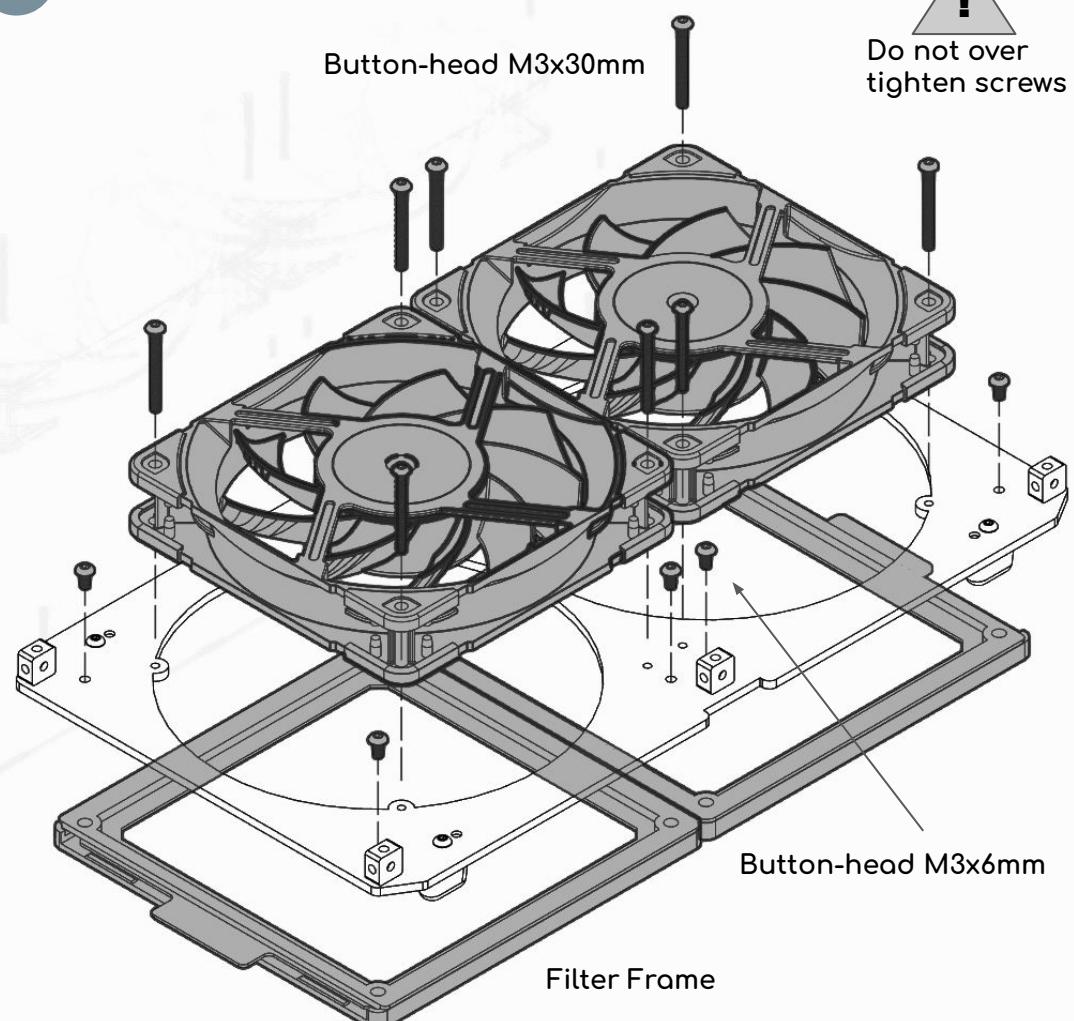
2

**Filter Frame x 2****Button-head M3x6mm x 8****Button-head M3x30mm x 8**

1

Base assembly

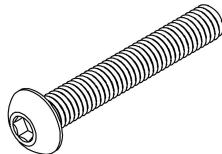
2

OPTION: Attaching filter frames and fans (120mm)

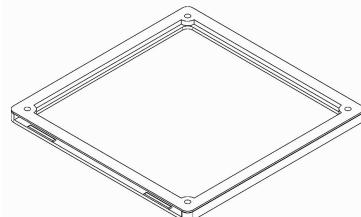
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3

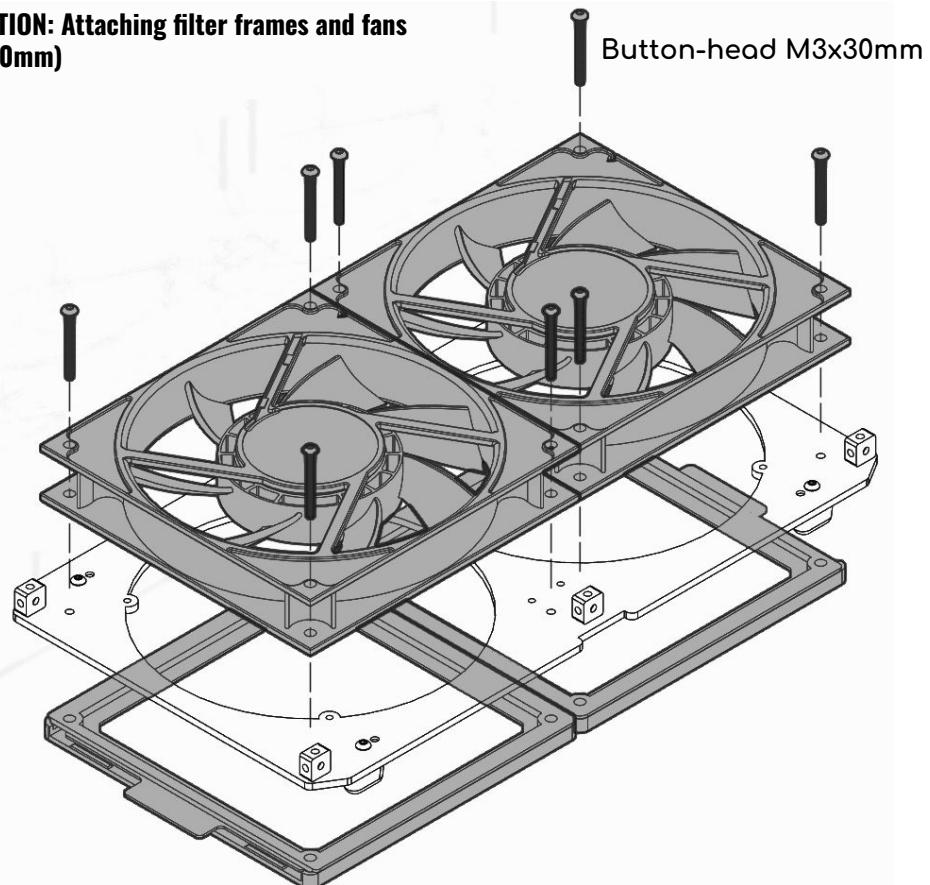
**OPTION: Attaching filter frames and fans
(140mm)**



Button-head M3x30mm x 8



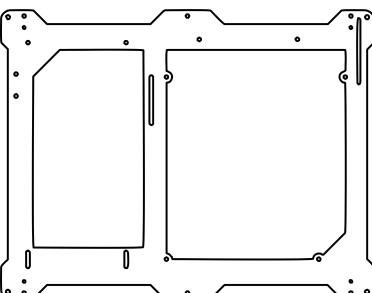
Filter Frame x 2



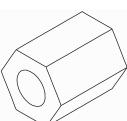
4

4

Attach motherboard standoff



Inner - Main



7mm Standoff x 4

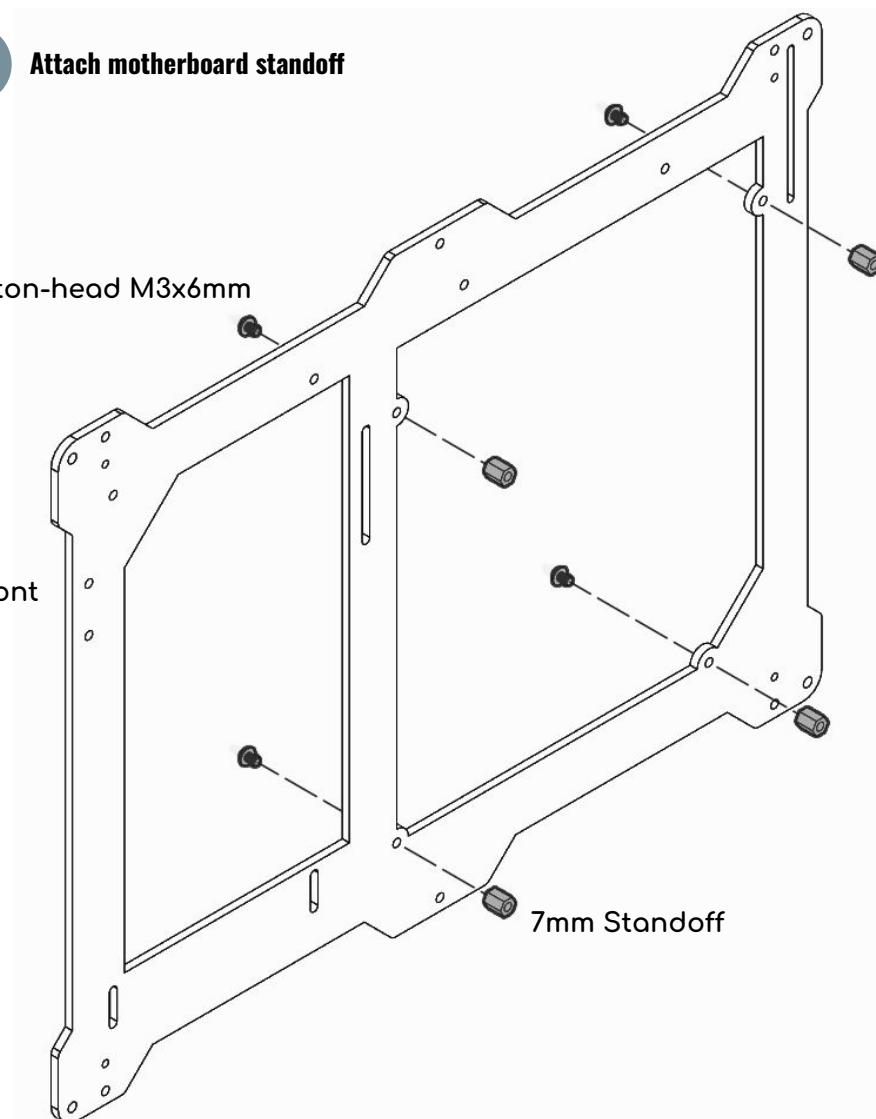


Button-head M3x6mm x 4

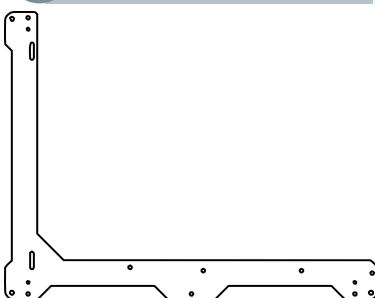
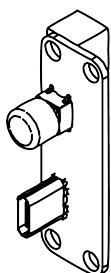
Button-head M3x6mm

Front

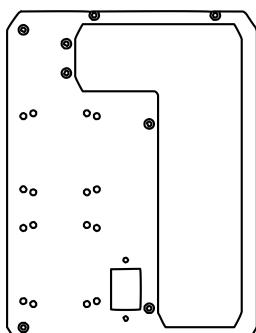
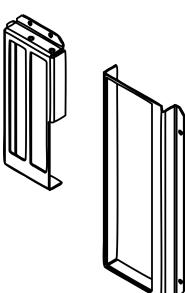
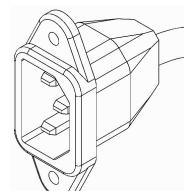
7mm Standoff



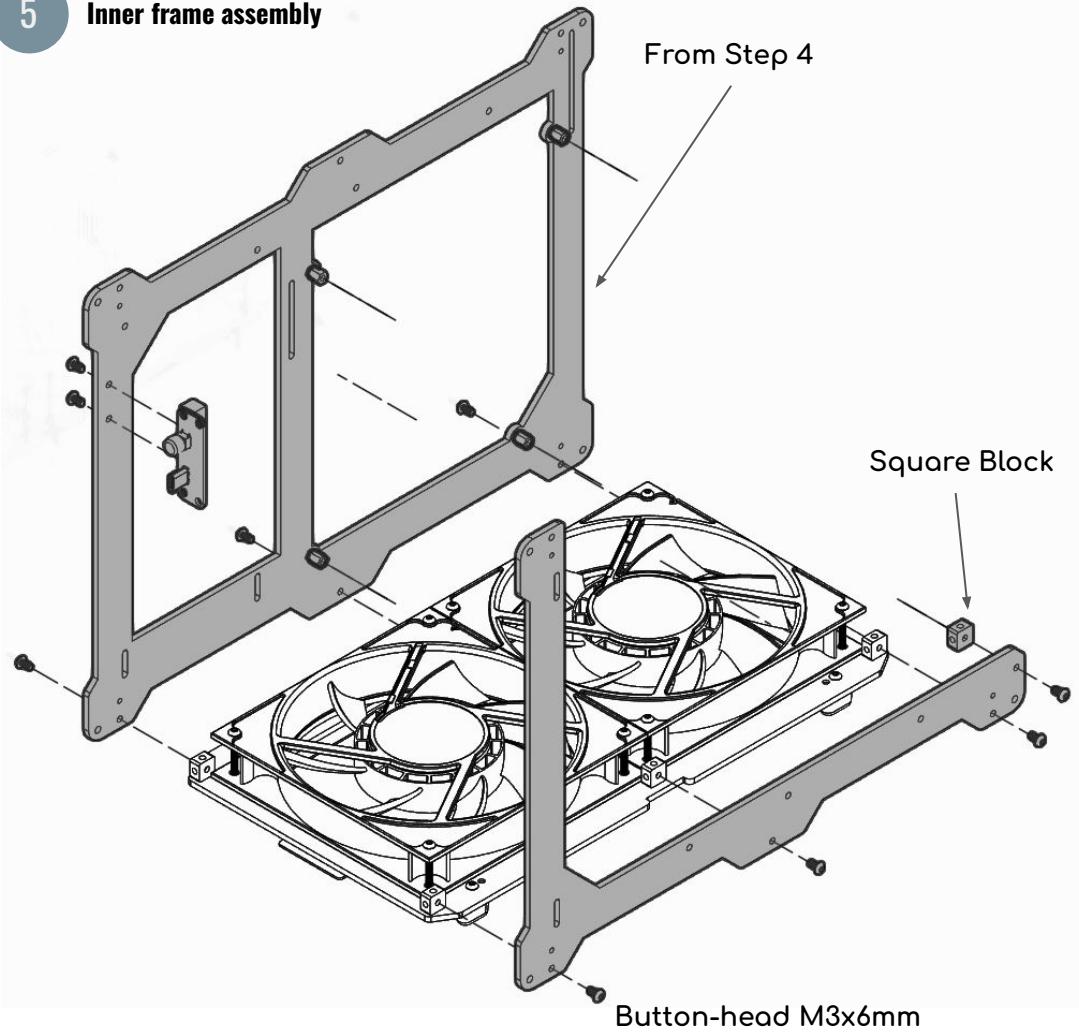
5

**Inner- Sub****Button-head M3x6mm x 6****USB Switch
Module**

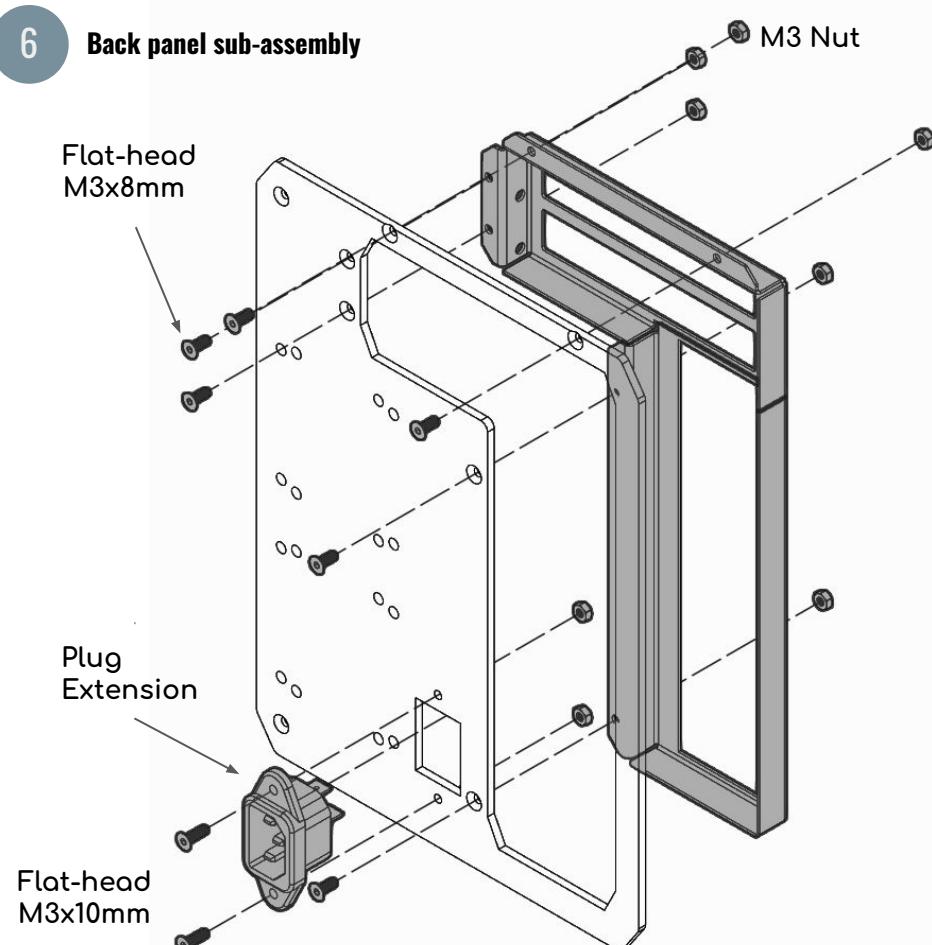
6

**Outer - Back****IO Panel x 1****Flat-head M3x8mm x 6****Flat-head M3x10mm x 2****IEC320 C14 x 1****M3 Nut x 8**

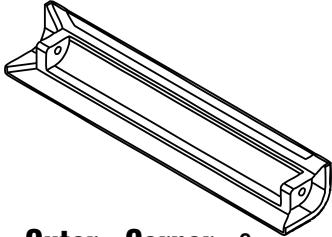
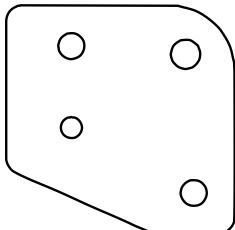
5

Inner frame assembly

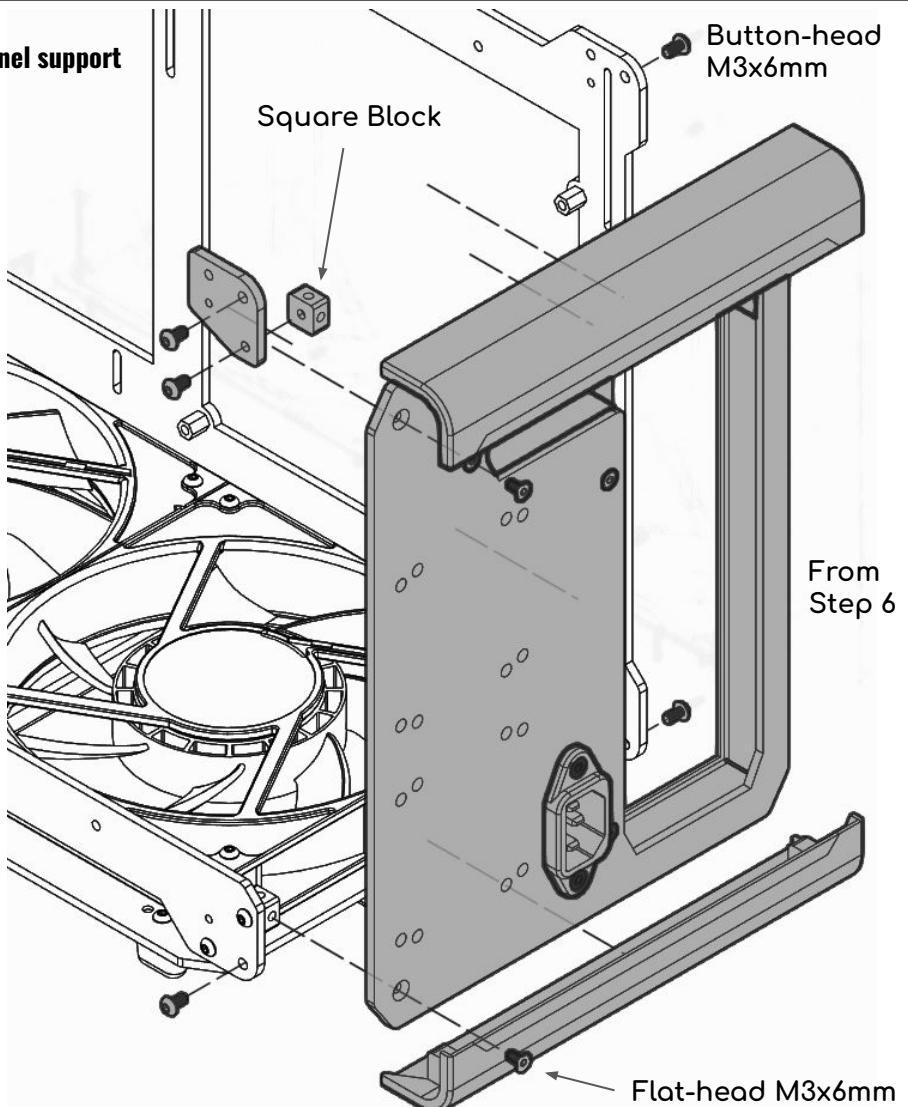
6

Back panel sub-assembly

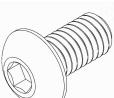
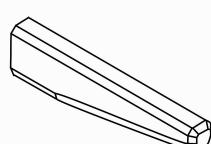
7

**Outer - Corner x 2****Inner - Support****Button-head M3x6mm x 5****Flat-head M3x6mm x 2**

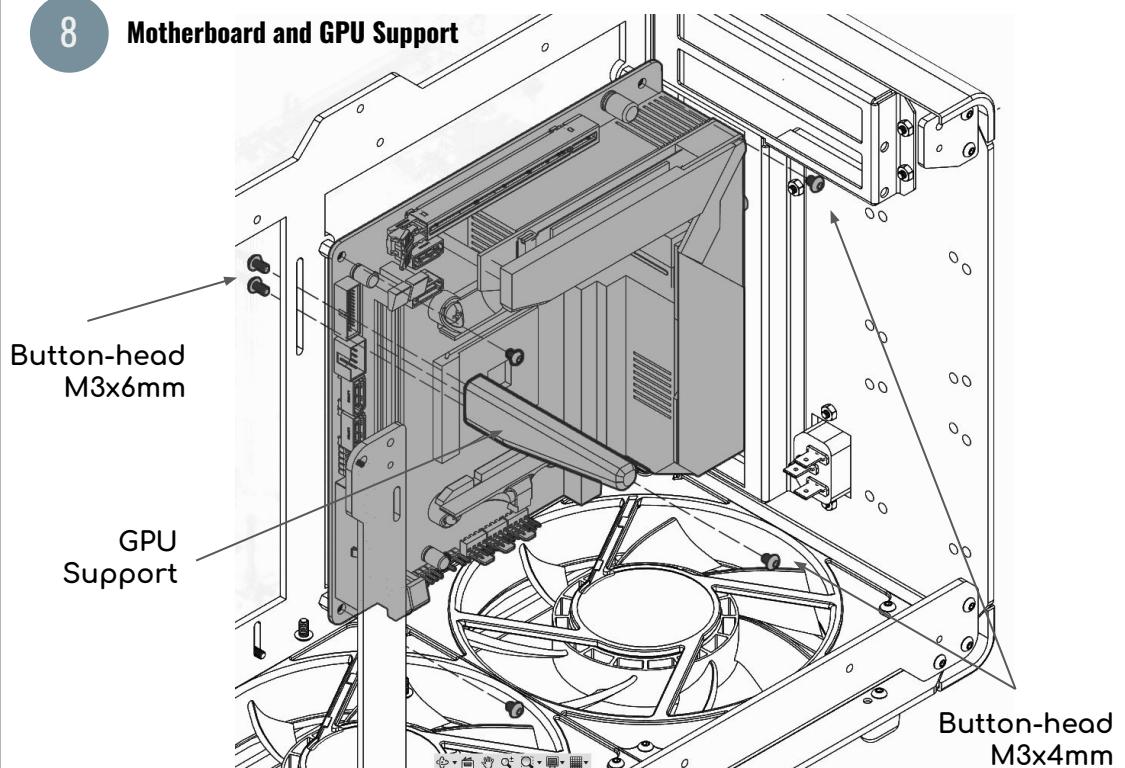
7

7 Back panel support

8

**Button-head M3x6mm x 2****Button-head M3x4mm x 4****GPU Support**

8

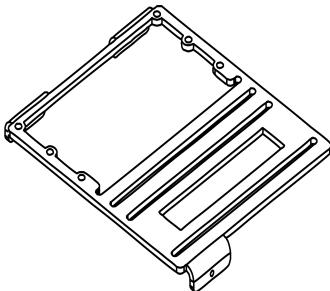
8 Motherboard and GPU Support

★ Shorter screws for motherboard

9



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



Inner - PSU

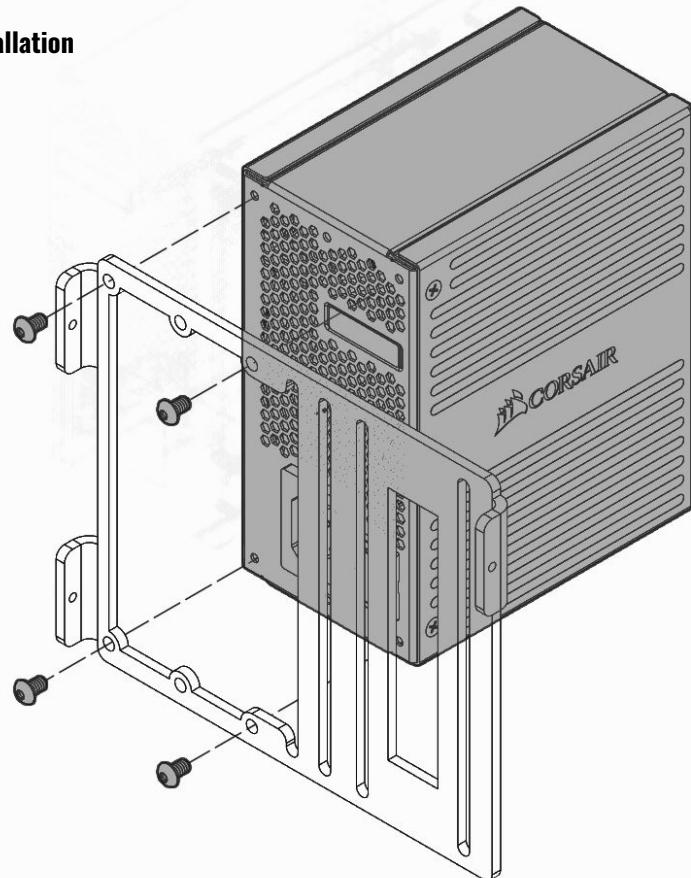
10



Button-head M3x6mm x 3

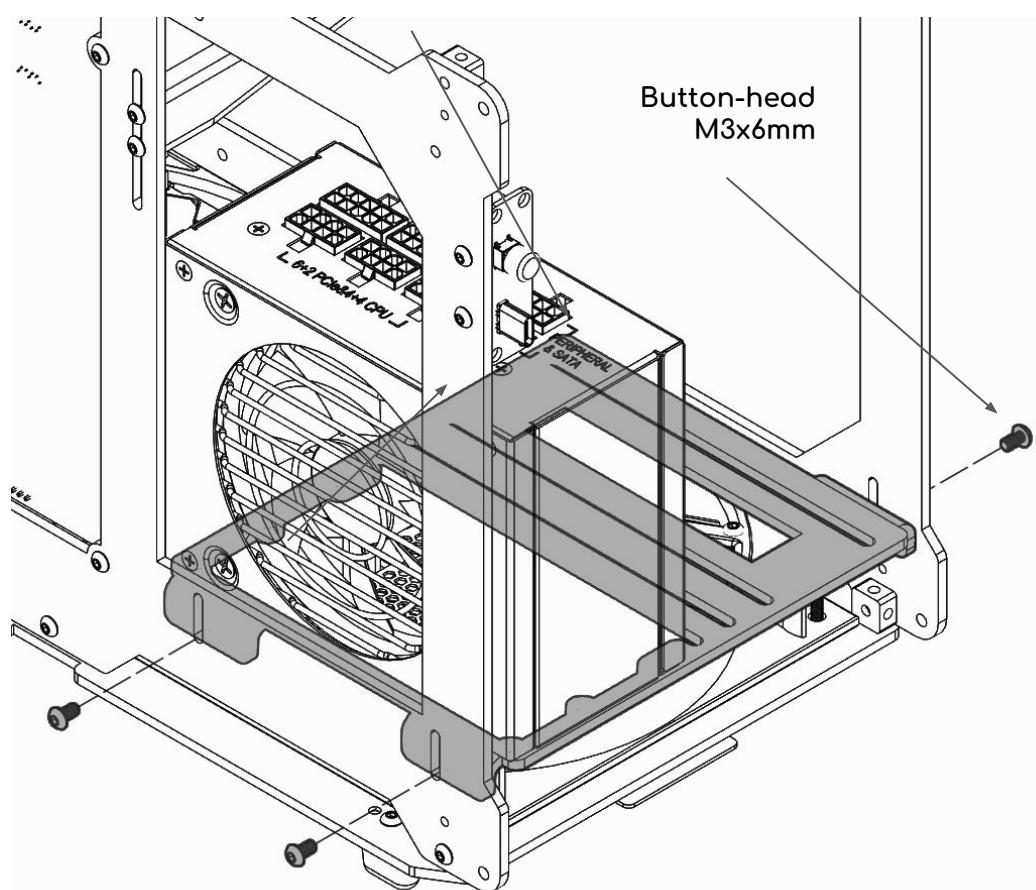
9

PSU installation



10

PSU installation

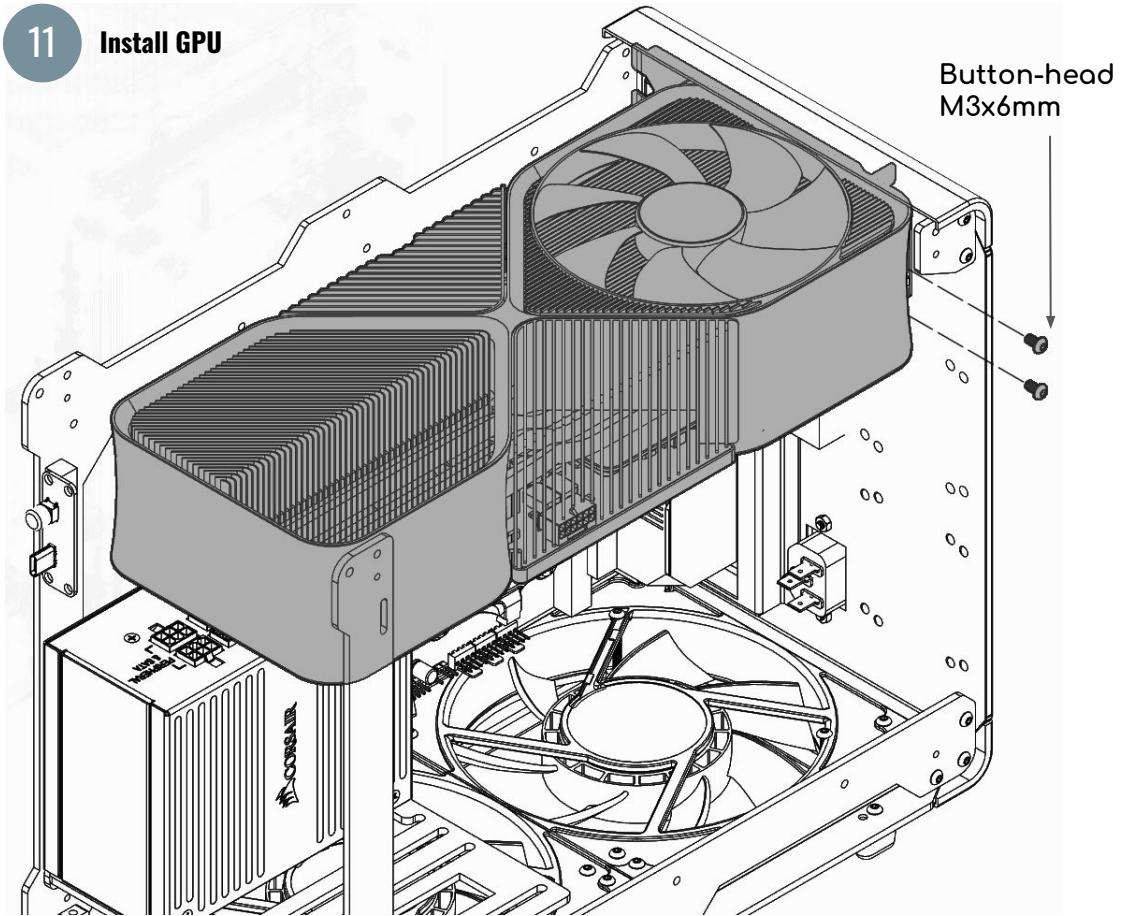


Now would be a good time to run various wiring and connections in the case

11

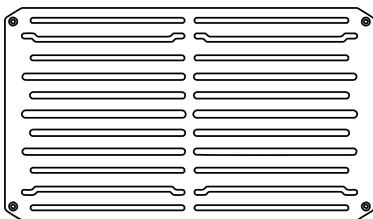
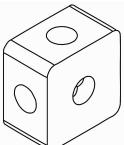
**Button-head M3x6mm x 2**

11

Install GPU

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

12

**Outer - Top****Square Block x 4****Flat-head M3x6mm x 4**

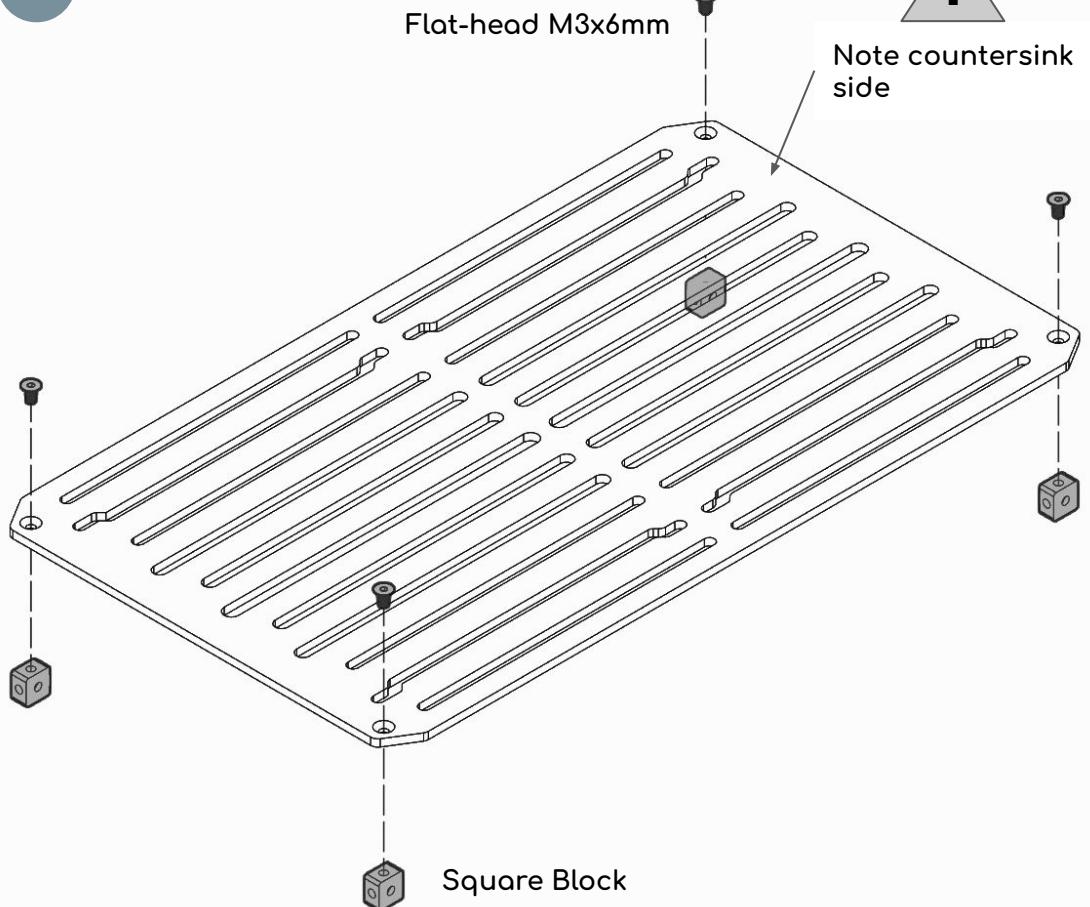
12

Top panel sub-assembly

Flat-head M3x6mm



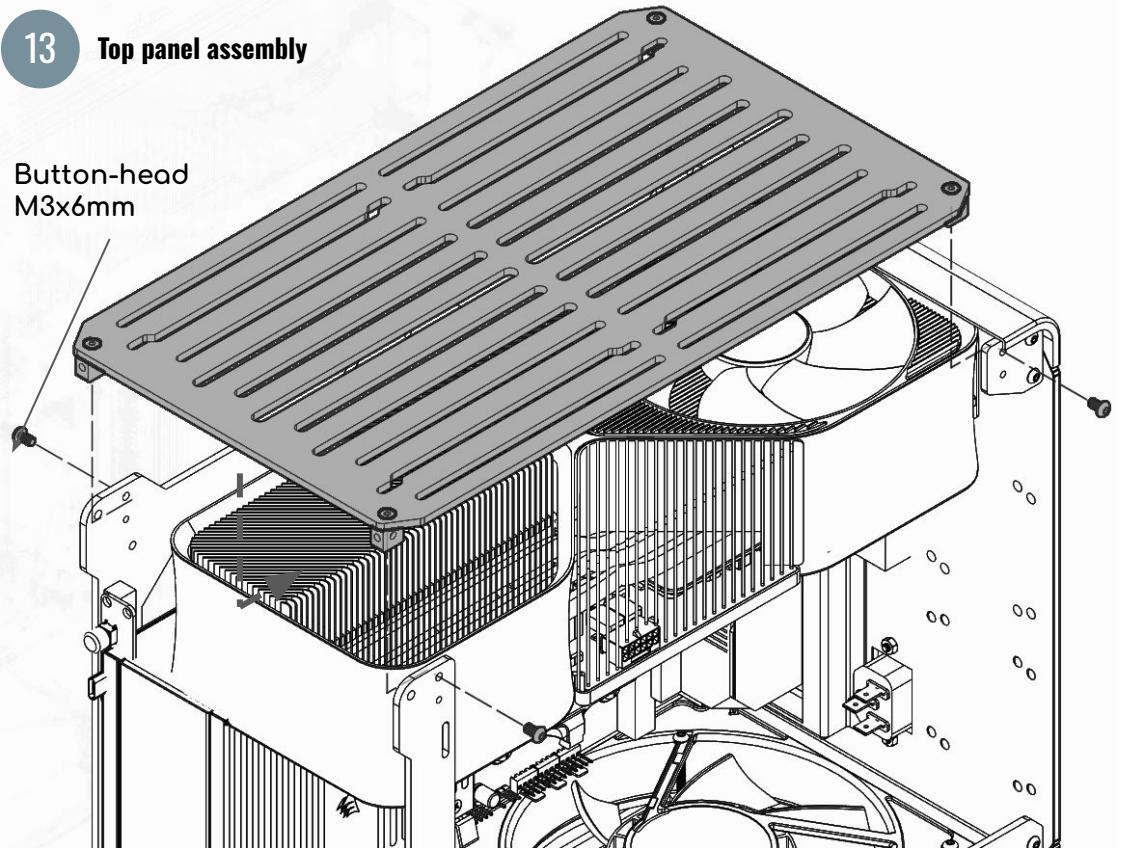
Note countersink side



13

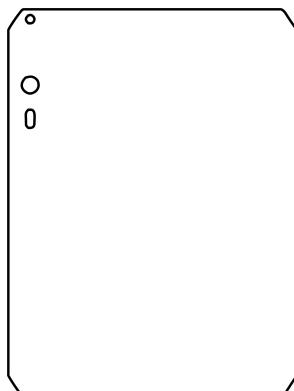
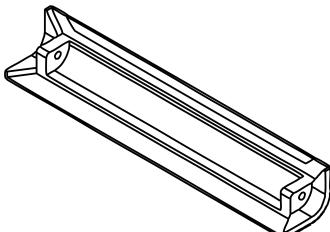
**Button-head M3x6mm x 4**

13

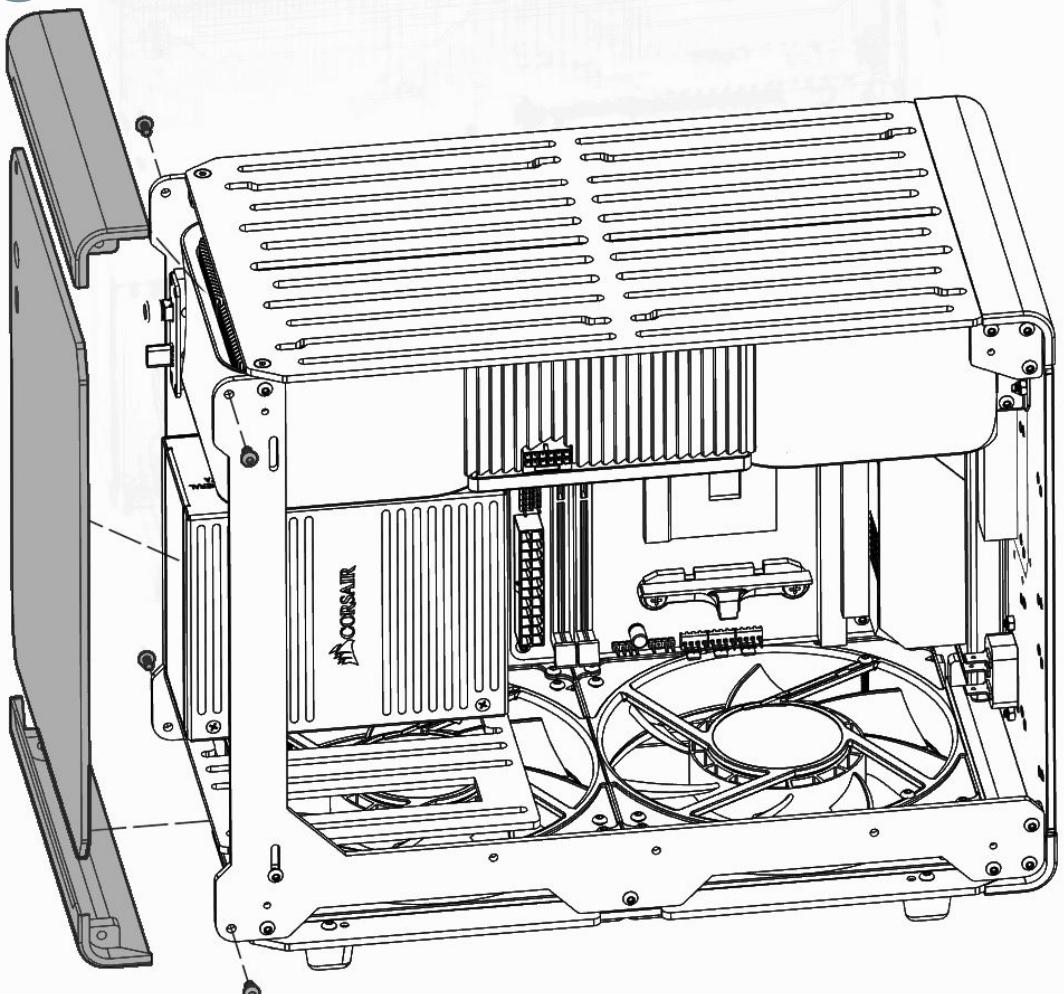
Top panel assemblyButton-head
M3x6mm

- ★ Lay the top panel down first and slide backwards into the corner cover

14

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

14

Front panel assembly

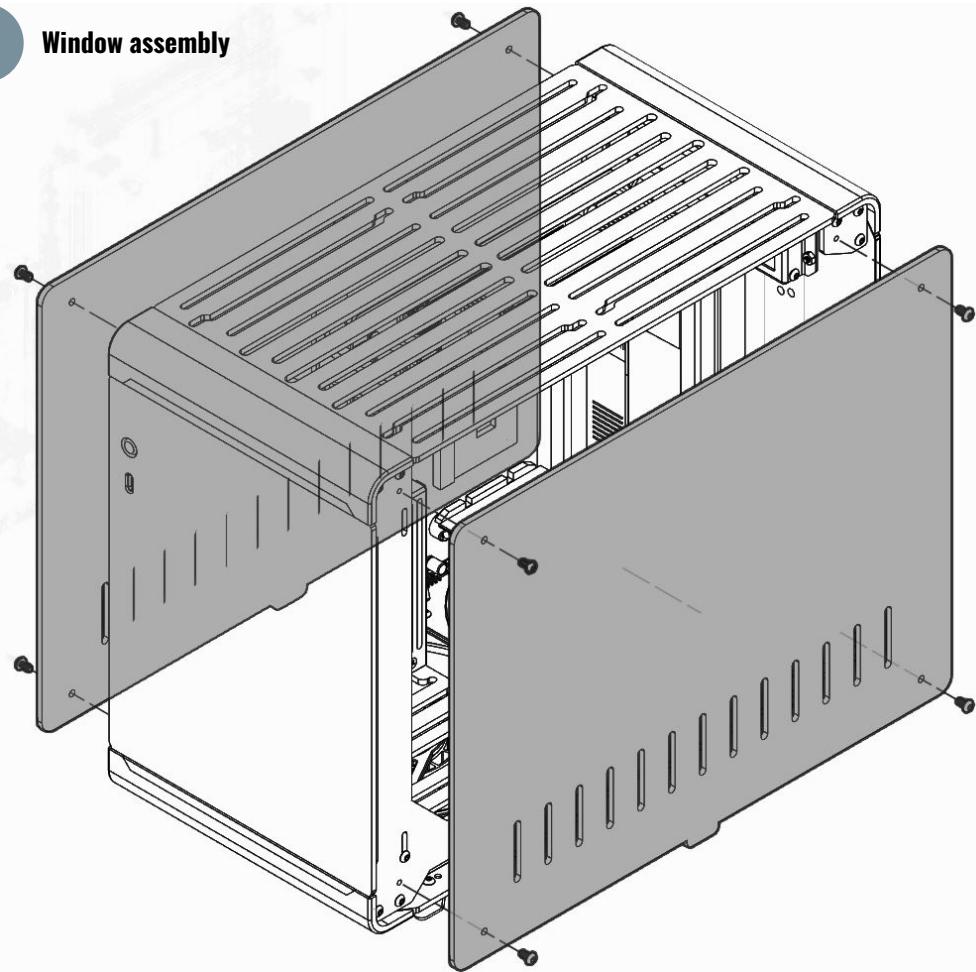
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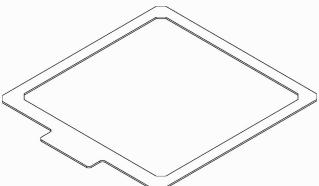
Button-head M3x6mm x 8

15

Window assembly



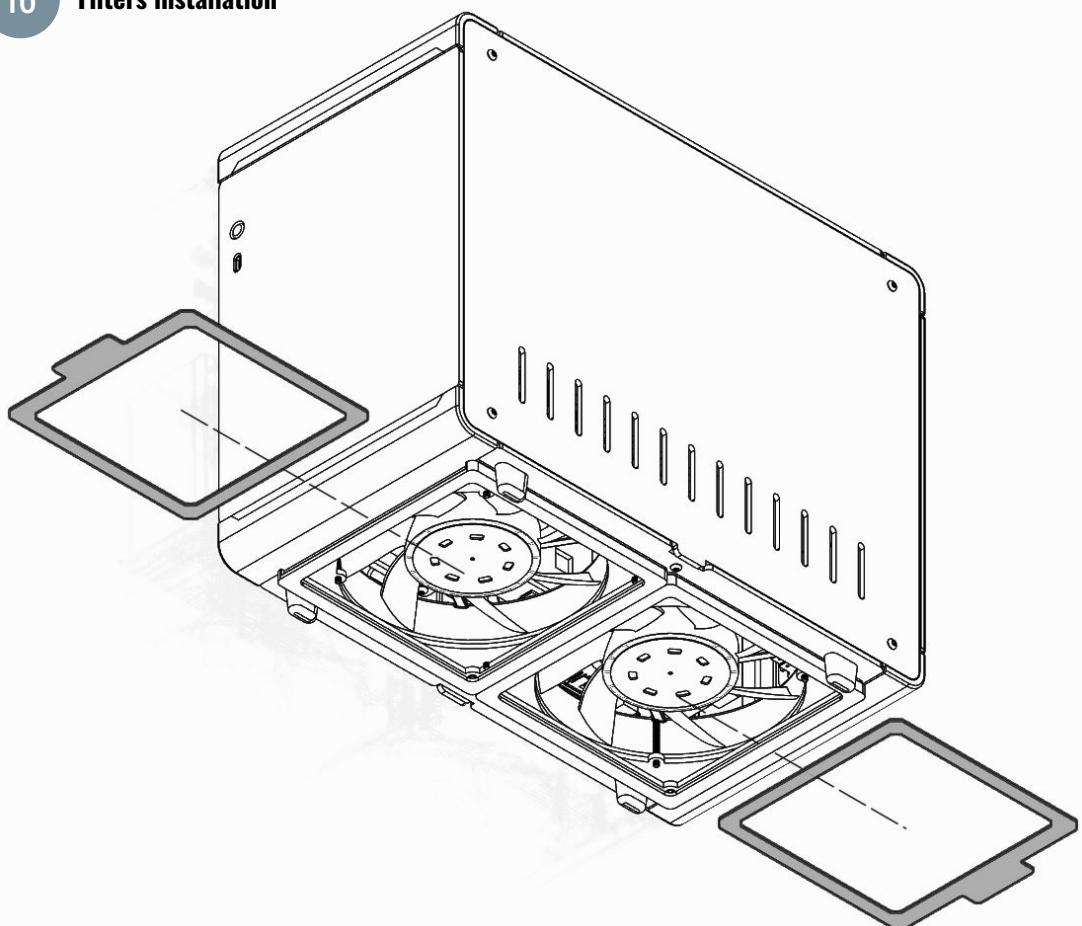
16



Filter x 2

16

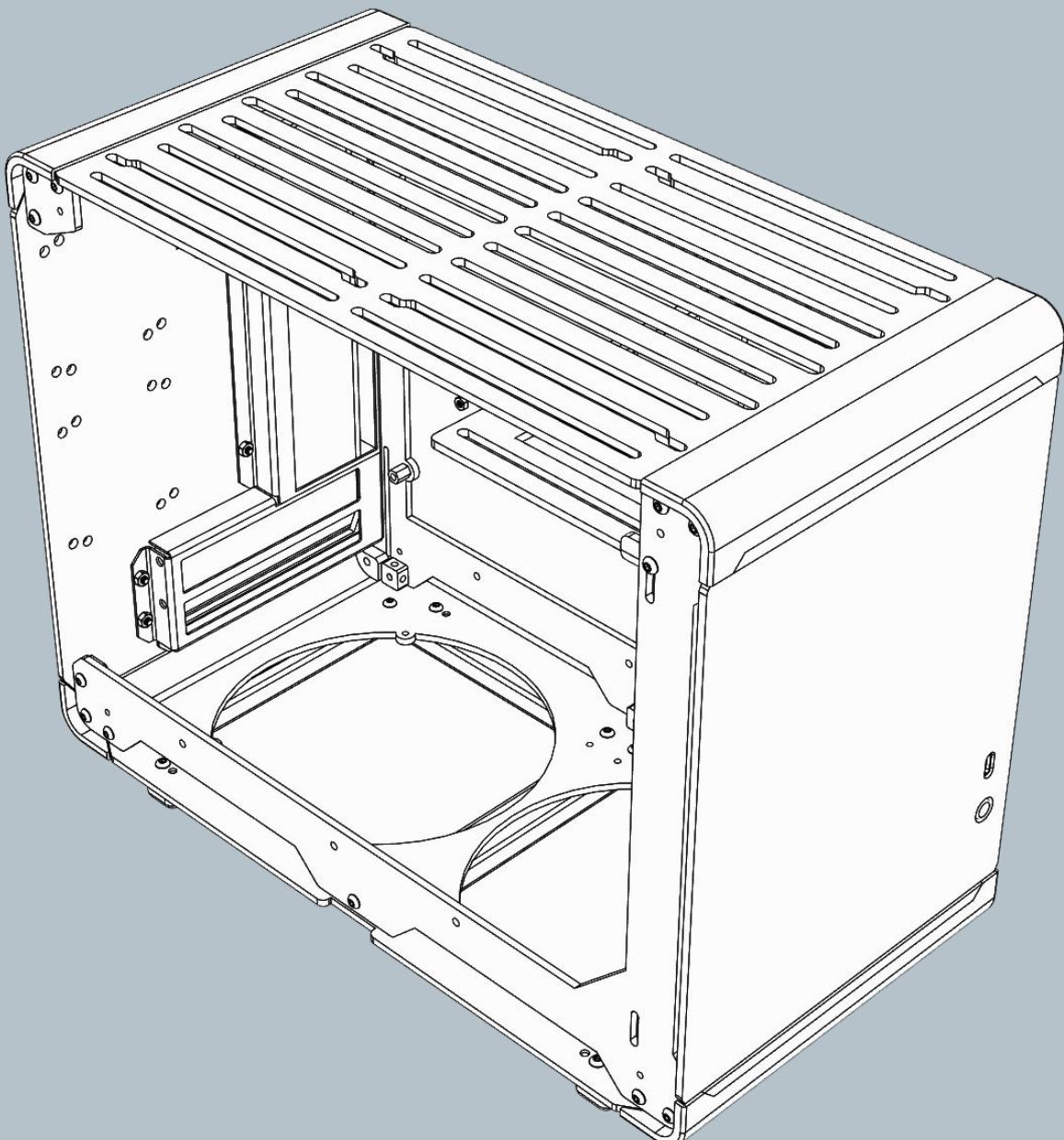
Filters installation



Clean filters regularly to ensure optimum airflow

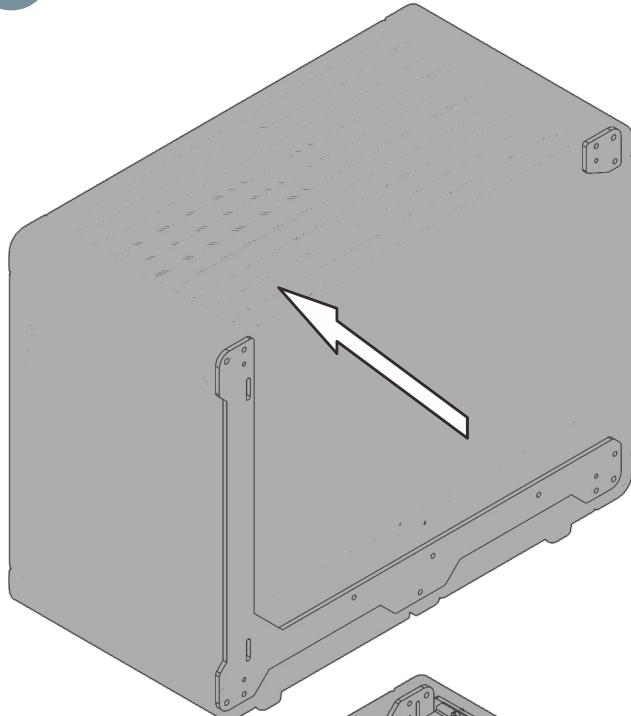
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Classic ITX

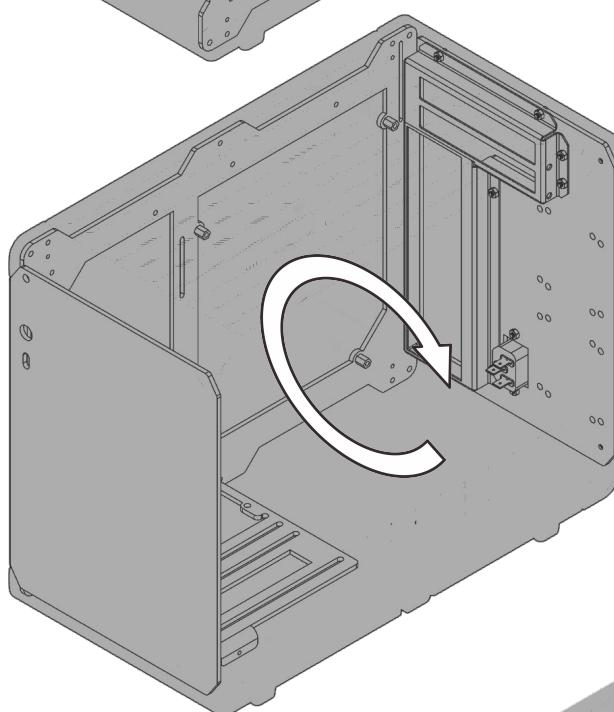


- ★ This section of the guide continues from the complete assembly of the Classic ITX layout. Please ensure you have thoroughly followed the previous steps before continuing the next steps.

Front panel assembly

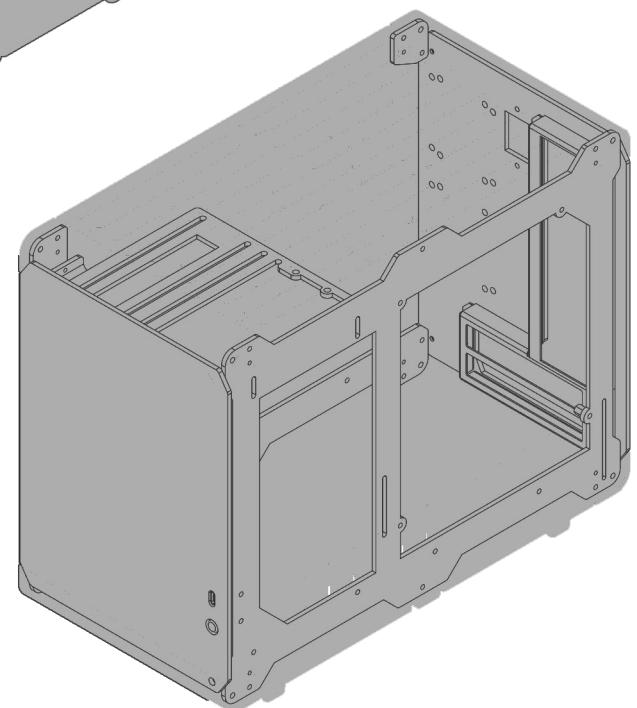


Remove all your internal components like GPU and motherboard before switching layout



The other components highlighted here are rotated 180°.

Re-fasten the screws accordingly. They should be built in the same order and position as the Reverse ITX layout.

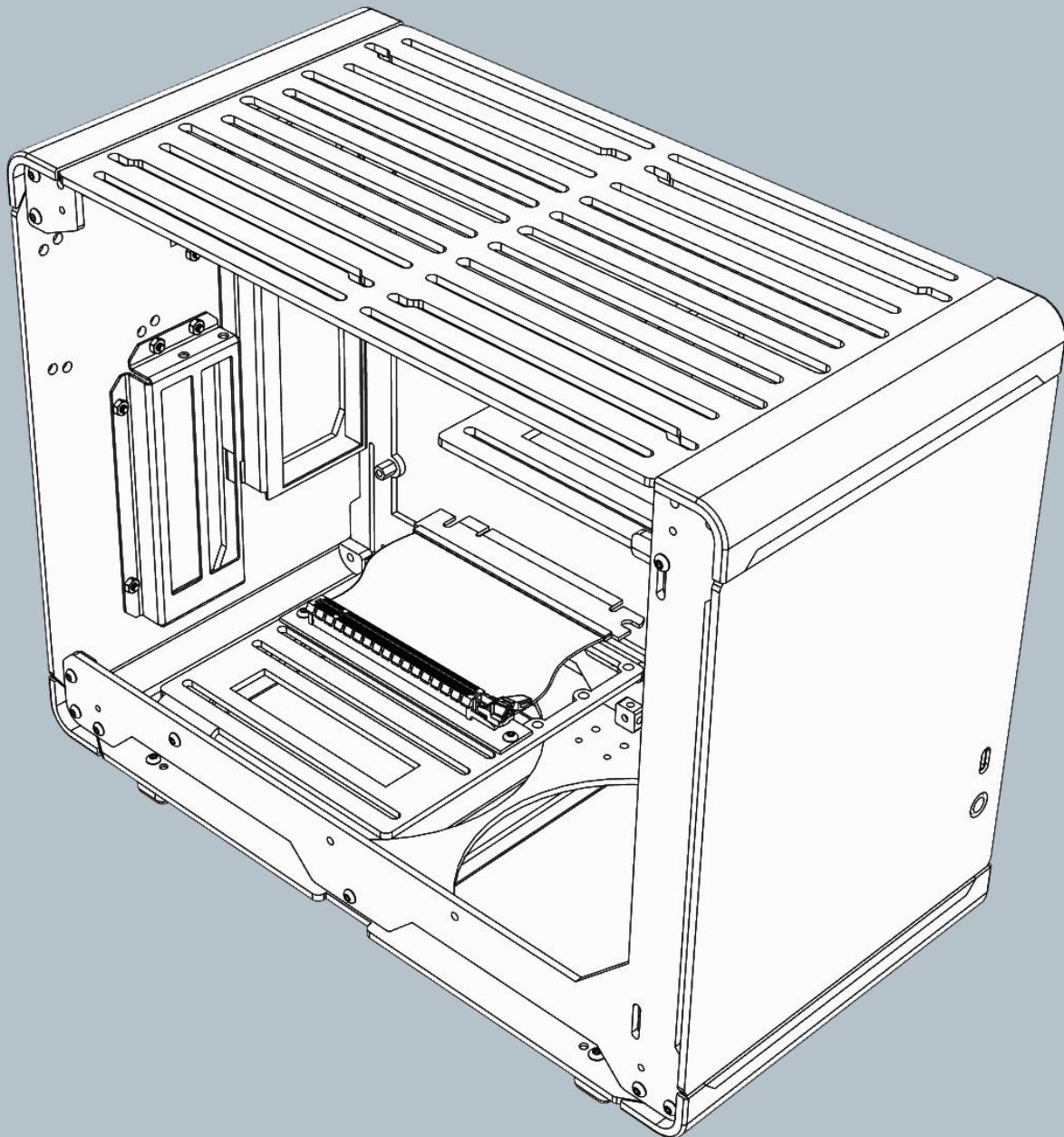


Completed Classic ITX layout

★ Check carefully before fastening screws, you shouldn't need to force parts to align

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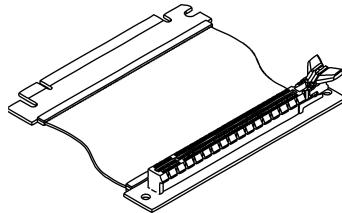
Beast Mode



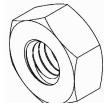
- ★ This section of the guide continues from the complete assembly of the Reverse ITX layout. Please ensure you have thoroughly followed the previous steps before continuing the next steps.



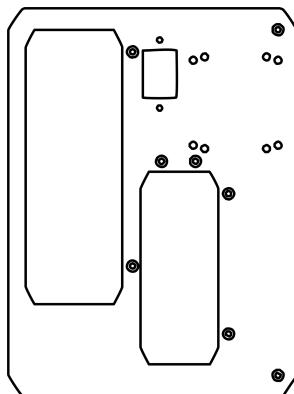
Button-head M3x10mm x 2



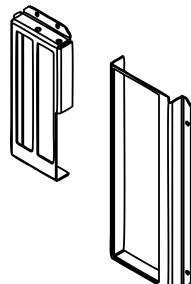
PCI-E Riser



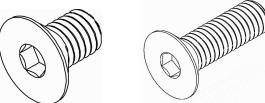
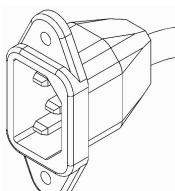
M3 Nut x 8



Outer - Back Vertical



IO Panel x 1

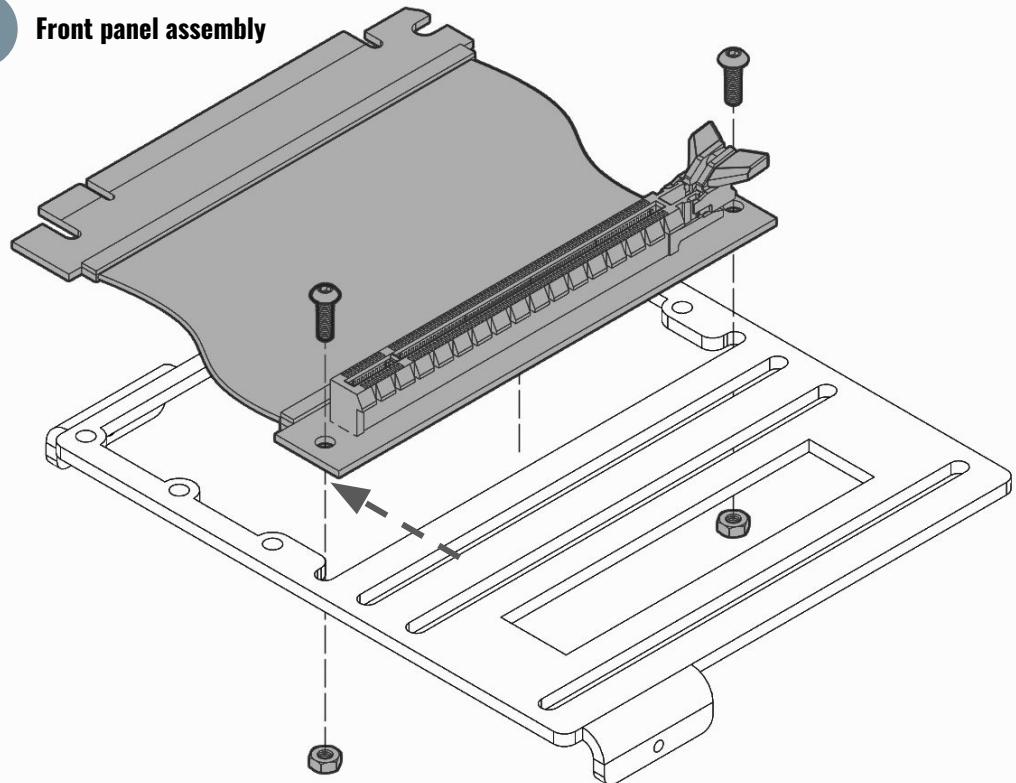
Flat-head M3x8mm x 6
Flat-head M3x10mm x 2

IEC320 C14 x 1



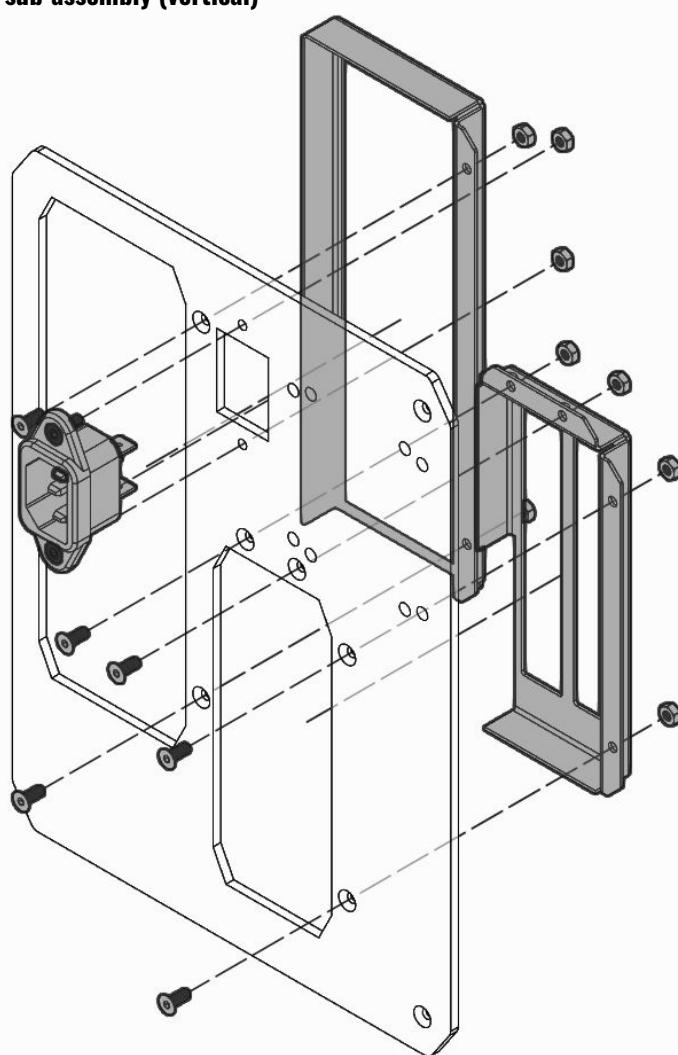
M3 Nut x 8

Front panel assembly



★ You may need to insert screws under the PCI-E release lever first

Back panel sub-assembly (vertical)

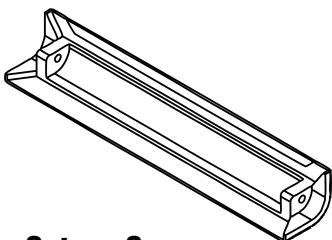
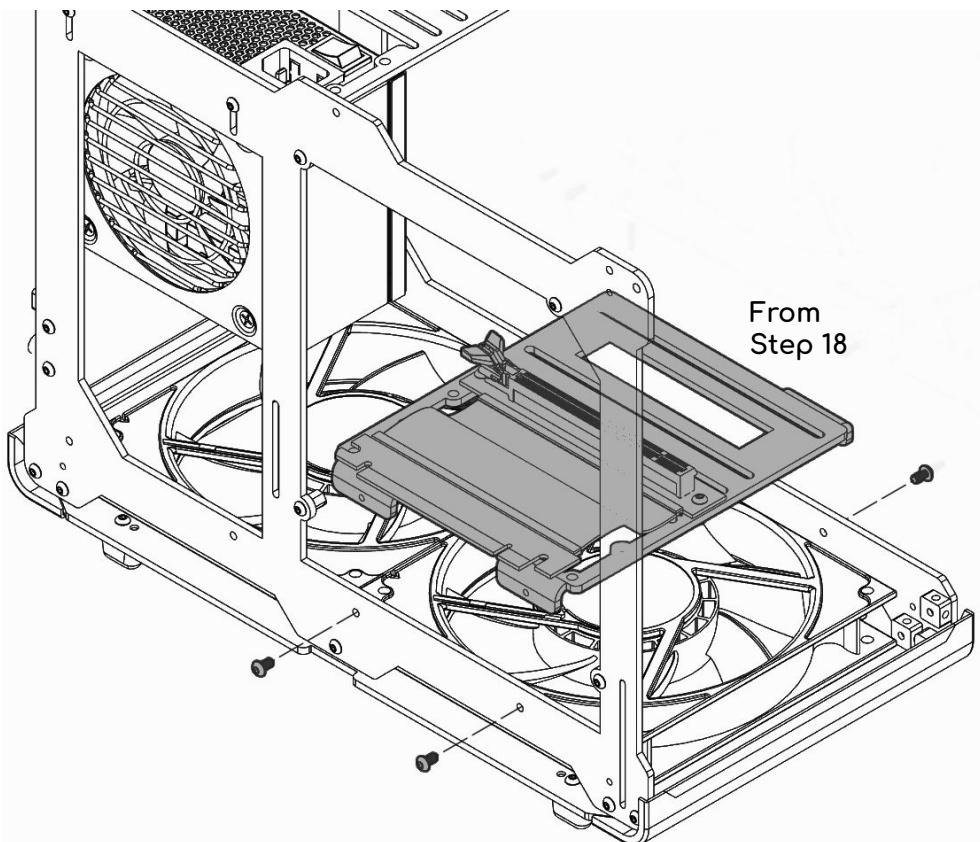




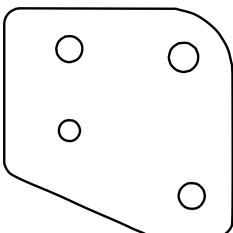
Button-head M3x6mm x 3

20

GPU mount



Outer - Corner x 1



Inner - Support



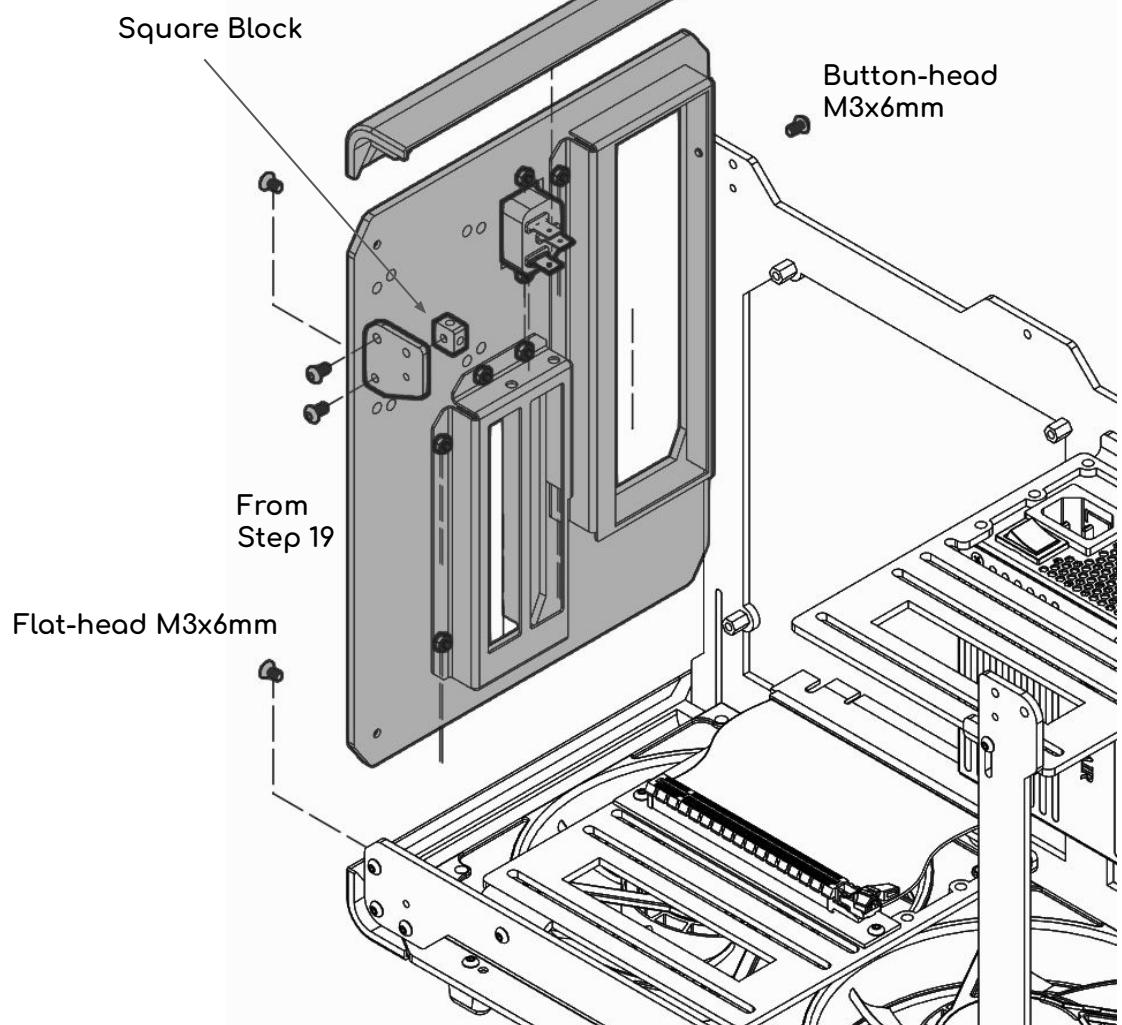
Button-head M3x6mm x 3



Flat-head M3x6mm x 2

21

Back panel sub-assembly (vertical)

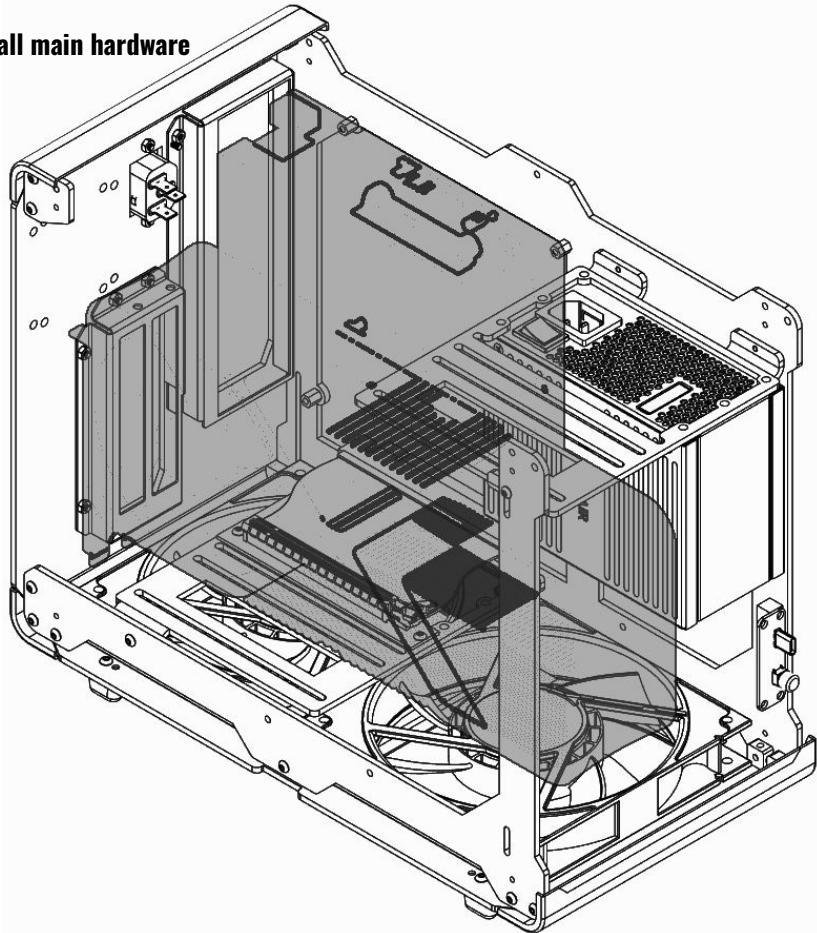




Button-head M3x6mm x 3

22

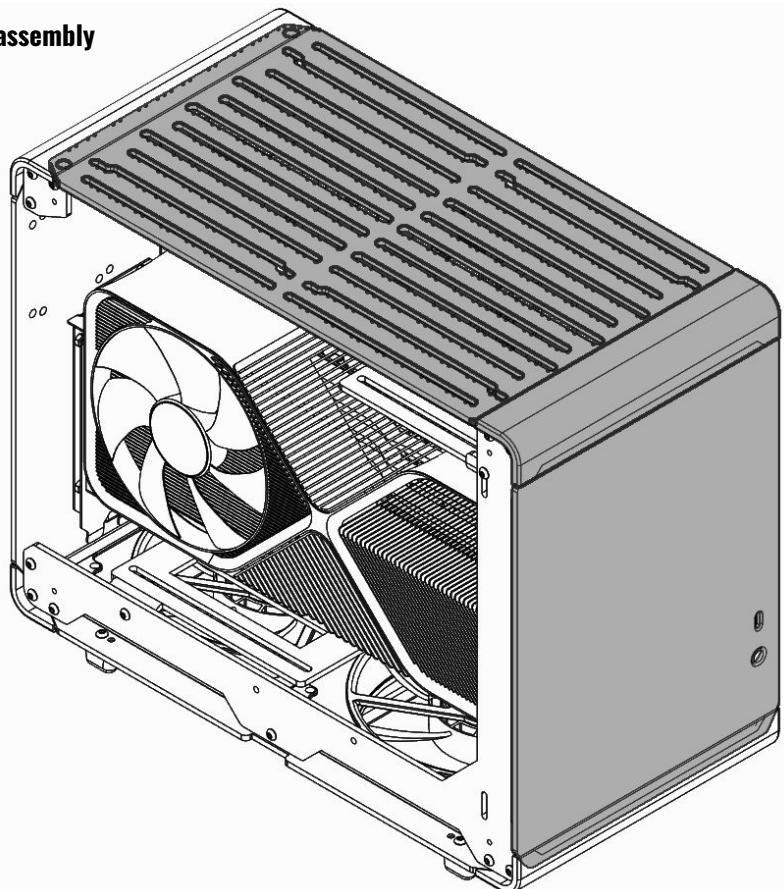
Install main hardware



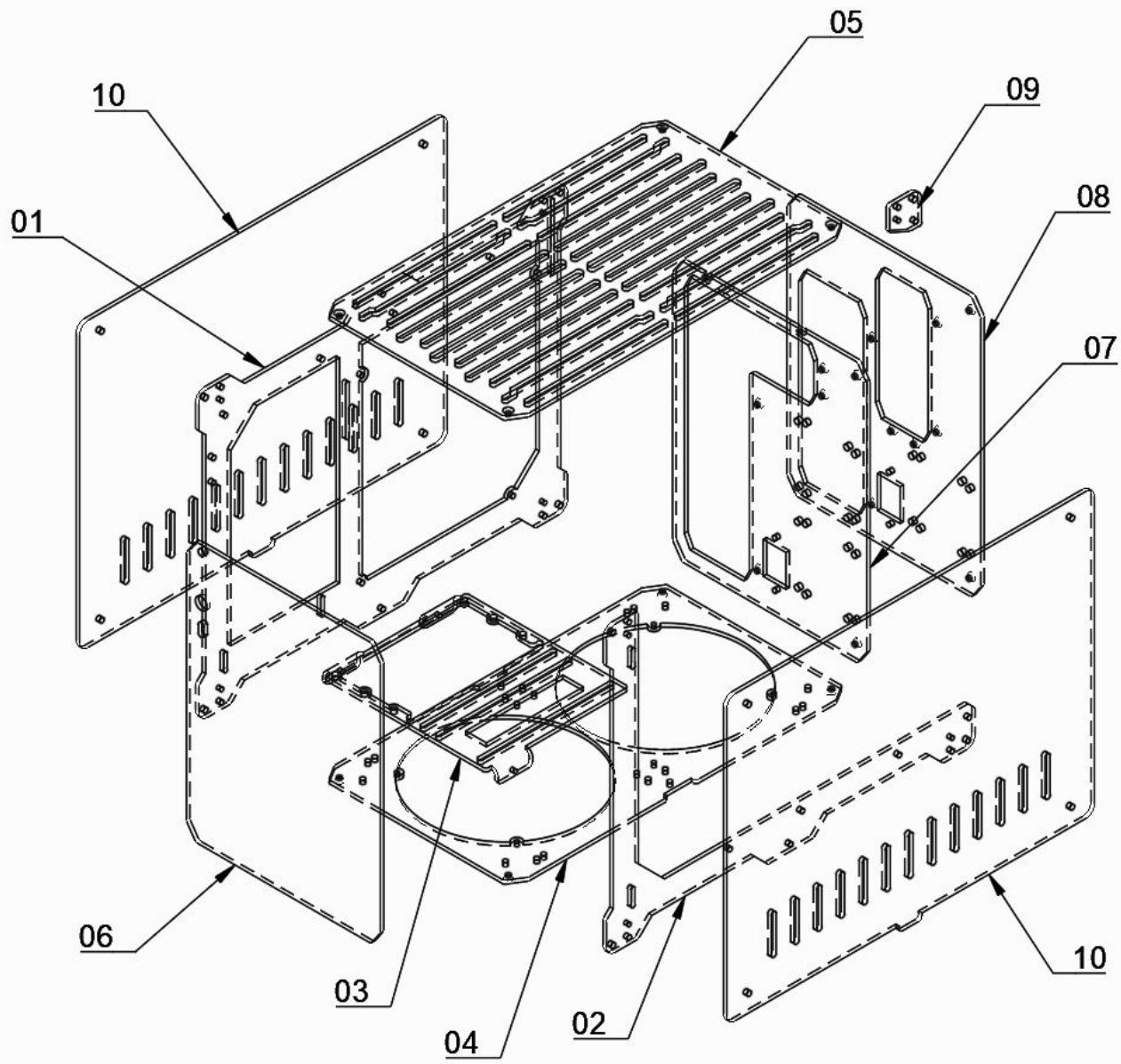
★ Install the motherboard and GPU at this point and run all wiring

23

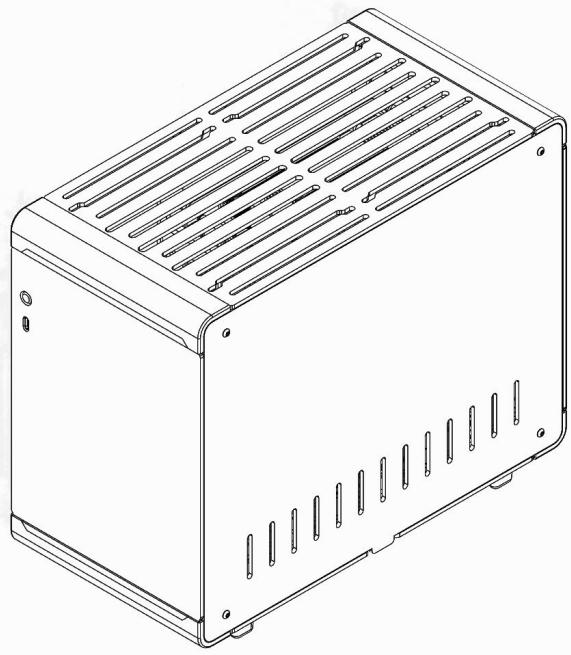
Complete assembly



★ Complete the assembly following the previous steps



- 01 - Inner Main
- 02 - Inner Sub
- 03 - Inner PSU
- 04 - Outer Base
- 05 - Outer Top
- 06 - Outer Front
- 07 - Outer Back
- 08 - Outer Back Vertical
- 09 - Inner Support
- 10 - Window



Date

Motherboard

GPU

CPU

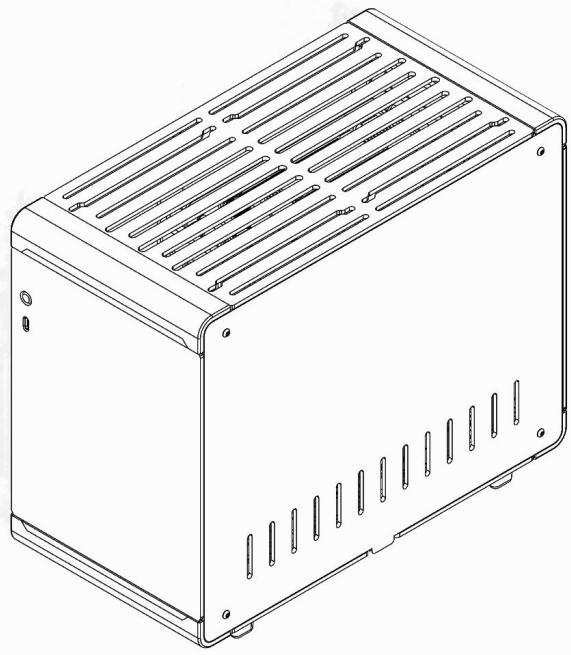
Memory

SSD

PSU

Cooling

Notes



Date _____

Motherboard _____

GPU _____

CPU _____

Memory _____

SSD _____

PSU _____

Cooling _____

Notes

